



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 50 January 2022

County of San Mateo
Engineering, Construction, Roads and Utilities



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CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in January 2022.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



The Unit Prices Include:

LABOR COSTS:

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

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

EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

Complete and In-Place Construction:

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

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

Demolition:

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

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

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

The Adjustment Factors Include:

BUSINESS COSTS:

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

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

CONSTRUCTION RELATED COSTS:

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

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

PRICE VARIATIONS:

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

GENERAL COSTS:

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

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

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

General Interpretations:

WORKING HEIGHT:

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

FIELD ENGINEERING:

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

ASSEMBLIES:

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

TESTING:

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

MISCELLANEOUS:

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

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

SPECIFICATIONS:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

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

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

BULK FACTORS FOR DEMOLITION:

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

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

CONVERSIONS:

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

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

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

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

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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

TRADEMARKS

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



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10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 General Requirements

01 20 Price and Payment Procedures (01)

01 22 Unit Prices (01 20)

Note: Provide digital copies of photographs.

01 22 16 Unit Price Payment (01 22)

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

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

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

01 22 20 Wage Rates (01 22)

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

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

01 22 20 00-0002	HR	Asbestos Removal Worker	67.71
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	3.39
		For Apprentice, Deduct	-13.54
01 22 20 00-0003	HR	Insulator	130.77
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	6.54
		For Apprentice, Deduct	-26.15
01 22 20 00-0004	HR	Boilermaker	108.05
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	5.40
		For Apprentice, Deduct	-21.61
01 22 20 00-0005	HR	Brick Layer	102.02
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	5.10
		For Apprentice, Deduct	-20.40
01 22 20 00-0006	HR	Carpenter	115.80
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	5.79
		For Apprentice, Deduct	-23.16
01 22 20 00-0007	HR	Carpet, Linoleum	113.53
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	5.68
		For Apprentice, Deduct	-22.71
01 22 20 00-0008	HR	Cement Mason	83.31
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	4.17
		For Apprentice, Deduct	-16.66
01 22 20 00-0009	HR	Drywall Finisher	109.43
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	5.47
		For Apprentice, Deduct	-21.89
01 22 20 00-0010	HR	Electrician	137.68
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	6.88
		For Apprentice, Deduct	-27.54
01 22 20 00-0011	HR	Equipment Operator, Crane (Group 1-A)	105.70
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 2-A)	103.37
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	5.17
		For Apprentice, Deduct	-20.67
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 3-A)	101.10
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0014	HR	Equipment Operator, Medium (Group 3)	100.59
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	5.03
		For Apprentice, Deduct	-20.12
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 4)	98.75
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 5)	97.07
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0017	HR	Equipment Operator, Light (Group 6)	95.32
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreman, Add	4.77
		For Apprentice, Deduct	-19.06
01 22 20 00-0018	HR	Equipment Operator, Light (Group 7)	93.81
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0019	HR	Equipment Operator, Light (Group 8).....	92.32	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020	HR	Glazier	109.20	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.46	
		For Apprentice, Deduct	-21.84	
01 22 20 00-0021	HR	Laborer	78.26	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022	HR	Lather.....	108.42	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.42	
		For Apprentice, Deduct	-21.68	
01 22 20 00-0023	HR	Marble Setter	109.51	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.48	
		For Apprentice, Deduct	-21.90	
01 22 20 00-0024	HR	Millwright.....	107.55	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.38	
		For Apprentice, Deduct	-21.51	
01 22 20 00-0025	HR	Mold Removal Worker	82.26	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.11	
		For Apprentice, Deduct	-16.45	
01 22 20 00-0026	HR	Painter, Ordinary.....	93.14	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.66	
		For Apprentice, Deduct	-18.63	
01 22 20 00-0027	HR	Painter, Structural Steel.....	97.45	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.87	
		For Apprentice, Deduct	-19.49	
01 22 20 00-0028	HR	Paperhanger	93.14	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.66	
		For Apprentice, Deduct	-18.63	
01 22 20 00-0029	HR	Pile Drivers	121.19	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	6.06	
		For Apprentice, Deduct	-24.24	
01 22 20 00-0030	HR	Plasterer	101.79	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.09	
		For Apprentice, Deduct	-20.36	
01 22 20 00-0031	HR	Plumber	140.66	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	7.03	
		For Apprentice, Deduct	-28.13	
01 22 20 00-0032	HR	Powderman.....	82.41	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.12	
		For Apprentice, Deduct	-16.48	
01 22 20 00-0033	HR	Rodman (Reinforcing)/Ornamental Steel Worker.....	101.41	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.07	
		For Apprentice, Deduct	-20.28	
01 22 20 00-0034	HR	Roofer, Composite	106.24	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.31	
		For Apprentice, Deduct	-21.25	
01 22 20 00-0035	HR	Roofer, Tile/Slate	106.24	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.31	
		For Apprentice, Deduct	-21.25	
01 22 20 00-0036	HR	Sheet Metal Worker	139.42	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	6.97	
		For Apprentice, Deduct	-27.88	
01 22 20 00-0037	HR	Sprinkler Installer	133.64	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	6.68	
		For Apprentice, Deduct	-26.73	
01 22 20 00-0038	HR	Steam / Pipe Fitter	140.66	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	7.03	
		For Apprentice, Deduct	-28.13	
01 22 20 00-0039	HR	Stone Mason.....	102.02	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.10	
		For Apprentice, Deduct	-20.40	
01 22 20 00-0040	HR	Iron Worker (Structural)	103.67	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.18	
		For Apprentice, Deduct	-20.73	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0041 HR Tile Layer.....	93.29	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.66	
For Apprentice, Deduct	-18.66	
01 22 20 00-0042 HR Terrazzo Worker.....	101.18	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.06	
For Apprentice, Deduct	-20.24	
01 22 20 00-0043 HR Truck Driver, Light (Group 1).....	81.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.08	
For Apprentice, Deduct	-16.32	
01 22 20 00-0044 HR Truck Driver, Medium (Group 2).....	82.03	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0045 HR Truck Driver, Heavy (Group 3).....	82.46	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.12	
For Apprentice, Deduct	-16.49	
01 22 20 00-0046 HR Truck Driver, Heavy (Group 4).....	82.96	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0047 HR Class I Diver.....	204.03	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0048 HR Class III Diver Tender.....	123.22	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0049 HR D1 Certified Welder.....	109.41	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 Rates For Services (01 22 20)		
01 22 20 00-0051 HR Watch/Guard Person, Unarmed.....	34.42	
01 22 20 00-0052 HR Watch/Guard Person, Armed.....	44.36	
01 22 20 00-0053 HR Surveyor (Rod Person).....	99.04	
01 22 20 00-0054 HR Senior Surveyor (Party Chief).....	108.18	
01 22 20 00-0055 HR Surveyor (Instrument person).....	103.45	
01 22 20 00-0056 HR On-Site Certified Materials Testing Technician.....	96.92	
01 22 20 00-0057 HR Certified Industrial Hygienist.....	130.82	
01 22 20 00-0058 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.56	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0059 HR Fire Watch Laborer.....	78.26	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0060 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0061 HR Principal Architect.....	212.52	
01 22 20 00-0062 HR Senior Architect.....	187.22	
01 22 20 00-0063 HR Architect.....	142.94	
01 22 20 00-0064 HR Principal Engineer.....	212.52	
01 22 20 00-0065 HR Senior Engineer.....	161.92	
01 22 20 00-0066 HR Engineer.....	129.03	
01 22 20 00-0067 HR Draft Person.....	76.53	
01 22 20 00-0068 HR Project Manager.....	151.80	
01 22 20 00-0069 Rates For Traffic Control (01 22 20)		
01 22 20 00-0070 DAY Pilot Vehicle With Driver.....	965.34	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0071 HR Flagperson For Traffic Control.....	78.26	
01 22 20 00-0072 Mobilize Equipment (01 22 20)		
01 22 20 00-0073 HR Escort Vehicle With Driver.....	89.50	
01 22 20 00-0074 HR Transport Vehicle With Driver.....	123.58	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0069 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		
01 22 23 00-0002 Man Lifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003 Telescoping Boom Man Lifts With Platform (01 22 23 00-0002)		

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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0004	Engine Powered, Telescoping Boom Man Lifts With Platform (01 22 23 00-0003) Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform	428.11
	For Four-Wheel Drive, Add	96.32
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform	1,077.18
	For Four-Wheel Drive, Add	242.37
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform	2,416.75
	For Four-Wheel Drive, Add	543.77
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform	628.36
	For Four-Wheel Drive, Add	141.38
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform	1,498.38
	For Four-Wheel Drive, Add	337.14
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform	3,279.88
	For Four-Wheel Drive, Add	737.97
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform	1,222.18
	For Four-Wheel Drive, Add	274.99
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform	2,962.24
	For Four-Wheel Drive, Add	666.50
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform	6,214.50
	For Four-Wheel Drive, Add	1,398.26
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform	1,740.06
	For Four-Wheel Drive, Add	391.51
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform	4,189.95
	For Four-Wheel Drive, Add	942.74
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform	10,440.36
	For Four-Wheel Drive, Add	2,349.08
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform	2,119.84
	For Four-Wheel Drive, Add	476.96
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform	5,406.62
	For Four-Wheel Drive, Add	1,216.49
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform	12,290.90
	For Four-Wheel Drive, Add	2,765.45

01 22 23 00-0020	Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0002)	
01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020) Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	383.98
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	963.45
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,317.86
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	488.70
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,068.17
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,651.57
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	628.34
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,452.15
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,246.40
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,096.10
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,583.16
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	6,281.95
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,129.36
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,026.68
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	12,287.44

01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020) Note: For use on paved surfaces.	
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	383.98
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	963.45
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,317.86
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	383.98
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	963.45
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,317.86
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	474.74
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,026.28
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,548.25
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	474.74
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,026.28
01 22 23 00-0049	MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,548.25

01 22 23 00-0050	Platform Lifts (01 22 23 00-0001) Note: Excludes operator, delivery, set-up, and removal.	
01 22 23 00-0051	Electric, Scissor Platform Lifts (01 22 23 00-0050) Note: For use on paved surfaces.	
01 22 23 00-0052	DAY 17' Electric, Scissor Platform Lift	159.72
01 22 23 00-0053	WK 17' Electric, Scissor Platform Lift	319.44
01 22 23 00-0054	MO 17' Electric, Scissor Platform Lift	653.40
01 22 23 00-0055	DAY 20' Electric, Scissor Platform Lift	174.24



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0056	WK	20'	Electric, Scissor Platform Lift.....	348.48	
01 22 23 00-0057	MO	20'	Electric, Scissor Platform Lift.....	696.96	
01 22 23 00-0058	DAY	25'	Electric, Scissor Platform Lift.....	225.06	
01 22 23 00-0059	WK	25'	Electric, Scissor Platform Lift.....	450.12	
01 22 23 00-0060	MO	25'	Electric, Scissor Platform Lift.....	965.58	
01 22 23 00-0061	DAY	30'	Electric, Scissor Platform Lift.....	290.40	
01 22 23 00-0062	WK	30'	Electric, Scissor Platform Lift.....	573.54	
01 22 23 00-0063	MO	30'	Electric, Scissor Platform Lift.....	1,270.50	
01 22 23 00-0064	DAY	33'	Electric, Scissor Platform Lift.....	312.18	
01 22 23 00-0065	WK	33'	Electric, Scissor Platform Lift.....	609.84	
01 22 23 00-0066	MO	33'	Electric, Scissor Platform Lift.....	1,379.40	
01 22 23 00-0067	DAY	40'	Electric, Scissor Platform Lift.....	406.56	
01 22 23 00-0068	WK	40'	Electric, Scissor Platform Lift.....	1,009.14	
01 22 23 00-0069	MO	40'	Electric, Scissor Platform Lift.....	2,809.62	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)					
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.					
01 22 23 00-0071	DAY	25'	Engine Powered, Scissor Platform Lift.....	326.70	
			For Four-Wheel Drive, Add	65.34	
01 22 23 00-0072	WK	25'	Engine Powered, Scissor Platform Lift.....	638.88	
			For Four-Wheel Drive, Add	127.78	
01 22 23 00-0073	MO	25'	Engine Powered, Scissor Platform Lift.....	1,560.90	
			For Four-Wheel Drive, Add	312.18	
01 22 23 00-0074	DAY	33'	Engine Powered, Scissor Platform Lift.....	333.96	
			For Four-Wheel Drive, Add	66.79	
01 22 23 00-0075	WK	33'	Engine Powered, Scissor Platform Lift.....	762.30	
			For Four-Wheel Drive, Add	152.46	
01 22 23 00-0076	MO	33'	Engine Powered, Scissor Platform Lift.....	1,669.80	
			For Four-Wheel Drive, Add	333.96	
01 22 23 00-0077	DAY	40'	Engine Powered, Scissor Platform Lift.....	370.26	
			For Four-Wheel Drive, Add	74.05	
01 22 23 00-0078	WK	40'	Engine Powered, Scissor Platform Lift.....	849.42	
			For Four-Wheel Drive, Add	169.88	
01 22 23 00-0079	MO	40'	Engine Powered, Scissor Platform Lift.....	1,887.60	
			For Four-Wheel Drive, Add	377.52	
01 22 23 00-0080	DAY	43'	Engine Powered, Scissor Platform Lift.....	392.04	
			For Four-Wheel Drive, Add	78.41	
01 22 23 00-0081	WK	43'	Engine Powered, Scissor Platform Lift.....	914.76	
			For Four-Wheel Drive, Add	182.95	
01 22 23 00-0082	MO	43'	Engine Powered, Scissor Platform Lift.....	2,250.60	
			For Four-Wheel Drive, Add	450.12	
01 22 23 00-0083	DAY	50'	Engine Powered, Scissor Platform Lift.....	733.26	
			For Four-Wheel Drive, Add	146.65	
01 22 23 00-0084	WK	50'	Engine Powered, Scissor Platform Lift.....	1,611.72	
			For Four-Wheel Drive, Add	322.34	
01 22 23 00-0085	MO	50'	Engine Powered, Scissor Platform Lift.....	3,963.96	
			For Four-Wheel Drive, Add	792.79	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)					
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.					
01 22 23 00-0087	DAY	24'	Push-Type, Electric Single Man Personnel Lift.....	143.20	
01 22 23 00-0088	WK	24'	Push-Type, Electric Single Man Personnel Lift.....	405.73	
01 22 23 00-0089	MO	24'	Push-Type, Electric Single Man Personnel Lift.....	819.42	
01 22 23 00-0090	DAY	30'	Push-Type, Electric Single Man Personnel Lift.....	198.89	
01 22 23 00-0091	WK	30'	Push-Type, Electric Single Man Personnel Lift.....	421.64	
01 22 23 00-0092	MO	30'	Push-Type, Electric Single Man Personnel Lift.....	1,431.99	
01 22 23 00-0093	DAY	36'	Push-Type, Electric Single Man Personnel Lift.....	334.13	
01 22 23 00-0094	WK	36'	Push-Type, Electric Single Man Personnel Lift.....	811.46	
01 22 23 00-0095	MO	36'	Push-Type, Electric Single Man Personnel Lift.....	2,370.74	
01 22 23 00-0096	DAY	40'	Push-Type, Electric Single Man Personnel Lift.....	358.00	
01 22 23 00-0097	WK	40'	Push-Type, Electric Single Man Personnel Lift.....	891.02	
01 22 23 00-0098	MO	40'	Push-Type, Electric Single Man Personnel Lift.....	2,681.00	
01 22 23 00-0099	DAY	15'	Self-Propelled, Electric Single Man Personnel Lift.....	190.93	
01 22 23 00-0100	WK	15'	Self-Propelled, Electric Single Man Personnel Lift.....	381.86	
01 22 23 00-0101	MO	15'	Self-Propelled, Electric Single Man Personnel Lift.....	763.73	
01 22 23 00-0102	DAY	20'	Self-Propelled, Electric Single Man Personnel Lift.....	190.93	
01 22 23 00-0103	WK	20'	Self-Propelled, Electric Single Man Personnel Lift.....	381.86	
01 22 23 00-0104	MO	20'	Self-Propelled, Electric Single Man Personnel Lift.....	793.96	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001)					
Note: Includes full-time operator, delivery, and removal.					
01 22 23 00-0106	DAY	29'	Bucket Truck With Full-Time Operator.....	1,188.12	
			For Equipment Without Operator, Deduct	-659.68	
01 22 23 00-0107	WK	29'	Bucket Truck With Full-Time Operator.....	4,883.73	
			For Equipment Without Operator, Deduct	-3,298.41	
01 22 23 00-0108	MO	29'	Bucket Truck With Full-Time Operator.....	18,328.48	
			For Equipment Without Operator, Deduct	-14,293.12	
01 22 23 00-0109	DAY	38'	Bucket Truck With Full-Time Operator.....	1,255.38	
			For Equipment Without Operator, Deduct	-659.68	

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01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,099.91 -3,298.41	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,904.96 -14,293.12	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,428.32 -659.68	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,412.17 -3,298.41	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,577.52 -14,293.12	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,812.64 -659.68	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,661.21 -3,298.41	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,940.32 -14,293.12	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,004.80 -659.68	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,333.77 -3,298.41	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	25,342.32 -14,293.12	
01 22 23 00-0121 Air Equipment (01 22 23)		
01 22 23 00-0122 Air Compressors (01 22 23 00-0121) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0123 DAY 100 CFM Diesel Powered Portable Air Compressor	154.66	
01 22 23 00-0124 WK 100 CFM Diesel Powered Portable Air Compressor	463.97	
01 22 23 00-0125 MO 100 CFM Diesel Powered Portable Air Compressor	1,288.81	
01 22 23 00-0126 DAY 130 CFM Diesel Powered Portable Air Compressor	185.59	
01 22 23 00-0127 WK 130 CFM Diesel Powered Portable Air Compressor	546.46	
01 22 23 00-0128 MO 130 CFM Diesel Powered Portable Air Compressor	1,546.58	
01 22 23 00-0129 DAY 185 CFM Diesel Powered Portable Air Compressor	247.45	
01 22 23 00-0130 WK 185 CFM Diesel Powered Portable Air Compressor	556.77	
01 22 23 00-0131 MO 185 CFM Diesel Powered Portable Air Compressor	1,226.95	
01 22 23 00-0132 DAY 375 CFM Diesel Powered Portable Air Compressor	350.56	
01 22 23 00-0133 WK 375 CFM Diesel Powered Portable Air Compressor	886.70	
01 22 23 00-0134 MO 375 CFM Diesel Powered Portable Air Compressor	2,113.65	
01 22 23 00-0135 DAY 600 CFM Diesel Powered Portable Air Compressor	779.47	
01 22 23 00-0136 WK 600 CFM Diesel Powered Portable Air Compressor	1,876.51	
01 22 23 00-0137 MO 600 CFM Diesel Powered Portable Air Compressor	4,676.84	
01 22 23 00-0138 DAY 750 CFM Diesel Powered Portable Air Compressor	938.26	
01 22 23 00-0139 WK 750 CFM Diesel Powered Portable Air Compressor	2,309.55	
01 22 23 00-0140 MO 750 CFM Diesel Powered Portable Air Compressor	5,670.78	
01 22 23 00-0141 DAY 825 CFM Diesel Powered Portable Air Compressor	938.26	
01 22 23 00-0142 WK 825 CFM Diesel Powered Portable Air Compressor	2,309.55	
01 22 23 00-0143 MO 825 CFM Diesel Powered Portable Air Compressor	5,670.78	
01 22 23 00-0144 DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,092.91	
01 22 23 00-0145 WK 1,300 CFM Diesel Powered Portable Air Compressor	2,449.77	
01 22 23 00-0146 MO 1,300 CFM Diesel Powered Portable Air Compressor	6,532.73	
01 22 23 00-0147 DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,360.99	
01 22 23 00-0148 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,062.22	
01 22 23 00-0149 MO 1,600 CFM Diesel Powered Portable Air Compressor	8,165.92	
01 22 23 00-0150 Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0151 Pavers And Rollers (01 22 23 00-0150) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0152 Pavers (01 22 23 00-0151)		
01 22 23 00-0153 DAY 8' Wide Paving Machine With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,736.69 -804.69	
01 22 23 00-0154 WK 8' Wide Paving Machine With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,717.42 -4,023.44	
01 22 23 00-0155 MO 8' Wide Paving Machine With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	48,485.37 -17,434.91	
01 22 23 00-0156 DAY 10' Wide Paving Machine With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,219.68 -804.69	
01 22 23 00-0157 WK 10' Wide Paving Machine With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,683.42 -4,023.44	
01 22 23 00-0158 MO 10' Wide Paving Machine With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	51,935.43 -17,434.91	
01 22 23 00-0159 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0151)		
01 22 23 00-0160 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,173.77 -804.69	
01 22 23 00-0161 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,139.73 -4,023.44	



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01 22 23 00-0162 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator For Equipment Without Operator, Deduct	20,465.21 -17,434.91	
01 22 23 00-0163 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,316.21 -804.69	
01 22 23 00-0164 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator For Equipment Without Operator, Deduct	6,199.04 -4,023.44	
01 22 23 00-0165 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator For Equipment Without Operator, Deduct	22,064.53 -17,434.91	
01 22 23 00-0166 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,322.69 -804.69	
01 22 23 00-0167 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator For Equipment Without Operator, Deduct	5,778.16 -4,023.44	
01 22 23 00-0168 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator For Equipment Without Operator, Deduct	22,375.33 -17,434.91	
01 22 23 00-0169 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0151)		
01 22 23 00-0170 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,232.04 -804.69	
01 22 23 00-0171 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	5,208.36 -4,023.44	
01 22 23 00-0172 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	20,860.19 -17,434.91	
01 22 23 00-0173 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,503.99 -804.69	
01 22 23 00-0174 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	5,758.74 -4,023.44	
01 22 23 00-0175 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	22,595.49 -17,434.91	
01 22 23 00-0176 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,568.74 -804.69	
01 22 23 00-0177 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	6,166.66 -4,023.44	
01 22 23 00-0178 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	23,735.09 -17,434.91	
01 22 23 00-0179 Towed, Padfoot Rollers (01 22 23 00-0151)		
01 22 23 00-0180 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	123.02	
01 22 23 00-0181 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	356.12	
01 22 23 00-0182 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,048.95	
01 22 23 00-0183 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	155.40	
01 22 23 00-0184 WK 60" Wide, 60" Diameter, Towed Padfoot Roller	433.82	
01 22 23 00-0185 MO 60" Wide, 60" Diameter, Towed Padfoot Roller	1,845.38	
01 22 23 00-0186 Static Rollers (01 22 23 00-0151)		
01 22 23 00-0187 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,264.41 -804.69	
01 22 23 00-0188 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator For Equipment Without Operator, Deduct	5,486.79 -4,023.44	
01 22 23 00-0189 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator For Equipment Without Operator, Deduct	21,773.16 -17,434.91	
01 22 23 00-0190 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,406.87 -804.69	
01 22 23 00-0191 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator For Equipment Without Operator, Deduct	5,875.29 -4,023.44	
01 22 23 00-0192 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator For Equipment Without Operator, Deduct	22,848.01 -17,434.91	
01 22 23 00-0193 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0151)		
01 22 23 00-0194 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,219.09 -804.69	
01 22 23 00-0195 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	5,247.22 -4,023.44	
01 22 23 00-0196 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	20,672.41 -17,434.91	
01 22 23 00-0197 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,303.27 -804.69	
01 22 23 00-0198 WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	5,493.26 -4,023.44	
01 22 23 00-0199 MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	21,313.43 -17,434.91	
01 22 23 00-0200 DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	1,471.61 -804.69	
01 22 23 00-0201 WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	5,985.36 -4,023.44	
01 22 23 00-0202 MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator For Equipment Without Operator, Deduct	22,614.91 -17,434.91	

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01 22 23 00-0203 Steel Roadway Plates (01 22 23 00-0150) Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0204 EA Placement And Removal Of Steel Roadway Plates.....	51.04	
01 22 23 00-0205 DAY 1" x 4' x 8' Steel Plate	37.51	
01 22 23 00-0206 WK 1" x 4' x 8' Steel Plate	88.56	
01 22 23 00-0207 MO 1" x 4' x 8' Steel Plate	116.55	
01 22 23 00-0208 DAY 1" x 4' x 10' Steel Plate	50.01	
01 22 23 00-0209 WK 1" x 4' x 10' Steel Plate	112.53	
01 22 23 00-0210 MO 1" x 4' x 10' Steel Plate	137.53	
01 22 23 00-0211 DAY 1" x 5' x 10' Steel Plate	52.10	
01 22 23 00-0212 WK 1" x 5' x 10' Steel Plate	117.73	
01 22 23 00-0213 MO 1" x 5' x 10' Steel Plate	312.57	
01 22 23 00-0214 DAY 1" x 6' x 8' Steel Plate	33.34	
01 22 23 00-0215 WK 1" x 6' x 8' Steel Plate	75.02	
01 22 23 00-0216 MO 1" x 6' x 8' Steel Plate	200.04	
01 22 23 00-0217 DAY 1" x 6' x 10' Steel Plate	62.51	
01 22 23 00-0218 WK 1" x 6' x 10' Steel Plate	82.31	
01 22 23 00-0219 MO 1" x 6' x 10' Steel Plate	219.84	
01 22 23 00-0220 DAY 1" x 6' x 12' Steel Plate	87.52	
01 22 23 00-0221 WK 1" x 6' x 12' Steel Plate	112.00	
01 22 23 00-0222 MO 1" x 6' x 12' Steel Plate	303.19	
01 22 23 00-0223 DAY 1" x 8' x 10' Steel Plate	55.22	
01 22 23 00-0224 WK 1" x 8' x 10' Steel Plate	123.99	
01 22 23 00-0225 MO 1" x 8' x 10' Steel Plate	330.28	
01 22 23 00-0226 DAY 1" x 8' x 12' Steel Plate	100.02	
01 22 23 00-0227 WK 1" x 8' x 12' Steel Plate	123.99	
01 22 23 00-0228 MO 1" x 8' x 12' Steel Plate	600.13	
01 22 23 00-0229 DAY 1" x 8' x 16' Steel Plate	133.36	
01 22 23 00-0230 WK 1" x 8' x 16' Steel Plate	300.07	
01 22 23 00-0231 MO 1" x 8' x 16' Steel Plate	800.18	
01 22 23 00-0232 LF Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.16	0.97
01 22 23 00-0233 EA Removal And Resetting Of Steel Roadway Plate	28.36	
01 22 23 00-0234 Street Sweepers (01 22 23 00-0150) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0235 DAY 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	961.92	
For Equipment Without Operator, Deduct	-762.54	
01 22 23 00-0236 WK 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,602.79	
For Equipment Without Operator, Deduct	-3,812.70	
01 22 23 00-0237 MO 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	19,336.62	
For Equipment Without Operator, Deduct	-16,521.72	
01 22 23 00-0238 DAY Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	1,683.95	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
For Equipment Without Operator, Deduct	-762.54	
01 22 23 00-0239 WK Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	7,503.44	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
For Equipment Without Operator, Deduct	-3,812.70	
01 22 23 00-0240 MO Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	29,693.07	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
For Equipment Without Operator, Deduct	-16,521.72	
01 22 23 00-0241 Earthmoving Equipment (01 22 23)		
01 22 23 00-0242 Skid-Steer Loaders (01 22 23 00-0241) Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.		
01 22 23 00-0243 DAY 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,083.83	
For Equipment Without Operator, Deduct	-762.54	
01 22 23 00-0244 WK 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	4,655.58	
For Equipment Without Operator, Deduct	-3,812.70	
01 22 23 00-0245 MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	18,551.61	
For Equipment Without Operator, Deduct	-16,521.72	
01 22 23 00-0246 DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,168.52	
For Equipment Without Operator, Deduct	-762.54	
01 22 23 00-0247 WK 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	4,808.83	
For Equipment Without Operator, Deduct	-3,812.70	
01 22 23 00-0248 MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	18,887.69	
For Equipment Without Operator, Deduct	-16,521.72	
01 22 23 00-0249 DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,192.72	
For Equipment Without Operator, Deduct	-762.54	
01 22 23 00-0250 WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	5,029.29	
For Equipment Without Operator, Deduct	-3,812.70	
01 22 23 00-0251 MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	19,472.46	
For Equipment Without Operator, Deduct	-16,521.72	
01 22 23 00-0252 DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,286.82	
For Equipment Without Operator, Deduct	-762.54	
01 22 23 00-0253 WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	5,338.48	
For Equipment Without Operator, Deduct	-3,812.70	
01 22 23 00-0254 MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	20,494.13	
For Equipment Without Operator, Deduct	-16,521.72	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0255	DAY		3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,448.13 -762.54	
01 22 23 00-0256	WK		3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,950.14 -3,812.70	
01 22 23 00-0257	MO		3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,999.74 -16,521.72	
01 22 23 00-0258	DAY		Hydraulic Hammer Attachment For Skid-Steer Loaders	268.86	
01 22 23 00-0259	WK		Hydraulic Hammer Attachment For Skid-Steer Loaders	893.96	
01 22 23 00-0260	MO		Hydraulic Hammer Attachment For Skid-Steer Loaders	2,379.41	
01 22 23 00-0261	DAY		Forklift Attachment For Skid-Steer Loaders.....	57.80	
01 22 23 00-0262	WK		Forklift Attachment For Skid-Steer Loaders.....	154.59	
01 22 23 00-0263	MO		Forklift Attachment For Skid-Steer Loaders.....	436.90	
01 22 23 00-0264	DAY		Backhoe Attachment For Skid-Steer Loaders.....	127.71	
01 22 23 00-0265	WK		Backhoe Attachment For Skid-Steer Loaders.....	306.50	
01 22 23 00-0266	MO		Backhoe Attachment For Skid-Steer Loaders.....	762.22	
01 22 23 00-0267	DAY		Broom Attachment For Skid-Steer Loaders.....	126.36	
01 22 23 00-0268	WK		Broom Attachment For Skid-Steer Loaders.....	342.80	
01 22 23 00-0269	MO		Broom Attachment For Skid-Steer Loaders.....	907.40	
01 22 23 00-0270	DAY		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	110.23	
01 22 23 00-0271	WK		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	303.81	
01 22 23 00-0272	MO		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	829.43	
01 22 23 00-0273	DAY		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	30.38	
01 22 23 00-0274	WK		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	79.49	
01 22 23 00-0275	MO		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	233.79	
01 22 23 00-0276	DAY		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	40.91	
01 22 23 00-0277	WK		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	101.70	
01 22 23 00-0278	MO		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	303.93	
01 22 23 00-0279	DAY		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	59.61	
01 22 23 00-0280	WK		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	181.20	
01 22 23 00-0281	MO		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	537.72	
01 22 23 00-0282	DAY		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	12.10	
01 22 23 00-0283	WK		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	28.23	
01 22 23 00-0284	MO		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	75.28	
01 22 23 00-0285 Bulldozers (01 22 23 00-0241)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0286	DAY		70 HP, D3 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,235.08 -804.69	
01 22 23 00-0287	WK		70 HP, D3 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,720.62 -4,023.44	
01 22 23 00-0288	MO		70 HP, D3 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,469.62 -17,434.91	
01 22 23 00-0289	DAY		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,438.09 -804.69	
01 22 23 00-0290	WK		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,540.80 -4,023.44	
01 22 23 00-0291	MO		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	24,986.97 -17,434.91	
01 22 23 00-0292	DAY		140 HP, D6 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,014.64 -804.69	
01 22 23 00-0293	WK		140 HP, D6 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,847.02 -4,023.44	
01 22 23 00-0294	MO		140 HP, D6 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	31,889.40 -17,434.91	
01 22 23 00-0295	DAY		200 HP, D7 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,526.24 -804.69	
01 22 23 00-0296	WK		200 HP, D7 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,901.50 -4,023.44	
01 22 23 00-0297	MO		200 HP, D7 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	38,060.98 -17,434.91	
01 22 23 00-0298	DAY		335 HP, D8 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,135.27 -804.69	
01 22 23 00-0299	WK		335 HP, D8 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,337.65 -4,023.44	
01 22 23 00-0300	MO		335 HP, D8 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	45,369.43 -17,434.91	
01 22 23 00-0301	DAY		460 HP, D9 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,476.33 -804.69	
01 22 23 00-0302	WK		460 HP, D9 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,693.78 -4,023.44	
01 22 23 00-0303	MO		460 HP, D9 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	49,429.68 -17,434.91	
01 22 23 00-0304 Motor Scraper (01 22 23 00-0241)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0305	DAY		11 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,776.69 -804.69	
01 22 23 00-0306	WK		11 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,911.42 -4,023.44	
01 22 23 00-0307	MO		11 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,085.53 -17,434.91	

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01 22 23 00-0308 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	2,169.48	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0309 WK 18 CY Motor Scraper-Hauler With Full-Time Operator	9,482.59	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0310 MO 18 CY Motor Scraper-Hauler With Full-Time Operator	33,812.36	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0311 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	2,548.95	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0312 WK 24 CY Motor Scraper-Hauler With Full-Time Operator	10,993.84	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0313 MO 24 CY Motor Scraper-Hauler With Full-Time Operator	38,339.46	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0314 Hydraulic Excavators (01 22 23 00-0241)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0315 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator	1,158.63	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0316 WK 3/8 CY Hydraulic Excavator With Full-Time Operator	5,275.35	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0317 MO 3/8 CY Hydraulic Excavator With Full-Time Operator	21,629.79	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0318 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator	1,258.26	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0319 WK 1/2 CY Hydraulic Excavator With Full-Time Operator	5,714.50	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0320 MO 1/2 CY Hydraulic Excavator With Full-Time Operator	23,386.40	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0321 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator	1,289.72	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0322 WK 5/8 CY Hydraulic Excavator With Full-Time Operator	5,878.36	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0323 MO 5/8 CY Hydraulic Excavator With Full-Time Operator	23,674.79	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0324 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator	1,322.50	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0325 WK 3/4 CY Hydraulic Excavator With Full-Time Operator	6,029.12	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0326 MO 3/4 CY Hydraulic Excavator With Full-Time Operator	23,963.19	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0327 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,348.71	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0328 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	6,186.42	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0329 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	24,251.59	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0330 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,702.66	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0331 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	7,595.64	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0332 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	28,151.52	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0333 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,755.09	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0334 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	7,825.05	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0335 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	28,839.74	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0336 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	1,853.41	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0337 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	8,218.32	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0338 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	30,019.55	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0339 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	1,964.84	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0340 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	8,657.47	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0341 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	31,330.45	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0342 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	1,997.61	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0343 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	8,788.56	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0344 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	31,723.72	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0345 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	2,312.23	
For Equipment Without Operator, Deduct	-804.69	
01 22 23 00-0346 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	10,053.58	
For Equipment Without Operator, Deduct	-4,023.44	
01 22 23 00-0347 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	35,525.33	
For Equipment Without Operator, Deduct	-17,434.91	
01 22 23 00-0348 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	2,764.49	
For Equipment Without Operator, Deduct	-804.69	



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MINOR		TOTAL DIRECT		DEMOLITION
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01 22 23 00-0349	WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	11,849.51 -4,023.44		
01 22 23 00-0350	MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	40,900.02 -17,434.91		
01 22 23 00-0351	DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	91.76		
01 22 23 00-0352	WK Thumbs Or Grapple Attachment For Hydraulic Excavators	353.94		
01 22 23 00-0353	MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,048.72		
01 22 23 00-0354	DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	406.38		
01 22 23 00-0355	WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,074.94		
01 22 23 00-0356	MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,008.52		
01 22 23 00-0357	DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	629.23		
01 22 23 00-0358	WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,605.85		
01 22 23 00-0359	MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,175.22		
01 22 23 00-0360	DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	878.30		
01 22 23 00-0361	WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,366.17		
01 22 23 00-0362	MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,633.15		
01 22 23 00-0363	DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	183.53		
01 22 23 00-0364	WK 24" Compaction Wheel Attachment For Hydraulic Excavators	734.10		
01 22 23 00-0365	MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,202.31		
01 22 23 00-0366	DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	262.18		
01 22 23 00-0367	WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,048.72		
01 22 23 00-0368	MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,146.16		
01 22 23 00-0369	DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	288.40		
01 22 23 00-0370	WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,140.48		
01 22 23 00-0371	MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,408.34		
01 22 23 00-0372	Mini-Excavators (01 22 23 00-0241) Note: Includes full-time operator. Excludes delivery, set-up, and removal.			
01 22 23 00-0373	DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,079.98		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		
01 22 23 00-0374	WK 2,000 LB Mini-Excavator With Full-Time Operator.....	4,803.43		
	<i>For Equipment Without Operator, Deduct</i>	-4,023.44		
01 22 23 00-0375	MO 2,000 LB Mini-Excavator With Full-Time Operator.....	19,152.19		
	<i>For Equipment Without Operator, Deduct</i>	-17,434.91		
01 22 23 00-0376	DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,086.53		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		
01 22 23 00-0377	WK 3,500 LB Mini-Excavator With Full-Time Operator.....	4,823.09		
	<i>For Equipment Without Operator, Deduct</i>	-4,023.44		
01 22 23 00-0378	MO 3,500 LB Mini-Excavator With Full-Time Operator.....	19,565.12		
	<i>For Equipment Without Operator, Deduct</i>	-17,434.91		
01 22 23 00-0379	DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,119.31		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		
01 22 23 00-0380	WK 6,000 LB Mini-Excavator With Full-Time Operator.....	4,914.85		
	<i>For Equipment Without Operator, Deduct</i>	-4,023.44		
01 22 23 00-0381	MO 6,000 LB Mini-Excavator With Full-Time Operator.....	19,624.11		
	<i>For Equipment Without Operator, Deduct</i>	-17,434.91		
01 22 23 00-0382	DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,132.41		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		
01 22 23 00-0383	WK 7,500 LB Mini-Excavator With Full-Time Operator.....	4,960.73		
	<i>For Equipment Without Operator, Deduct</i>	-4,023.44		
01 22 23 00-0384	MO 7,500 LB Mini-Excavator With Full-Time Operator.....	19,650.33		
	<i>For Equipment Without Operator, Deduct</i>	-17,434.91		
01 22 23 00-0385	DAY 9,500 LB Mini-Excavator With Full-Time Operator.....	1,211.07		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		
01 22 23 00-0386	WK 9,500 LB Mini-Excavator With Full-Time Operator.....	5,026.28		
	<i>For Equipment Without Operator, Deduct</i>	-4,023.44		
01 22 23 00-0387	MO 9,500 LB Mini-Excavator With Full-Time Operator.....	20,410.65		
	<i>For Equipment Without Operator, Deduct</i>	-17,434.91		
01 22 23 00-0388	DAY 11,000 LB Mini-Excavator With Full-Time Operator.....	1,217.62		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		
01 22 23 00-0389	WK 11,000 LB Mini-Excavator With Full-Time Operator.....	5,354.00		
	<i>For Equipment Without Operator, Deduct</i>	-4,023.44		
01 22 23 00-0390	MO 11,000 LB Mini-Excavator With Full-Time Operator.....	20,443.43		
	<i>For Equipment Without Operator, Deduct</i>	-17,434.91		
01 22 23 00-0391	Road Graders (01 22 23 00-0241) Note: Includes full-time operator. Excludes delivery, set-up, and removal.			
01 22 23 00-0392	DAY 60 HP Road Grader With Full-Time Operator	1,355.13		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		
01 22 23 00-0393	WK 60 HP Road Grader With Full-Time Operator	5,512.46		
	<i>For Equipment Without Operator, Deduct</i>	-4,023.44		
01 22 23 00-0394	MO 60 HP Road Grader With Full-Time Operator	21,887.85		
	<i>For Equipment Without Operator, Deduct</i>	-17,434.91		
01 22 23 00-0395	DAY 80 HP Road Grader With Full-Time Operator	1,517.44		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		
01 22 23 00-0396	WK 80 HP Road Grader With Full-Time Operator	5,964.10		
	<i>For Equipment Without Operator, Deduct</i>	-4,023.44		
01 22 23 00-0397	MO 80 HP Road Grader With Full-Time Operator	23,256.89		
	<i>For Equipment Without Operator, Deduct</i>	-17,434.91		
01 22 23 00-0398	DAY 130 HP Road Grader With Full-Time Operator	1,407.53		
	<i>For Equipment Without Operator, Deduct</i>	-804.69		

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01 22 23 00-0399 WK 130 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct	6,434.80 -4,023.44	
01 22 23 00-0400 MO 130 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct	26,052.35 -17,434.91	
01 22 23 00-0401 Loader-Backhoes With Standard Bucket (01 22 23 00-0241) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0402 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator For Equipment Without Operator, Deduct	1,177.51 -804.69	
01 22 23 00-0403 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator For Equipment Without Operator, Deduct	4,908.89 -4,023.44	
01 22 23 00-0404 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator For Equipment Without Operator, Deduct	19,518.71 -17,434.91	
01 22 23 00-0405 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	1,217.45 -804.69	
01 22 23 00-0406 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	5,048.70 -4,023.44	
01 22 23 00-0407 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	20,370.87 -17,434.91	
01 22 23 00-0408 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	1,279.04 -804.69	
01 22 23 00-0409 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	5,201.82 -4,023.44	
01 22 23 00-0410 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	20,810.26 -17,434.91	
01 22 23 00-0411 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	1,553.66 -804.69	
01 22 23 00-0412 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	6,020.69 -4,023.44	
01 22 23 00-0413 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator For Equipment Without Operator, Deduct	23,153.70 -17,434.91	
01 22 23 00-0414 Heavy Duty Construction Loaders (01 22 23 00-0241) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0415 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	1,272.92 -804.69	
01 22 23 00-0416 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	5,874.74 -4,023.44	
01 22 23 00-0417 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	22,981.61 -17,434.91	
01 22 23 00-0418 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	1,661.91 -804.69	
01 22 23 00-0419 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	6,299.75 -4,023.44	
01 22 23 00-0420 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	23,197.71 -17,434.91	
01 22 23 00-0421 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	1,748.35 -804.69	
01 22 23 00-0422 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	6,530.26 -4,023.44	
01 22 23 00-0423 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	23,773.99 -17,434.91	
01 22 23 00-0424 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	1,986.06 -804.69	
01 22 23 00-0425 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	7,156.96 -4,023.44	
01 22 23 00-0426 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	25,358.76 -17,434.91	
01 22 23 00-0427 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	2,598.36 -804.69	
01 22 23 00-0428 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	11,183.72 -4,023.44	
01 22 23 00-0429 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	38,901.34 -17,434.91	
01 22 23 00-0430 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	6,632.25 -804.69	
01 22 23 00-0431 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	22,946.83 -4,023.44	
01 22 23 00-0432 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator For Equipment Without Operator, Deduct	69,006.28 -17,434.91	
01 22 23 00-0433 Shoring (01 22 23 00-0241) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0434 Aluminum Hydraulic Shoring (01 22 23 00-0433) Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0435 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	70.11	
01 22 23 00-0436 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	206.79	



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01 22 23 00-0437	WK		Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	94.05	
01 22 23 00-0438	MO		Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	277.41	
01 22 23 00-0439	WK		Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	174.39	
01 22 23 00-0440	MO		Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	514.46	
01 22 23 00-0441	EA		Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	24.65	
01 22 23 00-0442	EA		Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	39.44	
01 22 23 00-0443	EA		Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	65.73	
01 22 23 00-0444 Trench Boxes/Trench Shields (01 22 23 00-0241)					
Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.					
01 22 23 00-0445	WK		4' x 6' Trench Box With Up To 48" Spreaders.....	188.87	
01 22 23 00-0446	MO		4' x 6' Trench Box With Up To 48" Spreaders.....	566.60	
01 22 23 00-0447	WK		6' x 6' Trench Box With Up To 48" Spreaders.....	213.24	
01 22 23 00-0448	MO		6' x 6' Trench Box With Up To 48" Spreaders.....	639.71	
01 22 23 00-0449	WK		8' x 6' Trench Box With Up To 48" Spreaders.....	225.42	
01 22 23 00-0450	MO		8' x 6' Trench Box With Up To 48" Spreaders.....	676.27	
01 22 23 00-0451	WK		4' x 8' Trench Box With Up To 48" Spreaders.....	207.14	
01 22 23 00-0452	MO		4' x 8' Trench Box With Up To 48" Spreaders.....	621.44	
01 22 23 00-0453	WK		6' x 8' Trench Box With Up To 48" Spreaders.....	243.70	
01 22 23 00-0454	MO		6' x 8' Trench Box With Up To 48" Spreaders.....	731.10	
01 22 23 00-0455	WK		8' x 8' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0456	MO		8' x 8' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0457	WK		4' x 10' Trench Box With Up To 48" Spreaders.....	231.52	
01 22 23 00-0458	MO		4' x 10' Trench Box With Up To 48" Spreaders.....	694.54	
01 22 23 00-0459	WK		6' x 10' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0460	MO		6' x 10' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0461	WK		8' x 10' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0462	MO		8' x 10' Trench Box With Up To 48" Spreaders.....	999.17	
01 22 23 00-0463	WK		4' x 12' Trench Box With Up To 48" Spreaders.....	274.16	
01 22 23 00-0464	MO		4' x 12' Trench Box With Up To 48" Spreaders.....	822.49	
01 22 23 00-0465	WK		6' x 12' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0466	MO		6' x 12' Trench Box With Up To 48" Spreaders.....	1,005.26	
01 22 23 00-0467	WK		8' x 12' Trench Box With Up To 48" Spreaders.....	426.48	
01 22 23 00-0468	MO		8' x 12' Trench Box With Up To 48" Spreaders.....	1,279.42	
01 22 23 00-0469	WK		4' x 14' Trench Box With Up To 48" Spreaders.....	304.62	
01 22 23 00-0470	MO		4' x 14' Trench Box With Up To 48" Spreaders.....	913.88	
01 22 23 00-0471	WK		6' x 14' Trench Box With Up To 48" Spreaders.....	396.01	
01 22 23 00-0472	MO		6' x 14' Trench Box With Up To 48" Spreaders.....	1,188.04	
01 22 23 00-0473	WK		8' x 14' Trench Box With Up To 48" Spreaders.....	487.40	
01 22 23 00-0474	MO		8' x 14' Trench Box With Up To 48" Spreaders.....	1,462.20	
01 22 23 00-0475	WK		4' x 16' Trench Box With Up To 48" Spreaders.....	335.09	
01 22 23 00-0476	MO		4' x 16' Trench Box With Up To 48" Spreaders.....	1,005.26	
01 22 23 00-0477	WK		6' x 16' Trench Box With Up To 48" Spreaders.....	456.94	
01 22 23 00-0478	MO		6' x 16' Trench Box With Up To 48" Spreaders.....	1,370.81	
01 22 23 00-0479	WK		8' x 16' Trench Box With Up To 48" Spreaders.....	548.32	
01 22 23 00-0480	MO		8' x 16' Trench Box With Up To 48" Spreaders.....	1,644.98	
01 22 23 00-0481	WK		4' x 20' Trench Box With Up To 48" Spreaders.....	396.01	
01 22 23 00-0482	MO		4' x 20' Trench Box With Up To 48" Spreaders.....	1,188.04	
01 22 23 00-0483	WK		6' x 20' Trench Box With Up To 48" Spreaders.....	548.32	
01 22 23 00-0484	MO		6' x 20' Trench Box With Up To 48" Spreaders.....	1,644.98	
01 22 23 00-0485	WK		8' x 20' Trench Box With Up To 48" Spreaders.....	639.71	
01 22 23 00-0486	MO		8' x 20' Trench Box With Up To 48" Spreaders.....	1,919.14	
01 22 23 00-0487	WK		4' x 24' Trench Box With Up To 48" Spreaders.....	548.32	
01 22 23 00-0488	MO		4' x 24' Trench Box With Up To 48" Spreaders.....	1,644.98	
01 22 23 00-0489	WK		6' x 24' Trench Box With Up To 48" Spreaders.....	670.18	
01 22 23 00-0490	MO		6' x 24' Trench Box With Up To 48" Spreaders.....	2,010.52	
01 22 23 00-0491	WK		8' x 24' Trench Box With Up To 48" Spreaders.....	731.10	
01 22 23 00-0492	MO		8' x 24' Trench Box With Up To 48" Spreaders.....	2,193.30	
01 22 23 00-0493	WK		For Spreaders >48" To 84", Add.....	18.28	
01 22 23 00-0494	MO		For Spreaders >48" To 84", Add.....	54.83	
01 22 23 00-0495	WK		For Spreaders >84" To 120", Add.....	109.66	
01 22 23 00-0496	MO		For Spreaders >84" To 120", Add.....	329.00	
01 22 23 00-0497	WK		For Spreaders >120", Add.....	231.52	
01 22 23 00-0498	MO		For Spreaders >120", Add.....	694.54	
01 22 23 00-0499	WK		8' x 4' Manhole Box.....	287.87	
01 22 23 00-0500	MO		8' x 4' Manhole Box.....	863.61	
01 22 23 00-0501	WK		8' x 8' Manhole Box.....	411.24	
01 22 23 00-0502	MO		8' x 8' Manhole Box.....	1,233.73	
01 22 23 00-0503 Trenchers (01 22 23 00-0241)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0504	DAY		4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator For Equipment Without Operator, Deduct	1,108.24 -762.54	
01 22 23 00-0505	WK		4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator For Equipment Without Operator, Deduct	4,990.23 -3,812.70	

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01 22 23 00-0506 MO 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,762.62 -16,521.72	
01 22 23 00-0507 DAY 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,691.60 -762.54	
01 22 23 00-0508 WK 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,956.37 -3,812.70	
01 22 23 00-0509 MO 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	25,164.12 -16,521.72	
01 22 23 00-0510 Portable Sediment Tank (01 22 23 00-0241) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0511 WK Portable Sediment Tank	162.18	
01 22 23 00-0512 MO Portable Sediment Tank	475.73	
01 22 23 00-0513 Heavy Equipment (Ground Protection) Mats (01 22 23 00-0241) Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0241 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0514 DAY 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	21.12	
01 22 23 00-0515 WK 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	50.29	
01 22 23 00-0516 MO 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	105.60	
01 22 23 00-0517 DAY 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	22.18	
01 22 23 00-0518 WK 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	52.80	
01 22 23 00-0519 MO 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	110.88	
01 22 23 00-0520 Day 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	17.95	
01 22 23 00-0521 WK 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	42.24	
01 22 23 00-0522 MO 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	89.76	
01 22 23 00-0523 Day 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	20.06	
01 22 23 00-0524 WK 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	47.52	
01 22 23 00-0525 MO 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	100.32	
01 22 23 00-0526 Day 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	22.18	
01 22 23 00-0527 WK 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	52.80	
01 22 23 00-0528 MO 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	110.88	
01 22 23 00-0529 Day 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	24.29	
01 22 23 00-0530 WK 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	57.83	
01 22 23 00-0531 MO 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	121.44	
01 22 23 00-0532 Day 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	19.01	
01 22 23 00-0533 WK 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	52.80	
01 22 23 00-0534 MO 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	95.04	
01 22 23 00-0535 Day 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	22.18	
01 22 23 00-0536 WK 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	52.80	
01 22 23 00-0537 MO 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	110.88	
01 22 23 00-0538 Day 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	26.40	
01 22 23 00-0539 WK 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	58.08	
01 22 23 00-0540 MO 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	132.00	
01 22 23 00-0541 Day 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	28.51	
01 22 23 00-0542 WK 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	67.89	
01 22 23 00-0543 MO 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	142.56	
01 22 23 00-0544 Day 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	30.62	
01 22 23 00-0545 WK 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	72.91	
01 22 23 00-0546 MO 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	153.12	
01 22 23 00-0547 Day 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	31.68	
01 22 23 00-0548 WK 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	75.43	
01 22 23 00-0549 MO 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	158.40	
01 22 23 00-0550 Day 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	10.16	
01 22 23 00-0551 WK 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	25.40	
01 22 23 00-0552 MO 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	76.19	
01 22 23 00-0553 Day 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	12.14	
01 22 23 00-0554 WK 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	30.36	
01 22 23 00-0555 MO 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	91.08	
01 22 23 00-0556 Day 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	13.87	
01 22 23 00-0557 WK 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	34.67	
01 22 23 00-0558 MO 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	104.02	
01 22 23 00-0559 Day 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.78	
01 22 23 00-0560 WK 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	36.96	
01 22 23 00-0561 MO 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	110.88	
01 22 23 00-0562 Day 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	16.90	
01 22 23 00-0563 WK 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	42.24	
01 22 23 00-0564 MO 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	126.72	
01 22 23 00-0565 Day 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.42	
01 22 23 00-0566 WK 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	48.54	
01 22 23 00-0567 MO 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	145.62	
01 22 23 00-0568 Day 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.94	
01 22 23 00-0569 WK 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	37.35	
01 22 23 00-0570 MO 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	112.04	
01 22 23 00-0571 Day 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	20.23	
01 22 23 00-0572 WK 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	50.56	
01 22 23 00-0573 MO 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	151.69	
01 22 23 00-0574 Day 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	17.49	
01 22 23 00-0575 WK 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	43.72	



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0576	MO	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	131.16	
01 22 23 00-0577	Day	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	29.17	
01 22 23 00-0578	WK	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	72.91	
01 22 23 00-0579	MO	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	218.74	
01 22 23 00-0580	Day	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	31.09	
01 22 23 00-0581	WK	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	77.72	
01 22 23 00-0582	MO	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	233.16	
01 22 23 00-0583	Electrical Equipment (01 22 23)			
01 22 23 00-0584	Tripod Mounted Floodlights (01 22 23 00-0583)			
Note: Includes delivery to job site and pick-up when complete.				
01 22 23 00-0585	DAY	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	64.93	
01 22 23 00-0586	WK	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	153.61	
01 22 23 00-0587	MO	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	324.64	
01 22 23 00-0588	DAY	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	64.93	
01 22 23 00-0589	WK	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	190.03	
01 22 23 00-0590	MO	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	562.18	
01 22 23 00-0591	DAY	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	72.85	
01 22 23 00-0592	WK	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	197.95	
01 22 23 00-0593	MO	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	483.00	
01 22 23 00-0594	Trailer Mounted Floodlights (01 22 23 00-0583)			
Note: Includes delivery to job site and pick-up when complete. Excludes operator.				
01 22 23 00-0595	DAY	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	182.11	
01 22 23 00-0596	WK	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	403.82	
01 22 23 00-0597	MO	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	870.98	
01 22 23 00-0598	Generator Sets (01 22 23 00-0583)			
01 22 23 00-0599	Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0598)			
Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0706 for reimbursable fuel fees.				
01 22 23 00-0600	DAY	3.6 KW, 8 HP Gas Powered Generator Set	51.26	
For LP Or NG Gas, Add			6.41	
For >160 To 320 Hours Usage Per Month, Add			25.63	
01 22 23 00-0601	WK	3.6 KW, 8 HP Gas Powered Generator Set	184.78	
For LP Or NG Gas, Add			23.10	
01 22 23 00-0602	MO	3.6 KW, 8 HP Gas Powered Generator Set	512.60	
For LP Or NG Gas, Add			64.08	
01 22 23 00-0603	DAY	5 KW, 11 HP Gas Powered Generator Set	72.72	
For LP Or NG Gas, Add			9.09	
01 22 23 00-0604	WK	5 KW, 11 HP Gas Powered Generator Set	232.46	
For LP Or NG Gas, Add			29.06	
01 22 23 00-0605	MO	5 KW, 11 HP Gas Powered Generator Set	530.48	
For LP Or NG Gas, Add			66.31	
01 22 23 00-0606	DAY	6.5 KW, 13 HP Gas Powered Generator Set	92.98	
For LP Or NG Gas, Add			11.62	
01 22 23 00-0607	WK	6.5 KW, 13 HP Gas Powered Generator Set	250.34	
For LP Or NG Gas, Add			31.29	
01 22 23 00-0608	MO	6.5 KW, 13 HP Gas Powered Generator Set	691.42	
For LP Or NG Gas, Add			86.43	
01 22 23 00-0609	DAY	10 KW, 18 HP Gas Powered Generator Set	103.71	
For LP Or NG Gas, Add			12.96	
01 22 23 00-0610	WK	10 KW, 18 HP Gas Powered Generator Set	280.14	
For LP Or NG Gas, Add			35.02	
01 22 23 00-0611	MO	10 KW, 18 HP Gas Powered Generator Set	804.67	
For LP Or NG Gas, Add			100.58	
01 22 23 00-0612	Towable, Diesel Powered Generator Sets (01 22 23 00-0598)			
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0706 for reimbursable fuel fees.				
01 22 23 00-0613	DAY	20 KW, 60 Hertz Towable Diesel Powered Generator Set	213.39	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.				
For >8 To 16 Hours Usage Per Day, Add			106.70	
For >16 To 24 Hours Usage Per Day, Add			213.39	
01 22 23 00-0614	WK	20 KW, 60 Hertz Towable Diesel Powered Generator Set	557.90	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.				
For >40 To 80 Hours Usage Per Week, Add			278.95	
For >80 Hours Usage Per Week, Add			557.90	
01 22 23 00-0615	MO	20 KW, 60 Hertz Towable Diesel Powered Generator Set	1,519.93	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.				
For >160 To 320 Hours Usage Per Month, Add			759.97	
For >320 Hours Usage Per Month, Add			1,519.93	

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01 22 23 00-0616	DAY		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	316.20	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	158.10	
			For >16 To 24 Hours Usage Per Day, Add	316.20	
01 22 23 00-0617	WK		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	938.40	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	469.20	
			For >80 Hours Usage Per Week, Add	938.40	
01 22 23 00-0618	MO		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,938.00	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	969.00	
			For >320 Hours Usage Per Month, Add	1,938.00	
01 22 23 00-0619	DAY		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	346.80	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	173.40	
			For >16 To 24 Hours Usage Per Day, Add	346.80	
01 22 23 00-0620	WK		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	969.00	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	484.50	
			For >80 Hours Usage Per Week, Add	969.00	
01 22 23 00-0621	MO		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,142.00	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,071.00	
			For >320 Hours Usage Per Month, Add	2,142.00	
01 22 23 00-0622	DAY		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	372.30	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	186.15	
			For >16 To 24 Hours Usage Per Day, Add	372.30	
01 22 23 00-0623	WK		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,020.00	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	510.00	
			For >80 Hours Usage Per Week, Add	1,020.00	
01 22 23 00-0624	MO		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,448.00	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,224.00	
			For >320 Hours Usage Per Month, Add	2,448.00	
01 22 23 00-0625	DAY		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	408.00	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	204.00	
			For >16 To 24 Hours Usage Per Day, Add	408.00	
01 22 23 00-0626	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,157.70	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	578.85	
			For >80 Hours Usage Per Week, Add	1,157.70	
01 22 23 00-0627	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,754.00	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,377.00	
			For >320 Hours Usage Per Month, Add	2,754.00	
01 22 23 00-0628	DAY		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	459.00	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	229.50	
			For >16 To 24 Hours Usage Per Day, Add	459.00	
01 22 23 00-0629	WK		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,224.00	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	612.00	
			For >80 Hours Usage Per Week, Add	1,224.00	
01 22 23 00-0630	MO		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,060.00	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,530.00	
			For >320 Hours Usage Per Month, Add	3,060.00	
01 22 23 00-0631	DAY		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	474.30	
			Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	237.15	
			For >16 To 24 Hours Usage Per Day, Add	474.30	
01 22 23 00-0632	WK		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,275.00	
			Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	637.50	
			For >80 Hours Usage Per Week, Add	1,275.00	



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MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
01 22 23 00-0633	MO	100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,468.00		
		Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	1,734.00		
		For >320 Hours Usage Per Month, Add	3,468.00		
01 22 23 00-0634	DAY	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	535.50		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	267.75		
		For >16 To 24 Hours Usage Per Day, Add	535.50		
01 22 23 00-0635	WK	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,479.00		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	739.50		
		For >80 Hours Usage Per Week, Add	1,479.00		
01 22 23 00-0636	MO	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,978.00		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	1,989.00		
		For >320 Hours Usage Per Month, Add	3,978.00		
01 22 23 00-0637	DAY	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	561.00		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	280.50		
		For >16 To 24 Hours Usage Per Day, Add	561.00		
01 22 23 00-0638	WK	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,555.50		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	777.75		
		For >80 Hours Usage Per Week, Add	1,555.50		
01 22 23 00-0639	MO	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,386.00		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	2,193.00		
		For >320 Hours Usage Per Month, Add	4,386.00		
01 22 23 00-0640	DAY	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	586.50		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	293.25		
		For >16 To 24 Hours Usage Per Day, Add	586.50		
01 22 23 00-0641	WK	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,683.00		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	841.50		
		For >80 Hours Usage Per Week, Add	1,683.00		
01 22 23 00-0642	MO	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,590.00		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	2,295.00		
		For >320 Hours Usage Per Month, Add	4,590.00		
01 22 23 00-0643	DAY	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	612.00		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	306.00		
		For >16 To 24 Hours Usage Per Day, Add	612.00		
01 22 23 00-0644	WK	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.00		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	892.50		
		For >80 Hours Usage Per Week, Add	1,785.00		
01 22 23 00-0645	MO	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,794.00		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	2,397.00		
		For >320 Hours Usage Per Month, Add	4,794.00		
01 22 23 00-0646	DAY	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	612.00		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	306.00		
		For >16 To 24 Hours Usage Per Day, Add	612.00		
01 22 23 00-0647	WK	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.00		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	892.50		
		For >80 Hours Usage Per Week, Add	1,785.00		
01 22 23 00-0648	MO	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,794.00		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	2,397.00		
		For >320 Hours Usage Per Month, Add	4,794.00		
01 22 23 00-0649	DAY	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	841.50		
		Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	420.75		
		For >16 To 24 Hours Usage Per Day, Add	841.50		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0650	WK		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,091.00 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 1,045.50 For >80 Hours Usage Per Week, Add 2,091.00		
01 22 23 00-0651	MO		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,120.00 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 3,060.00 For >320 Hours Usage Per Month, Add 6,120.00		
01 22 23 00-0652	DAY		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....892.50 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 446.25 For >16 To 24 Hours Usage Per Day, Add 892.50		
01 22 23 00-0653	WK		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,142.00 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 1,071.00 For >80 Hours Usage Per Week, Add 2,142.00		
01 22 23 00-0654	MO		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,324.00 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 3,162.00 For >320 Hours Usage Per Month, Add 6,324.00		
01 22 23 00-0655	DAY		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....943.50 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 471.75 For >16 To 24 Hours Usage Per Day, Add 943.50		
01 22 23 00-0656	WK		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,193.00 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 1,096.50 For >80 Hours Usage Per Week, Add 2,193.00		
01 22 23 00-0657	MO		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,528.00 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 3,264.00 For >320 Hours Usage Per Month, Add 6,528.00		
01 22 23 00-0658	DAY		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....974.10 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 487.05 For >16 To 24 Hours Usage Per Day, Add 974.10		
01 22 23 00-0659	WK		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,346.00 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 1,173.00 For >80 Hours Usage Per Week, Add 2,346.00		
01 22 23 00-0660	MO		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,936.00 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 3,468.00 For >320 Hours Usage Per Month, Add 6,936.00		
01 22 23 00-0661	DAY		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,020.00 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 510.00 For >16 To 24 Hours Usage Per Day, Add 1,020.00		
01 22 23 00-0662	WK		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,652.00 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 1,326.00 For >80 Hours Usage Per Week, Add 2,652.00		
01 22 23 00-0663	MO		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....7,650.00 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 3,825.00 For >320 Hours Usage Per Month, Add 7,650.00		
01 22 23 00-0664	DAY		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,639.87 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 819.94 For >16 To 24 Hours Usage Per Day, Add 1,639.87		
01 22 23 00-0665	WK		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....4,239.84 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 2,119.92 For >80 Hours Usage Per Week, Add 4,239.84		
01 22 23 00-0666	MO		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....11,212.80 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 5,606.40 For >320 Hours Usage Per Month, Add 11,212.80		



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MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
01 22 23 00-0667	DAY	500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,102.40		
		Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	1,051.20		
		For >16 To 24 Hours Usage Per Day, Add	2,102.40		
01 22 23 00-0668	WK	500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	5,466.24		
		Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	2,733.12		
		For >80 Hours Usage Per Week, Add	5,466.24		
01 22 23 00-0669	MO	500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	12,614.40		
		Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	6,307.20		
		For >320 Hours Usage Per Month, Add	12,614.40		
01 22 23 00-0670	DAY	640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,599.97		
		Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	1,299.99		
		For >16 To 24 Hours Usage Per Day, Add	2,599.97		
01 22 23 00-0671	WK	640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,867.84		
		Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	3,433.92		
		For >80 Hours Usage Per Week, Add	6,867.84		
01 22 23 00-0672	MO	640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,819.20		
		Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	8,409.60		
		For >320 Hours Usage Per Month, Add	16,819.20		
01 22 23 00-0673	DAY	750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,810.21		
		Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	1,405.11		
		For >16 To 24 Hours Usage Per Day, Add	2,810.21		
01 22 23 00-0674	WK	750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,475.39		
		Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	3,237.70		
		For >80 Hours Usage Per Week, Add	6,475.39		
01 22 23 00-0675	MO	750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	19,426.18		
		Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	9,713.09		
		For >320 Hours Usage Per Month, Add	19,426.18		
01 22 23 00-0676	EA	Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	821.46		
01 22 23 00-0677	EA	350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up	1,336.92		
01 22 23 00-0678	Cabling For Generator Sets (01 22 23 00-0598) Note: Includes delivery to job site and pick-up when complete.				
01 22 23 00-0679	DAY	#1 Banded Cable, 50' With Camlock Ends For Generator Set	22.44		
01 22 23 00-0680	WK	#1 Banded Cable, 50' With Camlock Ends For Generator Set	39.27		
01 22 23 00-0681	MO	#1 Banded Cable, 50' With Camlock Ends For Generator Set	117.81		
01 22 23 00-0682	DAY	50', 4/0 Cable With Camlock Ends For Generator Set.....	11.22		
01 22 23 00-0683	WK	50', 4/0 Cable With Camlock Ends For Generator Set.....	32.64		
01 22 23 00-0684	MO	50', 4/0 Cable With Camlock Ends For Generator Set.....	90.78		
01 22 23 00-0685	Resistive Loadbanks For Generator Sets (01 22 23 00-0598) Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0706 for reimbursable fuel fees.				
01 22 23 00-0686	DAY	100 KW A/C Resistive Loadbank.....	291.16		
01 22 23 00-0687	WK	100 KW A/C Resistive Loadbank.....	553.77		
01 22 23 00-0688	MO	100 KW A/C Resistive Loadbank.....	1,512.88		
01 22 23 00-0689	DAY	650 KW A/C Resistive Loadbank.....	689.82		
01 22 23 00-0690	WK	650 KW A/C Resistive Loadbank.....	1,844.74		
01 22 23 00-0691	MO	650 KW A/C Resistive Loadbank.....	4,703.29		
01 22 23 00-0692	Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0598) Note: Includes delivery to job site and pick-up when complete.				
01 22 23 00-0693	DAY	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	55.08		
01 22 23 00-0694	WK	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	142.80		
01 22 23 00-0695	MO	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	402.90		
01 22 23 00-0696	Portable Distribution Panels For Generator Sets (01 22 23 00-0598) Note: Includes delivery to job site and pick-up when complete.				
01 22 23 00-0697	DAY	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	122.40		
01 22 23 00-0698	WK	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	331.50		
01 22 23 00-0699	MO	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	928.20		
01 22 23 00-0700	DAY	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	99.96		
01 22 23 00-0701	WK	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	260.10		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0702 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	739.50	
01 22 23 00-0703 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	127.50	
01 22 23 00-0704 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	321.30	
01 22 23 00-0705 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	872.10	
01 22 23 00-0706 Fuel Reimbursement For Generators (01 22 23 00-0598)		
01 22 23 00-0707 EA Fuel Reimbursement For Generators	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0708 General Equipment (01 22 23)		
01 22 23 00-0709 Jacks And Bracing (01 22 23 00-0708)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0710 Manual Hydraulic Jacks (01 22 23 00-0709)		
01 22 23 00-0711 DAY 12 Ton Manual Hydraulic Bottle Jack	1.67	
01 22 23 00-0712 WK 12 Ton Manual Hydraulic Bottle Jack	7.93	
01 22 23 00-0713 MO 12 Ton Manual Hydraulic Bottle Jack	28.50	
01 22 23 00-0714 DAY 20 Ton Manual Hydraulic Bottle Jack	2.92	
01 22 23 00-0715 WK 20 Ton Manual Hydraulic Bottle Jack	9.18	
01 22 23 00-0716 MO 20 Ton Manual Hydraulic Bottle Jack	34.76	
01 22 23 00-0717 DAY 50 Ton Manual Hydraulic Bottle Jack	10.43	
01 22 23 00-0718 WK 50 Ton Manual Hydraulic Bottle Jack	40.49	
01 22 23 00-0719 MO 50 Ton Manual Hydraulic Bottle Jack	145.66	
01 22 23 00-0720 DAY 100 Ton Manual Hydraulic Bottle Jack	14.61	
01 22 23 00-0721 WK 100 Ton Manual Hydraulic Bottle Jack	58.43	
01 22 23 00-0722 MO 100 Ton Manual Hydraulic Bottle Jack	210.46	
01 22 23 00-0723 Manual Screw Jacks (01 22 23 00-0709)		
01 22 23 00-0724 DAY 10 To 20 Ton Manual Screw Jack	22.15	
01 22 23 00-0725 WK 10 To 20 Ton Manual Screw Jack	59.64	
01 22 23 00-0726 MO 10 To 20 Ton Manual Screw Jack	165.30	
01 22 23 00-0727 Pressure Washers (01 22 23 00-0708)		
Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0728 DAY 2,000 PSI Pressure Washer With Full-Time Operator	796.35	
For Equipment Without Operator, Deduct	-626.12	
01 22 23 00-0729 WK 2,000 PSI Pressure Washer With Full-Time Operator	3,562.71	
For Equipment Without Operator, Deduct	-3,130.59	
01 22 23 00-0730 MO 2,000 PSI Pressure Washer With Full-Time Operator	14,665.84	
For Equipment Without Operator, Deduct	-13,565.90	
01 22 23 00-0731 DAY 2,500 PSI Pressure Washer With Full-Time Operator	749.28	
For Equipment Without Operator, Deduct	-626.12	
01 22 23 00-0732 WK 2,500 PSI Pressure Washer With Full-Time Operator	3,443.22	
For Equipment Without Operator, Deduct	-3,130.59	
01 22 23 00-0733 MO 2,500 PSI Pressure Washer With Full-Time Operator	14,361.67	
For Equipment Without Operator, Deduct	-13,565.90	
01 22 23 00-0734 DAY 3,000 PSI Pressure Washer With Full-Time Operator	796.35	
For Equipment Without Operator, Deduct	-626.12	
01 22 23 00-0735 WK 3,000 PSI Pressure Washer With Full-Time Operator	3,562.71	
For Equipment Without Operator, Deduct	-3,130.59	
01 22 23 00-0736 MO 3,000 PSI Pressure Washer With Full-Time Operator	14,665.84	
For Equipment Without Operator, Deduct	-13,565.90	
01 22 23 00-0737 DAY 3,500 PSI Pressure Washer With Full-Time Operator	758.75	
For Equipment Without Operator, Deduct	-626.12	
01 22 23 00-0738 WK 3,500 PSI Pressure Washer With Full-Time Operator	3,471.64	
For Equipment Without Operator, Deduct	-3,130.59	
01 22 23 00-0739 MO 3,500 PSI Pressure Washer With Full-Time Operator	14,437.46	
For Equipment Without Operator, Deduct	-13,565.90	
01 22 23 00-0740 DAY 4,000 PSI Pressure Washer With Full-Time Operator	861.82	
For Equipment Without Operator, Deduct	-626.12	
01 22 23 00-0741 WK 4,000 PSI Pressure Washer With Full-Time Operator	3,772.22	
For Equipment Without Operator, Deduct	-3,130.59	
01 22 23 00-0742 MO 4,000 PSI Pressure Washer With Full-Time Operator	15,359.85	
For Equipment Without Operator, Deduct	-13,565.90	
01 22 23 00-0743 DAY 5,000 PSI Pressure Washer With Full-Time Operator	815.59	
For Equipment Without Operator, Deduct	-626.12	
01 22 23 00-0744 WK 5,000 PSI Pressure Washer With Full-Time Operator	3,642.16	
For Equipment Without Operator, Deduct	-3,130.59	
01 22 23 00-0745 MO 5,000 PSI Pressure Washer With Full-Time Operator	15,005.87	
For Equipment Without Operator, Deduct	-13,565.90	
01 22 23 00-0746 Confined Space Entry Equipment (01 22 23 00-0708)		
Note: Includes delivery to job site, set-up, and pick-up when complete.		



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01 22 23 00-0747	DAY		Ventilation Equipment For Confined Space.....	47.47	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0748	WK		Ventilation Equipment For Confined Space.....	142.42	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0749	MO		Ventilation Equipment For Confined Space.....	424.99	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0750	DAY		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly.....	51.82	
01 22 23 00-0751	WK		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly.....	155.47	
01 22 23 00-0752	MO		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly.....	466.41	
01 22 23 00-0753	DAY		Confined Space Air Monitor Personnel.....	762.54	
			Note: Per person day.		
01 22 23 00-0754 Mowers (01 22 23 00-0708)					
			Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0755	DAY		21" Walk Behind Lawn Mower.....	75.79	
01 22 23 00-0756	WK		21" Walk Behind Lawn Mower.....	217.89	
01 22 23 00-0757	MO		21" Walk Behind Lawn Mower.....	445.25	
01 22 23 00-0758	DAY		32" Walk Behind Lawn Mower.....	94.74	
01 22 23 00-0759	WK		32" Walk Behind Lawn Mower.....	227.36	
01 22 23 00-0760	MO		32" Walk Behind Lawn Mower.....	473.68	
01 22 23 00-0761	DAY		36" To 48" Walk Behind Deck Mower.....	170.52	
01 22 23 00-0762	WK		36" To 48" Walk Behind Deck Mower.....	473.68	
01 22 23 00-0763	MO		36" To 48" Walk Behind Deck Mower.....	1,373.66	
01 22 23 00-0764	DAY		61" To 72" Walk Behind Deck Mower.....	170.52	
01 22 23 00-0765	WK		61" To 72" Walk Behind Deck Mower.....	473.68	
01 22 23 00-0766	MO		61" To 72" Walk Behind Deck Mower.....	1,373.66	
01 22 23 00-0767 Material Handling Equipment (01 22 23)					
01 22 23 00-0768 Truck Mounted Hydraulic Cranes (01 22 23 00-0767)					
			Note: Includes full-time operator, delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0769	DAY		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,244.81	
			For Equipment Without Operator, Deduct.....	-826.92	
01 22 23 00-0770	WK		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	5,400.59	
			For Equipment Without Operator, Deduct.....	-4,134.62	
01 22 23 00-0771	MO		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	21,726.90	
			For Equipment Without Operator, Deduct.....	-17,916.69	
01 22 23 00-0772	DAY		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,355.43	
			For Equipment Without Operator, Deduct.....	-826.92	
01 22 23 00-0773	WK		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	5,729.38	
			For Equipment Without Operator, Deduct.....	-4,134.62	
01 22 23 00-0774	MO		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	22,710.18	
			For Equipment Without Operator, Deduct.....	-17,916.69	
01 22 23 00-0775	DAY		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,466.05	
			For Equipment Without Operator, Deduct.....	-826.92	
01 22 23 00-0776	WK		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	6,058.16	
			For Equipment Without Operator, Deduct.....	-4,134.62	
01 22 23 00-0777	MO		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	23,693.46	
			For Equipment Without Operator, Deduct.....	-17,916.69	
01 22 23 00-0778	DAY		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,613.54	
			For Equipment Without Operator, Deduct.....	-826.92	
01 22 23 00-0779	WK		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	6,500.64	
			For Equipment Without Operator, Deduct.....	-4,134.62	
01 22 23 00-0780	MO		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	25,014.74	
			For Equipment Without Operator, Deduct.....	-17,916.69	
01 22 23 00-0781	DAY		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,748.74	
			For Equipment Without Operator, Deduct.....	-826.92	
01 22 23 00-0782	WK		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	7,416.32	
			For Equipment Without Operator, Deduct.....	-4,134.62	
01 22 23 00-0783	MO		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	27,759.32	
			For Equipment Without Operator, Deduct.....	-17,916.69	
01 22 23 00-0784	DAY		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	2,068.31	
			For Equipment Without Operator, Deduct.....	-826.92	
01 22 23 00-0785	WK		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	8,559.38	
			For Equipment Without Operator, Deduct.....	-4,134.62	
01 22 23 00-0786	MO		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	31,190.97	
			For Equipment Without Operator, Deduct.....	-17,916.69	
01 22 23 00-0787	DAY		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	2,271.11	
			For Equipment Without Operator, Deduct.....	-826.92	
01 22 23 00-0788	WK		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	9,272.26	
			For Equipment Without Operator, Deduct.....	-4,134.62	
01 22 23 00-0789	MO		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	33,334.52	
			For Equipment Without Operator, Deduct.....	-17,916.69	
01 22 23 00-0790	DAY		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	2,430.90	
			For Equipment Without Operator, Deduct.....	-826.92	
01 22 23 00-0791	WK		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	9,849.94	
			For Equipment Without Operator, Deduct.....	-4,134.62	
01 22 23 00-0792	MO		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	35,065.09	
			For Equipment Without Operator, Deduct.....	-17,916.69	
01 22 23 00-0793	DAY		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	2,590.68	
			For Equipment Without Operator, Deduct.....	-826.92	

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01 22 23 00-0794 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,427.61 -4,134.62	
01 22 23 00-0795 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	36,795.67 -17,916.69	
01 22 23 00-0796 DAY 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,695.15 -826.92	
01 22 23 00-0797 WK 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,784.05 -4,134.62	
01 22 23 00-0798 MO 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	37,877.27 -17,916.69	
01 22 23 00-0799 DAY 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,836.50 -826.92	
01 22 23 00-0800 WK 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,312.56 -4,134.62	
01 22 23 00-0801 MO 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,450.52 -17,916.69	
01 22 23 00-0802 DAY 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,291.27 -826.92 -985.74	
01 22 23 00-0803 WK 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,759.83 -4,134.62	
01 22 23 00-0804 MO 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	43,792.32 -17,916.69	
01 22 23 00-0805 DAY 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,604.69 -826.92 -1,111.11	
01 22 23 00-0806 WK 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,856.80 -4,134.62	
01 22 23 00-0807 MO 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	47,083.23 -17,916.69	
01 22 23 00-0808 DAY 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,170.07 -826.92 -1,337.26	
01 22 23 00-0809 WK 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,835.65 -4,134.62	
01 22 23 00-0810 MO 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	53,019.79 -17,916.69	
01 22 23 00-0811 DAY 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,563.38 -826.92 -1,494.58	
01 22 23 00-0812 WK 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,212.24 -4,134.62	
01 22 23 00-0813 MO 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	57,149.56 -17,916.69	
01 22 23 00-0814 Cable Controlled Lattice Boom, Mechanical Cranes (01 22 23 00-0767)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.		
01 22 23 00-0815 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,301.84 -826.92	
01 22 23 00-0816 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,395.17 -4,134.62	
01 22 23 00-0817 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,698.33 -17,916.69	
01 22 23 00-0818 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,438.76 -826.92	
01 22 23 00-0819 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,287.98 -4,134.62	
01 22 23 00-0820 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,376.78 -17,916.69	
01 22 23 00-0821 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,623.12 -826.92	
01 22 23 00-0822 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,633.85 -4,134.62	
01 22 23 00-0823 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	43,413.14 -17,916.69	
01 22 23 00-0824 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,991.85 -826.92	
01 22 23 00-0825 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,979.71 -4,134.62	
01 22 23 00-0826 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	47,444.59 -17,916.69	
01 22 23 00-0827 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,167.00 -826.92	
01 22 23 00-0828 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,325.58 -4,134.62	
01 22 23 00-0829 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	51,485.87 -17,916.69	



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01 22 23 00-0830 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	4,342.15 -826.92	
01 22 23 00-0831 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	16,671.44 -4,134.62	
01 22 23 00-0832 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	55,527.15 -17,916.69	
01 22 23 00-0833 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	4,919.82 -826.92	
01 22 23 00-0834 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	18,742.47 -4,134.62	
01 22 23 00-0835 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	61,731.65 -17,916.69	
01 22 23 00-0836 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	8,471.92 -826.92	
01 22 23 00-0837 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	31,402.20 -4,134.62	
01 22 23 00-0838 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	99,725.59 -17,916.69	
01 22 23 00-0839 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0767)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0840 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	1,351.81 -762.54	
01 22 23 00-0841 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	5,254.85 -3,812.70	
01 22 23 00-0842 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	19,623.12 -16,521.72	
01 22 23 00-0843 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	1,413.83 -762.54	
01 22 23 00-0844 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	5,394.41 -3,812.70	
01 22 23 00-0845 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	19,933.26 -16,521.72	
01 22 23 00-0846 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	1,398.33 -762.54	
01 22 23 00-0847 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	5,464.20 -3,812.70	
01 22 23 00-0848 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	20,398.47 -16,521.72	
01 22 23 00-0849 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	1,576.66 -762.54	
01 22 23 00-0850 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	5,929.41 -3,812.70	
01 22 23 00-0851 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct	21,483.96 -16,521.72	
01 22 23 00-0852 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0767)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0853 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	1,145.56 -762.54 76.60	
01 22 23 00-0854 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	4,858.65 -3,812.70 209.19	
01 22 23 00-0855 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	18,915.61 -16,521.72 478.78	
01 22 23 00-0856 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	1,165.72 -762.54 80.64	
01 22 23 00-0857 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	4,913.70 -3,812.70 220.20	
01 22 23 00-0858 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	19,041.61 -16,521.72 503.98	
01 22 23 00-0859 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	1,274.27 -762.54 102.35	
01 22 23 00-0860 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	5,216.08 -3,812.70 280.68	
01 22 23 00-0861 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	19,739.42 -16,521.72 643.54	
01 22 23 00-0862 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	1,334.05 -762.54 114.30	
01 22 23 00-0863 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	5,190.19 -3,812.70 275.50	

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01 22 23 00-0864 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	19,950.78	
For Equipment Without Operator, Deduct	-16,521.72	
For Propane Instead Of Gas Or Diesel, Add	685.81	
01 22 23 00-0865 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0767)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0866 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,088.19	
For Equipment Without Operator, Deduct	-762.54	
For Propane Instead Of Gas Or Diesel, Add	65.13	
01 22 23 00-0867 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,557.04	
For Equipment Without Operator, Deduct	-3,812.70	
For Propane Instead Of Gas Or Diesel, Add	148.87	
01 22 23 00-0868 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	18,305.02	
For Equipment Without Operator, Deduct	-16,521.72	
For Propane Instead Of Gas Or Diesel, Add	356.66	
01 22 23 00-0869 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,095.94	
For Equipment Without Operator, Deduct	-762.54	
For Propane Instead Of Gas Or Diesel, Add	66.68	
01 22 23 00-0870 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,580.30	
For Equipment Without Operator, Deduct	-3,812.70	
For Propane Instead Of Gas Or Diesel, Add	153.52	
01 22 23 00-0871 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	18,359.30	
For Equipment Without Operator, Deduct	-16,521.72	
For Propane Instead Of Gas Or Diesel, Add	367.52	
01 22 23 00-0872 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,258.76	
For Equipment Without Operator, Deduct	-762.54	
For Propane Instead Of Gas Or Diesel, Add	99.24	
01 22 23 00-0873 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,936.96	
For Equipment Without Operator, Deduct	-3,812.70	
For Propane Instead Of Gas Or Diesel, Add	224.85	
01 22 23 00-0874 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	19,235.44	
For Equipment Without Operator, Deduct	-16,521.72	
For Propane Instead Of Gas Or Diesel, Add	542.74	
01 22 23 00-0875 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,274.27	
For Equipment Without Operator, Deduct	-762.54	
For Propane Instead Of Gas Or Diesel, Add	102.35	
01 22 23 00-0876 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,068.77	
For Equipment Without Operator, Deduct	-3,812.70	
For Propane Instead Of Gas Or Diesel, Add	251.21	
01 22 23 00-0877 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	19,700.66	
For Equipment Without Operator, Deduct	-16,521.72	
For Propane Instead Of Gas Or Diesel, Add	635.79	
01 22 23 00-0878 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,413.83	
For Equipment Without Operator, Deduct	-762.54	
For Propane Instead Of Gas Or Diesel, Add	130.26	
01 22 23 00-0879 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,293.62	
For Equipment Without Operator, Deduct	-3,812.70	
For Propane Instead Of Gas Or Diesel, Add	296.18	
01 22 23 00-0880 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	20,088.33	
For Equipment Without Operator, Deduct	-16,521.72	
For Propane Instead Of Gas Or Diesel, Add	713.32	
01 22 23 00-0881 Chain Hoists (01 22 23 00-0767)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0882 DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	12.52	
01 22 23 00-0883 WK 1 Ton, 20' Lift, Manual Chain Hoist.....	32.55	
01 22 23 00-0884 MO 1 Ton, 20' Lift, Manual Chain Hoist.....	96.40	
01 22 23 00-0885 DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	35.06	
01 22 23 00-0886 WK 3 Ton, 20' Lift, Manual Chain Hoist.....	82.63	
01 22 23 00-0887 MO 3 Ton, 20' Lift, Manual Chain Hoist.....	231.62	
01 22 23 00-0888 DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.07	
01 22 23 00-0889 WK 5 Ton, 20' Lift, Manual Chain Hoist.....	121.44	
01 22 23 00-0890 MO 5 Ton, 20' Lift, Manual Chain Hoist.....	338.04	
01 22 23 00-0891 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	88.89	
01 22 23 00-0892 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	231.62	
01 22 23 00-0893 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	626.00	
01 22 23 00-0894 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	90.14	
01 22 23 00-0895 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	241.01	
01 22 23 00-0896 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	657.30	
01 22 23 00-0897 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	92.65	
01 22 23 00-0898 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	259.79	
01 22 23 00-0899 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	719.90	
01 22 23 00-0900 Roof Swing Hoist (01 22 23 00-0767)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0901 DAY Up To 400#, Manual Swing Roof Hoist.....	81.02	
01 22 23 00-0902 WK Up To 400#, Manual Swing Roof Hoist.....	283.55	
01 22 23 00-0903 MO Up To 400#, Manual Swing Roof Hoist.....	972.18	
01 22 23 00-0904 Pumping Equipment (01 22 23)		



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0905	Gas Powered Portable Centrifugal Pumps (01 22 23 00-0904) Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0929 for larger diameter pumps.		
01 22 23 00-0906	DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	66.07	
01 22 23 00-0907	WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	148.65	
01 22 23 00-0908	MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	396.41	
01 22 23 00-0909	DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	79.28	
01 22 23 00-0910	WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	178.38	
01 22 23 00-0911	MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	475.69	
01 22 23 00-0912	Gas Powered Portable Diaphragm Pumps (01 22 23 00-0904) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0913	DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	75.98	
01 22 23 00-0914	WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	214.72	
01 22 23 00-0915	MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	545.06	
01 22 23 00-0916	DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	92.50	
01 22 23 00-0917	WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	247.76	
01 22 23 00-0918	MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	701.97	
01 22 23 00-0919	Gas Powered Portable Trash Pumps (01 22 23 00-0904) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0920	DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	95.80	
01 22 23 00-0921	WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	198.20	
01 22 23 00-0922	MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	594.61	
01 22 23 00-0923	DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	95.80	
01 22 23 00-0924	WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	256.01	
01 22 23 00-0925	MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	701.97	
01 22 23 00-0926	DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	151.96	
01 22 23 00-0927	WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	429.44	
01 22 23 00-0928	MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	1,247.03	
01 22 23 00-0929	Diesel Powered Portable Trash Pumps (01 22 23 00-0904) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0930	DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	297.31	
01 22 23 00-0931	WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	809.33	
01 22 23 00-0932	MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,526.38	
01 22 23 00-0933	DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	454.22	
01 22 23 00-0934	WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,189.22	
01 22 23 00-0935	MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,163.01	
01 22 23 00-0936	DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	617.74	
01 22 23 00-0937	WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,653.35	
01 22 23 00-0938	MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,423.25	
01 22 23 00-0939	DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	799.42	
01 22 23 00-0940	WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,041.50	
01 22 23 00-0941	MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	5,995.67	
01 22 23 00-0942	Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0904) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0943	DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	424.49	
01 22 23 00-0944	WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	966.24	
01 22 23 00-0945	MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,012.70	
01 22 23 00-0946	DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	520.29	
01 22 23 00-0947	WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,296.58	
01 22 23 00-0948	MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,526.38	
01 22 23 00-0949	DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	627.65	
01 22 23 00-0950	WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,856.51	
01 22 23 00-0951	MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,178.08	
01 22 23 00-0952	DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	944.77	
01 22 23 00-0953	WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,413.13	
01 22 23 00-0954	MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	7,085.79	
01 22 23 00-0955	3 Phase Electric Submersible Pumps (01 22 23 00-0904) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0956	DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	165.17	
01 22 23 00-0957	WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	412.92	
01 22 23 00-0958	MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,238.78	
01 22 23 00-0959	DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	218.02	
01 22 23 00-0960	WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	545.06	
01 22 23 00-0961	MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,635.18	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0962 Suction Hose With Couplings (01 22 23 00-0904) Note: Includes delivery, set-up, and removal.		
01 22 23 00-0963 DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	6.00	
01 22 23 00-0964 WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	15.00	
01 22 23 00-0965 MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	46.00	
01 22 23 00-0966 DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	16.00	
01 22 23 00-0967 WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	41.00	
01 22 23 00-0968 MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	125.00	
01 22 23 00-0969 DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	24.00	
01 22 23 00-0970 WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	61.00	
01 22 23 00-0971 MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	185.00	
01 22 23 00-0972 DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	30.00	
01 22 23 00-0973 WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	75.00	
01 22 23 00-0974 MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	220.00	
01 22 23 00-0975 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	70.00	
01 22 23 00-0976 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	180.00	
01 22 23 00-0977 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	530.00	
01 22 23 00-0978 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	94.00	
01 22 23 00-0979 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	205.00	
01 22 23 00-0980 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	615.00	
01 22 23 00-0981 Discharge Hose With Couplings (01 22 23 00-0904) Note: Includes delivery, set-up, and removal.		
01 22 23 00-0982 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	6.00	
01 22 23 00-0983 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	15.00	
01 22 23 00-0984 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	46.00	
01 22 23 00-0985 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	7.00	
01 22 23 00-0986 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	17.00	
01 22 23 00-0987 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	53.00	
01 22 23 00-0988 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	8.00	
01 22 23 00-0989 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	20.00	
01 22 23 00-0990 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	61.00	
01 22 23 00-0991 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	21.00	
01 22 23 00-0992 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	54.00	
01 22 23 00-0993 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	155.00	
01 22 23 00-0994 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	26.00	
01 22 23 00-0995 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	71.00	
01 22 23 00-0996 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	195.00	
01 22 23 00-0997 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	20.00	
01 22 23 00-0998 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	50.00	
01 22 23 00-0999 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	150.00	
01 22 23 00-1000 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	51.00	
01 22 23 00-1001 WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	130.00	
01 22 23 00-1002 MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	385.00	
01 22 23 00-1003 Hydraulic Submersible Pumps (01 22 23 00-0904) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1004 Hydraulic Submersible Pumps (01 22 23 00-1003) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1005 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	109.01	
01 22 23 00-1006 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	292.35	
01 22 23 00-1007 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	817.59	
01 22 23 00-1008 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	138.74	
01 22 23 00-1009 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	356.77	
01 22 23 00-1010 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	1,090.12	
01 22 23 00-1011 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1003) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1012 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	251.88	
01 22 23 00-1013 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	751.52	
01 22 23 00-1014 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	1,982.04	
01 22 23 00-1015 HDPE Pipe With Couplings (01 22 23 00-0904) Note: Includes delivery, set-up, and removal.		
01 22 23 00-1016 DAY 4" x 20' HDPE Pipe With Couplings.....	14.75	
01 22 23 00-1017 WK 4" x 20' HDPE Pipe With Couplings.....	35.40	
01 22 23 00-1018 MO 4" x 20' HDPE Pipe With Couplings.....	109.15	
01 22 23 00-1019 DAY 6" x 20' HDPE Pipe With Couplings.....	23.60	
01 22 23 00-1020 WK 6" x 20' HDPE Pipe With Couplings.....	59.00	
01 22 23 00-1021 MO 6" x 20' HDPE Pipe With Couplings.....	179.95	
01 22 23 00-1022 DAY 8" x 20' HDPE Pipe With Couplings.....	38.35	
01 22 23 00-1023 WK 8" x 20' HDPE Pipe With Couplings.....	100.30	
01 22 23 00-1024 MO 8" x 20' HDPE Pipe With Couplings.....	297.95	
01 22 23 00-1025 DAY 10" x 20' HDPE Pipe With Couplings.....	47.20	
01 22 23 00-1026 WK 10" x 20' HDPE Pipe With Couplings.....	120.95	
01 22 23 00-1027 MO 10" x 20' HDPE Pipe With Couplings.....	368.75	



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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
01 22 23 00-1028	DAY	12" x 10' HDPE Pipe With Couplings.....	35.40	
01 22 23 00-1029	WK	12" x 10' HDPE Pipe With Couplings.....	97.35	
01 22 23 00-1030	MO	12" x 10' HDPE Pipe With Couplings.....	295.00	
01 22 23 00-1031	DAY	4" Elbow For HDPE Pipe, Quick Connect.....	35.40	
01 22 23 00-1032	WK	4" Elbow For HDPE Pipe, Quick Connect.....	91.45	
01 22 23 00-1033	MO	4" Elbow For HDPE Pipe, Quick Connect.....	271.40	
01 22 23 00-1034	DAY	6" Elbow For HDPE Pipe, Quick Connect.....	41.30	
01 22 23 00-1035	WK	6" Elbow For HDPE Pipe, Quick Connect.....	106.20	
01 22 23 00-1036	MO	6" Elbow For HDPE Pipe, Quick Connect.....	324.50	
01 22 23 00-1037	DAY	8" Elbow For HDPE Pipe, Quick Connect.....	47.20	
01 22 23 00-1038	WK	8" Elbow For HDPE Pipe, Quick Connect.....	120.95	
01 22 23 00-1039	MO	8" Elbow For HDPE Pipe, Quick Connect.....	368.75	
01 22 23 00-1040	DAY	10" Elbow For HDPE Pipe, Quick Connect.....	59.00	
01 22 23 00-1041	WK	10" Elbow For HDPE Pipe, Quick Connect.....	150.45	
01 22 23 00-1042	MO	10" Elbow For HDPE Pipe, Quick Connect.....	457.25	
01 22 23 00-1043	DAY	12" Elbow For HDPE Pipe, Quick Connect.....	59.00	
01 22 23 00-1044	WK	12" Elbow For HDPE Pipe, Quick Connect.....	150.45	
01 22 23 00-1045	MO	12" Elbow For HDPE Pipe, Quick Connect.....	457.25	
01 22 23 00-1046	DAY	4" Tee For HDPE Pipe, Quick Connect.....	35.40	
01 22 23 00-1047	WK	4" Tee For HDPE Pipe, Quick Connect.....	91.45	
01 22 23 00-1048	MO	4" Tee For HDPE Pipe, Quick Connect.....	271.40	
01 22 23 00-1049	DAY	6" Tee For HDPE Pipe, Quick Connect.....	47.20	
01 22 23 00-1050	WK	6" Tee For HDPE Pipe, Quick Connect.....	120.95	
01 22 23 00-1051	MO	6" Tee For HDPE Pipe, Quick Connect.....	368.75	
01 22 23 00-1052	DAY	8" Tee For HDPE Pipe, Quick Connect.....	59.00	
01 22 23 00-1053	WK	8" Tee For HDPE Pipe, Quick Connect.....	150.45	
01 22 23 00-1054	MO	8" Tee For HDPE Pipe, Quick Connect.....	457.25	
01 22 23 00-1055	DAY	10" Tee For HDPE Pipe, Quick Connect.....	70.80	
01 22 23 00-1056	WK	10" Tee For HDPE Pipe, Quick Connect.....	179.95	
01 22 23 00-1057	MO	10" Tee For HDPE Pipe, Quick Connect.....	545.75	
01 22 23 00-1058	DAY	12" Tee For HDPE Pipe, Quick Connect.....	70.80	
01 22 23 00-1059	WK	12" Tee For HDPE Pipe, Quick Connect.....	179.95	
01 22 23 00-1060	MO	12" Tee For HDPE Pipe, Quick Connect.....	545.75	
01 22 23 00-1061	DAY	4" Cap For HDPE Pipe, Quick Connect.....	5.90	
01 22 23 00-1062	WK	4" Cap For HDPE Pipe, Quick Connect.....	17.70	
01 22 23 00-1063	MO	4" Cap For HDPE Pipe, Quick Connect.....	53.10	
01 22 23 00-1064	DAY	6" Cap For HDPE Pipe, Quick Connect.....	5.90	
01 22 23 00-1065	WK	6" Cap For HDPE Pipe, Quick Connect.....	17.70	
01 22 23 00-1066	MO	6" Cap For HDPE Pipe, Quick Connect.....	53.10	
01 22 23 00-1067	DAY	8" Cap For HDPE Pipe, Quick Connect.....	5.90	
01 22 23 00-1068	WK	8" Cap For HDPE Pipe, Quick Connect.....	17.70	
01 22 23 00-1069	MO	8" Cap For HDPE Pipe, Quick Connect.....	53.10	
01 22 23 00-1070	DAY	10" Cap For HDPE Pipe, Quick Connect.....	5.90	
01 22 23 00-1071	WK	10" Cap For HDPE Pipe, Quick Connect.....	17.70	
01 22 23 00-1072	MO	10" Cap For HDPE Pipe, Quick Connect.....	53.10	
01 22 23 00-1073	DAY	12" Cap For HDPE Pipe, Quick Connect.....	5.90	
01 22 23 00-1074	WK	12" Cap For HDPE Pipe, Quick Connect.....	17.70	
01 22 23 00-1075	MO	12" Cap For HDPE Pipe, Quick Connect.....	53.10	
01 22 23 00-1076	DAY	4" Wye For HDPE Pipe, Quick Connect.....	17.70	
01 22 23 00-1077	WK	4" Wye For HDPE Pipe, Quick Connect.....	44.25	
01 22 23 00-1078	MO	4" Wye For HDPE Pipe, Quick Connect.....	135.70	
01 22 23 00-1079	DAY	6" Wye For HDPE Pipe, Quick Connect.....	20.65	
01 22 23 00-1080	WK	6" Wye For HDPE Pipe, Quick Connect.....	53.10	
01 22 23 00-1081	MO	6" Wye For HDPE Pipe, Quick Connect.....	162.25	
01 22 23 00-1082	DAY	8" Wye For HDPE Pipe, Quick Connect.....	35.40	
01 22 23 00-1083	WK	8" Wye For HDPE Pipe, Quick Connect.....	91.45	
01 22 23 00-1084	MO	8" Wye For HDPE Pipe, Quick Connect.....	271.40	
01 22 23 00-1085	DAY	10" Wye For HDPE Pipe, Quick Connect.....	53.10	
01 22 23 00-1086	WK	10" Wye For HDPE Pipe, Quick Connect.....	135.70	
01 22 23 00-1087	MO	10" Wye For HDPE Pipe, Quick Connect.....	413.00	
01 22 23 00-1088	DAY	12" Wye For HDPE Pipe, Quick Connect.....	53.10	
01 22 23 00-1089	WK	12" Wye For HDPE Pipe, Quick Connect.....	135.70	
01 22 23 00-1090	MO	12" Wye For HDPE Pipe, Quick Connect.....	413.00	
01 22 23 00-1091		Truck And Trailer Equipment (01 22 23)		
01 22 23 00-1092		Trucks (01 22 23 00-1091) Note: Includes driver, delivery, and removal.		
01 22 23 00-1093		Flat Bed Trucks (01 22 23 00-1092) Note: Includes hydraulic tilt bed.		
01 22 23 00-1094	DAY	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	910.15	
		For Equipment Without Operator, Deduct	-659.68	
01 22 23 00-1095	WK	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,955.05	
		For Equipment Without Operator, Deduct	-3,298.41	
01 22 23 00-1096	MO	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	15,951.65	
		For Equipment Without Operator, Deduct	-14,293.12	
01 22 23 00-1097	DAY	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,018.46	
		For Equipment Without Operator, Deduct	-659.68	
01 22 23 00-1098	WK	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,232.60	
		For Equipment Without Operator, Deduct	-3,298.41	

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1099	MO	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	16,662.44 -14,293.12	
01 22 23 00-1100	DAY	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,096.18 -659.68	
01 22 23 00-1101	WK	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,529.65 -3,298.41	
01 22 23 00-1102	MO	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,792.95 -14,293.12	
01 22 23 00-1103 Light Duty Trucks (01 22 23 00-1092)				
01 22 23 00-1104	DAY	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	895.41 -652.83	
01 22 23 00-1105	WK	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,060.10 -3,264.15	
01 22 23 00-1106	MO	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	15,812.35 -14,144.64	
01 22 23 00-1107	DAY	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	940.89 -652.83	
01 22 23 00-1108	WK	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,196.55 -3,264.15	
01 22 23 00-1109	MO	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	16,115.57 -14,144.64	
01 22 23 00-1110 Rear Dump Trucks (01 22 23 00-1092)				
01 22 23 00-1111	DAY	2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	991.08 -659.68	
01 22 23 00-1112	WK	2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,173.74 -3,298.41	
01 22 23 00-1113	MO	2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	16,973.16 -14,293.12	
01 22 23 00-1114	DAY	4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,100.95 -659.68	
01 22 23 00-1115	WK	4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,514.15 -3,298.41	
01 22 23 00-1116	MO	4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,445.04 -14,293.12	
01 22 23 00-1117	DAY	6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,163.99 -659.68	
01 22 23 00-1118	WK	6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,649.23 -3,298.41	
01 22 23 00-1119	MO	6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,535.10 -14,293.12	
01 22 23 00-1120	DAY	13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,911.44 -659.68	
01 22 23 00-1121	WK	13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,189.18 -3,298.41	
01 22 23 00-1122	MO	13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	21,857.74 -14,293.12	
01 22 23 00-1123	DAY	18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,036.62 -659.68	
01 22 23 00-1124	WK	18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,478.25 -3,298.41	
01 22 23 00-1125	MO	18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	22,614.20 -14,293.12	
01 22 23 00-1126 Vacuum Trucks (01 22 23 00-1092)				
01 22 23 00-1127	DAY	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,902.44 -659.68	
01 22 23 00-1128	WK	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,041.10 -3,298.41	
01 22 23 00-1129	MO	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	25,337.47 -14,293.12	
01 22 23 00-1130 Water Trucks (01 22 23 00-1092)				
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-0981 for additional discharge hose, 01 22 23 00-1146 for water trailer.				
01 22 23 00-1131	DAY	2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,311.82 -659.68 11.72	
01 22 23 00-1132	WK	2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	5,015.71 -3,298.41 11.72	
01 22 23 00-1133	MO	2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	18,350.88 -14,293.12 11.72	
01 22 23 00-1134	DAY	3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,630.64 -659.68 11.72	



General Requirements			01
Price and Payment Procedures			01 20
Unit Prices			01 22

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
01 22 23 00-1135	WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct	5,972.18		
	For Each 1,000 Gallon Of Purchased Water, Add	-3,298.41		
		11.72		
01 22 23 00-1136	MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct	20,814.52		
	For Each 1,000 Gallon Of Purchased Water, Add	-14,293.12		
		11.72		
01 22 23 00-1137	Asphalt Distribution Trucks (01 22 23 00-1092)			
01 22 23 00-1138	DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,819.97		
		-659.68		
01 22 23 00-1139	WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	6,764.39		
		-3,298.41		
01 22 23 00-1140	MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	24,539.44		
		-14,293.12		
01 22 23 00-1141	Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board (01 22 23 00-1092)			
01 22 23 00-1142	DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,327.09		
		-652.83		
01 22 23 00-1143	WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	5,254.07		
		-3,264.15		
01 22 23 00-1144	MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	18,977.07		
		-14,144.64		
01 22 23 00-1145	Trailers (01 22 23 00-1091) Note: Includes delivery to job site and pick-up when complete.			
01 22 23 00-1146	Water Trailers With Pump (01 22 23 00-1145)			
01 22 23 00-1147	DAY 500 To 600 Gallon Water Trailer With Pump For Equipment Without Operator, Deduct	166.66		
01 22 23 00-1148	WK 500 To 600 Gallon Water Trailer With Pump For Equipment Without Operator, Deduct	427.51		
01 22 23 00-1149	MO 500 To 600 Gallon Water Trailer With Pump For Equipment Without Operator, Deduct	1,144.87		
01 22 23 00-1150	CALTRANS Equipment Rental Rates (01 22 23) Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act. (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog®)			
01 22 23 00-1151	EA CALTRANS Equipment Rental Rates, Reimbursable Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book_2020.pdf	1.00		
01 30	Administrative Requirements (01)			
01 31	Project Management and Coordination (01 30)			
01 31 33	Project Minimum Labor Costs (01 31)			
01 31 33 00-0001	Minimum Charge (01 31 33) Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.			
01 31 33 00-0002	EA Carpenter Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,051.39		
01 31 33 00-0003	EA Carpet, Linoleum Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,008.26		
01 31 33 00-0004	EA Cement Mason Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	716.46		
01 31 33 00-0005	EA Drywall Finisher Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	950.47		
01 31 33 00-0006	EA Drywall Installer Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,017.34		
01 31 33 00-0007	EA Electrician Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,251.41		
01 31 33 00-0008	EA Glazier Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	923.63		
01 31 33 00-0009	EA Insulator Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,071.13		

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 31 33 00-0010	EA		Laborer Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	651.12	
01 31 33 00-0011	EA		Landscape Maintenance Worker Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	776.12	
01 31 33 00-0012	EA		Ornamental Metal Worker Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	979.33	
01 31 33 00-0013	EA		Painter, Ordinary Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	795.12	
01 31 33 00-0014	EA		Plasterer Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	914.32	
01 31 33 00-0015	EA		Plumber Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,325.26	
01 31 33 00-0016	EA		Roofer, Tile/Slate Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	999.90	
01 31 33 00-0017	EA		Roofer, Composite Built-Up Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	999.90	
01 31 33 00-0018	EA		Sheet Metal Worker Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,215.38	
01 31 33 00-0019	EA		Sprinkler Installer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,269.14	
01 31 33 00-0020	EA		Tile Layer (Floor) Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	846.32	

01 40 Quality Requirements ⁽⁰¹⁾

01 45 Quality Control ^(01 40)

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

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

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

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

01 45 23 00-0003	EA	Plasticity Index Soils Test, ASTM D-4318, Field Soils Test.....	277.33
01 45 23 00-0004	EA	4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	393.62
01 45 23 00-0005	EA	6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	447.30
01 45 23 00-0006	EA	Resistance (R) Value Soils Test, CA 301, Field Soils Test.....	357.84
01 45 23 00-0007	EA	Soils Classification Test, ASTM D-2487, Field Soils Test.....	536.76
01 45 23 00-0008	SET	Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	1,073.16
01 45 23 00-0009	EA	Moisture Content, Field Soils Test.....	40.24
01 45 23 00-0010	EA	UBC Or Swell Test, Field Soils Test.....	140.98
01 45 23 00-0011	EA	Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	268.29
01 45 23 00-0012	EA	Proctor Compaction 6" Standard Mold, Field Soils Test.....	335.36
01 45 23 00-0013	EA	Density And Classification Test, Field Soils Test.....	107.32
01 45 23 00-0014	EA	Percolation Test, Field Soils Test.....	268.29
01 45 23 00-0015	EA	Infiltration Test, Field Soils Test.....	536.58

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

01 45 23 00-0017	EA	Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	89.46
01 45 23 00-0018	EA	Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	161.03
01 45 23 00-0019	EA	Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	223.65
01 45 23 00-0020	EA	Sieve Analysis, Pit Run, ASTM C136 Note: Includes wash.	174.39
01 45 23 00-0021	EA	Specific Special Gravity, Course, ASTM C127 Note: Includes absorption test.	142.10
01 45 23 00-0022	EA	Special Gravity, Fine, ASTM C127 Note: Includes absorption test.	127.44
01 45 23 00-0023	EA	Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	189.47
01 45 23 00-0024	EA	Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	178.92
01 45 23 00-0025	EA	Aggregate Cleanness Value, ASTM C-128, CA 227.....	178.92
01 45 23 00-0026	EA	Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217.....	134.19
01 45 23 00-0027	EA	Fine Aggregate Durability Index, CA 229.....	143.14
01 45 23 00-0028	EA	Sodium And Magnesium Soundness, ASTM C88.....	375.60
01 45 23 00-0029	EA	Los Angeles Rattler, ASTM C-131, CA 211.....	286.27
01 45 23 00-0030	EA	Los Angeles Rattler, ASTM C-535.....	286.27
01 45 23 00-0031	EA	Unit Weight Of Aggregates, ASTM C29.....	80.51
01 45 23 00-0032	EA	Organic Impurities In Sand, ASTM C40.....	80.49
01 45 23 00-0033	EA	Crushed Particle, ASTM California Test Method.....	80.49
01 45 23 00-0034	EA	Clay Lump And Friable Particles, ASTM C142.....	160.97



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0035 Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0036 In-Place Tests (01 45 23 00-0035)		
01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385.....	1,421.02	
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test	67.07	
01 45 23 00-0039 Lab Tests (01 45 23 00-0035)		
01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE	663.14	
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100	663.14	
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432	378.94	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0044 Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	21.96	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	56.84	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42	116.30	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78	169.97	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567	62.62	
01 45 23 00-0050 EA Concrete Mix Design Review	339.95	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory	805.14	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified	626.22	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496	96.62	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143	44.73	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	44.73	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24)	44.73	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials	71.57	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366	89.46	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	232.60	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559	89.46	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559	232.60	
01 45 23 00-0064 EA Swell Test, CA 305	107.35	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B	268.38	
01 45 23 00-0066 EA Maximum Theoretical Unit Weight, ASTM C2041	170.52	
01 45 23 00-0067 EA Unit Weight Sample Requiring Compaction, California Test Method 308	35.78	
01 45 23 00-0068 EA Asphalt Unit Weight On Core Test, CA 308C	35.78	
01 45 23 00-0069 HR Nuclear Field Density Testing, 4 Hour Minimum	184.29	
01 45 23 00-0070 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	120.73	
01 45 23 00-0071 EA Penetration, ASTM D5	129.23	
01 45 23 00-0072 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0073 Masonry Testing (01 45 23 00-0072)		
01 45 23 00-0074 EA 2" x 4" Cylinder Mortar Compression Test	59.04	
01 45 23 00-0075 EA 4" x 4" x 8" Grout Prisms Compression Test	59.04	
01 45 23 00-0076 EA Masonry Cores Compression Test	116.30	
01 45 23 00-0077 EA Composite Grouted Prism Compression Test	223.65	
01 45 23 00-0078 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0072)		
01 45 23 00-0079 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140	143.14	
01 45 23 00-0080 EA Absorption Test, Moisture Content And Unit Weight	98.41	
01 45 23 00-0081 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427	375.60	
01 45 23 00-0082 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	187.80	
01 45 23 00-0083 Metals Testing (01 45 23)		
01 45 23 00-0084 Tank Line Tightness Testing (01 45 23 00-0083)		
01 45 23 00-0085 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	539.86	
01 45 23 00-0086 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing	599.46	
01 45 23 00-0087 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing	658.85	
01 45 23 00-0088 Other Testing (01 45 23)		
01 45 23 00-0089 Special Testing (01 45 23 00-0088)		
01 45 23 00-0090 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight	138.68	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0091 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	832.10	
01 45 23 00-0092 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria)	41.84	
01 45 23 00-0093 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample	173.43	
01 45 23 00-0094 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample	173.43	
01 45 23 00-0095 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample	173.43	
01 45 23 00-0096 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample	953.86	
01 45 23 00-0097 EA Testing And Certification Of Backflow Valves	628.75	
01 45 23 00-0098 Nondestructive Field Testing Services (01 45 23 00-0088)		
01 45 23 00-0099 Infrared Thermography (01 45 23 00-0098)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0100 Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0099)		
Note: For on the roof surveys.		
01 45 23 00-0101 EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge	3,121.74	
01 45 23 00-0102 CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	5.20	
For CADD Drawings, Add	1.04	
01 45 23 00-0103 CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	3.47	
For CADD Drawings, Add	0.69	
01 45 23 00-0104 CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	2.60	
For CADD Drawings, Add	0.52	
For Elevated Infrared Thermography Roof Investigation, Add	0.65	
For Aerial Infrared Thermography Roof Investigation, Add	0.65	
01 45 23 00-0105 CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	1.73	
For CADD Drawings, Add	0.35	
For Elevated Infrared Thermography Roof Investigation, Add	0.43	
For Aerial Infrared Thermography Roof Investigation, Add	0.43	
01 45 23 00-0106 Building Moisture Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding moisture in walls and windows.		
01 45 23 00-0107 EA Building Moisture Investigation Using Infrared Thermography, Mobilization Charge	1,647.58	
01 45 23 00-0108 CSF Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography	5.20	
For Digital Or Analog Recording Of All Items, Add	2.60	
01 45 23 00-0109 CSF >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography	3.47	
For Digital Or Analog Recording Of All Items, Add	1.74	
01 45 23 00-0110 CSF >5,000 SF, Building Moisture Investigation Using Infrared Thermography	1.73	
For Digital Or Analog Recording Of All Items, Add	0.87	
01 45 23 00-0111 General Building Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding missing or misplaced insulation, air leakage and delamination.		
01 45 23 00-0112 EA General Building Investigation Using Infrared Thermography, Mobilization Charge	3,381.88	
01 45 23 00-0113 CSF Up To 1,000 SF, General Building Investigation Using Infrared Thermography	5.20	
For Digital Or Analog Recording Of All Items, Add	2.60	
01 45 23 00-0114 CSF >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography	3.47	
For Digital Or Analog Recording Of All Items, Add	1.74	
01 45 23 00-0115 CSF >5,000 SF, General Building Investigation Using Infrared Thermography	1.73	
For Digital Or Analog Recording Of All Items, Add	0.87	
01 45 23 00-0116 Electrical /Mechanical Equipment Scanning Using Infrared Thermography (01 45 23 00-0099)		
Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.		
01 45 23 00-0117 EA Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge	1,647.58	
01 45 23 00-0118 HR Electrical /Mechanical Equipment Scanning Using Infrared Thermography	246.43	
For Digital Or Analog Recording Of All Items, Add	36.89	
01 45 23 00-0119 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0120 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	1,647.58	
01 45 23 00-0121 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	5.20	
For Digital Or Analog Recording Of All Items, Add	0.78	
01 45 23 00-0122 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	3.47	
For Digital Or Analog Recording Of All Items, Add	0.52	
01 45 23 00-0123 Other Nondestructive Field Testing Services (01 45 23 00-0098)		
01 45 23 00-0124 HR ASNT Certified Level I NDT Consultant	95.62	
01 45 23 00-0125 HR ASNT Certified Level II NDT Consultant	119.25	
01 45 23 00-0126 HR ASNT Certified Level III NDT Consultant	136.88	
01 45 23 00-0127 HR Certified Industrial Radiography Radiation Safety Personnel	139.12	
01 45 23 00-0128 Testing Professional Services (01 45 23 00-0088)		



General Requirements			01
Quality Requirements			01 40
Quality Control			01 45

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0129	HR		Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection	166.40	
01 45 23 00-0130	HR		Laboratory Technician	161.03	
01 45 23 00-0131	HR		Portable Digital Reinforcement Scanner	232.60	
01 45 23 00-0132	HR		Subsurface Detection Radar System	393.62	
01 45 23 00-0133	HR		Pavement Rehabilitation Analysis Using Deflectors	447.30	

01 45 29 Testing Laboratory Services (01 45)

01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29)

01 45 29 00-0002	EA	Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test	123.16
01 45 29 00-0003	EA	Shrinkage Limit, Soil Borings Laboratory Test	39.30
01 45 29 00-0004	EA	Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test	94.74
01 45 29 00-0005	EA	Consolidation, Soil Borings Laboratory Test	663.14
01 45 29 00-0006	EA	Swell Test, Soil Borings Laboratory Test	131.00
01 45 29 00-0007	EA	In Place Density, Soil Borings Laboratory Test	28.42
01 45 29 00-0008	EA	Moisture Content, ASTM D2216, Soil Borings Laboratory Test	17.66
01 45 29 00-0009	EA	Hydrometer Analysis, Soil Borings Laboratory Test	227.95
01 45 29 00-0010	EA	Specific Gravity, ASTM D854, Soil Borings Laboratory Test	79.49
01 45 29 00-0011	EA	Partial Sieve Analysis, Soil Borings Laboratory Test	15.72
01 45 29 00-0012	EA	Laboratory Permeability, Soil Borings Laboratory Test	786.03
01 45 29 00-0013	EA	Sieve Analysis, ASTM D422, Soil Borings Laboratory Test	158.99
01 45 29 00-0014	EA	Sulfate Soundness, Soil Borings Laboratory Test	196.51
01 45 29 00-0015	EA	Los Angeles Abrasion, Soil Borings Laboratory Test	458.19
01 45 29 00-0016	EA	Soil Bearing Ratio, ASTM D1883	402.57
01 45 29 00-0017	EA	Compaction Test Subgrade, Soil Borings Laboratory Test	117.90
01 45 29 00-0018	EA	Compaction Test Base Course, Soil Borings Laboratory Test	99.76
01 45 29 00-0019	EA	In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test	387.70
01 45 29 00-0020	EA	Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test	60.26

01 50 Temporary Facilities and Controls (01)

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

01 51 Temporary Utilities (01 50)

01 51 13 Temporary Electricity (01 51)

01 51 13 00-0001 Temporary Service Switch And/Or Building Feeder Switch (01 51 13)

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,614.66
01 51 13 00-0003	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,522.65
01 51 13 00-0004	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	4,564.90
01 51 13 00-0005	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	7,319.50

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

Note: Includes mounting on wall and removal after use.

01 51 13 00-0007	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers	1,602.64
01 51 13 00-0008	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers	2,306.50
01 51 13 00-0009	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers	3,590.22
01 51 13 00-0010	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers	5,209.47

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

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

01 51 13 00-0012	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	9.56
01 51 13 00-0013	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	10.47

01 51 26 Temporary Lighting (01 51)

01 51 26 00-0001 Temporary Devices (01 51 26)

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light	322.95
01 51 26 00-0003	EA	Temporary 10 Light String With Cages	118.90
01 51 26 00-0004	EA	Temporary High Bay Light	450.21

01 52 Construction Facilities (01 50)

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

01 52 13 Field Offices and Sheds (01 52)

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

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

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet.....	180.51	
		For Each Delivery And Removal, Two Round Trips, Add	687.32	
		For Each Set-Up (Block And Level), Add	420.89	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
		For Office Trailer Without Toilet, Deduct	-36.10	
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet.....	204.57	
		For Each Delivery And Removal, Two Round Trips, Add	687.32	
		For Each Set-Up (Block And Level), Add	420.89	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
		For Office Trailer Without Toilet, Deduct	-40.91	
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet.....	276.77	
		For Each Delivery And Removal, Two Round Trips, Add	973.71	
		For Each Set-Up (Block And Level), Add	686.71	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
		For Office Trailer Without Toilet, Deduct	-55.35	
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet.....	294.83	
		For Each Delivery And Removal, Two Round Trips, Add	973.71	
		For Each Set-Up (Block And Level), Add	686.71	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
		For Office Trailer Without Toilet, Deduct	-58.97	
01 52 13 00-0006	MO	10' x 44' Mobile Office, With Toilet.....	324.91	
		For Each Delivery And Removal, Two Round Trips, Add	973.71	
		For Each Set-Up (Block And Level), Add	686.71	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0007	MO	10' x 50' Mobile Office, With Toilet.....	342.96	
		For Each Delivery And Removal, Two Round Trips, Add	973.71	
		For Each Set-Up (Block And Level), Add	686.71	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0008	MO	12' x 32' Mobile Office, With Toilet.....	265.34	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
		For Each Delivery And Set-Up (Block And Level), Add	952.89	
		For Each Knock-Down And Pick-Up, Add	757.89	
01 52 13 00-0009	MO	12' x 44' Mobile Office, With Toilet.....	354.76	
		For Each Delivery And Removal, Two Round Trips, Add	973.71	
		For Each Set-Up (Block And Level), Add	686.71	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0010	MO	12' x 50' Mobile Office, With Toilet.....	403.13	
		For Each Delivery And Removal, Two Round Trips, Add	973.71	
		For Each Set-Up (Block And Level), Add	686.71	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0011	MO	12' x 60' Mobile Office, With Toilet.....	439.23	
		For Each Delivery And Removal, Two Round Trips, Add	973.71	
		For Each Set-Up (Block And Level), Add	686.71	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0012	MO	24' x 60' Modular Office, With Toilet.....	962.68	
		For Each Delivery And Removal, Two Round Trips, Add	1,832.87	
		For Each Set-Up (Block And Level), Add	1,107.60	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0013	MO	24' x 72' Modular Office, With Toilet.....	1,155.22	
		For Each Delivery And Removal, Two Round Trips, Add	1,832.87	
		For Each Set-Up (Block And Level), Add	1,107.60	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0014	MO	30' x 30' Modular Office, With Toilet.....	549.03	
		For Each Delivery And Removal, Two Round Trips, Add	1,832.87	
		For Each Set-Up (Block And Level), Add	1,107.60	
		For Each Anchoring Into Dirt, Add	128.35	
		For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0015		Storage Containers (01 52 13)		
01 52 13 00-0016	MO	8' x 8' x 10' Storage Container	211.75	
		For Each Delivery And Removal, Two Round Trips, Add	225.69	
		For >12 Months, Deduct	-63.53	
01 52 13 00-0017	MO	8' x 8' x 20' Storage Container	221.38	
		For Each Delivery And Removal, Two Round Trips, Add	248.26	
		For >12 Months, Deduct	-66.41	
01 52 13 00-0018	MO	8' x 8' x 40' Storage Container	261.80	
		For Each Delivery And Removal, Two Round Trips, Add	500.00	
		For >12 Months, Deduct	-78.54	

01 52 19 Sanitary Facilities (01 52)



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

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 19 00-0001 Portable Toilets (01 52 19) Note: Includes set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	59.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	
01 52 19 00-0003 MO Portable Chemical Toilet.....	177.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet	70.37	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet	206.49	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	
01 52 19 00-0006 WK Two Station Portable Handwash.....	44.22	
For Each Delivery, Add	75.00	
01 52 19 00-0007 MO Two Station Portable Handwash.....	134.15	
For Each Delivery, Add	75.00	
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer	3,686.54	
Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,126.85	
 01 53 Temporary Construction (01 50)		
01 53 16 Temporary Decking (01 53)		
01 53 16 00-0001 Temporary Walkways And Railings (01 53 16) Note: Includes removal after use.		
01 53 16 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	6.91	
01 53 16 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	33.33	
01 53 16 00-0004 LF Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	12.58	
01 53 16 00-0005 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	23.85	
 01 53 23 Temporary Ramps (01 53)		
01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23) Note: Includes removal after use.		
01 53 23 00-0002 SF Temporary Plywood For Wheel Barrow Access.....	1.57	0.50
 01 55 Vehicular Access and Parking (01 50)		
01 55 23 Temporary Roads (01 55)		
01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23) Note: As per Caltrans detail.		
01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	3.90	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	5.08	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
 01 55 23 00-0004 Rumble Trench Plate (01 55 23)		
01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental.....	324.06	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate	86.63	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....	21.66	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
 01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23) Note: Excludes asphalt and gravel.		
01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,009.27	191.90
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,462.21	287.83
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	7,545.66	383.78
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	15,619.05	479.73
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	22,904.29	575.68
 01 55 26 Traffic Control (01 55)		
01 55 26 00-0001 Removable Preformed Traffic Black Line Mask (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask	4.36	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask	5.24	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 55 26 00-0004	Temporary Preformed Traffic Line Tape (01 55 26)	
	Note: Includes installation and removal after use.	
01 55 26 00-0005	LF 4" Reflective Removable Traffic Line Tape.....	4.41
01 55 26 00-0006	LF 6" Reflective Removable Traffic Line Tape.....	5.98
01 55 26 00-0007	LF 8" Reflective Removable Traffic Line Tape.....	7.46
01 55 26 00-0008	Temporary Painted Traffic Lines (01 55 26)	
	Note: Includes installation and removal after use.	
01 55 26 00-0009	LF 4" Temporary Painted Traffic Lines.....	2.12
	For Not Removed, Deduct.....	-2.77
01 55 26 00-0010	LF 6" Temporary Painted Traffic Lines.....	2.79
	For Not Removed, Deduct.....	-3.73
01 55 26 00-0011	LF 8" Temporary Painted Traffic Lines.....	3.50
	For Not Removed, Deduct.....	-4.75
01 55 26 00-0012	EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.95
01 55 26 00-0013	EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.98
01 55 26 00-0014	Pedestrian Traffic Control (01 55 26)	
01 55 26 00-0015	CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....	12.98
01 55 26 00-0016	CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....	17.83
01 55 26 00-0017	CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	8.96
01 55 26 00-0018	CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	11.39
01 55 26 00-0019	CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	12.96
01 55 26 00-0020	CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	19.18
01 55 26 00-0021	CLF 1" Exterior Vinyl Tape (Warning Tape).....	16.43
01 55 26 00-0022	CLF 2" Exterior Vinyl Tape (Warning Tape).....	24.38
01 55 26 00-0023	CLF 3" Exterior Vinyl Tape (Warning Tape).....	32.23
01 55 26 00-0024	CLF 4" Exterior Vinyl Tape (Warning Tape).....	37.79
01 55 26 00-0025	Linear Delineation System, Temporary Or Permanent (01 55 26)	
	Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.	
01 55 26 00-0026	LF 4" Linear Delineation System.....	9.30
01 55 26 00-0027	LF 6" Linear Delineation System.....	12.54
01 55 26 00-0028	Traffic Protection (01 55 26)	
01 55 26 00-0029	Portable Traffic Control Device Usage (01 55 26 00-0028)	
	Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.	
01 55 26 00-0030	DAY 28" Cone With Reflective Collar.....	0.70
01 55 26 00-0031	WK 28" Cone With Reflective Collar.....	2.09
01 55 26 00-0032	MO 28" Cone With Reflective Collar.....	6.26
01 55 26 00-0033	DAY Vertical Panel.....	2.10
01 55 26 00-0034	WK Vertical Panel.....	6.30
01 55 26 00-0035	MO Vertical Panel.....	18.91
01 55 26 00-0036	DAY Channelizer Drum.....	2.28
01 55 26 00-0037	WK Channelizer Drum.....	6.84
01 55 26 00-0038	MO Channelizer Drum.....	20.53
01 55 26 00-0039	DAY Stackable Channelizer Panel.....	1.08
01 55 26 00-0040	WK Stackable Channelizer Panel.....	3.24
01 55 26 00-0041	MO Stackable Channelizer Panel.....	9.71
01 55 26 00-0042	DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.49
01 55 26 00-0043	WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	4.48
01 55 26 00-0044	MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	13.45
01 55 26 00-0045	DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	3.31
01 55 26 00-0046	WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	9.93
01 55 26 00-0047	MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	29.80
01 55 26 00-0048	DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	3.77
01 55 26 00-0049	WK Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	11.32
01 55 26 00-0050	MO Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	33.97
01 55 26 00-0051	DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	6.90
01 55 26 00-0052	WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	20.71
01 55 26 00-0053	MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	62.13
01 55 26 00-0054	DAY Up To 10' Wide A Frame Barricade.....	3.79
01 55 26 00-0055	WK Up To 10' Wide A Frame Barricade.....	11.36
01 55 26 00-0056	MO Up To 10' Wide A Frame Barricade.....	34.08
01 55 26 00-0057	DAY Type A Or C Flasher.....	0.77
01 55 26 00-0058	WK Type A Or C Flasher.....	2.31
01 55 26 00-0059	MO Type A Or C Flasher.....	6.94
01 55 26 00-0060	DAY Type B Flasher (High Intensity).....	4.19
01 55 26 00-0061	WK Type B Flasher (High Intensity).....	12.56
01 55 26 00-0062	MO Type B Flasher (High Intensity).....	37.67

01 55 26 00-0063	Traffic Barriers Usage (01 55 26 00-0028)	
	Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0064	DAY	6'	Long Portable Parking Curbs	1.80	
01 55 26 00-0065	WK	6'	Long Portable Parking Curbs	5.41	
01 55 26 00-0066	MO	6'	Long Portable Parking Curbs	16.23	
01 55 26 00-0067	DAY	6'	Long Portable Speed Bumps	5.34	
01 55 26 00-0068	WK	6'	Long Portable Speed Bumps	16.01	
01 55 26 00-0069	MO	6'	Long Portable Speed Bumps	48.02	
01 55 26 00-0070	DAY	Up To 12.5'	Concrete Traffic Barrier	12.82	
01 55 26 00-0071	WK	Up To 12.5'	Concrete Traffic Barrier	38.46	
01 55 26 00-0072	MO	Up To 12.5'	Concrete Traffic Barrier	115.37	
01 55 26 00-0073	DAY	>12.5' To 20'	Concrete Traffic Barrier	25.64	
01 55 26 00-0074	WK	>12.5' To 20'	Concrete Traffic Barrier	76.91	
01 55 26 00-0075	MO	>12.5' To 20'	Concrete Traffic Barrier	230.73	
01 55 26 00-0076	DAY	6' x 32"	Tall Plastic Water Barrier	15.31	
01 55 26 00-0077	WK	6' x 32"	Tall Plastic Water Barrier	45.92	
01 55 26 00-0078	MO	6' x 32"	Tall Plastic Water Barrier	137.77	
01 55 26 00-0079	DAY	6' x 46"	Tall Plastic Water Barrier	21.86	
01 55 26 00-0080	WK	6' x 46"	Tall Plastic Water Barrier	65.57	
01 55 26 00-0081	MO	6' x 46"	Tall Plastic Water Barrier	196.72	
01 55 26 00-0082	DAY		Sand Filled Crash Attenuator Barrels	8.56	
01 55 26 00-0083	WK		Sand Filled Crash Attenuator Barrels	25.67	
01 55 26 00-0084	MO		Sand Filled Crash Attenuator Barrels	77.00	
01 55 26 00-0085	MO		24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....	1,216.56	
Note: Consists of 8 bays with nose piece at the front of the system.					
01 55 26 00-0086 Portable Signs And Message Displays Usage (01 55 26 00-0028)					
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.					
01 55 26 00-0087	DAY		Mesh Or Vinyl Roll-up Sign With Stand	6.72	
01 55 26 00-0088	WK		Mesh Or Vinyl Roll-up Sign With Stand	20.15	
01 55 26 00-0089	MO		Mesh Or Vinyl Roll-up Sign With Stand	60.45	
01 55 26 00-0090	DAY		Aluminum Sign And Post.....	3.25	
01 55 26 00-0091	WK		Aluminum Sign And Post.....	9.74	
01 55 26 00-0092	MO		Aluminum Sign And Post.....	29.23	
01 55 26 00-0093	DAY		Aluminum Sign And A Frame Stand	5.08	
01 55 26 00-0094	WK		Aluminum Sign And A Frame Stand	15.24	
01 55 26 00-0095	MO		Aluminum Sign And A Frame Stand	45.71	
01 55 26 00-0096	DAY		Trailer Mounted Flashing Arrow Board	102.00	
01 55 26 00-0097	WK		Trailer Mounted Flashing Arrow Board	282.32	
01 55 26 00-0098	MO		Trailer Mounted Flashing Arrow Board	746.77	
01 55 26 00-0099	DAY		Trailer Mounted Portable Variable Message Sign (PVMS)	366.00	
01 55 26 00-0100	WK		Trailer Mounted Portable Variable Message Sign (PVMS)	976.00	
01 55 26 00-0101	MO		Trailer Mounted Portable Variable Message Sign (PVMS)	1,952.00	
01 55 26 00-0102	DAY		Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	1,143.73	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.					
01 55 26 00-0103	WK		Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	3,431.19	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.					
01 55 26 00-0104	MO		Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	10,293.57	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.					
01 55 26 00-0105 Place And Remove Traffic Protection Using Truck (01 55 26 00-0028)					
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0029 for delivery >15 miles.					
01 55 26 00-0106	EA		Placement And Removal Of Up To 250 Cones Using Truck	3.41	
01 55 26 00-0107	EA		Placement And Removal Of >250 Cones Using Truck	2.98	
01 55 26 00-0108	EA		Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	5.61	
01 55 26 00-0109	EA		Placement And Removal Of >250 Panels/Channelizers Using Truck.....	4.68	
01 55 26 00-0110	EA		Placement And Removal Of Up To 250 Barricades Using Truck.....	8.51	
01 55 26 00-0111	EA		Placement And Removal Of >250 Barricades Using Truck	6.81	
01 55 26 00-0112	EA		Placement And Removal Of Curbs/Speed Bumps Using Truck.....	8.51	
01 55 26 00-0113	EA		Placement And Removal Of Portable Sign And Stand Using Truck	5.10	
01 55 26 00-0114	EA		Placement And Removal Of Aluminum Sign And Post Using Truck	21.27	
01 55 26 00-0115	EA		Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	63.82	
01 55 26 00-0116	EA		Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	86.63	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.					
For 1 Barrier, Add				216.58	
For 2 Barriers, Add				77.97	
For 3 Barriers, Add				25.99	
01 55 26 00-0117	EA		Placement And Removal Of >12.5' Concrete Traffic Barrier.....	129.96	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.					
For 1 Barrier, Add				324.90	
For 2 Barriers, Add				116.96	
For 3 Barriers, Add				38.99	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0118 EA Placement And Removal Of Plastic Water Barrier.....49.18 Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks. For 1 Barrier, Add 108.30 For 2 Barriers, Add 38.99 For 3 Barriers, Add 13.00		
01 55 26 00-0119 EA Placement And Removal Of Crash Attenuator Barrels 64.98 Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks. For 1 Barrier, Add 162.45 For 2 Barriers, Add 58.48 For 3 Barriers, Add 19.49		
01 55 26 00-0120 EA Placement And Removal Of 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....476.50 Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0121 Place And Remove Traffic Protection From Roadside (Daily) (01 55 26 00-0026)		
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....2.13		
01 55 26 00-0123 EA Placement And Removal Of >250 Cones By Hand From Roadside 1.70		
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside 2.83		
01 55 26 00-0125 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....2.26		
01 55 26 00-0126 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....4.25		
01 55 26 00-0127 EA Placement And Removal Of >250 Barricades By Hand From Roadside 3.41		
01 55 26 00-0128 EA Placement And Removal Of Portable Sign And Stand From Roadside 2.56		
01 55 26 00-0129 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....31.91		
01 55 26 00-0130 EA Relocate Concrete Traffic Barrier.....43.32 Note: Excludes flatbed truck (if required). If lifting equipment is not available on site. See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 26 00-0131 Temporary Rumble Strips (01 55 26)		
Note: Includes removal after use.		
01 55 26 00-0132 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....11.08		
01 55 26 00-0133 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....8.01		
01 56 Temporary Barriers and Enclosures (01 50)		
Note: Includes removal after use.		
01 56 16 Temporary Dust Barriers (01 56)		
01 56 16 00-0001 Temporary Stud Wall (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0002 Temporary Stud Wall With Drywall (01 56 16 00-0001)		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0003 Temporary Stud Wall With Drywall (01 56 16 00-0002)		
01 56 16 00-0004 SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....6.24 For Metal Studs 24" On Center, Add/Deduct 0.62		
01 56 16 00-0005 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....6.24 For Metal Studs 24" On Center, Add/Deduct 0.62		
01 56 16 00-0006 SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....6.32 For Metal Studs 24" On Center, Add/Deduct 0.62		
01 56 16 00-0007 SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center 8.57 For Metal Studs 24" On Center, Add/Deduct 0.72		
01 56 16 00-0008 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center 8.57 For Metal Studs 24" On Center, Add/Deduct 0.72		
01 56 16 00-0009 SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center 8.73 For Metal Studs 24" On Center, Add/Deduct 0.72		
01 56 16 00-0010 Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0002)		
01 56 16 00-0011 SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center 6.33 For Metal Studs 24" On Center, Add/Deduct 0.62		
01 56 16 00-0012 SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center 6.36 For Metal Studs 24" On Center, Add/Deduct 0.62		
01 56 16 00-0013 SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....6.31 For Metal Studs 24" On Center, Add/Deduct 0.62		
01 56 16 00-0014 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....6.93 For Metal Studs 24" On Center, Add/Deduct 0.62		
01 56 16 00-0015 SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center 8.75 For Metal Studs 24" On Center, Add/Deduct 0.72		
01 56 16 00-0016 SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center 8.80 For Metal Studs 24" On Center, Add/Deduct 0.72		
01 56 16 00-0017 SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center 8.71 For Metal Studs 24" On Center, Add/Deduct 0.72		



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

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0018	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.95	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0019 Temporary Stud Wall With Oriented Strand Board (OSB) (01 56 16 00-0001)				
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.				
01 56 16 00-0020	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.23	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0021	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.28	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0022	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.42	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0023	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.49	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0024	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.55	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0025	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.65	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0026	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.92	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0027	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.06	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0028 Temporary Stud Wall With BC Plywood (01 56 16 00-0001)				
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.				
01 56 16 00-0029	SF	3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.56	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0030	SF	1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.73	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0031	SF	5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.40	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0032	SF	3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.62	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0033	SF	3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.20	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0034	SF	1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.55	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0035	SF	5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	10.89	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0036	SF	3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	11.32	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0037 Temporary Stud Wall With Plastic Sheeting (01 56 16 00-0001)				
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.				
01 56 16 00-0038	SF	6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.63	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0039	SF	6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.70	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0040	SF	6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.72	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0041	SF	6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.71	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0042	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.77	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0043 Temporary Doors (01 56 16 00-0001)				
Note: For temporary stud walls. Includes removal after use.				
01 56 16 00-0044	EA	Temporary Metal Door And Frame.....	641.61	
Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.				
01 56 26 Temporary Fencing (01 56)				
01 56 26 00-0001 Temporary Fencing (01 56 26)				
Note: Per ASTM A392-06 Standards				
01 56 26 00-0002 Temporary Chain Link Fence (01 56 26 00-0001)				
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0026 for core drilling in asphalt or concrete, 32 31 13 13-0001 for auguring and backfill of posts.				
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)				
01 56 26 00-0004	LF	Temporary 4' High Chain Link Fence And Posts, Up To 6 Months.....	5.80	
		<i>For >100 To 250, Deduct</i>	-0.13	
		<i>For >250 To 500, Deduct</i>	-0.27	
		<i>For >500, Deduct</i>	-0.40	
		<i>For Each LF Shade Cloth, Add</i>	1.60	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0005	LF		Temporary 6' High Chain Link Fence And Posts, Up To 6 Months.....	6.46	
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.30	
			For >500, Deduct	-0.45	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0006	LF		Temporary 8' High Chain Link Fence And Posts, Up To 6 Months.....	8.84	
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.51	
			For >500, Deduct	-0.76	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0007	LF		Temporary 10' High Chain Link Fence And Posts, Up To 6 Months.....	19.21	
			For >100 To 250, Deduct	-0.75	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-2.25	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)					
01 56 26 00-0009	LF		Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months.....	6.07	
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.29	
			For >500, Deduct	-0.44	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0010	LF		Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months.....	6.76	
			For >100 To 250, Deduct	-0.16	
			For >250 To 500, Deduct	-0.33	
			For >500, Deduct	-0.49	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0011	LF		Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months.....	9.34	
			For >100 To 250, Deduct	-0.28	
			For >250 To 500, Deduct	-0.56	
			For >500, Deduct	-0.83	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0012	LF		Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months.....	20.70	
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.65	
			For >500, Deduct	-2.48	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)					
01 56 26 00-0014	LF		Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months.....	6.37	
			For >100 To 250, Deduct	-0.16	
			For >250 To 500, Deduct	-0.32	
			For >500, Deduct	-0.48	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0015	LF		Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months.....	7.10	
			For >100 To 250, Deduct	-0.18	
			For >250 To 500, Deduct	-0.36	
			For >500, Deduct	-0.54	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0016	LF		Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months.....	9.91	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.92	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0017	LF		Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months.....	22.36	
			For >100 To 250, Deduct	-0.91	
			For >250 To 500, Deduct	-1.82	
			For >500, Deduct	-2.73	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)					
01 56 26 00-0019	LF		Temporary 4' High Chain Link Fence And Posts, >18 Months.....	6.69	
			For >100 To 250, Deduct	-0.18	
			For >250 To 500, Deduct	-0.35	
			For >500, Deduct	-0.53	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020	LF		Temporary 6' High Chain Link Fence And Posts, >18 Months.....	7.44	
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.40	
			For >500, Deduct	-0.60	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021	LF		Temporary 8' High Chain Link Fence And Posts, >18 Months.....	10.51	
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.67	
			For >500, Deduct	-1.01	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022	LF		Temporary 10' High Chain Link Fence And Posts, >18 Months.....	24.17	
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-3.00	
			For Each LF Shade Cloth, Add	4.75	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0023 Temporary Chain Link Fence Gates ^(01 56 26 00-0001) Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0026 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months ^(01 56 26 00-0023)		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months ^(01 56 26 00-0024)		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	228.09	
For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	388.99	
For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	435.22	
For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	495.62	
For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	593.18	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	660.79	
For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months ^(01 56 26 00-0024)		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	244.46	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	420.65	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	471.73	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	547.27	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	661.26	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	751.46	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months ^(01 56 26 00-0024)		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	273.14	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	482.83	
For Shade Cloth, Add	70.95	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	539.58	
For Shade Cloth, Add	85.14	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	618.09	
For Shade Cloth, Add	106.43	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	755.39	
For Shade Cloth, Add	141.90	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	878.63	
For Shade Cloth, Add	170.29	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months ^(01 56 26 00-0024)		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	330.48	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	578.11	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	647.38	
For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	740.47	
For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	905.19	
For Each LF Shade Cloth, Add	187.24	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,047.97	
For Each LF Shade Cloth, Add	224.68	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months ^(01 56 26 00-0023)		
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months ^(01 56 26 00-0053)		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	236.54	
For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	402.13	
For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	450.23	
For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	512.52	
For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	613.83	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	683.32	
For Each LF Shade Cloth, Add	75.68	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	253.29	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	434.38	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	487.43	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	564.94	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	682.85	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	775.01	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	282.86	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	497.94	
For Shade Cloth, Add	70.95	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	556.85	
For Shade Cloth, Add	85.14	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	637.52	
For Shade Cloth, Add	106.43	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	779.14	
For Shade Cloth, Add	141.90	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	904.53	
For Shade Cloth, Add	170.29	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	342.63	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	596.99	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	668.97	
For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	764.75	
For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	934.87	
For Each LF Shade Cloth, Add	187.24	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,080.35	
For Each LF Shade Cloth, Add	224.68	
01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	245.41	
For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	415.92	
For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	466.00	
For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	530.26	
For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	635.51	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	706.97	
For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	262.56	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	448.80	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	503.91	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	583.48	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	705.51	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	799.74	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	293.06	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	513.81	
For Shade Cloth, Add	70.95	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0100	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	574.98	
			For Shade Cloth, Add	85.14	
01 56 26 00-0101	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	657.92	
			For Shade Cloth, Add	106.43	
01 56 26 00-0102	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	804.07	
			For Shade Cloth, Add	141.90	
01 56 26 00-0103	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	931.73	
			For Shade Cloth, Add	170.29	
01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)					
01 56 26 00-0105	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	355.37	
			For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0106	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	616.83	
			For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0107	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	691.63	
			For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0108	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	790.25	
			For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0109	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	966.03	
			For Each LF Shade Cloth, Add	187.24	
01 56 26 00-0110	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,114.35	
			For Each LF Shade Cloth, Add	224.68	
01 56 26 00-0111 Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)					
01 56 26 00-0112 4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)					
01 56 26 00-0113	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	254.28	
			For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0114	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	429.72	
			For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0115	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	481.77	
			For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0116	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	547.99	
			For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0117	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	657.19	
			For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0118	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	730.62	
			For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)					
01 56 26 00-0120	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	271.83	
			For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0121	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	463.23	
			For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0122	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	520.39	
			For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0123	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	602.03	
			For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0124	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	728.18	
			For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0125	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	824.46	
			For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)					
01 56 26 00-0127	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	303.26	
			For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0128	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	529.68	
			For Shade Cloth, Add	70.95	
01 56 26 00-0129	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	593.11	
			For Shade Cloth, Add	85.14	
01 56 26 00-0130	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	678.31	
			For Shade Cloth, Add	106.43	
01 56 26 00-0131	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	829.00	
			For Shade Cloth, Add	141.90	
01 56 26 00-0132	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	958.93	
			For Shade Cloth, Add	170.29	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)					
01 56 26 00-0134	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	368.12	
			For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0135	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	636.66	
			For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0136	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	714.30	
			For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0137	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	815.75	
			For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0138	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	997.20	
			For Each LF Shade Cloth, Add	187.24	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0139	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	1,148.35 224.68	
01 56 26 00-0140			Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001) Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141			Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142	LF		Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.32 -0.16 -0.32 -0.48 1.60	
01 56 26 00-0143	LF		Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.03 -0.18 -0.36 -0.53 2.55	
01 56 26 00-0144	LF		Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.52 -0.29 -0.57 -0.86 3.60	
01 56 26 00-0145			Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146	LF		Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.60 -0.17 -0.35 -0.52 1.60	
01 56 26 00-0147	LF		Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.32 -0.19 -0.39 -0.58 2.55	
01 56 26 00-0148	LF		Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	10.02 -0.31 -0.62 -0.93 3.60	
01 56 26 00-0149			Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150	LF		Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.87 -0.19 -0.37 -0.56 1.60	
01 56 26 00-0151	LF		Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.66 -0.21 -0.42 -0.63 2.55	
01 56 26 00-0152	LF		Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	10.59 -0.34 -0.68 -1.02 3.60	
01 56 26 00-0153			Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154	LF		Temporary 4' High Chain Link Fence Panels (Portable), >18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.21 -0.20 -0.41 -0.61 1.60	
01 56 26 00-0155	LF		Temporary 6' High Chain Link Fence Panels (Portable), >18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	8.00 -0.23 -0.45 -0.68 2.55	
01 56 26 00-0156	LF		Temporary 8' High Chain Link Fence Panels (Portable), >18 Months <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	11.18 -0.37 -0.74 -1.11 3.60	
01 56 26 00-0157			Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158	BAG		Temporary Chain Link Fence Panels (Portable) Sandbag Note: Includes placement and removal.	6.22	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0159			Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001) Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160			Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161	LF		Relocate Temporary 4' High Chain Link Fence And Posts	3.45	
01 56 26 00-0162	LF		Relocate Temporary 6' High Chain Link Fence And Posts	5.19	
01 56 26 00-0163	LF		Relocate Temporary 8' High Chain Link Fence And Posts	7.49	
01 56 26 00-0164	LF		Relocate Temporary 10' High Chain Link Fence And Posts	9.21	
01 56 26 00-0165			Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166	LF		Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.79	
01 56 26 00-0167	LF		Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	0.94	
01 56 26 00-0168	LF		Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.06	
01 56 26 00-0169			Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170	EA		Relocate Temporary 4' High Chain Link Vehicle Gate And Posts	102.52	
01 56 26 00-0171	EA		Relocate Temporary 6' High Chain Link Vehicle Gate And Posts	118.30	
01 56 26 00-0172	EA		Relocate Temporary 8' High Chain Link Vehicle Gate And Posts	145.90	
01 56 26 00-0173	EA		Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	157.74	
01 56 26 00-0174			Temporary Fence, Environmentally Sensitive Area (Type ESA) (01 56 26) Note: Includes removal after use.		
01 56 26 00-0175	LF		3' High Temporary Fence (Type ESA), High Visibility Fabric	2.74	
01 56 26 00-0176			Temporary Safety Fence (01 56 26) Note: Includes removal after use.		
01 56 26 00-0177	LF		48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	3.22	
01 56 29			Temporary Protective Walkways (01 56)		
01 56 29 00-0001			Safety Nets (01 56 29) Note: Includes removal after use.		
01 56 29 00-0002	SF		Small Mesh Debris Netting	1.87	
			Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
01 56 33			Temporary Security Barriers (01 56)		
01 56 33 00-0001			Temporary Pedestrian Barricade (01 56 33) Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0002	DAY		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental	11.34	
01 56 33 00-0003	WK		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental	27.55	
01 56 33 00-0004	MO		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental	82.64	
01 56 39			Temporary Tree and Plant Protection (01 56)		
01 56 39 00-0001			Temporary Tree Guards (01 56 39) Note: Includes digging holes and removal after use.		
01 56 39 00-0002	EA		Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	169.30	
01 56 39 00-0003	EA		4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	200.09	
01 56 39 00-0004	EA		6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail	217.33	
01 57			Temporary Controls (01 50)		
01 57 13			Temporary Erosion and Sediment Control (01 57) See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.		
01 57 23			Temporary Storm Water Pollution Control (01 57) See CSI section 31 25 00 00-0000 for temporary storm water pollution control.		
01 57 23 00-0001			Temporary Drain Guard (01 57 23) Note: Includes removal after use.		
01 57 23 00-0002	EA		36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227)	90.58	
01 57 23 00-0003	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217)	88.91	
			Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219)	112.39	
			Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356)	110.70	
			Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358)	135.86	
			Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 58 Project Identification (01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage (01 58)

01 58 13 00-0001	Project Sign	(01 58 13)		
01 58 13 00-0002	MDO Plywood Signs	(01 58 13 00-0001)		
	Note: Excludes posts.			
01 58 13 00-0003	Reflectorized, MDO Plywood Signs	(01 58 13 00-0002)		
01 58 13 00-0004	Engineer Grade, Reflectorized, MDO Plywood Signs	(01 58 13 00-0003)		
01 58 13 00-0005	EA Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	.....	143.78	21.70
	For High-Intensity Grade, Add		35.14	
	For Diamond Grade, Add		67.77	
01 58 13 00-0006	EA >8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	.....	246.16	22.68
	For High-Intensity Grade, Add		70.28	
	For Diamond Grade, Add		135.55	
01 58 13 00-0007	EA >16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	.....	348.54	23.66
	For High-Intensity Grade, Add		105.42	
	For Diamond Grade, Add		203.32	
01 58 13 00-0008	EA >24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	.....	450.92	24.65
	For High-Intensity Grade, Add		140.57	
	For Diamond Grade, Add		271.09	
01 58 13 00-0009	SF >32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	.....	14.13	0.79
	For High-Intensity Grade, Add		4.39	
	For Diamond Grade, Add		8.47	
01 58 13 00-0010	Non-Reflectorized, MDO Plywood Signs	(01 58 13 00-0002)		
01 58 13 00-0011	One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs	(01 58 13 00-0010)		
01 58 13 00-0012	EA Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	.....	179.60	21.70
01 58 13 00-0013	EA >8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	.....	214.08	22.68
01 58 13 00-0014	EA >16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	.....	267.92	23.66
01 58 13 00-0015	EA >24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	.....	318.74	24.65
01 58 13 00-0016	SF >32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	.....	10.00	0.79
01 58 13 00-0017	Full Color Design, Non-Reflectorized, MDO Plywood Signs	(01 58 13 00-0010)		
01 58 13 00-0018	EA Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	.....	183.44	21.70
01 58 13 00-0019	EA >8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	.....	234.76	22.68
01 58 13 00-0020	EA >16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	.....	288.93	23.66
01 58 13 00-0021	EA >24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	.....	336.75	24.65
01 58 13 00-0022	SF >32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	.....	10.56	0.79
01 58 13 00-0023	Fabricate And Install New Posts	(01 58 13 00-0001)		
	Note: Includes excavation, backfill and compaction. Excludes core drilling.			
01 58 13 00-0024	LF Galvanized Metal Channel Sign Posts	.....	14.79	
01 58 13 00-0025	LF 4" x 4" Pressure Treated Wood Sign Posts	.....	12.60	
01 58 13 00-0026	LF 4" x 6" Pressure Treated Wood Sign Posts	.....	14.95	
01 58 13 00-0027	Owner Supplied Signs	(01 58 13 00-0001)		
01 58 13 00-0028	EA Installation And Removal Of Owner Supplied Project Sign	.....	78.87	

01 60 Product Requirements (01)**01 66 Product Storage and Handling Requirements** (01 60)**01 66 19 Product Handling Requirements** (01 66)

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

01 66 19 00-0001	Transfer Delivered Materials Distances Greater Than 125'	(01 66 19)		
	Note: For moving delivered, owner supplied or existing materials in a building.			
01 66 19 00-0002	CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	.....	6.16	

01 70 Execution and Closeout Requirements (01)**01 71 Examination and Preparation** (01 70)**01 71 13 Mobilization** (01 71)

01 71 13 00-0001	Equipment Delivery, Pickup, Mobilization And Demobilization	(01 71 13)		
	Note: Excludes flagman for traffic control where necessary.			



General Requirements		01	10
Execution and Closeout Requirements		01 70	
Examination and Preparation		01 71	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0002	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.	283.40	
01 71 13 00-0003	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed..... Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.	958.44	
01 71 13 00-0004		Crane Delivery, Pickup, Mobilization And Demobilization (01 71 13) Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.		
01 71 13 00-0005	EA	Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane..... Note: Includes delivery and pickup.	453.43	
		For >30 To 60 Miles Radius, Add	113.36	
		For >60 To 100 Miles Radius, Add	181.37	
01 71 13 00-0006	EA	>20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	736.83	
		For >30 To 60 Miles Radius, Add	184.21	
		For >60 To 100 Miles Radius, Add	294.73	
01 71 13 00-0007	EA	>40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	1,020.23	
		For >30 To 60 Miles Radius, Add	255.06	
		For >60 To 100 Miles Radius, Add	408.09	
01 71 13 00-0008	EA	>70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	1,643.71	
		For >30 To 60 Miles Radius, Add	410.93	
		For >60 To 100 Miles Radius, Add	657.48	
01 71 13 00-0009	EA	>110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	2,063.15	
		For >30 To 60 Miles Radius, Add	515.79	
		For >60 To 100 Miles Radius, Add	825.26	
01 71 13 00-0010	EA	>125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	2,567.59	
		For >30 To 60 Miles Radius, Add	641.90	
		For >60 To 100 Miles Radius, Add	1,027.04	
01 71 13 00-0011	EA	>150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	2,958.69	
		For >30 To 60 Miles Radius, Add	739.67	
		For >60 To 100 Miles Radius, Add	1,183.48	
01 71 13 00-0012	EA	>185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup.	3,310.11	
		For >30 To 60 Miles Radius, Add	827.53	
		For >60 To 100 Miles Radius, Add	1,324.04	
01 71 13 00-0013	EA	75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane..... Note: Includes delivery, rigging and pickup.	1,757.08	
		For >30 To 60 Miles Radius, Add	439.27	
		For >60 To 100 Miles Radius, Add	702.83	
01 71 13 00-0014	EA	100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane..... Note: Includes delivery, rigging and pickup.	2,777.31	
		For >30 To 60 Miles Radius, Add	694.33	
		For >60 To 100 Miles Radius, Add	1,110.92	
01 71 13 00-0015	EA	125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane..... Note: Includes delivery, rigging and pickup.	3,514.15	
		For >30 To 60 Miles Radius, Add	878.54	
		For >60 To 100 Miles Radius, Add	1,405.66	
01 71 13 00-0016	EA	150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane..... Note: Includes delivery, rigging and pickup.	4,364.35	
		For >30 To 60 Miles Radius, Add	1,091.09	
		For >60 To 100 Miles Radius, Add	1,745.74	
01 71 13 00-0017	EA	200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane..... Note: Includes delivery, rigging and pickup.	5,441.27	
		For >30 To 60 Miles Radius, Add	1,360.32	
		For >60 To 100 Miles Radius, Add	2,176.51	
01 71 13 00-0018	EA	250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane..... Note: Includes delivery, rigging and pickup.	6,348.15	
		For >30 To 60 Miles Radius, Add	1,587.04	
		For >60 To 100 Miles Radius, Add	2,539.26	
01 71 13 00-0019	EA	300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane..... Note: Includes delivery, rigging and pickup.	9,068.78	
		For >30 To 60 Miles Radius, Add	2,267.20	
		For >60 To 100 Miles Radius, Add	3,627.51	
01 71 13 00-0020	EA	500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane..... Note: Includes delivery, rigging and pickup.	12,435.56	
		For >30 To 60 Miles Radius, Add	3,108.89	
		For >60 To 100 Miles Radius, Add	4,974.22	

- 01 71 23 Field Engineering** (01 71)
01 71 23 16 Construction Surveying (01 71 23)

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0001		Conventional Topographic Survey (01 71 23 16) Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.		
01 71 23 16-0002	ACR	Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....	1,080.36	
01 71 23 16-0003	ACR	Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....	3,031.29	
01 71 23 16-0004	ACR	Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings).....	4,352.55	
01 71 23 16-0005	ACR	Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....	6,549.11	
01 71 23 16-0006	ACR	Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings).....	8,200.80	
01 71 23 16-0007		Property Lines Survey (01 71 23 16) Note: Not to be added to tasks in the "Conventional Topographic Survey" section.		
01 71 23 16-0008	LF	Survey Property Lines On Cleared Land.....	2.43	
01 71 23 16-0009	LF	Survey Property Lines On Slightly Wooded Land.....	2.82	
01 71 23 16-0010	LF	Survey Property Lines On Wooded Land.....	3.30	
01 71 23 16-0011		Survey Monument (01 71 23 16)		
01 71 23 16-0012	EA	3' Precast Survey Monument.....	167.11	
		<i>For Owner Furnished Monument, Deduct</i>	-68.73	
01 71 23 16-0013	EA	Precast Survey Monument Box With Cast Iron Frame And Cover.....	249.55	
01 71 23 16-0014	EA	Riser Ring For Survey Monument.....	128.11	
01 71 23 16-0015	EA	Adjust Survey Monument Cover To Grade.....	206.22	
01 71 23 16-0016	EA	Adjust Existing Monument Box Cover To Grade.....	55.00	
01 71 23 16-0017		Facade Surveying (01 71 23 16)		
01 71 23 16-0018	LF	Facade Survey And Reports (LF Of Facade x Number Of Floors).....	6.68	
01 71 23 16-0019		Utility Survey (01 71 23 16) Note: This survey is only for the location of underground utilities.		
01 71 23 16-0020	ACR	Survey Clear Area For Underground Utilities.....	5,602.39	
01 74		Cleaning and Waste Management (01 74)		
01 74 16		Site Maintenance (01 74)		
01 74 16 00-0001		Parking Lot, Roads And Pathway Maintenance (01 74 16) Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002		Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)		
01 74 16 00-0003	MSF	Sweep Parking Lot, With Street Sweeper.....	19.86	
01 74 16 00-0004	MSF	Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	23.82	
01 74 16 00-0005		Runway Sweeping (01 74 16 00-0001)		
01 74 16 00-0006	MSF	Sweep Runway, With Street Sweep.....	29.79	
01 74 19		Construction Waste Management and Disposal (01 74) Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001		Construction Dumpsters Rental (01 74 19) Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0002	EA	10 CY Dumpster (1.5 Ton) "Construction Debris".....	585.00	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0003	EA	15 CY Dumpster (2 Ton) "Construction Debris".....	584.98	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0004	EA	20 CY Dumpster (3 Ton) "Construction Debris".....	635.00	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0005	EA	30 CY Dumpster (4 Ton) "Construction Debris".....	684.98	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0006	EA	40 CY Dumpster (4.5 Ton) "Construction Debris".....	765.00	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00	
01 74 19 00-0007	EA	10 CY Low-Boy Dumpster "Concrete Or Asphalt Only".....	765.00	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0008	EA		15 CY Low-Boy Dumpster Clean Recyclable..... Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	732.21	
01 74 19 00-0009	EA		15 CY Low-Boy Dumpster Mixed Recyclable Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	786.85	
01 74 19 00-0010			Concrete Washout Service (01 74 19)		
01 74 19 00-0011	MO		Rampless Concrete Washout Bin Note: Includes delivery.	546.47	
01 74 19 00-0012	MO		Ramped Concrete Washout Bin Note: Includes delivery.	655.77	
01 74 19 00-0013	EA		Interim Vacuum Service, Concrete Washout Bin Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.	502.05	
01 74 19 00-0014	EA		Vacuum, Pickup, Swap And Dump, Concrete Washout Bin Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.	1,087.78	
01 74 19 00-0015			Debris Processing Fee (01 74 19)		
01 74 19 00-0016			Material Recycling Fees (01 74 19 00-0015) Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0017	CY		Drop-Off Asphalt At Recycling Center	45.04	
01 74 19 00-0018	CY		Drop-Off Non Reinforced Concrete At Recycling Center	60.34	
01 74 19 00-0019	CY		Drop-Off Reinforced Concrete At Recycling Center.....	90.52	
01 74 19 00-0020	CY		Drop-Off Brick Or Block At Recycling Center.....	78.45	
01 74 19 00-0021	CY		Drop-Off Dirt At Recycling Center.....	87.50	
01 74 19 00-0022	CY		Drop-Off Dimensional Lumber At Recycling Center.....	84.48	
01 74 19 00-0023			Landfill Dump Fees (01 74 19 00-0015) Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling.		
01 74 19 00-0024	CY		Traditional Building Construction Materials Landfill Dump Fee.....	40.16	
01 74 19 00-0025	TON		Traditional Building Construction Materials, Landfill Dump Fee.....	175.00	
01 74 19 00-0026	CY		Trees, Stumps And Brush, Landfill Dump Fee.....	48.34	
01 74 19 00-0027	CY		Hazardous Materials And Rubbish Landfill Dump Fee Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.	115.26	
01 74 19 00-0028	CY		Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	81.90	
01 74 19 00-0029			Hauling (01 74 19) Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0030	CYM		Hauling On Paved Roads, First 15 Miles	0.92	
01 74 19 00-0031	CYM		Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.61	
01 74 19 00-0032	CYM		Hauling On Unimproved Roads, First 15 Miles	1.41	
01 74 19 00-0033	CYM		Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.10	

END OF SECTION 01

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



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Existing Conditions		02
Subsurface Investigation		02 30
Geotechnical Investigations		02 32

02

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 Existing Conditions

02 30 Subsurface Investigation⁽⁰²⁾

02 32 Geotechnical Investigations^(02 30)

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

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

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

02 32 13 00-0002 EA Mobilization Of Drilling Crew.....1,088.50

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

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 32.78

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

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples.....81.12

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 138.69

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

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing.....86.20

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 7.99

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

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 111.35

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 9.20

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

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

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

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation.....61.79

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 72.08

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation.....96.10

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

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation.....175.26

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation.....315.47

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

02 32 13 00-0023 EA Shelby Tube Sampling.....43.85

02 32 13 00-0024 EA Penetration Test 35.73

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

02 32 13 00-0026 VLF Boreholes.....8.31

02 32 19 Exploratory Excavations^(02 32)

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

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization 161.62

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge 646.48

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

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck).....35.91

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

02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....57.46

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

02 40 Demolition and Structure Moving⁽⁰²⁾

02 41 Demolition^(02 40)

02 41 13 Selective Site Demolition^(02 41)

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

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

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

Paving^(02 41 13 13)

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

02 41 13 13-0002	SY Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	6.55
	For >500 To 1,000, Deduct	-0.66
	For >1,000 To 2,500, Deduct	-1.18
	For >2,500 To 5,000, Deduct	-1.70
	For >5,000 To 10,000, Deduct	-2.23
	For >10,000, Deduct	-2.75
02 41 13 13-0003	SY >3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	9.83
	For >500 To 1,000, Deduct	-0.98
	For >1,000 To 2,500, Deduct	-1.77
	For >2,500 To 5,000, Deduct	-2.56
	For >5,000 To 10,000, Deduct	-3.34
	For >10,000, Deduct	-4.13
02 41 13 13-0004	SY >6" To 8" By Machine, Break-up And Leave In Place Bituminous Paving	13.09
	For >500 To 1,000, Deduct	-1.31
	For >1,000 To 2,500, Deduct	-2.36
	For >2,500 To 5,000, Deduct	-3.40
	For >5,000 To 10,000, Deduct	-4.45
	For >10,000, Deduct	-5.50
02 41 13 13-0005	SY Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	13.02
	For >500 To 1,000, Deduct	-1.30
	For >1,000 To 2,500, Deduct	-2.34
	For >2,500 To 5,000, Deduct	-3.39
	For >5,000 To 10,000, Deduct	-4.43
	For >10,000, Deduct	-5.47
02 41 13 13-0006	SY >3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	18.39
	For >500 To 1,000, Deduct	-1.84
	For >1,000 To 2,500, Deduct	-3.31
	For >2,500 To 5,000, Deduct	-4.78
	For >5,000 To 10,000, Deduct	-6.25
	For >10,000, Deduct	-7.72
02 41 13 13-0007	SY >6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	26.04
	For >500 To 1,000, Deduct	-2.60
	For >1,000 To 2,500, Deduct	-4.69
	For >2,500 To 5,000, Deduct	-6.77
	For >5,000 To 10,000, Deduct	-8.85
	For >10,000, Deduct	-10.94
02 41 13 13-0008	SY >9" To 14" By Machine, Break-up And Leave In Place Concrete Paving	36.77
	For >500 To 1,000, Deduct	-3.68
	For >1,000 To 2,500, Deduct	-6.62
	For >2,500 To 5,000, Deduct	-9.56
	For >5,000 To 10,000, Deduct	-12.50
	For >10,000, Deduct	-15.44
02 41 13 13-0009	SY >14" To 19" By Machine, Break-up And Leave In Place Concrete Paving	48.09
	For >500 To 1,000, Deduct	-4.81
	For >1,000 To 2,500, Deduct	-8.66
	For >2,500 To 5,000, Deduct	-12.50
	For >5,000 To 10,000, Deduct	-16.35
	For >10,000, Deduct	-20.20
02 41 13 13-0010	SY >19" To 24" By Machine, Break-up And Leave In Place Concrete Paving	62.52
	For >500 To 1,000, Deduct	-6.25
	For >1,000 To 2,500, Deduct	-11.25
	For >2,500 To 5,000, Deduct	-16.26
	For >5,000 To 10,000, Deduct	-21.26
	For >10,000, Deduct	-26.26

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

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

02 41 13 13-0012	SF Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.59
02 41 13 13-0013	SF >3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	2.01
02 41 13 13-0014	SF >6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving	2.66
02 41 13 13-0015	SF Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	1.99
02 41 13 13-0016	SF >3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	2.53
02 41 13 13-0017	SF >6" To 8" By Hand, Break-up And Leave In Place Concrete Paving	3.33

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

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



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0019	SY		Up To 3" By Machine, Break-up And Remove Bituminous Paving	14.54	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.36	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	7.27	
			For >500 To 1,000, Deduct	-1.45	
			For >1,000 To 2,500, Deduct	-2.62	
			For >2,500 To 5,000, Deduct	-3.78	
			For >5,000 To 10,000, Deduct	-4.94	
			For >10,000, Deduct	-6.11	
02 41 13 13-0020	SY		>3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	19.85	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.96	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	9.93	
			For >500 To 1,000, Deduct	-1.99	
			For >1,000 To 2,500, Deduct	-3.57	
			For >2,500 To 5,000, Deduct	-5.16	
			For >5,000 To 10,000, Deduct	-6.75	
			For >10,000, Deduct	-8.34	
02 41 13 13-0021	SY		Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	16.72	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.02	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	8.36	
			For >500 To 1,000, Deduct	-1.67	
			For >1,000 To 2,500, Deduct	-3.01	
			For >2,500 To 5,000, Deduct	-4.35	
			For >5,000 To 10,000, Deduct	-5.68	
			For >10,000, Deduct	-7.02	
02 41 13 13-0022	SY		>3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	21.88	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.56	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	10.94	
			For >500 To 1,000, Deduct	-2.19	
			For >1,000 To 2,500, Deduct	-3.94	
			For >2,500 To 5,000, Deduct	-5.69	
			For >5,000 To 10,000, Deduct	-7.44	
			For >10,000, Deduct	-9.19	
02 41 13 13-0023	SY		Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	22.19	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.66	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	11.10	
			For >500 To 1,000, Deduct	-2.22	
			For >1,000 To 2,500, Deduct	-3.99	
			For >2,500 To 5,000, Deduct	-5.77	
			For >5,000 To 10,000, Deduct	-7.54	
			For >10,000, Deduct	-9.32	
02 41 13 13-0024	SY		>3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	28.75	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	8.63	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	14.38	
			For >500 To 1,000, Deduct	-2.88	
			For >1,000 To 2,500, Deduct	-5.18	
			For >2,500 To 5,000, Deduct	-7.48	
			For >5,000 To 10,000, Deduct	-9.78	
			For >10,000, Deduct	-12.08	
02 41 13 13-0025	SY		>6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	47.66	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	14.30	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	23.83	
			For >500 To 1,000, Deduct	-4.77	
			For >1,000 To 2,500, Deduct	-8.58	
			For >2,500 To 5,000, Deduct	-12.39	
			For >5,000 To 10,000, Deduct	-16.20	
			For >10,000, Deduct	-20.02	
02 41 13 13-0026	SY		Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	24.07	
			For Elevated Slab, Add	12.04	
			For >500 To 1,000, Deduct	-2.41	
			For >1,000 To 2,500, Deduct	-4.33	
			For >2,500 To 5,000, Deduct	-6.26	
			For >5,000 To 10,000, Deduct	-8.18	
			For >10,000, Deduct	-10.11	
02 41 13 13-0027	SY		>3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	30.95	
			For Elevated Slab, Add	15.48	
			For >500 To 1,000, Deduct	-3.10	
			For >1,000 To 2,500, Deduct	-5.57	
			For >2,500 To 5,000, Deduct	-8.05	
			For >5,000 To 10,000, Deduct	-10.52	
			For >10,000, Deduct	-13.00	
02 41 13 13-0028	SY		>6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	55.33	
			For Elevated Slab, Add	27.67	
			For >500 To 1,000, Deduct	-5.53	
			For >1,000 To 2,500, Deduct	-9.96	
			For >2,500 To 5,000, Deduct	-14.39	
			For >5,000 To 10,000, Deduct	-18.81	
			For >10,000, Deduct	-23.24	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0029 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	72.20	
For Elevated Slab, Add	36.10	
For >500 To 1,000, Deduct	-7.22	
For >1,000 To 2,500, Deduct	-13.00	
For >2,500 To 5,000, Deduct	-18.77	
For >5,000 To 10,000, Deduct	-24.55	
For >10,000, Deduct	-30.32	
02 41 13 13-0030 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	94.39	
For Elevated Slab, Add	47.20	
For >500 To 1,000, Deduct	-9.44	
For >1,000 To 2,500, Deduct	-16.99	
For >2,500 To 5,000, Deduct	-24.54	
For >5,000 To 10,000, Deduct	-32.09	
For >10,000, Deduct	-39.64	
02 41 13 13-0031 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	114.56	
For Elevated Slab, Add	57.28	
For >500 To 1,000, Deduct	-11.46	
For >1,000 To 2,500, Deduct	-20.62	
For >2,500 To 5,000, Deduct	-29.79	
For >5,000 To 10,000, Deduct	-38.95	
For >10,000, Deduct	-48.12	
02 41 13 13-0032 By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13)		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Bituminous Paving.....	3.55	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Bituminous Paving.....	4.67	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	6.07	
02 41 13 13-0036 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	4.43	
02 41 13 13-0037 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	6.12	
02 41 13 13-0038 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving.....	7.83	
02 41 13 13-0039 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	6.21	
02 41 13 13-0040 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	8.56	
02 41 13 13-0041 SF >6" To 8" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	10.97	
02 41 13 13-0042 Grind Concrete (02 41 13 13)		
02 41 13 13-0043 EA Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard).....	230.71	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	34.61	
For >1" To 1-1/2" Depth Of Grinding, Add	57.68	
For Up To 5, Add	46.14	
For >5 To 10, Add	23.07	
For >25 To 50, Deduct	-23.07	
For >50 To 250, Deduct	-34.61	
For >250, Deduct	-46.14	
For Sidewalks >5', Add	23.07	
For Up To 12" Additional Feathering Per Side, Add	23.07	
02 41 13 15 Hydro Demolition (02 41 13)		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement (02 41 13 15)		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	6.98	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	8.72	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	11.66	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	23.21	
02 41 16 Structure Demolition (02 41)		
02 41 16 13 Building Demolition (02 41 16)		
02 41 16 13-0001 Foundation Demolition (02 41 16 13)		
Note: Excludes earthwork.		
02 41 16 13-0002 Concrete Foundation Demolition (02 41 16 13-0001)		
02 41 16 13-0003 CF Non Reinforced Concrete Foundation Demolition.....	13.43	
For >135 To 405, Deduct	-1.18	
For >405 To 810, Deduct	-2.35	
For >810 To 2025, Deduct	-3.36	
For >2025, Deduct	-5.37	
02 41 16 13-0004 CF Reinforced Concrete Foundation Demolition.....	16.12	
For >135 To 405, Deduct	-1.41	
For >405 To 810, Deduct	-2.82	
For >810 To 2025, Deduct	-4.03	
For >2025, Deduct	-6.45	
02 41 16 13-0005 Concrete Foundation Wall Demolition (02 41 16 13-0001)		



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0006	SF		4" Thick Non Reinforced Concrete Foundation Wall Demolition.....	5.75	
			For >500 To 2,000, Deduct	-0.43	
			For >2,000 To 6,000, Deduct	-1.15	
			For >6,000 To 8,000, Deduct	-2.01	
			For >8,000, Deduct	-3.16	
02 41 16 13-0007	SF		6" Thick Non Reinforced Concrete Foundation Wall Demolition.....	7.68	
			For >500 To 2,000, Deduct	-0.58	
			For >2,000 To 6,000, Deduct	-1.54	
			For >6,000 To 8,000, Deduct	-2.69	
			For >8,000, Deduct	-4.22	
02 41 16 13-0008	SF		8" Thick Non Reinforced Concrete Foundation Wall Demolition.....	9.59	
			For >500 To 2,000, Deduct	-0.72	
			For >2,000 To 6,000, Deduct	-1.92	
			For >6,000 To 8,000, Deduct	-3.36	
			For >8,000, Deduct	-5.27	
02 41 16 13-0009	SF		10" Thick Non Reinforced Concrete Foundation Wall Demolition.....	11.51	
			For >500 To 2,000, Deduct	-0.86	
			For >2,000 To 6,000, Deduct	-2.30	
			For >6,000 To 8,000, Deduct	-4.03	
			For >8,000, Deduct	-6.33	
02 41 16 13-0010	SF		12" Thick Non Reinforced Concrete Foundation Wall Demolition.....	13.43	
			For >500 To 2,000, Deduct	-1.01	
			For >2,000 To 6,000, Deduct	-2.69	
			For >6,000 To 8,000, Deduct	-4.70	
			For >8,000, Deduct	-7.39	
02 41 16 13-0011	SF		16" Thick Non Reinforced Concrete Foundation Wall Demolition.....	15.35	
			For >500 To 2,000, Deduct	-1.15	
			For >2,000 To 6,000, Deduct	-3.07	
			For >6,000 To 8,000, Deduct	-5.37	
			For >8,000, Deduct	-8.44	
02 41 16 13-0012	SF		4" Thick Reinforced Concrete Foundation Wall Demolition	6.91	
			For >500 To 2,000, Deduct	-0.52	
			For >2,000 To 6,000, Deduct	-1.38	
			For >6,000 To 8,000, Deduct	-2.42	
			For >8,000, Deduct	-3.80	
02 41 16 13-0013	SF		6" Thick Reinforced Concrete Foundation Wall Demolition	9.21	
			For >500 To 2,000, Deduct	-0.69	
			For >2,000 To 6,000, Deduct	-1.84	
			For >6,000 To 8,000, Deduct	-3.22	
			For >8,000, Deduct	-5.07	
02 41 16 13-0014	SF		8" Thick Reinforced Concrete Foundation Wall Demolition	11.51	
			For >500 To 2,000, Deduct	-0.86	
			For >2,000 To 6,000, Deduct	-2.30	
			For >6,000 To 8,000, Deduct	-4.03	
			For >8,000, Deduct	-6.33	
02 41 16 13-0015	SF		10" Thick Reinforced Concrete Foundation Wall Demolition	13.63	
			For >500 To 2,000, Deduct	-1.02	
			For >2,000 To 6,000, Deduct	-2.73	
			For >6,000 To 8,000, Deduct	-4.77	
			For >8,000, Deduct	-7.50	
02 41 16 13-0016	SF		12" Thick Reinforced Concrete Foundation Wall Demolition	16.12	
			For >500 To 2,000, Deduct	-1.21	
			For >2,000 To 6,000, Deduct	-3.22	
			For >6,000 To 8,000, Deduct	-5.64	
			For >8,000, Deduct	-8.87	
02 41 16 13-0017	SF		16" Thick Reinforced Concrete Foundation Wall Demolition	18.42	
			For >500 To 2,000, Deduct	-1.38	
			For >2,000 To 6,000, Deduct	-3.68	
			For >6,000 To 8,000, Deduct	-6.45	
			For >8,000, Deduct	-10.13	
02 41 16 13-0018			Concrete Block Foundation Wall Demolition (02 41 16 13-0001)		
02 41 16 13-0019	SF		4" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.22	
			For >500 To 2,000, Deduct	-0.32	
			For >2,000 To 6,000, Deduct	-0.84	
			For >6,000 To 8,000, Deduct	-1.48	
			For >8,000, Deduct	-2.32	
02 41 16 13-0020	SF		6" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.51	
			For >500 To 2,000, Deduct	-0.34	
			For >2,000 To 6,000, Deduct	-0.90	
			For >6,000 To 8,000, Deduct	-1.58	
			For >8,000, Deduct	-2.48	
02 41 16 13-0021	SF		8" Thick Non Reinforced Concrete Block Foundation Wall Demolition	5.09	
			For >500 To 2,000, Deduct	-0.38	
			For >2,000 To 6,000, Deduct	-1.02	
			For >6,000 To 8,000, Deduct	-1.78	
			For >8,000, Deduct	-2.80	
02 41 16 13-0022	SF		10" Thick Non Reinforced Concrete Block Foundation Wall Demolition	5.85	
			For >500 To 2,000, Deduct	-0.44	
			For >2,000 To 6,000, Deduct	-1.17	
			For >6,000 To 8,000, Deduct	-2.05	
			For >8,000, Deduct	-3.22	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0023 SF 12" Thick Non Reinforced Concrete Block Foundation Wall Demolition	6.53	
For >500 To 2,000, Deduct	-0.49	
For >2,000 To 6,000, Deduct	-1.31	
For >6,000 To 8,000, Deduct	-2.29	
For >8,000, Deduct	-3.59	
02 41 16 13-0024 SF 16" Thick Non Reinforced Concrete Block Foundation Wall Demolition	8.16	
For >500 To 2,000, Deduct	-0.61	
For >2,000 To 6,000, Deduct	-1.63	
For >6,000 To 8,000, Deduct	-2.86	
For >8,000, Deduct	-4.49	
02 41 16 13-0025 SF 4" Thick Reinforced Concrete Block Foundation Wall Demolition	5.06	
For >500 To 2,000, Deduct	-0.38	
For >2,000 To 6,000, Deduct	-1.01	
For >6,000 To 8,000, Deduct	-1.77	
For >8,000, Deduct	-2.78	
02 41 16 13-0026 SF 6" Thick Reinforced Concrete Block Foundation Wall Demolition	5.41	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.08	
For >6,000 To 8,000, Deduct	-1.89	
For >8,000, Deduct	-2.98	
02 41 16 13-0027 SF 8" Thick Reinforced Concrete Block Foundation Wall Demolition	6.10	
For >500 To 2,000, Deduct	-0.46	
For >2,000 To 6,000, Deduct	-1.22	
For >6,000 To 8,000, Deduct	-2.14	
For >8,000, Deduct	-3.36	
02 41 16 13-0028 SF 10" Thick Reinforced Concrete Block Foundation Wall Demolition	7.02	
For >500 To 2,000, Deduct	-0.53	
For >2,000 To 6,000, Deduct	-1.40	
For >6,000 To 8,000, Deduct	-2.46	
For >8,000, Deduct	-3.86	
02 41 16 13-0029 SF 12" Thick Reinforced Concrete Block Foundation Wall Demolition	7.83	
For >500 To 2,000, Deduct	-0.59	
For >2,000 To 6,000, Deduct	-1.57	
For >6,000 To 8,000, Deduct	-2.74	
For >8,000, Deduct	-4.31	
02 41 16 13-0030 SF 16" Thick Reinforced Concrete Block Foundation Wall Demolition	9.79	
For >500 To 2,000, Deduct	-0.73	
For >2,000 To 6,000, Deduct	-1.96	
For >6,000 To 8,000, Deduct	-3.43	
For >8,000, Deduct	-5.38	
02 41 16 13-0031 Brick Foundation Wall Demolition (02 41 16 13-0001)		
02 41 16 13-0032 SF 4" Thick Brick Foundation Wall Demolition	4.22	
For >500 To 2,000, Deduct	-0.32	
For >2,000 To 6,000, Deduct	-0.84	
For >6,000 To 8,000, Deduct	-1.48	
For >8,000, Deduct	-2.32	
02 41 16 13-0033 SF 6" Thick Brick Foundation Wall Demolition	4.51	
For >500 To 2,000, Deduct	-0.34	
For >2,000 To 6,000, Deduct	-0.90	
For >6,000 To 8,000, Deduct	-1.58	
For >8,000, Deduct	-2.48	
02 41 16 13-0034 SF 8" Thick Brick Foundation Wall Demolition	5.09	
For >500 To 2,000, Deduct	-0.38	
For >2,000 To 6,000, Deduct	-1.02	
For >6,000 To 8,000, Deduct	-1.78	
For >8,000, Deduct	-2.80	
02 41 16 13-0035 SF 10" Thick Brick Foundation Wall Demolition	5.85	
For >500 To 2,000, Deduct	-0.44	
For >2,000 To 6,000, Deduct	-1.17	
For >6,000 To 8,000, Deduct	-2.05	
For >8,000, Deduct	-3.22	
02 41 16 13-0036 SF 12" Thick Brick Foundation Wall Demolition	6.53	
For >500 To 2,000, Deduct	-0.49	
For >2,000 To 6,000, Deduct	-1.31	
For >6,000 To 8,000, Deduct	-2.29	
For >8,000, Deduct	-3.59	
02 41 16 13-0037 SF 16" Thick Brick Foundation Wall Demolition	8.16	
For >500 To 2,000, Deduct	-0.61	
For >2,000 To 6,000, Deduct	-1.63	
For >6,000 To 8,000, Deduct	-2.86	
For >8,000, Deduct	-4.49	
02 41 16 13-0038 Stone Foundation Demolition (02 41 16 13-0001)		
02 41 16 13-0039 CF Stone Footing Or Foundation Wall Demolition	13.43	
For >135 To 405, Deduct	-1.18	
For >405 To 810, Deduct	-2.35	
For >810 To 2025, Deduct	-3.36	
For >2025, Deduct	-5.37	
02 41 16 13-0040 Other Foundation Demolition (02 41 16 13-0001)		



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0041 CF Concrete Footing For Fence, Gate Or Playground Equipment Post, Etc. Demolition.....14.04 Note: Includes excavation. For >135 To 405, Deduct -1.23 For >405 To 810, Deduct -2.46 For >810 To 2025, Deduct -3.51 For >2025, Deduct -5.62		
02 41 19 Selective Demolition (02 41)		
02 41 19 13 Selective Building Demolition (02 41 19)		
02 41 19 13-0001 Saw Cutting (02 41 19 13) Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0002 LF Bituminous Paving Up To 4" Depth, Saw Cut 2.01 For Each Additional Pass (Depth To 3"), Add 0.78 For >250, Deduct -0.19		
02 41 19 13-0003 LF Saw Cut Bituminous Paving Up To 6" Depth 2.81 For >250, Deduct -0.27		
02 41 19 13-0004 LF Brick Masonry Up To 4" Depth, Saw Cut 7.67 For Each Additional Pass (Depth To 3"), Add 3.04 For >250, Deduct -0.76		
02 41 19 13-0005 LF Concrete Block Up To 4" Depth, Saw Cut 6.93 For Each Additional Pass (Depth To 3"), Add 2.75 For >250, Deduct -0.68		
02 41 19 13-0006 LF Non Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut 2.31 For Each Additional Pass (Depth To 3"), Add 0.89 For >250, Deduct -0.22		
02 41 19 13-0007 LF Saw Cut Concrete Slab Or Paving Up To 6" Depth 3.21 For >250, Deduct -0.31		
02 41 19 13-0008 LF Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut 3.05 For Each Additional Pass (Depth To 3"), Add 1.18 For >250, Deduct -0.29		
02 41 19 13-0009 LF Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut 5.07 For Each Additional Pass (Depth To 3"), Add 1.99 For >250, Deduct -0.49		
02 41 19 13-0010 LF Plain Concrete Walls Up To 4" Depth, Saw Cut 9.82 For Each Additional Pass (Depth To 3"), Add 3.90 For >250, Deduct -0.97		
02 41 19 13-0011 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....13.19 For Each Additional Pass (Depth To 3"), Add 5.24 For >250, Deduct -1.31		
02 41 19 13-0012 LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets.....2.64 For Each Additional Pass (Depth To 3"), Add 0.96 For >250, Deduct -0.23		
02 41 19 13-0013 LF Igneous Stone Pavements Up To 4" Depth, Saw Cut.....6.95 For Each Additional Pass (Depth To 3"), Add 2.75 For >250, Deduct -0.69		
02 41 19 13-0014 LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut 6.95 For Each Additional Pass (Depth To 3"), Add 2.75 For >250, Deduct -0.69		
02 41 19 13-0015 LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut.....6.95 For Each Additional Pass (Depth To 3"), Add 2.75 For >250, Deduct -0.69		
02 41 19 13-0016 LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut 6.95 For Each Additional Pass (Depth To 3"), Add 2.75 For >250, Deduct -0.69		
02 41 19 13-0017 EA Saw Cut Minimum Charge 942.20 Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0018 Torch Cutting (02 41 19 13) Note: Includes grinding edge		
02 41 19 13-0019 LF Up To 1/2", Torch Cut Steel Plate.....2.89		
02 41 19 13-0020 LF >1/2" To 1" Thick, Torch Cut Steel Plate 5.76		
02 41 19 13-0021 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate 8.65		
02 41 19 13-0022 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate 11.54		
02 41 19 13-0023 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate 14.42		
02 41 19 13-0024 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate 17.30		
02 41 19 13-0025 EA Torch Cutting Minimum Charge.....912.11 Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0026 Drilling In Existing Materials (02 41 19 13) Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0027 Concrete Core Drilling (02 41 19 13-0026)		
02 41 19 13-0028 Up To 4" Thick Concrete Core Drilling (02 41 19 13-0027)		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0029 EA Drill 1" Diameter Core In Up To 4" Concrete.....	37.48	
For Horizontal Cores, Add	7.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.91	
02 41 19 13-0030 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	41.61	
For Horizontal Cores, Add	8.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.56	
02 41 19 13-0031 EA Drill 2" Diameter Core In Up To 4" Concrete.....	46.22	
For Horizontal Cores, Add	9.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.40	
02 41 19 13-0032 EA Drill 3" Diameter Core In Up To 4" Concrete.....	66.02	
For Horizontal Cores, Add	13.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.29	
02 41 19 13-0033 EA Drill 4" Diameter Core In Up To 4" Concrete.....	88.46	
For Horizontal Cores, Add	17.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.23	
02 41 19 13-0034 EA Drill 6" Diameter Core In Up To 4" Concrete.....	99.07	
For Horizontal Cores, Add	19.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.44	
02 41 19 13-0035 EA Drill 8" Diameter Core In Up To 4" Concrete.....	158.41	
For Horizontal Cores, Add	31.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	63.10	
02 41 19 13-0036 EA Drill 10" Diameter Core In Up To 4" Concrete.....	198.09	
For Horizontal Cores, Add	39.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.87	
02 41 19 13-0037 EA Drill 12" Diameter Core In Up To 4" Concrete.....	231.15	
For Horizontal Cores, Add	46.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	92.02	
02 41 19 13-0038 EA Drill 14" Diameter Core In Up To 4" Concrete.....	264.17	
For Horizontal Cores, Add	52.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	105.15	
02 41 19 13-0039 EA Drill 18" Diameter Core In Up To 4" Concrete.....	297.39	
For Horizontal Cores, Add	59.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	118.29	
02 41 19 13-0040 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0041 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	53.56	
For Horizontal Cores, Add	10.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.29	
02 41 19 13-0042 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	59.47	
For Horizontal Cores, Add	11.83	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.66	
02 41 19 13-0043 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	66.04	
For Horizontal Cores, Add	13.14	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.28	
02 41 19 13-0044 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	79.32	
For Horizontal Cores, Add	15.77	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.55	
02 41 19 13-0045 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	99.18	
For Horizontal Cores, Add	19.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.44	
02 41 19 13-0046 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	132.19	
For Horizontal Cores, Add	26.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	52.58	
02 41 19 13-0047 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	198.19	
For Horizontal Cores, Add	39.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.87	
02 41 19 13-0048 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	231.42	
For Horizontal Cores, Add	46.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	92.02	
02 41 19 13-0049 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	264.50	
For Horizontal Cores, Add	52.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	105.15	
02 41 19 13-0050 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	297.71	
For Horizontal Cores, Add	59.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	118.29	
02 41 19 13-0051 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	331.18	
For Horizontal Cores, Add	65.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.45	
02 41 19 13-0052 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0053 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	59.00	
For Horizontal Cores, Add	11.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.42	
02 41 19 13-0054 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	65.51	
For Horizontal Cores, Add	13.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.03	
02 41 19 13-0055 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	72.74	
For Horizontal Cores, Add	14.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.92	
02 41 19 13-0056 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	86.06	
For Horizontal Cores, Add	17.09	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.18	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0057 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	112.53	
For Horizontal Cores, Add	22.35	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.69	
02 41 19 13-0058 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	158.74	
For Horizontal Cores, Add	31.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	63.10	
02 41 19 13-0059 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	264.23	
For Horizontal Cores, Add	52.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	105.15	
02 41 19 13-0060 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	297.53	
For Horizontal Cores, Add	59.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	118.29	
02 41 19 13-0061 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	330.78	
For Horizontal Cores, Add	65.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.45	
02 41 19 13-0062 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	364.08	
For Horizontal Cores, Add	72.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	144.57	
02 41 19 13-0063 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	397.82	
For Horizontal Cores, Add	78.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	157.74	
02 41 19 13-0064 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0065 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	69.77	
For Horizontal Cores, Add	13.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.68	
02 41 19 13-0066 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	77.46	
For Horizontal Cores, Add	15.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.76	
02 41 19 13-0067 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	86.01	
For Horizontal Cores, Add	17.09	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.18	
02 41 19 13-0068 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	99.36	
For Horizontal Cores, Add	19.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.44	
02 41 19 13-0069 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	112.73	
For Horizontal Cores, Add	22.35	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.69	
02 41 19 13-0070 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	158.99	
For Horizontal Cores, Add	31.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	63.10	
02 41 19 13-0071 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	264.57	
For Horizontal Cores, Add	52.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	105.15	
02 41 19 13-0072 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	297.98	
For Horizontal Cores, Add	59.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	118.29	
02 41 19 13-0073 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	331.26	
For Horizontal Cores, Add	65.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.42	
02 41 19 13-0074 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	364.76	
For Horizontal Cores, Add	72.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	144.57	
02 41 19 13-0075 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	398.62	
For Horizontal Cores, Add	78.85	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	157.71	
02 41 19 13-0076 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0077 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	75.22	
For Horizontal Cores, Add	14.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.82	
02 41 19 13-0078 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	83.49	
For Horizontal Cores, Add	16.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.12	
02 41 19 13-0079 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	92.70	
For Horizontal Cores, Add	18.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.81	
02 41 19 13-0080 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	99.52	
For Horizontal Cores, Add	19.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.44	
02 41 19 13-0081 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	132.66	
For Horizontal Cores, Add	26.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	52.58	
02 41 19 13-0082 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	172.39	
For Horizontal Cores, Add	34.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	68.36	
02 41 19 13-0083 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	278.08	
For Horizontal Cores, Add	55.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	110.42	
02 41 19 13-0084 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	298.43	
For Horizontal Cores, Add	59.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	118.29	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0085 EA Drill 12" Diameter Core In >10" To 12" Concrete	345.04	
For Horizontal Cores, Add	68.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	136.72	
02 41 19 13-0086 >12" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0087 IN Drill 1" Diameter Core In >12" Concrete	9.17	
For Horizontal Cores, Add	1.82	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.64	
02 41 19 13-0088 IN Drill 1-1/2" Diameter Core In >12" Concrete	10.18	
For Horizontal Cores, Add	2.02	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.05	
02 41 19 13-0089 IN Drill 2" Diameter Core In >12" Concrete	11.31	
For Horizontal Cores, Add	2.25	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.50	
02 41 19 13-0090 IN Drill 3" Diameter Core In >12" Concrete	12.40	
For Horizontal Cores, Add	2.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.93	
02 41 19 13-0091 IN Drill 4" Diameter Core In >12" Concrete	16.53	
For Horizontal Cores, Add	3.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.57	
02 41 19 13-0092 IN Drill 6" Diameter Core In >12" Concrete	21.50	
For Horizontal Cores, Add	4.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	8.55	
02 41 19 13-0093 IN Drill 8" Diameter Core In >12" Concrete	34.71	
For Horizontal Cores, Add	6.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.82	
02 41 19 13-0094 IN Drill 10" Diameter Core In >12" Concrete	37.35	
For Horizontal Cores, Add	7.42	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.85	
02 41 19 13-0095 IN Drill 12" Diameter Core In >12" Concrete	43.02	
For Horizontal Cores, Add	8.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.10	
02 41 19 13-0096 Brick/Concrete Block Core Drilling (02 41 19 13-0026)		
02 41 19 13-0097 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0098 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	30.03	
For Horizontal Cores, Add	5.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.93	
02 41 19 13-0099 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	33.33	
For Horizontal Cores, Add	6.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.25	
02 41 19 13-0100 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	37.02	
For Horizontal Cores, Add	7.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.72	
02 41 19 13-0101 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	52.87	
For Horizontal Cores, Add	10.52	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.03	
02 41 19 13-0102 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	70.85	
For Horizontal Cores, Add	14.09	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.18	
02 41 19 13-0103 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	79.35	
For Horizontal Cores, Add	15.77	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.55	
02 41 19 13-0104 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	126.86	
For Horizontal Cores, Add	25.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	50.48	
02 41 19 13-0105 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	158.65	
For Horizontal Cores, Add	31.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	63.10	
02 41 19 13-0106 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	185.14	
For Horizontal Cores, Add	36.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.62	
02 41 19 13-0107 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	211.60	
For Horizontal Cores, Add	42.06	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	84.12	
02 41 19 13-0108 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	238.24	
For Horizontal Cores, Add	47.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.63	
02 41 19 13-0109 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0110 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	42.92	
For Horizontal Cores, Add	8.52	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.04	
02 41 19 13-0111 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	47.65	
For Horizontal Cores, Add	9.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.93	
02 41 19 13-0112 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	52.90	
For Horizontal Cores, Add	10.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.03	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0113 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block 63.54 For Horizontal Cores, Add 12.62 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 25.24		
02 41 19 13-0114 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block 79.46 For Horizontal Cores, Add 15.77 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 31.55		
02 41 19 13-0115 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block 105.91 For Horizontal Cores, Add 21.03 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 42.07		
02 41 19 13-0116 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block 158.75 For Horizontal Cores, Add 31.55 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 63.10		
02 41 19 13-0117 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block 185.41 For Horizontal Cores, Add 36.81 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 73.62		
02 41 19 13-0118 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block 211.93 For Horizontal Cores, Add 42.06 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 84.12		
02 41 19 13-0119 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block 238.56 For Horizontal Cores, Add 47.32 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 94.63		
02 41 19 13-0120 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block 265.45 For Horizontal Cores, Add 52.58 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 105.16		
02 41 19 13-0121 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0122 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block 47.29 For Horizontal Cores, Add 9.37 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 18.74		
02 41 19 13-0123 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block 52.50 For Horizontal Cores, Add 10.41 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 20.82		
02 41 19 13-0124 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block 58.28 For Horizontal Cores, Add 11.57 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 23.14		
02 41 19 13-0125 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block 68.97 For Horizontal Cores, Add 13.67 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 27.34		
02 41 19 13-0126 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block 90.18 For Horizontal Cores, Add 17.88 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 35.75		
02 41 19 13-0127 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block 127.19 For Horizontal Cores, Add 25.24 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 50.48		
02 41 19 13-0128 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block 211.66 For Horizontal Cores, Add 42.06 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 84.12		
02 41 19 13-0129 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block 238.38 For Horizontal Cores, Add 47.32 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 94.63		
02 41 19 13-0130 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block 265.05 For Horizontal Cores, Add 52.58 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 105.16		
02 41 19 13-0131 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block 291.80 For Horizontal Cores, Add 57.83 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 115.66		
02 41 19 13-0132 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block 318.95 For Horizontal Cores, Add 63.10 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 126.20		
02 41 19 13-0133 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0134 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block 55.93 For Horizontal Cores, Add 11.07 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 22.15		
02 41 19 13-0135 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block 62.08 For Horizontal Cores, Add 12.30 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 24.61		
02 41 19 13-0136 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block 68.91 For Horizontal Cores, Add 13.67 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 27.34		
02 41 19 13-0137 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block 79.64 For Horizontal Cores, Add 15.77 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 31.55		
02 41 19 13-0138 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block 90.38 For Horizontal Cores, Add 17.88 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 35.75		
02 41 19 13-0139 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block 127.44 For Horizontal Cores, Add 25.24 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 50.48		
02 41 19 13-0140 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block 212.00 For Horizontal Cores, Add 42.06 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 84.12		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0141 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block 238.83 For Horizontal Cores, Add 47.32 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 94.63		
02 41 19 13-0142 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block 265.54 For Horizontal Cores, Add 52.57 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 105.14		
02 41 19 13-0143 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block 292.48 For Horizontal Cores, Add 57.83 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 115.66		
02 41 19 13-0144 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block 319.76 For Horizontal Cores, Add 63.08 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 126.16		
02 41 19 13-0145 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0146 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block 60.30 For Horizontal Cores, Add 11.92 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 23.85		
02 41 19 13-0147 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block 66.93 For Horizontal Cores, Add 13.25 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 26.50		
02 41 19 13-0148 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block 74.29 For Horizontal Cores, Add 14.72 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 29.44		
02 41 19 13-0149 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block 79.80 For Horizontal Cores, Add 15.77 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 31.55		
02 41 19 13-0150 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block 106.38 For Horizontal Cores, Add 21.03 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 42.07		
02 41 19 13-0151 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block 138.21 For Horizontal Cores, Add 27.34 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 54.69		
02 41 19 13-0152 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block 222.86 For Horizontal Cores, Add 44.17 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 88.33		
02 41 19 13-0153 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block 239.28 For Horizontal Cores, Add 47.32 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 94.63		
02 41 19 13-0154 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block 276.68 For Horizontal Cores, Add 54.69 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 109.38		
02 41 19 13-0155 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0156 IN Drill 1" Diameter Core In >12" Brick/Concrete Block 7.35 For Horizontal Cores, Add 1.46 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 2.92		
02 41 19 13-0157 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block 8.16 For Horizontal Cores, Add 1.62 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 3.24		
02 41 19 13-0158 IN Drill 2" Diameter Core In >12" Brick/Concrete Block 9.06 For Horizontal Cores, Add 1.80 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 3.60		
02 41 19 13-0159 IN Drill 3" Diameter Core In >12" Brick/Concrete Block 9.94 For Horizontal Cores, Add 1.97 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 3.94		
02 41 19 13-0160 IN Drill 4" Diameter Core In >12" Brick/Concrete Block 13.24 For Horizontal Cores, Add 2.63 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 5.26		
02 41 19 13-0161 IN Drill 6" Diameter Core In >12" Brick/Concrete Block 17.22 For Horizontal Cores, Add 3.42 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 6.84		
02 41 19 13-0162 IN Drill 8" Diameter Core In >12" Brick/Concrete Block 27.80 For Horizontal Cores, Add 5.53 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 11.05		
02 41 19 13-0163 IN Drill 10" Diameter Core In >12" Brick/Concrete Block 29.93 For Horizontal Cores, Add 5.94 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 11.88		
02 41 19 13-0164 IN Drill 12" Diameter Core In >12" Brick/Concrete Block 34.47 For Horizontal Cores, Add 6.84 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 13.68		
02 41 19 13-0165 Asphalt Core Drilling (02 41 19 13-0026)		
02 41 19 13-0166 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0165)		
02 41 19 13-0167 EA Drill 2" Diameter Core In Up To 2" Asphalt 28.19		
02 41 19 13-0168 EA Drill 3" Diameter Core In Up To 2" Asphalt 34.96		
02 41 19 13-0169 EA Drill 4" Diameter Core In Up To 2" Asphalt 43.99		
02 41 19 13-0170 EA Drill 6" Diameter Core In Up To 2" Asphalt 55.28		
02 41 19 13-0171 EA Drill 8" Diameter Core In Up To 2" Asphalt 68.82		
02 41 19 13-0172 EA Drill 10" Diameter Core In Up To 2" Asphalt 85.73		
02 41 19 13-0173 EA Drill 12" Diameter Core In Up To 2" Asphalt 107.16		



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0174 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0165)		
02 41 19 13-0175 EA Drill 2" Diameter Core In >2" To 3" Asphalt	36.08	
02 41 19 13-0176 EA Drill 3" Diameter Core In >2" To 3" Asphalt	45.10	
02 41 19 13-0177 EA Drill 4" Diameter Core In >2" To 3" Asphalt	56.38	
02 41 19 13-0178 EA Drill 6" Diameter Core In >2" To 3" Asphalt	71.04	
02 41 19 13-0179 EA Drill 8" Diameter Core In >2" To 3" Asphalt	87.97	
02 41 19 13-0180 EA Drill 10" Diameter Core In >2" To 3" Asphalt	110.52	
02 41 19 13-0181 EA Drill 12" Diameter Core In >2" To 3" Asphalt	137.57	
02 41 19 13-0182 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0165)		
02 41 19 13-0183 EA Drill 2" Diameter Core In >3" To 4" Asphalt	46.23	
02 41 19 13-0184 EA Drill 3" Diameter Core In >3" To 4" Asphalt	57.52	
02 41 19 13-0185 EA Drill 4" Diameter Core In >3" To 4" Asphalt	72.19	
02 41 19 13-0186 EA Drill 6" Diameter Core In >3" To 4" Asphalt	90.24	
02 41 19 13-0187 EA Drill 8" Diameter Core In >3" To 4" Asphalt	112.82	
02 41 19 13-0188 EA Drill 10" Diameter Core In >3" To 4" Asphalt	141.01	
02 41 19 13-0189 EA Drill 12" Diameter Core In >3" To 4" Asphalt	175.96	
02 41 19 13-0190 >4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0165)		
02 41 19 13-0191 EA Drill 2" Diameter Core In >4" To 6" Asphalt	58.66	
02 41 19 13-0192 EA Drill 3" Diameter Core In >4" To 6" Asphalt	74.47	
02 41 19 13-0193 EA Drill 4" Diameter Core In >4" To 6" Asphalt	92.55	
02 41 19 13-0194 EA Drill 6" Diameter Core In >4" To 6" Asphalt	115.12	
02 41 19 13-0195 EA Drill 8" Diameter Core In >4" To 6" Asphalt	144.50	
02 41 19 13-0196 EA Drill 10" Diameter Core In >4" To 6" Asphalt	180.57	
02 41 19 13-0197 EA Drill 12" Diameter Core In >4" To 6" Asphalt	225.70	
02 41 19 13-0198 Manhole Core Drilling (02 41 19 13-0026)		
02 41 19 13-0199 EA Drill 4" Diameter Core In 6" Brick Manhole	197.58	
02 41 19 13-0200 EA Drill 5" Diameter Core In 6" Brick Manhole	225.81	
02 41 19 13-0201 EA Drill 6" Diameter Core In 6" Brick Manhole	263.37	
02 41 19 13-0202 EA Drill 8" Diameter Core In 6" Brick Manhole	395.03	
02 41 19 13-0203 EA Drill 2" Diameter Core In 8" Concrete Manhole	264.81	
02 41 19 13-0204 EA Drill 3" Diameter Core In 8" Concrete Manhole	281.85	
02 41 19 13-0205 EA Drill 4" Diameter Core In 8" Concrete Manhole	310.17	
02 41 19 13-0206 EA Drill 5" Diameter Core In 8" Concrete Manhole	332.75	
02 41 19 13-0207 EA Drill 6" Diameter Core In 8" Concrete Manhole	394.74	
02 41 19 13-0208 EA Drill 8" Diameter Core In 8" Concrete Manhole	563.84	
02 41 19 13-0209 EA Drill 2" Diameter Core In Fiberglass Manhole	26.30	
02 41 19 13-0210 EA Drill 3" Diameter Core In Fiberglass Manhole	30.35	
02 41 19 13-0211 EA Drill 4" Diameter Core In Fiberglass Manhole	32.88	
02 41 19 13-0212 EA Drill 5" Diameter Core In Fiberglass Manhole	35.87	
02 41 19 13-0213 EA Drill 6" Diameter Core In Fiberglass Manhole	39.47	
02 41 19 13-0214 EA Drill 8" Diameter Core In Fiberglass Manhole	43.85	
02 41 19 13-0215 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0026)		
Note: Includes layout.		
02 41 19 13-0216 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.02	
02 41 19 13-0217 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.13	
02 41 19 13-0218 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.28	
02 41 19 13-0219 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.43	
02 41 19 13-0220 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.67	
02 41 19 13-0221 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth	2.89	
02 41 19 13-0222 IN 1" Diameter Drilling In Concrete Per Inch Of Depth	3.05	
02 41 19 13-0223 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	3.36	
02 41 19 13-0224 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	3.80	
02 41 19 13-0225 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0026)		
Note: Includes layout.		
02 41 19 13-0226 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.69	
02 41 19 13-0227 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.77	
02 41 19 13-0228 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.90	
02 41 19 13-0229 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.02	
02 41 19 13-0230 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.22	
02 41 19 13-0231 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.42	
02 41 19 13-0232 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.54	
02 41 19 13-0233 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.80	
02 41 19 13-0234 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.40	
02 41 19 13-0235 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0026)		
Note: Includes layout.		
02 41 19 13-0236 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.84	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0237 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.89	
02 41 19 13-0238 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.95	
02 41 19 13-0239 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.01	
02 41 19 13-0240 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.11	
02 41 19 13-0241 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.20	
02 41 19 13-0242 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.27	
02 41 19 13-0243 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.40	
02 41 19 13-0244 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.63	
02 41 19 13-0245 Minimum Charge For Core Drilling (02 41 19 13-0026)		
02 41 19 13-0246 EA Core Drill Minimum Charge.....	759.30	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
02 41 19 13-0247 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0248 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0247)		
02 41 19 13-0249 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	45.12	
02 41 19 13-0250 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	47.86	
02 41 19 13-0251 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	50.59	
02 41 19 13-0252 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	53.32	
02 41 19 13-0253 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	54.69	
02 41 19 13-0254 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0247)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0255 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	54.99	
02 41 19 13-0256 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	58.32	
02 41 19 13-0257 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	61.65	
02 41 19 13-0258 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	64.99	
02 41 19 13-0259 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	66.65	
02 41 19 13-0260 Reinforced Concrete Wall Cutouts (02 41 19 13-0247)		
02 41 19 13-0261 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	56.39	
02 41 19 13-0262 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	59.82	
02 41 19 13-0263 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	63.23	
02 41 19 13-0264 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	66.65	
02 41 19 13-0265 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	68.36	
02 41 19 13-0266 Brick Wall Cutouts (02 41 19 13-0247)		
Note: Excludes toothing.		
02 41 19 13-0267 SF 4" Thick Brick Wall Cutouts, <24 SF.....	17.09	
02 41 19 13-0268 SF 6" Thick Brick Wall Cutouts, <24 SF.....	28.20	
02 41 19 13-0269 SF 8" Thick Brick Wall Cutouts, <24 SF.....	39.26	
02 41 19 13-0270 SF 10" Thick Brick Wall Cutouts, <24 SF.....	47.86	
02 41 19 13-0271 SF 12" Thick Brick Wall Cutouts, <24 SF.....	57.25	
02 41 19 13-0272 SF 16" Thick Brick Wall Cutouts, <24 SF.....	67.51	
02 41 19 13-0273 Concrete Block Wall Cutouts (02 41 19 13-0247)		
Note: Excludes toothing.		
02 41 19 13-0274 SF 4" Thick Concrete Block Wall Cutouts, <24 SF.....	28.27	
02 41 19 13-0275 SF 6" Thick Concrete Block Wall Cutouts, <24 SF.....	29.94	
02 41 19 13-0276 SF 8" Thick Concrete Block Wall Cutouts, <24 SF.....	31.62	
02 41 19 13-0277 SF 10" Thick Concrete Block Wall Cutouts, <24 SF.....	33.33	
02 41 19 13-0278 SF 12" Thick Concrete Block Wall Cutouts, <24 SF.....	34.18	
02 41 19 13-0279 SF 16" Thick Concrete Block Wall Cutouts, <24 SF.....	35.89	
02 41 19 13-0280 Limestone Cutouts (02 41 19 13-0247)		
02 41 19 13-0281 SF 2" Thick Limestone Cutouts, <24 SF.....	47.86	
02 41 19 13-0282 SF 4" Thick Limestone Cutouts, <24 SF.....	58.10	
02 41 19 13-0283 SF 6" Thick Limestone Cutouts, <24 SF.....	61.53	
02 41 19 13-0284 SF 8" Thick Limestone Cutouts, <24 SF.....	64.94	
02 41 19 13-0285 SF 10" Thick Limestone Cutouts, <24 SF.....	68.36	
02 41 19 13-0286 SF 12" Thick Limestone Cutouts, <24 SF.....	71.77	
02 41 19 13-0287 Toothing Masonry Cutouts (02 41 19 13-0247)		
Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0288 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	17.09	
02 41 19 13-0289 VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	23.07	
02 41 19 13-0290 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts.....	10.26	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0291	VLF		Concrete Block, Hard Mortar, Toothing Masonry Cutouts	13.67	
02 41 19 13-0292			Minimum Charge For Cutouts (02 41 19 13-0247) Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0293	EA		Cutouts Minimum Charge	341.80	
02 41 19 13-0294			Elevated Concrete Removal (02 41 19 13)		
02 41 19 13-0295	CF		Elevated Concrete Beam/Slab/Steps Removal, Reinforced	11.45	
02 41 19 16			Selective Interior Demolition (02 41 19) Note: Includes break-up of material, loading into truck or dumpster and clean-up.		
02 41 19 16-0001			Fireproofing Removal (02 41 19 16)		
02 41 19 16-0002	SF		Removal Of Fireproofing From Concrete Or Steel.....	1.12	
02 41 19 16-0003			Demolish Ceiling (02 41 19 16)		
02 41 19 16-0004	SF		Demolish Drywall Ceiling	0.86	
02 41 19 16-0005	SF		Demolish Furred Plastered Ceiling	2.02	
02 41 19 16-0006	SF		Demolish Suspended Plastered Ceiling And Suspension System.....	1.55	
02 41 19 16-0007			Demolish Concrete Stair (02 41 19 16)		
02 41 19 16-0008	CF		Demolish Interior Reinforced Concrete Stairs.....	7.28	
02 41 19 16-0009	CF		Demolish Exterior Reinforced Concrete Stairs.....	6.24	
02 50			Site Remediation (02)		
02 58			Snow Control (02 50)		
02 58 13			Snow Fencing (02 58)		
02 58 13 00-0001			Snow/Sand Fence On Steel Posts (02 58 13)		
02 58 13 00-0002	LF		Steel Fence Post, 10' On Center With 4' Wood Snow/Sand Fence	6.67	1.90
02 60			Contaminated Site Material Removal (02)		
02 61			Removal and Disposal of Contaminated Soils (02 60)		
02 61 26			Removal and Disposal of Asbestos Contaminated Soils (02 61) Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
02 61 26 00-0001			Removal and Disposal of Asbestos Contaminated Soils (02 61 26) Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
02 61 26 00-0002	EA		Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	892.95	
			For Work In Restricted Working Space, Add	267.89	
02 61 26 00-0003	CF		>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	59.20	
			For Work In Restricted Working Space, Add	17.76	
02 61 26 00-0004	CF		>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	39.46	
			For Work In Restricted Working Space, Add	11.84	
02 61 26 00-0005	CF		>250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	29.64	
			For Work In Restricted Working Space, Add	8.89	
02 61 26 00-0006	CF		>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	23.68	
			For Work In Restricted Working Space, Add	7.10	
02 61 26 00-0007	CF		>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	20.12	
			For Work In Restricted Working Space, Add	6.04	
02 61 26 00-0008	CF		>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	18.11	
			For Work In Restricted Working Space, Add	5.43	
02 80			Facility Remediation (02)		
02 81			Transportation and Disposal of Hazardous Materials (02 80)		

02 Existing Conditions**02 80 Facility Remediation****02 81 Transportation and Disposal of Hazardous Materials**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 81 00 00-0001 Equipment Oil Drain And Disposal (02 81)		
02 81 00 00-0002 TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site Note: Excludes Disposal Cost.	532.24	
02 81 00 00-0003 DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	83.64	
02 81 00 00-0004 DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	380.18	
02 81 00 00-0005 DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	684.32	
02 81 00 00-0006 CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.	91.10	
02 82 Asbestos Remediation (02 80)		
See CSI section 01 56 16 00-0001 for temporary stud walls, 01 74 19 00-0029 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.		
02 82 13 Asbestos Abatement (02 82)		
02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)		
Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.		
02 82 13 00-0002 HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	71.25	
02 82 13 00-0003 EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	49.42	
02 82 13 00-0004 EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	57.94	
02 82 13 00-0005 EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	92.02	
02 82 13 00-0006 EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing.....	158.48	
02 82 13 00-0007 EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	192.56	
02 82 13 00-0008 EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	39.19	
02 82 13 00-0009 EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing.....	47.71	
02 82 13 00-0010 EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing.....	64.76	
02 82 13 00-0011 EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	49.42	
02 82 13 00-0012 EA Next Day Turnaround, (Air Point Counting) PLM Test.....	57.94	
02 82 13 00-0013 EA Same Day Turnaround, (Air Point Counting) PLM Test	92.02	
02 82 13 00-0014 EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	158.48	
02 82 13 00-0015 EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing	182.34	
02 82 13 00-0016 EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing	253.91	
02 82 16 Engineering Control of Asbestos Containing Materials (02 82)		
02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)		
02 82 16 00-0002 SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.44	
02 82 16 00-0003 SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	1.95	
02 82 16 00-0004 SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.09	
02 82 16 00-0005 SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®).....	2.29	
02 82 16 00-0006 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®)	6.94	
02 82 16 00-0007 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	7.84	
02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects.		
02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)		
Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.		
02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)		
See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0004 SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	935.64	
For Work In Restricted Working Space, Add		267.89
02 82 33 00-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	32.57	
For Work In Restricted Working Space, Add		9.13
02 82 33 00-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	24.96	
For Work In Restricted Working Space, Add		6.85
02 82 33 00-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	19.26	
For Work In Restricted Working Space, Add		5.14
02 82 33 00-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	14.97	
For Work In Restricted Working Space, Add		3.85
02 82 33 00-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	13.30	
For Work In Restricted Working Space, Add		3.35



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0011 SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	978.33 267.89	
02 82 33 00-0012 LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	39.28 10.50	
02 82 33 00-0013 LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	30.52 7.88	
02 82 33 00-0014 LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	23.96 5.91	
02 82 33 00-0015 LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	19.04 4.43	
02 82 33 00-0016 LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	17.11 3.85	
02 82 33 00-0017 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018 SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	582.73 170.98	
02 82 33 00-0019 LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation..... For Work In Restricted Working Space, Add	99.26 28.50	
02 82 33 00-0020 LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation..... For Work In Restricted Working Space, Add	41.14 11.06	
02 82 33 00-0021 LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	31.92 8.30	
02 82 33 00-0022 LF >500 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	25.00 6.22	
02 82 33 00-0023 Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024 Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0025 SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	914.29 38.52	
02 82 33 00-0027 SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal 02 82 33 00-0028 SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	32.05 26.05	
02 82 33 00-0029 SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	21.55	
02 82 33 00-0030 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0031 SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal 02 82 33 00-0032 SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	903.62 33.30	
02 82 33 00-0033 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0034 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	26.83 20.83	
02 82 33 00-0035 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	16.34	
02 82 33 00-0036 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0037 SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0038 SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	900.07 29.37	
02 82 33 00-0039 SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal 02 82 33 00-0040 SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	22.90 16.90	
02 82 33 00-0041 SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	12.40	
02 82 33 00-0042 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023) Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0044 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	919.63 31.51	
02 82 33 00-0045 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0046 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	25.05 19.05	
02 82 33 00-0047 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	14.56	
02 82 33 00-0048 Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0049 Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0048) Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal..... Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.	149.90	
02 82 33 00-0051 Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0048) Note: Exposed surface area, includes associated overspray.		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0052 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	919.63	
02 82 33 00-0053 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal	37.59	
02 82 33 00-0054 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	28.45	
02 82 33 00-0055 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	21.61	
02 82 33 00-0056 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal	16.47	
02 82 33 00-0057 Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0048)		
Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal	910.74	
02 82 33 00-0059 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	15.97	
02 82 33 00-0060 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	12.24	
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	9.27	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	7.04	
02 82 33 00-0063 Gypsum Wall Board, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0064 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	928.53	
For Additional Layer, Add	245.56	
02 82 33 00-0065 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	12.43	
For Additional Layer, Add	3.22	
02 82 33 00-0066 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	9.27	
For Additional Layer, Add	2.35	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	7.41	
For Additional Layer, Add	1.84	
02 82 33 00-0068 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	5.92	
For Additional Layer, Add	1.43	
02 82 33 00-0069 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	4.80	
For Additional Layer, Add	1.12	
02 82 33 00-0070 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	3.99	
For Additional Layer, Add	0.90	
02 82 33 00-0071 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0072 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	910.74	
02 82 33 00-0073 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	22.96	
02 82 33 00-0074 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	17.01	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	13.43	
02 82 33 00-0076 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	10.60	
02 82 33 00-0077 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	7.78	
02 82 33 00-0078 Stucco, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0079 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal	928.53	
02 82 33 00-0080 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal	26.58	
02 82 33 00-0081 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	20.12	
02 82 33 00-0082 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	15.27	
02 82 33 00-0083 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal	11.63	
02 82 33 00-0084 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0085 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	928.53	
02 82 33 00-0086 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	10.63	
02 82 33 00-0087 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	8.86	
02 82 33 00-0088 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	6.30	
02 82 33 00-0089 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	4.89	
02 82 33 00-0090 Plywood, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0091 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal	921.42	
02 82 33 00-0092 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal	13.36	
02 82 33 00-0093 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	6.80	
02 82 33 00-0094 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	4.82	
02 82 33 00-0095 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal	4.21	
02 82 33 00-0096 Flooring Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0097 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal (02 82 33 00-0096)		
02 82 33 00-0098 Floor Tile, Asbestos Abatement And Disposal (02 82 33 00-0097)		
Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0099 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	900.07	
For Each Additional Layer, Add	225.02	



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0100 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	6.80 1.70	
02 82 33 00-0101 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	5.66 1.42	
02 82 33 00-0102 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	4.61 1.15	
02 82 33 00-0103 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	3.35 0.84	
02 82 33 00-0104 Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal (02 82 33 00-0097) Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0105 SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	900.07 225.02	
02 82 33 00-0106 SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	6.80 1.70	
02 82 33 00-0107 SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	5.68 1.42	
02 82 33 00-0108 SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	5.20 1.30	
02 82 33 00-0109 SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... For Each Additional Layer, Add	4.31 1.08	
02 82 33 00-0110 Carpet, Asbestos Abatement And Disposal (02 82 33 00-0097)		
02 82 33 00-0111 SET Up To 100 SF, Non-Friable Carpet, Asbestos Abatement And Disposal	900.07	
02 82 33 00-0112 SF >100 To 500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	5.38	
02 82 33 00-0113 SF >500 To 2,500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	4.46	
02 82 33 00-0114 SF >2,500 To 10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	3.39	
02 82 33 00-0115 SF >10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	2.70	
02 82 33 00-0116 Wall Or Cove Base, Asbestos Abatement And Disposal (02 82 33 00-0097) Note: Up to 12".		
02 82 33 00-0117 SET Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal	306.54	
02 82 33 00-0118 LF >25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	4.33	
02 82 33 00-0119 LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.74	
02 82 33 00-0120 LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.85	
02 82 33 00-0121 LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.41	
02 82 33 00-0122 Mastic, Asbestos Abatement And Disposal (02 82 33 00-0096) Note: Applies to single layer or bottom layer only of multiple layers. Non hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0123 SET Up To 100 SF, Mastic, Asbestos Abatement And Disposal	910.75	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0124 SF >100 To 500 SF, Mastic, Asbestos Abatement And Disposal.....	2.41	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0125 SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....	1.81	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0126 SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.44	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0127 SF >10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.19	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0128 Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0096) Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0129 SET Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	964.11	
02 82 33 00-0130 SF >100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	7.74	
02 82 33 00-0131 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	5.85	
02 82 33 00-0132 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.73	
02 82 33 00-0133 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.84	
02 82 33 00-0134 Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal (02 82 33 00-0096)		
02 82 33 00-0135 SET Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	928.51	
02 82 33 00-0136 SF >100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	8.32	
02 82 33 00-0137 SF >500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	5.57	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0138 SF >2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	4.45	
02 82 33 00-0139 SF >10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	3.70	

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

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0140	Roofing, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0141	Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0140) Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.		
02 82 33 00-0142	Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0143	SET Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	981.90	
02 82 33 00-0144	SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.42	
02 82 33 00-0145	SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.28	
02 82 33 00-0146	SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.36	
02 82 33 00-0147	SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.45	
02 82 33 00-0148	SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.76	
02 82 33 00-0149	>2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0150	SET Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,049.48	
02 82 33 00-0151	SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.92	
02 82 33 00-0152	SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.60	
02 82 33 00-0153	SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.60	
02 82 33 00-0154	SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.55	
02 82 33 00-0155	SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.76	
02 82 33 00-0156	>5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0141)		
02 82 33 00-0157	SET Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,127.74	
02 82 33 00-0158	SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.34	
02 82 33 00-0159	SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.88	
02 82 33 00-0160	SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.76	
02 82 33 00-0161	SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.61	
02 82 33 00-0162	SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.73	
02 82 33 00-0163	Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0164	Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0163)		
02 82 33 00-0165	SET Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	915.18	
02 82 33 00-0166	SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	5.89	
	For Each Additional Layer, Add	1.47	
02 82 33 00-0167	SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	4.75	
	For Each Additional Layer, Add	1.19	
02 82 33 00-0168	SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	3.83	
	For Each Additional Layer, Add	0.96	
02 82 33 00-0169	SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	2.92	
	For Each Additional Layer, Add	0.73	
02 82 33 00-0170	SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	2.23	
	For Each Additional Layer, Add	0.56	
02 82 33 00-0171	Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0172	SET Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	299.43	
02 82 33 00-0173	SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.41	
02 82 33 00-0174	SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.01	
02 82 33 00-0175	SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.66	
02 82 33 00-0176	SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.25	
02 82 33 00-0177	Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0140)		
02 82 33 00-0178	SET Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	299.43	
02 82 33 00-0179	LF >10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	6.88	
02 82 33 00-0180	LF >20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	5.54	
02 82 33 00-0181	LF >50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.64	
02 82 33 00-0182	LF >150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	3.39	



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0183 Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0184 Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0183) Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0185 SET Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	928.51	
02 82 33 00-0186 SF >100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	6.45	
02 82 33 00-0187 SF >500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	3.41	
02 82 33 00-0188 SF >2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	2.80	
02 82 33 00-0189 SF >10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	2.47	
02 82 33 00-0190 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0191 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	928.51	
02 82 33 00-0192 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	5.65	
02 82 33 00-0193 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	3.07	
02 82 33 00-0194 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	2.52	
02 82 33 00-0195 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	2.24	
02 82 33 00-0196 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0197 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	786.82	
02 82 33 00-0198 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	34.71	
02 82 33 00-0199 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	27.10	
02 82 33 00-0200 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	21.40	
02 82 33 00-0201 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	17.11	
02 82 33 00-0202 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	13.90	
02 82 33 00-0203 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	13.68	
02 82 33 00-0204 Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0183)		
02 82 33 00-0205 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	953.25	
02 82 33 00-0206 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	5.11	
02 82 33 00-0207 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	4.16	
02 82 33 00-0208 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	3.41	
02 82 33 00-0209 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	2.64	
02 82 33 00-0210 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal Note: Single or first of multiple layers.	2.08	
02 82 33 00-0211 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0212 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0211)		
02 82 33 00-0213 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	637.99 178.59	
02 82 33 00-0214 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	63.47 17.76	
02 82 33 00-0215 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	43.73 11.84	
02 82 33 00-0216 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	33.91 8.89	
02 82 33 00-0217 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	27.95 7.10	
02 82 33 00-0218 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	24.39 6.04	
02 82 33 00-0219 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	22.38 5.43	
02 82 33 00-0220 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0211)		
02 82 33 00-0221 SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	677.26	
02 82 33 00-0222 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	73.76	
02 82 33 00-0223 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	56.00	
02 82 33 00-0224 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	47.17	
02 82 33 00-0225 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	41.80	
02 82 33 00-0226 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	38.60	
02 82 33 00-0227 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal Note: Includes detachment of mounted objects before removal.	36.79	

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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0228	Other Asbestos Containing Materials, Asbestos Abatement And Disposal ^(02 82 33 00-0228)			
02 82 33 00-0229	30" To 36" Fire Door, Asbestos Abatement And Disposal ^(02 82 33 00-0229)			
02 82 33 00-0230	SET	Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	316.86	
02 82 33 00-0231	EA	>1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	126.37	
02 82 33 00-0232	EA	>20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	115.65	
02 82 33 00-0233	HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal ^(02 82 33 00-0233)			
02 82 33 00-0234	SET	Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	298.54	
02 82 33 00-0235	LF	>10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	6.18	
02 82 33 00-0236	LF	>50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	4.66	
02 82 33 00-0237	LF	>100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	4.01	
02 82 33 00-0238	LF	>250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.47	
02 82 33 00-0239	LF	>1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	2.99	
02 82 33 00-0240	LF	>2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	2.58	
02 82 33 00-0241	Grout, Asbestos Abatement And Disposal ^(02 82 33 00-0241)			
	Note: e.g. flue grout.			
02 82 33 00-0242	SET	Up To 10 LF, Grout, Asbestos Abatement And Disposal	298.24	
02 82 33 00-0243	LF	>10 To 50 LF, Grout, Asbestos Abatement And Disposal	11.78	
02 82 33 00-0244	LF	>50 To 100 LF, Grout, Asbestos Abatement And Disposal	8.13	
02 82 33 00-0245	LF	>100 To 250 LF, Grout, Asbestos Abatement And Disposal	6.97	
02 82 33 00-0246	LF	>250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	6.00	
02 82 33 00-0247	LF	>1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	5.18	
02 82 33 00-0248	LF	>2,500 LF, Grout, Asbestos Abatement And Disposal	4.44	
02 82 33 00-0249	Gaskets, Asbestos Abatement And Disposal ^(02 82 33 00-0249)			
	Note: e.g. rope, web cloth, flat.			
02 82 33 00-0250	SET	Up To 10 LF, Gaskets, Asbestos Abatement And Disposal	298.54	
02 82 33 00-0251	LF	>10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	15.87	
02 82 33 00-0252	LF	>50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	11.93	
02 82 33 00-0253	LF	>250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	10.18	
02 82 33 00-0254	LF	>500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	9.16	
02 82 33 00-0255	LF	>1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	8.24	
02 82 33 00-0256	LF	>2,500 LF, Gaskets, Asbestos Abatement And Disposal	7.85	
02 82 33 00-0257	Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal ^(02 82 33 00-0257)			
	Note: e.g. grid, spline, or glued on.			
02 82 33 00-0258	SET	Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal	613.08	
	Note: Including Glue Removal			
02 82 33 00-0259	SF	>50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	13.01	
	Note: Including Glue Removal			
02 82 33 00-0260	SF	>1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal	6.45	
	Note: Including Glue Removal			
02 82 33 00-0261	SF	>2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	4.47	
	Note: Including Glue Removal			
02 82 33 00-0262	SF	>10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	3.86	
	Note: Including Glue Removal			
02 82 33 00-0263	Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal ^(02 82 33 00-0263)			
	Note: Includes ceiling tile, asbestos barrier paper, and furring strips.			
02 82 33 00-0264	SET	Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	604.90	
02 82 33 00-0265	SF	>50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	13.01	
02 82 33 00-0266	SF	>1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	6.45	
02 82 33 00-0267	SF	>2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.47	
02 82 33 00-0268	SF	>10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	3.86	
02 82 33 00-0269	Caulking, Asbestos Abatement And Disposal ^(02 82 33 00-0269)			
02 82 33 00-0270	Non Friable Caulking, Asbestos Abatement And Disposal ^(02 82 33 00-0270)			
02 82 33 00-0271	SET	Up To 10 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	298.24	
02 82 33 00-0272	LF	>10 To 50 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	8.84	
02 82 33 00-0273	LF	>50 To 100 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	6.25	



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0274 LF >100 To 250 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	4.66	
02 82 33 00-0275 LF >250 To 1,000 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	3.52	
02 82 33 00-0276 LF >1,000 To 2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	2.80	
02 82 33 00-0277 LF >2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	2.43	
02 82 33 00-0278 Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0228)		
02 82 33 00-0279 SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal	298.24	
02 82 33 00-0280 LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal	11.78	
02 82 33 00-0281 LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal.....	8.13	
02 82 33 00-0282 LF >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal.....	6.97	
02 82 33 00-0283 LF >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	6.00	
02 82 33 00-0284 LF >1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.18	
02 83 Lead Remediation (02 80)		
See CSI section 01 56 16 00-0001 for temporary stud walls, 01 74 19 00-0029 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.		
02 83 19 Lead-Based Paint Remediation (02 83)		
02 83 19 13 Lead-Based Paint Abatement (02 83 19)		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 74 19 00-0029 for hauling in excess of 25 miles to transfer or disposal site.		
02 83 19 13-0001 Lead Sampling And Testing (02 83 19 13)		
Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.		
02 83 19 13-0002 HR Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	81.04	
02 83 19 13-0003 EA X-Ray Fluorescence (XRF) Lead Testing	58.74	
Note: Including Technician, 3 Readings Per Surface And Lab Fee		
02 83 19 13-0004 EA 5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	56.24	
02 83 19 13-0005 EA 48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	85.20	
02 83 19 13-0006 EA 24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	119.29	
02 83 19 13-0007 EA 5 Day Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	22.15	
02 83 19 13-0008 EA 24 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	34.08	
02 83 19 13-0009 EA 8 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	42.60	
02 83 19 13-0010 EA 5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	56.24	
02 83 19 13-0011 EA 3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	85.20	
02 83 19 13-0012 EA 5 Day Turnaround Lead Wipe Samples And Lab Fee	9.37	
02 83 19 13-0013 EA 24 Hour Turnaround Lead Wipe Samples And Lab Fee	12.78	
02 83 19 13-0014 EA 8 Hour Turnaround Lead Wipe Samples And Lab Fee	18.75	
02 83 19 13-0015 EA 5 Day Turnaround Lead Air Samples And Lab Fee	9.37	
02 83 19 13-0016 EA 24 Hour Turnaround Lead Air Samples And Lab Fee	12.78	
02 83 19 13-0017 EA 8 Hour Turnaround Lead Air Samples And Lab Fee	18.75	
02 83 19 13-0018 EA 5 Day Turnaround Lead Water Test And Lab Fee	34.08	
02 83 19 13-0019 EA 24 Hour Turnaround Lead Water Test And Lab Fee	51.12	
02 83 19 13-0020 EA 8 Hour Turnaround Lead Water Test And Lab Fee	68.16	
02 83 19 13-0021 EA 5 Day Turnaround Lead Paint Chip Test And Lab Fee	35.25	
02 83 19 13-0022 EA 5 Day Turnaround Lead Soil Test And Lab Fee	70.49	
02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)		
02 83 19 13-0024 EA Lead-Based Paint Remediation Minimum Show Up Charge	1,057.57	
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.		
02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)		
Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.		
02 83 19 13-0026 SF Balustrades, Chemical Stripping Of Lead Contaminated Material	31.11	
For 0.025" (25 mil) Application, Add		1.77
For 0.03" (30 mil) Application, Add		2.80
02 83 19 13-0027 SF Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	46.10	
For 0.025" (25 mil) Application, Add		2.52
For 0.03" (30 mil) Application, Add		3.92
02 83 19 13-0028 LF Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	13.37	
For 0.025" (25 mil) Application, Add		0.80
For 0.03" (30 mil) Application, Add		1.28
For 0.125" (125 mil) Application, Add		7.30

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0029	LF	>6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	27.28	
		For 0.025" (25 mil) Application, Add	1.50	
		For 0.03" (30 mil) Application, Add	2.33	
		For 0.125" (125 mil) Application, Add	10.78	
02 83 19 13-0030	SF	Cornice, Chemical Stripping Of Lead Contaminated Material	14.54	
		For 0.025" (25 mil) Application, Add	0.95	
		For 0.03" (30 mil) Application, Add	1.55	
02 83 19 13-0031	SF	Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material	41.11	
		For 0.025" (25 mil) Application, Add	2.27	
		For 0.03" (30 mil) Application, Add	3.55	
02 83 19 13-0032	SF	Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material	8.98	
		For 0.025" (25 mil) Application, Add	0.63	
		For 0.03" (30 mil) Application, Add	1.05	
		For 0.125" (125 mil) Application, Add	7.53	
02 83 19 13-0033	SF	Cabinets, Chemical Stripping Of Lead Contaminated Material	26.00	
		For 0.025" (25 mil) Application, Add	1.48	
		For 0.03" (30 mil) Application, Add	2.32	
02 83 19 13-0034	SF	Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material	33.13	
		For 0.025" (25 mil) Application, Add	1.83	
		For 0.03" (30 mil) Application, Add	2.86	
02 83 19 13-0035	SF	Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material	12.37	
		For 0.025" (25 mil) Application, Add	0.79	
		For 0.03" (30 mil) Application, Add	1.30	
02 83 19 13-0036	SF	Columns, Chemical Stripping Of Lead Contaminated Material	11.89	
		For 0.025" (25 mil) Application, Add	0.81	
		For 0.03" (30 mil) Application, Add	1.36	
		For 0.125" (125 mil) Application, Add	9.51	
02 83 19 13-0037	SF	Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material	10.49	
		For 0.025" (25 mil) Application, Add	0.70	
		For 0.03" (30 mil) Application, Add	1.16	
02 83 19 13-0038	SF	Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material	10.93	
		For 0.025" (25 mil) Application, Add	0.72	
		For 0.03" (30 mil) Application, Add	1.19	
02 83 19 13-0039	SF	Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated	18.95	
		For 0.025" (25 mil) Application, Add	1.17	
		For 0.03" (30 mil) Application, Add	1.88	
02 83 19 13-0040	EA	Electrical Devices, Chemical Stripping Of Lead Contaminated Material	54.11	
		For 0.025" (25 mil) Application, Add	3.06	
		For 0.03" (30 mil) Application, Add	4.80	
02 83 19 13-0041	LF	Door Frames, Chemical Stripping Of Lead Contaminated Material	13.44	
		For 0.025" (25 mil) Application, Add	0.85	
		For 0.03" (30 mil) Application, Add	1.38	
02 83 19 13-0042	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material	7.40	
		For 0.025" (25 mil) Application, Add	0.55	
		For 0.03" (30 mil) Application, Add	0.93	
02 83 19 13-0043	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	27.79	
		For 0.025" (25 mil) Application, Add	1.57	
		For 0.03" (30 mil) Application, Add	2.46	
02 83 19 13-0044	SF	HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	33.13	
		For 0.025" (25 mil) Application, Add	1.83	
		For 0.03" (30 mil) Application, Add	2.86	
02 83 19 13-0045	EA	Hinges, Chemical Stripping Of Lead Contaminated Material	17.44	
		For 0.025" (25 mil) Application, Add	1.13	
		For 0.03" (30 mil) Application, Add	1.86	
02 83 19 13-0046	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	21.47	
		For 0.025" (25 mil) Application, Add	1.34	
		For 0.03" (30 mil) Application, Add	2.17	
		For 0.125" (125 mil) Application, Add	13.23	
02 83 19 13-0047	LF	Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	6.01	
		For 0.025" (25 mil) Application, Add	0.43	
		For 0.03" (30 mil) Application, Add	0.73	
		For 0.125" (125 mil) Application, Add	5.46	
02 83 19 13-0048	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	9.63	
		For 0.025" (25 mil) Application, Add	0.61	
		For 0.03" (30 mil) Application, Add	1.00	
		For 0.125" (125 mil) Application, Add	6.37	
02 83 19 13-0049	LF	>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	17.22	
		For 0.025" (25 mil) Application, Add	1.08	
		For 0.03" (30 mil) Application, Add	1.75	
		For 0.125" (125 mil) Application, Add	10.85	
02 83 19 13-0050	LF	>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	23.58	
		For 0.025" (25 mil) Application, Add	1.44	
		For 0.03" (30 mil) Application, Add	2.33	
		For 0.125" (125 mil) Application, Add	13.76	
02 83 19 13-0051	LF	>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	42.28	
		For 0.025" (25 mil) Application, Add	2.51	
		For 0.03" (30 mil) Application, Add	4.01	
		For 0.125" (125 mil) Application, Add	22.39	
02 83 19 13-0052	SF	>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	12.63	
		For 0.025" (25 mil) Application, Add	0.73	
		For 0.03" (30 mil) Application, Add	1.15	
		For 0.125" (125 mil) Application, Add	5.98	
02 83 19 13-0053	EA	Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material	250.96	
		For 0.025" (25 mil) Application, Add	13.82	
		For 0.03" (30 mil) Application, Add	21.52	



Existing Conditions		02
Facility Remediation		02 80
Lead Remediation		02 83

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0054 SF Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material	17.66	
For 0.025" (25 mil) Application, Add	1.38	
For 0.03" (30 mil) Application, Add	2.37	
02 83 19 13-0055 SF Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....	19.31	
For 0.025" (25 mil) Application, Add	1.46	
For 0.03" (30 mil) Application, Add	2.49	
02 83 19 13-0056 SF Siding, Chemical Stripping Of Lead Contaminated Material	10.06	
For 0.025" (25 mil) Application, Add	0.72	
For 0.03" (30 mil) Application, Add	1.22	
For 0.125" (125 mil) Application, Add	9.06	
02 83 19 13-0057 SF Soffit, Chemical Stripping Of Lead Contaminated Material	21.05	
For 0.025" (25 mil) Application, Add	1.23	
For 0.03" (30 mil) Application, Add	1.95	
For 0.125" (125 mil) Application, Add	10.54	
02 83 19 13-0058 SF Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material.....	9.70	
For 0.025" (25 mil) Application, Add	0.66	
For 0.03" (30 mil) Application, Add	1.10	
For 0.125" (125 mil) Application, Add	7.71	
02 83 19 13-0059 SF Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	11.01	
For 0.025" (25 mil) Application, Add	0.73	
For 0.03" (30 mil) Application, Add	1.20	
For 0.125" (125 mil) Application, Add	8.03	
02 83 19 13-0060 SF Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material.....	10.97	
For 0.025" (25 mil) Application, Add	0.72	
For 0.03" (30 mil) Application, Add	1.20	
For 0.125" (125 mil) Application, Add	8.02	
02 83 19 13-0061 SF Steel Trusses, Chemical Stripping Of Lead Contaminated Material	15.54	
For 0.025" (25 mil) Application, Add	0.95	
For 0.03" (30 mil) Application, Add	1.54	
For 0.125" (125 mil) Application, Add	9.17	
02 83 19 13-0062 SF Wood Surfaces, Chemical Stripping Of Lead Contaminated Material.....	10.97	
For 0.025" (25 mil) Application, Add	0.72	
For 0.03" (30 mil) Application, Add	1.20	
For 0.125" (125 mil) Application, Add	8.02	
02 83 19 13-0063 SF Windows, One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material	25.24	
For 0.025" (25 mil) Application, Add	1.44	
For 0.03" (30 mil) Application, Add	2.27	
02 83 19 13-0064 SF Windows, One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material	27.62	
For 0.025" (25 mil) Application, Add	1.56	
For 0.03" (30 mil) Application, Add	2.45	
02 83 19 13-0065 SF Windows, One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material	29.23	
For 0.025" (25 mil) Application, Add	1.64	
For 0.03" (30 mil) Application, Add	2.57	
02 83 19 13-0066 SF Windows, One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material	30.85	
For 0.025" (25 mil) Application, Add	1.72	
For 0.03" (30 mil) Application, Add	2.69	
02 83 19 13-0067 SF Windows, One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material	32.46	
For 0.025" (25 mil) Application, Add	1.80	
For 0.03" (30 mil) Application, Add	2.81	
02 83 19 13-0068 SF Windows, One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material	34.14	
For 0.025" (25 mil) Application, Add	1.88	
For 0.03" (30 mil) Application, Add	2.93	
02 83 19 13-0069 SF Windows, One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material	35.70	
For 0.025" (25 mil) Application, Add	1.96	
For 0.03" (30 mil) Application, Add	3.05	
02 83 19 13-0070 SF Windows, One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material	36.51	
For 0.025" (25 mil) Application, Add	2.00	
For 0.03" (30 mil) Application, Add	3.11	
02 83 19 13-0071 SF Windows, One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material	37.34	
For 0.025" (25 mil) Application, Add	2.04	
For 0.03" (30 mil) Application, Add	3.17	
02 83 19 13-0072 SF Windows, One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material	38.11	
For 0.025" (25 mil) Application, Add	2.08	
For 0.03" (30 mil) Application, Add	3.23	
02 83 19 13-0073 SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material	50.39	
For 0.025" (25 mil) Application, Add	2.87	
For 0.03" (30 mil) Application, Add	4.52	
For 0.125" (125 mil) Application, Add	23.10	
02 83 19 13-0074 LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material.....	8.76	
For 0.025" (25 mil) Application, Add	0.57	
For 0.03" (30 mil) Application, Add	0.94	
For 0.125" (125 mil) Application, Add	6.15	
02 83 19 13-0075 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	25.63	
Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
For 0.025" (25 mil) Application, Add	1.54	
For 0.03" (30 mil) Application, Add	2.48	
For 0.125" (125 mil) Application, Add	14.27	
02 83 19 13-0076 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material.....	28.00	
For 0.025" (25 mil) Application, Add	1.62	
For 0.03" (30 mil) Application, Add	2.56	
For 0.125" (125 mil) Application, Add	13.54	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**02 83 19 13-0077****Demolish Lead Contaminated Material** (02 83 19 13)

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

02 83 19 13-0078	SF	Demolish Ceiling Suspension System, Lead Contaminated Material.....	2.21
02 83 19 13-0079	SF	Demolish Suspended Ceiling System And Tile, Lead Contaminated Material	1.28
02 83 19 13-0080	SF	Demolish Acoustical Ceiling Tile, Lead Contaminated Material	0.83
02 83 19 13-0081	SF	Demolish Metal Pan Grid System, Lead Contaminated Material	1.28
02 83 19 13-0082	EA	Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material	61.70
02 83 19 13-0083	EA	Demolish >2' x 4' Light Fixtures, Lead Contaminated Material	81.85
02 83 19 13-0084	SF	Demolish Non Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material	9.14
02 83 19 13-0085	SF	Demolish Non Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material	5.12
02 83 19 13-0086	SF	Demolish Brick, Lead Contaminated Material	3.86
02 83 19 13-0087	SF	Demolish Concrete Block, Lead Contaminated Material	4.96
02 83 19 13-0088	SF	Demolish Tile, Lead Contaminated Material	3.74
02 83 19 13-0089	SF	Demolish Up To 6" Concrete, Lead Contaminated Material	5.62
02 83 19 13-0090	IN	Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	4.37
02 83 19 13-0091	IN	Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	5.81
02 83 19 13-0092	LF	Demolish Wood Balustrades And Railings, Lead Contaminated Material.....	6.40
02 83 19 13-0093	LF	Demolish Up To 6" Wide Baseboard, Lead Contaminated Material.....	1.66
02 83 19 13-0094	LF	Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material	2.09
02 83 19 13-0095	LF	Demolish Base Shoe Molding, Lead Contaminated Material	1.36
02 83 19 13-0096	SF	Demolish Concrete, Lead Contaminated Material	12.73
02 83 19 13-0097	LF	Demolish Cabinets, Lead Contaminated Material.....	29.65
02 83 19 13-0098	SF	Demolish Ceilings, Gypsum Board, Lead Contaminated Material.....	1.68
02 83 19 13-0099	SF	Demolish Up To 12" Diameter Columns, Lead Contaminated Material	16.43
02 83 19 13-0100	SF	Demolish Cornice, Lead Contaminated Material.....	2.18
02 83 19 13-0101	EA	Demolish Doors, Lead Contaminated Material	64.31
02 83 19 13-0102	LF	Demolish Door And Window Trim Or Frames, Lead Contaminated Material	1.96
02 83 19 13-0103	EA	Demolish Electrical Devices, Lead Contaminated Material	19.73
02 83 19 13-0104	LF	Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material.....	2.53
02 83 19 13-0105	LF	Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material	4.22
02 83 19 13-0106	SF	Demolish Wood Floors, Lead Contaminated Material.....	3.04
02 83 19 13-0107	SF	Demolish Grilles, Lead Contaminated Material	3.57
02 83 19 13-0108	EA	Demolish Hinges, Lead Contaminated Material	7.17
02 83 19 13-0109	EA	Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	15.41
02 83 19 13-0110	LF	Demolish Up To 2" Diameter Pipes, Lead Contaminated Material.....	6.32
02 83 19 13-0111	LF	Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material.....	9.21
02 83 19 13-0112	LF	Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material.....	13.93
02 83 19 13-0113	LF	Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	25.70
02 83 19 13-0114	EA	Demolish Radiators, Lead Contaminated Material.....	111.01
02 83 19 13-0115	EA	Demolish Shutters, Lead Contaminated Material	43.26
02 83 19 13-0116	SF	Demolish Siding, Lead Contaminated Material	1.72
02 83 19 13-0117	SF	Demolish Soffit, Lead Contaminated Material	1.46
02 83 19 13-0118	SF	Demolish Flat Steel Surfaces, Lead Contaminated Material	4.00
02 83 19 13-0119	SF	Demolish Steel Beams, Lead Contaminated Material	4.71
02 83 19 13-0120	SF	Demolish Trusses, Lead Contaminated Material	6.17
02 83 19 13-0121	SF	Demolish Walls, Wood, Lead Contaminated Material	4.57
02 83 19 13-0122	SF	Demolish Windows, Lead Contaminated Material.....	15.36
02 83 19 13-0123	SF	Demolish Metal Stair, Lead Contaminated Material	7.35
02 83 19 13-0124	LF	Demolish Single Metal Hand Rail, Lead Contaminated Material.....	5.40
02 83 19 13-0125	LF	Demolish Metal Railing And Posts, Lead Contaminated Material	8.82
02 83 19 13-0126	SF	Demolish Metal Picket Fence, Lead Contaminated Material	2.43
02 83 19 13-0127	SF	Demolish Plywood, Lead Contaminated Material.....	6.64
02 83 19 13-0128	SF	Demolish Planks (Various Sizes), Lead Contaminated Material	3.24
02 83 19 13-0129	EA	Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material.....	20.26
02 83 19 13-0130	SF	Demolish Ceramic Tile Block, Lead Contaminated Material	4.42
02 83 19 13-0131	LF	Demolish Metal Guard Rails, Lead Contaminated Material	12.16
02 83 19 13-0132	SF	Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material	6.48
02 83 19 13-0133	SF	Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material.....	4.66
02 83 19 13-0134	SF	Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material.....	3.64
02 83 19 13-0135	SF	Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material.....	2.84
02 83 19 13-0136	SF	Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material	20.26
02 83 19 13-0137	SF	Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material	14.40
02 83 19 13-0138	SF	Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material	10.80
02 83 19 13-0139	SF	Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material	8.10

02 83 19 13-0140**Wet Sanding Of Lead Contaminated Material** (02 83 19 13)

02 83 19 13-0141	SF	Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint	1.76

02 83 19 13-0142**Lead Abatement Encapsulation** (02 83 19 13)

Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.

02 83 19 13-0143	SF	Balustrades, Lead Abatement Encapsulation	5.56
02 83 19 13-0144	LF	Up To 6" Wide, Baseboard, Lead Abatement Encapsulation	6.45
02 83 19 13-0145	LF	>6" To 12" Wide, Baseboard, Lead Abatement Encapsulation	8.69
02 83 19 13-0146	SF	Brick, Concrete Block, Concrete, Lead Abatement Encapsulation.....	3.56
02 83 19 13-0147	SF	Ornate Cabinets, Lead Abatement Encapsulation.....	8.06
02 83 19 13-0148	SF	Simple Design Cabinets, Lead Abatement Encapsulation	6.57



Existing Conditions		02
Facility Remediation		02 80
Lead Remediation		02 83

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0149 SF Drywall Ceilings, Lead Abatement Encapsulation.....	2.22	
02 83 19 13-0150 SF Wood Ceilings, Lead Abatement Encapsulation.....	2.70	
02 83 19 13-0151 SF Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation.....	2.51	
02 83 19 13-0152 SF Columns, Lead Abatement Encapsulation.....	4.31	
02 83 19 13-0153 SF Doors, Lead Abatement Encapsulation.....	9.48	
02 83 19 13-0154 LF Up To 2" Electrical Conduit, Lead Abatement Encapsulation.....	3.64	
02 83 19 13-0155 SF Picket Fence (Brush), Lead Abatement Encapsulation.....	2.56	
02 83 19 13-0156 SF Wood Floors (Roller), Lead Abatement Encapsulation.....	2.13	
02 83 19 13-0157 SF Grilles, Vents, Lead Abatement Encapsulation.....	6.00	
02 83 19 13-0158 LF Gutters And Downspouts, Lead Abatement Encapsulation.....	5.56	
02 83 19 13-0159 EA Hangers, Lead Abatement Encapsulation.....	47.62	
02 83 19 13-0160 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	3.38	
02 83 19 13-0161 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	4.85	
02 83 19 13-0162 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	7.51	
02 83 19 13-0163 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	11.07	
02 83 19 13-0164 EA Radiators, Lead Abatement Encapsulation.....	203.19	
02 83 19 13-0165 EA Up To 6' Shutters, Lead Abatement Encapsulation.....	175.59	
02 83 19 13-0166 SF Siding, Lead Abatement Encapsulation.....	3.06	
02 83 19 13-0167 SF Up To 12" Soffit, Lead Abatement Encapsulation.....	4.31	
02 83 19 13-0168 SF Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.56	
02 83 19 13-0169 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	4.67	
02 83 19 13-0170 SF Trusses, Lead Abatement Encapsulation.....	4.67	
02 83 19 13-0171 SF Drywall Walls, Lead Abatement Encapsulation.....	1.98	
02 83 19 13-0172 SF Wood Walls, Lead Abatement Encapsulation.....	2.43	
02 83 19 13-0173 EA Window Without Grille, Lead Abatement Encapsulation.....	175.80	
02 83 19 13-0174 EA Window With Grille, Lead Abatement Encapsulation.....	206.57	
02 83 19 13-0175 LF Frames And Trim, Lead Abatement Encapsulation.....	3.19	
02 83 19 13-0176 LF Steel Lintels, Lead Abatement Encapsulation.....	3.66	

02 83 33 Removal and Disposal of Material Containing Lead (02 83)**02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)****02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)**

02 83 33 13-0002 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent.....	0.26
02 83 33 13-0003 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate.....	0.26
02 83 33 13-0004 SF High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting.....	1.28

02 84 Polychlorinated Biphenyl Remediation (02 80)**02 84 16 Handling of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)****02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished****Fixtures (02 84 16)**

Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.

02 84 16 00-0002 EA Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling.....	11.09

02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)

Note: Non leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.

02 84 16 00-0004 EA Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	1.42
02 84 16 00-0005 EA Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	2.13
02 84 16 00-0006 EA Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	6.63
02 84 16 00-0007 EA Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	15.16

02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.

02 84 16 00-0009 EA Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	3.55
02 84 16 00-0010 EA Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	5.33
02 84 16 00-0011 EA Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	9.95
02 84 16 00-0012 EA Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	22.74

02 87 Bio-Hazard Material Remediation (02 80)**02 87 16 Excrement Removal (02 87)**

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.

02 87 16 13 Bird Excrement Removal (02 87 16)

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
02 87 16 13-0001 Bird Waste Removal (02 87 16 13)				
Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.				
02 87 16 13-0002	EA	Up To 10 SF Bird Waste Removal, Up To 3" Thickness.....	595.30	
		<i>For Work In Restricted Working Space, Add</i>	178.59	
02 87 16 13-0003	SF	>10 To 500 SF Bird Waste Removal, Up To 3" Thickness	9.92	
		<i>For Work In Restricted Working Space, Add</i>	2.98	
02 87 16 13-0004	SF	>500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness.....	9.02	
		<i>For Work In Restricted Working Space, Add</i>	2.71	
02 87 16 13-0005	SF	>2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness.....	8.20	
		<i>For Work In Restricted Working Space, Add</i>	2.46	
02 87 16 13-0006	SF	>10,000 SF Bird Waste Removal, Up To 3" Thickness.....	7.45	
		<i>For Work In Restricted Working Space, Add</i>	2.24	
02 89 Hazmat Ancillary Tasks and Support (02 89)				
02 89 00 00-0001 Barriers And Protection (02 89)				
Note: Includes removal and disposal after use.				
02 89 00 00-0002 Isolation Barriers (02 89 00 00-0001)				
See CSI section 01 56 16 00-0001 for temporary stud walls.				
02 89 00 00-0003 Hazmat Containment Construction (02 89 00 00-0001)				
02 89 00 00-0004	SF	6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.37	
02 89 00 00-0005	SF	6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.48	
02 89 00 00-0006	SF	6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.64	
02 89 00 00-0007	SF	6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.66	
02 89 00 00-0008	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction.....	0.84	
02 89 00 00-0009	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.10	
02 89 00 00-0010 Decontamination Chambers (02 89)				
Note: Includes removal after use.				
02 89 00 00-0011	EA	3 Stage Portable Personnel Decontamination Wash Facility.....	881.90	
		Note: Includes connection to negative air system.		
02 89 00 00-0012	EA	5 Stage Portable Personnel Decontamination Wash Facility	1,040.93	
		Note: Includes connection to negative air system.		
02 89 00 00-0013	EA	Portable Waste Decontamination Unit	550.66	
		Note: Includes connection to negative air system.		
		<i>For Dismantling And Relocation To A Different Area, Add</i>	369.99	

END OF SECTION 02



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 Concrete

03 01 Maintenance of Concrete⁽⁰³⁾

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

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

03 01 30 71-0001	Concrete Resurfacing/Repair ^(03 01 30 71)		
See CSI section 09 01 90 52-0002 for surface preparation as required.			
03 01 30 71-0002	Concrete Repair ^(03 01 30 71-0001)		
03 01 30 71-0003	Decks Or Floors ^(03 01 30 71-0002)		
Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.			
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar.....	6.83	
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	24.69	
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non Slip Aggregate)	0.66	
03 01 30 71-0007	Verticals Or Overheads ^(03 01 30 71-0002)		
Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.			
03 01 30 71-0008	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar.....	10.02	
03 01 30 71-0009	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	31.76	
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	36.31	
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	7.72	
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound.....	13.60	
Note: Rapid Set - WunderFixx			
03 01 30 71-0013	Bridge Deck Treatment ^(03 01 30 71-0002)		
03 01 30 71-0014	SF Sweep Bridge Deck	0.02	
03 01 30 71-0015	SF Clean Bridge Deck	0.02	
03 01 30 71-0016	SF Treat Bridge Deck With Methacrylate Resin Sealant	1.89	
03 01 30 71-0017	Concrete Finishes ^(03 01 30 71-0001)		
03 01 30 71-0018	Concrete Patching ^(03 01 30 71-0017)		
03 01 30 71-0019	Walls ^(03 01 30 71-0018)		
03 01 30 71-0020	BAG Sika Top 111 Plus.....	145.13	
Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar.			
Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).			
	For Up To 10, Add	51.57	
	For >10 To 25, Add	30.94	
	For >25 To 50, Add	20.63	
	For >50 To 75, Add	10.31	
03 01 30 71-0021	BAG Sika Grout 212, 50 LB Bag	100.35	
Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.			
	For Up To 10, Add	32.68	
	For >10 To 25, Add	19.61	
	For >25 To 50, Add	13.07	
	For >50 To 75, Add	6.54	
03 01 30 71-0022	EA Sika Flex 1A, 10.3 Ounce Tube	35.43	
Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.			
03 01 30 71-0023	BAG Pea Gravel.....	26.26	
03 01 30 71-0024	Crack Repair For Concrete ^(03 01 30 71-0001)		
03 01 30 71-0025	Non Structural Crack Repair For Concrete ^(03 01 30 71-0024)		
03 01 30 71-0026	Surface Applied, Non Structural Crack Repair For Concrete ^(03 01 30 71-0025)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.			
03 01 30 71-0027	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	5.68	
	For V-Grooving Crack With Grinder, Add	4.55	
03 01 30 71-0028	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	7.43	
	For V-Grooving Crack With Grinder, Add	4.44	
03 01 30 71-0029	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	5.80	
	For V-Grooving Crack With Grinder, Add	4.55	
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	7.65	
	For V-Grooving Crack With Grinder, Add	4.44	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0031 LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant)	6.21	
For V-Grooving Crack With Grinder, Add	4.55	
03 01 30 71-0032 LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant)	8.47	
For V-Grooving Crack With Grinder, Add	4.44	
03 01 30 71-0033 LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix)	6.51	
For V-Grooving Crack With Grinder, Add	4.55	
03 01 30 71-0034 LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix)	9.07	
For V-Grooving Crack With Grinder, Add	4.44	
03 01 30 71-0035 Pressure Injected, Non Structural Crack Repair For Concrete (03 01 30 71-0025)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0036 LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570)	25.47	
For Cracks Accessible From Both Sides, Add	5.18	
03 01 30 71-0037 Structural Crack Repair For Concrete (03 01 30 71-0024)		
03 01 30 71-0038 Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0037)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0039 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35)	6.58	
For V-Grooving Crack With Grinder, Add	4.55	
03 01 30 71-0040 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35)	9.22	
For V-Grooving Crack With Grinder, Add	4.44	
03 01 30 71-0041 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52)	6.44	
For V-Grooving Crack With Grinder, Add	4.55	
03 01 30 71-0042 LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52)	8.95	
For V-Grooving Crack With Grinder, Add	4.44	
03 01 30 71-0043 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix)	7.75	
For V-Grooving Crack With Grinder, Add	4.55	
03 01 30 71-0044 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix)	11.57	
For V-Grooving Crack With Grinder, Add	4.44	
03 01 30 71-0045 Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0037)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0046 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35)	22.28	
For Cracks Accessible From Both Sides, Add	5.18	
03 01 30 71-0047 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52)	22.14	
For Cracks Accessible From Both Sides, Add	5.18	
03 01 30 71-0048 Pool Deck Texture Repair (03 01 30 71-0001)		
03 01 30 71-0049 SF Pool Deck Texture Repair	16.10	
Note: Includes surface preparation, cleaning, repair of surface, crack repair, liquid underlayment coat, troweled top coat and finish.		
03 01 30 71-0050 Carbon Fiber Strengthening System (03 01 30 71-0001)		
Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0051 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer	79.08	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0052 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer	69.64	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0053 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer	64.34	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0054 SF Carbon Fiber Strengthening System For Walls, Per Layer	61.40	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0055 Corrosive Inhibitor (03 01 30 71)		
03 01 30 71-0056 SF Corrosive Inhibitor	4.86	
03 01 30 72 Strengthening Of Cast-in-Place Concrete (03 01 30)		



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

03

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 01 30 72-0001	Concrete Surface Repairs (03 01 30 72)	
03 01 30 72-0002	SF Sound The Concrete Surface To Locate Delaminated Areas	0.34

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001	Concrete Admixtures (03 05 13)	
03 05 13 00-0002	CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	5.44
03 05 13 00-0003	CY Set Retarding, Type B Concrete Admixture	3.77
03 05 13 00-0004	CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture	5.86
03 05 13 00-0005	CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture	11.71
03 05 13 00-0006	CY 1% Non-Chloride Accelerating, Type C Concrete Admixture	10.46
03 05 13 00-0007	CY 2% Non-Chloride Accelerating, Type C Concrete Admixture	20.92
03 05 13 00-0008	CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	4.52
03 05 13 00-0009	CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	6.28
03 05 13 00-0010	CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	12.55
03 05 13 00-0011	CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	7.64
03 05 13 00-0012	CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture	10.04
03 05 13 00-0013	CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	13.39
03 05 13 00-0014	CY 25 LB/CY Steel Fibers, Concrete Admixture	32.81
03 05 13 00-0015	CY 10% Microsilica (Silica Fume), Concrete Admixture	66.94
03 05 13 00-0016	CY Corrosion Inhibiting Concrete Admixture	25.10
03 05 13 00-0017	CY Winter Service Or Heat, Concrete Add	5.86
03 05 13 00-0018	CY Chilled Water, Concrete Add	5.86
03 05 13 00-0019	CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	33.89
03 05 13 00-0020	CY Standard Color (See Davis Colors Color Card), Concrete Admixture	56.48
03 05 13 00-0021	CY Premium Color (See Davis Colors Color Card), Concrete Admixture	108.44
03 05 13 00-0022	CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	150.62

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

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

Note: Per square foot of formwork.

03 11 13 00-0001	Wood Formwork (03 11 13)	
Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0002	Foundation Wood Formwork (03 11 13 00-0001)	
Note: For foundation work below or at grade.		
03 11 13 00-0003	SF Continuous Footings Foundation Wood Formwork	8.29
	For <1,000, Add	1.54
	For Foundations >8' Below Grade, Add	1.49
	For Curved Formwork, Add	2.97
03 11 13 00-0004	SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork	9.86
	For <1,000, Add	1.85
	For Foundations >8' Below Grade, Add	1.79
	For Curved Formwork, Add	3.58
03 11 13 00-0005	SF Mat Foundation Wood Formwork	11.53
	For <1,000, Add	2.18
	For Foundations >8' Below Grade, Add	2.12
	For Curved Formwork, Add	4.24
03 11 13 00-0006	SF Grade Beams Or Duct Bank Foundation Wood Formwork	9.68
	For <1,000, Add	1.81
	For Foundations >8' Below Grade, Add	1.75
	For Curved Formwork, Add	3.50
03 11 13 00-0007	SF Below Grade Walls Foundation Wood Formwork	13.69
	Note: Excludes footing	
	For <1,000, Add	2.56
	For Foundations >8' Below Grade, Add	2.47
	For Curved Formwork, Add	4.94
03 11 13 00-0008	Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)	
03 11 13 00-0009	LF Up To 6" High Slab Edge and Block-Out Wood Formwork	6.38
	For Foundations >8' Below Grade, Add	1.18
	For Curved Formwork, Add	2.37
	For Up To 250, Add	1.22
03 11 13 00-0010	LF >6" To 12" High Slab Edge and Block-Out Wood Formwork	9.16
	For Foundations >8' Below Grade, Add	1.65
	For Curved Formwork, Add	3.30
	For Up To 250, Add	1.71
03 11 13 00-0011	SF >12" High Slab Edge and Block-Out Wood Formwork	11.90
	For Foundations >8' Below Grade, Add	2.14
	For Curved Formwork, Add	4.29
	For <1,000, Add	2.22

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0012		Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013	LF	Up To 8" Square Column Wood Formwork.....	49.51	
03 11 13 00-0014	LF	>8" To 12" Square Column Wood Formwork.....	72.80	
03 11 13 00-0015	LF	>12" To 18" Square Column Wood Formwork.....	91.47	
03 11 13 00-0016	LF	>18" To 24" Square Column Wood Formwork.....	130.85	
03 11 13 00-0017	LF	>24" To 36" Square Column Wood Formwork.....	187.74	
03 11 13 00-0018	LF	>36" To 48" Square Column Wood Formwork.....	247.81	
03 11 13 00-0019		Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020	SF	Up To 8' High Above Grade Wall Wood Formwork.....	15.27	
		For Curved Formwork, Add	5.57	
		For <1,000, Add	2.88	
03 11 13 00-0021	SF	>8' High Above Grade Wall Wood Formwork.....	18.06	
		For Curved Formwork, Add	6.61	
		For <1,000, Add	3.41	
03 11 13 00-0022		Elevated Beam Wood Formwork (03 11 13 00-0001)		
		Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023	SF	Bottom of Elevated Beam Wood Formwork.....	19.82	
		For Curved Formwork, Add	7.25	
		For <1,000, Add	3.74	
03 11 13 00-0024	SF	Vertical Sides of Elevated Beam Wood Formwork.....	12.68	
		For Curved Formwork, Add	4.64	
		For <1,000, Add	2.39	
03 11 13 00-0025		Elevated Slab Wood Formwork (03 11 13 00-0001)		
		Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026	SF	Elevated Slab Wood Formwork.....	11.79	
		For <1,000, Add	2.15	
03 11 13 00-0027		Metal Framed Formwork (03 11 13)		
		Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028		Foundation Metal Framed Formwork (03 11 13 00-0027)		
		Note: For foundation work below or at grade.		
03 11 13 00-0029	SF	Continuous Footings Foundation Metal Framed Formwork.....	7.58	
		For <1,000, Add	1.40	
		For Foundations >8' Below Grade, Add	1.34	
		For Curved Formwork, Add	2.68	
03 11 13 00-0030	SF	Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork.....	8.41	
		For <1,000, Add	1.56	
		For Foundations >8' Below Grade, Add	1.50	
		For Curved Formwork, Add	3.00	
03 11 13 00-0031	SF	Mat Foundation Metal Framed Formwork.....	9.42	
		For <1,000, Add	1.73	
		For Foundations >8' Below Grade, Add	1.66	
		For Curved Formwork, Add	3.31	
03 11 13 00-0032	SF	Grade Beams Or Duct Bank Foundation Metal Framed Formwork.....	7.95	
		For <1,000, Add	1.46	
		For Foundations >8' Below Grade, Add	1.39	
		For Curved Formwork, Add	2.79	
03 11 13 00-0033	SF	Below Grade Walls Foundation Metal Framed Formwork.....	12.13	
		Note: Excludes footing.		
		For <1,000, Add	2.26	
		For Foundations >8' Below Grade, Add	2.18	
		For Curved Formwork, Add	4.36	
03 11 13 00-0034		Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0035	LF	Up To 6" High Slab Edge and Block-Out Metal Framed Formwork.....	5.41	
		For Foundations >8' Below Grade, Add	1.06	
		For Curved Formwork, Add	2.11	
		For <250, Add	1.07	
03 11 13 00-0036	LF	>6" To 12" High Slab Edge and Block-Out Metal Framed Formwork.....	6.78	
		For Foundations >8' Below Grade, Add	1.31	
		For Curved Formwork, Add	2.63	
		For <250, Add	1.33	
03 11 13 00-0037	SF	>12" High Slab Edge and Block-Out Metal Framed Formwork.....	7.50	
		For Foundations >8' Below Grade, Add	1.45	
		For Curved Formwork, Add	2.90	
		For <1,000, Add	1.47	
03 11 13 00-0038		Column Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0039		Square Columns (03 11 13 00-0038)		
03 11 13 00-0040	LF	Up To 12" Square Column Metal Framed Formwork.....	46.15	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
03 11 13 00-0041	LF	>12" To 16" Square Column Metal Framed Formwork	55.75	
03 11 13 00-0042	LF	>16" To 20" Square Column Metal Framed Formwork	65.38	
03 11 13 00-0043	LF	>20" To 24" Square Column Metal Framed Formwork	78.14	
03 11 13 00-0044	LF	>24" To 30" Square Column Metal Framed Formwork	94.12	
03 11 13 00-0045	LF	>30" To 36" Square Column Metal Framed Formwork	113.00	
03 11 13 00-0046	LF	>36" To 48" Square Column Metal Framed Formwork	144.98	
03 11 13 00-0047	LF	>48" To 60" Square Column Metal Framed Formwork	178.80	
03 11 13 00-0048 Round Columns (03 11 13 00-0038)				
03 11 13 00-0049	LF	Up To 12" Diameter Column Metal Formwork	45.10	
03 11 13 00-0050	LF	>12" To 16" Diameter Column Metal Formwork	50.18	
03 11 13 00-0051	LF	>16" To 20" Diameter Column Metal Formwork	57.60	
03 11 13 00-0052	LF	>20" To 24" Diameter Column Metal Formwork	67.20	
03 11 13 00-0053	LF	>24" To 30" Diameter Column Metal Formwork	79.37	
03 11 13 00-0054	LF	>30" To 36" Diameter Column Metal Formwork	90.90	
03 11 13 00-0055	LF	>36" To 48" Diameter Column Metal Formwork	117.73	
03 11 13 00-0056	LF	>48" To 60" Diameter Column Metal Formwork	153.39	
03 11 13 00-0057 Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)				
03 11 13 00-0058	SF	Up to 8' High Above Grade Wall Metal Framed Formwork	7.44	
		For Curved Formwork, Add	2.49	
		For <1,000, Add	1.33	
03 11 13 00-0059	SF	>8' High Above Grade Wall Metal Framed Formwork	9.06	
		For Curved Formwork, Add	2.99	
		For <1,000, Add	1.60	
03 11 13 00-0060 Elevated Beam Metal Framed Formwork (03 11 13 00-0027)				
		Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061	SF	Bottom of Elevated Beam Metal Framed Formwork	7.34	
		For Curved Formwork, Add	2.32	
		For <1,000, Add	1.26	
03 11 13 00-0062	SF	Vertical Sides of Elevated Beam Metal Framed Formwork	5.54	
		For Curved Formwork, Add	1.82	
		For <1,000, Add	0.98	
03 11 13 00-0063 Elevated Slab Metal Framed Formwork (03 11 13 00-0027)				
		Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064	SF	Elevated Slab Metal Framed Formwork	9.74	
		For <1,000, Add	1.50	
03 11 13 00-0065 Fiber Tube Formwork (03 11 13)				
		Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
03 11 13 00-0066 Round Column Fiber Tube Formwork (03 11 13 00-0065)				
03 11 13 00-0067	LF	6" Diameter Round Fiber Tube Formwork	19.04	
		For Plastic Lined, Add	0.68	
		For Columns >12' In Length, Add	1.90	
03 11 13 00-0068	LF	8" Diameter Round Fiber Tube Formwork	20.07	
		For Plastic Lined, Add	0.80	
		For Columns >12' In Length, Add	2.01	
03 11 13 00-0069	LF	10" Diameter Round Fiber Tube Formwork	22.16	
		For Plastic Lined, Add	0.92	
		For Columns >12' In Length, Add	2.22	
03 11 13 00-0070	LF	12" Diameter Round Fiber Tube Formwork	26.10	
		For Plastic Lined, Add	1.32	
		For Columns >12' In Length, Add	2.61	
03 11 13 00-0071	LF	14" Diameter Round Fiber Tube Formwork	29.46	
		For Plastic Lined, Add	1.79	
		For Columns >12' In Length, Add	2.95	
03 11 13 00-0072	LF	16" Diameter Round Fiber Tube Formwork	31.87	
		For Plastic Lined, Add	2.26	
		For Columns >12' In Length, Add	3.19	
03 11 13 00-0073	LF	18" Diameter Round Fiber Tube Formwork	33.47	
		For Plastic Lined, Add	2.46	
		For Columns >12' In Length, Add	3.35	
03 11 13 00-0074	LF	20" Diameter Round Fiber Tube Formwork	36.44	
		For Plastic Lined, Add	3.07	
		For Columns >12' In Length, Add	3.64	
03 11 13 00-0075	LF	22" Diameter Round Fiber Tube Formwork	39.86	
		For Plastic Lined, Add	3.70	
		For Columns >12' In Length, Add	3.99	
03 11 13 00-0076	LF	24" Diameter Round Fiber Tube Formwork	43.29	
		For Plastic Lined, Add	4.34	
		For Columns >12' In Length, Add	4.33	
03 11 13 00-0077	LF	26" Diameter Round Fiber Tube Formwork	45.12	
		For Plastic Lined, Add	4.73	
		For Columns >12' In Length, Add	4.51	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork 47.95 For Plastic Lined, Add 5.42 For Columns >12' In Length, Add 4.80		
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork 50.99 For Plastic Lined, Add 6.17 For Columns >12' In Length, Add 5.10		
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork 61.76 For Plastic Lined, Add 8.84 For Columns >12' In Length, Add 6.18		
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork 83.71 For Plastic Lined, Add 15.01 For Columns >12' In Length, Add 8.37		
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork 99.50 For Plastic Lined, Add 19.34 For Columns >12' In Length, Add 9.95		
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork 164.43 For Plastic Lined, Add 38.16 For Columns >12' In Length, Add 16.44		
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork 182.64 For Plastic Lined, Add 43.12 For Columns >12' In Length, Add 18.26		
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....2.34		
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....2.49		
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....2.87		
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....3.32		
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork 11.86		
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 15.04		
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 18.66		
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 22.62		
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 26.54		
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 34.44		
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 82.37		
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....6.14		
03 11 16 13-0003 SF Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork 7.72		
03 11 16 13-0004 SF Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork.....10.11		
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork 19.05 For Curved Formwork, Add 7.32 For <1,000, Add 3.71		
03 11 23 00-0003 SF Elevated Stairway Wood Formwork 38.18 Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. For Curved Formwork, Add 14.37 For <1,000, Add 7.34		
03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)		
03 11 23 00-0005 SF Cast On Grade Stairway Metal Framed Formwork 15.86 For Curved Formwork, Add 6.01 For <1,000, Add 3.06		
03 11 23 00-0006 SF Elevated Stairway Metal Framed Formwork 29.34 Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. For Curved Formwork, Add 11.15 For <1,000, Add 5.67		

03 15 Concrete Accessories (03 10)**03 15 13 Waterstops (03 15)**



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

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
03 15 13 13 Non-Expanding Waterstops (03 15 13)					
03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)					
03 15 13 13-0002	LF	3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	9.72		
03 15 13 13-0003	LF	3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	11.06		
03 15 13 13-0004	LF	3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	13.60		
03 15 13 13-0005	LF	3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	15.09		
03 15 13 13-0006	LF	1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	23.95		
03 15 13 13-0007	LF	3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	11.40		
03 15 13 13-0008	LF	3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	14.04		
03 15 13 13-0009	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	26.39		
03 15 13 13-0010	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	20.31		
03 15 13 13-0011 Rubber Waterstops (03 15 13 13)					
03 15 13 13-0012	LF	3/8" Thick x 6" Wide Rubber Dumbbell Waterstop.....	9.91		
03 15 13 13-0013	LF	3/8" Thick x 9" Wide Rubber Dumbbell Waterstop.....	11.25		
03 15 13 13-0014	LF	1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb.....	10.06		
03 15 13 13-0015	LF	1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb.....	13.44		
03 15 13 13-0016	LF	3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb.....	11.50		
03 15 13 13-0017	LF	3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb.....	14.40		
03 15 13 16 Expanding Waterstops (03 15 13)					
03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)					
03 15 13 16-0002	LF	3/4" x 3/8" Bentonite Waterstop	8.87		
03 15 13 16-0003	LF	1-1/4" x 1/2" Bentonite Waterstop	13.98		
03 15 13 16-0004	LF	1" x 3/4" Bentonite Waterstop	15.79		
03 15 13 16-0005	LF	1" x 1" Bentonite Waterstop	18.10		
03 15 16 Concrete Construction Joints (03 15)					
03 15 16 00-0001 Poured Expansion Joint (03 15 16)					
03 15 16 00-0002	LF	1/2" x 1" Plain Asphalt Expansion Joint, Poured.....	2.75	0.79	
For Installation In Walls, Add			1.32		
03 15 16 00-0003	LF	1" x 2" Plain Asphalt Expansion Joint, Poured.....	5.96	0.79	
For Installation In Walls, Add			1.48		
03 15 16 00-0004	LF	1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	2.63	0.79	
For Installation In Walls, Add			1.32		
03 15 16 00-0005	LF	1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	5.47	0.79	
For Installation In Walls, Add			1.48		
03 15 16 00-0006	LF	1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	3.59	0.79	
For Installation In Walls, Add			1.48		
03 15 16 00-0007	LF	1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts.....	6.42	0.79	
For Installation In Walls, Add			2.40		
03 15 16 00-0008	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied.....	3.03	0.79	
For Installation In Walls, Add			1.32		
03 15 16 00-0009	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	3.69	0.79	
For Installation In Walls, Add			1.32		
03 15 16 00-0010	LF	1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	9.37	0.79	
For Installation In Walls, Add			1.48		
03 15 16 00-0011 Premolded Expansion Joints (03 15 16)					
03 15 16 00-0012 Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)					
03 15 16 00-0013	LF	1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.51	1.17	
03 15 16 00-0014	LF	1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.84	1.23	
03 15 16 00-0015	LF	1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.05	1.29	
03 15 16 00-0016	LF	1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.26	1.35	
03 15 16 00-0017	LF	3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.70	1.17	
03 15 16 00-0018	LF	3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.99	1.23	
03 15 16 00-0019	LF	3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.33	1.29	
03 15 16 00-0020	LF	3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.80	1.35	
03 15 16 00-0021	LF	1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	2.46	1.11	
03 15 16 00-0022	LF	1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.67	1.17	
03 15 16 00-0023	LF	1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.91	1.23	
03 15 16 00-0024	LF	1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.12	1.29	
03 15 16 00-0025	LF	1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.37	1.35	
03 15 16 00-0026	LF	1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	3.71	1.41	
03 15 16 00-0027	LF	1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	3.98	1.46	
03 15 16 00-0028	LF	1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	4.42	1.52	
03 15 16 00-0029	LF	3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.93	1.23	
03 15 16 00-0030	LF	3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.32	1.29	
03 15 16 00-0031	LF	3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.00	1.41	
03 15 16 00-0032	SF	1" Asphalt Saturated Fiber, Premolded Expansion Joint	6.77	1.93	
03 15 16 00-0033 Cork, Premolded Expansion Joints (03 15 16 00-0011)					

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0034 LF 1/2" x 4" Cork, Premolded Expansion Joint	4.02	1.23
03 15 16 00-0035 LF 1/2" x 6" Cork, Premolded Expansion Joint	4.51	1.35
03 15 16 00-0036 LF 1/2" x 8" Cork, Premolded Expansion Joint	4.88	1.41
03 15 16 00-0037 LF 1/2" x 10" Cork, Premolded Expansion Joint.....	6.69	1.46
03 15 16 00-0038 LF 1/2" x 12" Cork, Premolded Expansion Joint.....	7.10	1.52
03 15 16 00-0039 SF 1/2" Cork, Premolded Expansion Joint.....	7.92	1.93
03 15 16 00-0040 SF 3/4" Cork, Premolded Expansion Joint.....	9.09	1.93
03 15 16 00-0041 SF 1" Cork, Premolded Expansion Joint	9.62	1.93
03 15 16 00-0042 Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043 LF 1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.70	1.23
03 15 16 00-0044 LF 1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	2.83	1.29
03 15 16 00-0045 LF 1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	2.97	1.35
03 15 16 00-0046 LF 1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.40	1.41
03 15 16 00-0047 LF 1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.77	1.23
03 15 16 00-0048 LF 1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	2.90	1.29
03 15 16 00-0049 LF 1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.02	1.35
03 15 16 00-0050 LF 1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.29	1.41
03 15 16 00-0051 Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052 LF 1" Zip Strip, Premolded Expansion Joint.....	2.73	1.23
03 15 16 00-0053 LF 1-1/2" Zip Strip, Premolded Expansion Joint.....	2.97	1.29
03 15 16 00-0054 LF 2" Zip Strip, Premolded Expansion Joint.....	3.29	1.41
03 15 16 00-0055 Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056 LF 1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.38	1.17
03 15 16 00-0057 LF 1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	5.24	1.17
03 15 16 00-0058 Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059 SF Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.28	0.88
>1,250, Deduct	-0.06	
03 15 16 00-0060 SF Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.22	0.88
>1,250, Deduct	-0.06	
03 15 16 00-0061 Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062 24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063 LF 24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....	6.86	
03 15 16 00-0064 LF 24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	7.01	
03 15 16 00-0065 LF 24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	7.27	
03 15 16 00-0066 LF 24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	7.75	
03 15 16 00-0067 LF 24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	9.94	
03 15 19 Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001 Cast In Place Anchors (03 15 19)		
Note: For cast in place installations. Includes nut and washer.		
03 15 19 00-0002 J-Type Anchor Bolts (03 15 19 00-0001)		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0003 1/2" And 5/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0004 EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	9.29	
For Galvanized, Add	1.32	
For Stainless Steel, Add	9.24	
For >10 To 50, Deduct	-0.33	
For >50 To 100, Deduct	-0.73	
For >100, Deduct	-1.46	
03 15 19 00-0005 EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	10.54	
For Galvanized, Add	1.69	
For Stainless Steel, Add	11.80	
For >10 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-0.80	
For >100, Deduct	-1.60	
03 15 19 00-0006 EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	12.40	
For Galvanized, Add	2.32	
For Stainless Steel, Add	16.24	
For >10 To 50, Deduct	-0.39	
For >50 To 100, Deduct	-0.89	
For >100, Deduct	-1.78	
03 15 19 00-0007 EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	13.82	
For Galvanized, Add	3.03	
For Stainless Steel, Add	21.21	
For >10 To 50, Deduct	-0.39	
For >50 To 100, Deduct	-0.93	
For >100, Deduct	-1.86	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0008	EA		5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	16.56	
			For Galvanized, Add	4.05	
			For Stainless Steel, Add	28.32	
			For >10 To 50, Deduct	-0.42	
			For >50 To 100, Deduct	-1.05	
			For >100, Deduct	-2.10	
03 15 19 00-0009	EA		5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	18.55	
			For Galvanized, Add	4.62	
			For Stainless Steel, Add	32.34	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.32	
03 15 19 00-0010 3/4" And 7/8" Diameter (03 15 19 00-0002)					
03 15 19 00-0011	EA		3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	18.49	
			For Galvanized, Add	4.59	
			For Stainless Steel, Add	32.13	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.32	
03 15 19 00-0012	EA		3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	21.04	
			For Galvanized, Add	5.35	
			For Stainless Steel, Add	37.42	
			For >10 To 50, Deduct	-0.52	
			For >50 To 100, Deduct	-1.30	
			For >100, Deduct	-2.60	
03 15 19 00-0013	EA		3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	25.35	
			For Galvanized, Add	6.85	
			For Stainless Steel, Add	47.95	
			For >10 To 50, Deduct	-0.58	
			For >50 To 100, Deduct	-1.51	
			For >100, Deduct	-3.02	
03 15 19 00-0014	EA		3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	30.31	
			For Galvanized, Add	8.63	
			For Stainless Steel, Add	60.41	
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.47	
03 15 19 00-0015	EA		7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	24.19	
			For Galvanized, Add	6.27	
			For Stainless Steel, Add	43.89	
			For >10 To 50, Deduct	-0.58	
			For >50 To 100, Deduct	-1.48	
			For >100, Deduct	-2.96	
03 15 19 00-0016	EA		7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	28.33	
			For Galvanized, Add	7.51	
			For Stainless Steel, Add	52.57	
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.71	
			For >100, Deduct	-3.41	
03 15 19 00-0017	EA		7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	35.54	
			For Galvanized, Add	10.01	
			For Stainless Steel, Add	70.07	
			For >10 To 50, Deduct	-0.78	
			For >50 To 100, Deduct	-2.05	
			For >100, Deduct	-4.11	
03 15 19 00-0018 1" And 1-1/8" Diameter (03 15 19 00-0002)					
03 15 19 00-0019	EA		1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	29.53	
			For Galvanized, Add	8.11	
			For Stainless Steel, Add	56.77	
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.47	
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	35.04	
			For Galvanized, Add	9.76	
			For Stainless Steel, Add	68.32	
			For >10 To 50, Deduct	-0.78	
			For >50 To 100, Deduct	-2.04	
			For >100, Deduct	-4.08	
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.09	
			For Galvanized, Add	12.24	
			For Stainless Steel, Add	85.65	
			For >10 To 50, Deduct	-0.93	
			For >50 To 100, Deduct	-2.47	
			For >100, Deduct	-4.95	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	53.18	
			For Galvanized, Add	14.95	
			For Stainless Steel, Add	104.65	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-3.08	
			For >100, Deduct	-6.15	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	34.89	
			For Galvanized, Add	10.14	
			For Stainless Steel, Add	70.98	
			For >10 To 50, Deduct	-0.73	
			For >50 To 100, Deduct	-1.97	
			For >100, Deduct	-3.94	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	41.44	
			For Galvanized, Add	12.21	
			For Stainless Steel, Add	85.44	
			For >10 To 50, Deduct	-0.85	
			For >50 To 100, Deduct	-2.31	
			For >100, Deduct	-4.63	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	51.05	
			For Galvanized, Add	15.30	
			For Stainless Steel, Add	107.10	
			For >10 To 50, Deduct	-1.02	
			For >50 To 100, Deduct	-2.81	
			For >100, Deduct	-5.62	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	62.94	
			For Galvanized, Add	18.69	
			For Stainless Steel, Add	130.83	
			For >10 To 50, Deduct	-1.28	
			For >50 To 100, Deduct	-3.49	
			For >100, Deduct	-6.98	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter (03 15 19 00-0002)		
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	41.53	
			For Galvanized, Add	12.68	
			For Stainless Steel, Add	88.73	
			For >10 To 50, Deduct	-0.81	
			For >50 To 100, Deduct	-2.25	
			For >100, Deduct	-4.50	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	49.38	
			For Galvanized, Add	15.26	
			For Stainless Steel, Add	106.79	
			For >10 To 50, Deduct	-0.94	
			For >50 To 100, Deduct	-2.65	
			For >100, Deduct	-5.30	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	60.90	
			For Galvanized, Add	19.13	
			For Stainless Steel, Add	133.88	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-3.22	
			For >100, Deduct	-6.44	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	75.03	
			For Galvanized, Add	23.36	
			For Stainless Steel, Add	163.52	
			For >10 To 50, Deduct	-1.42	
			For >50 To 100, Deduct	-4.00	
			For >100, Deduct	-8.00	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	49.84	
			For Galvanized, Add	15.85	
			For Stainless Steel, Add	110.92	
			For >10 To 50, Deduct	-0.91	
			For >50 To 100, Deduct	-2.61	
			For >100, Deduct	-5.21	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	59.31	
			For Galvanized, Add	19.07	
			For Stainless Steel, Add	133.49	
			For >10 To 50, Deduct	-1.06	
			For >50 To 100, Deduct	-3.07	
			For >100, Deduct	-6.14	
03 15 19 00-0034	EA		1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	73.24	
			For Galvanized, Add	23.92	
			For Stainless Steel, Add	167.41	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-3.74	
			For >100, Deduct	-7.47	
03 15 19 00-0035	EA		1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	90.14	
			For Galvanized, Add	29.20	
			For Stainless Steel, Add	204.40	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-4.63	
			For >100, Deduct	-9.27	

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

03 15 19 00-0037 **3/4" And 7/8" Diameter** (03 15 19 00-0036)



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 19 00-0038	EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	17.36		
	For Galvanized, Add	3.51		
	For Stainless Steel, Add	24.54		
	For >10 To 50, Deduct	-0.52		
	For >50 To 100, Deduct	-1.21		
	For >100, Deduct	-2.42		
03 15 19 00-0039	EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	20.31		
	For Galvanized, Add	4.33		
	For Stainless Steel, Add	30.31		
	For >10 To 50, Deduct	-0.58		
	For >50 To 100, Deduct	-1.38		
	For >100, Deduct	-2.76		
03 15 19 00-0040	EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	23.24		
	For Galvanized, Add	4.97		
	For Stainless Steel, Add	34.76		
	For >10 To 50, Deduct	-0.67		
	For >50 To 100, Deduct	-1.58		
	For >100, Deduct	-3.16		
03 15 19 00-0041	EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	25.83		
	For Galvanized, Add	5.16		
	For Stainless Steel, Add	36.09		
	For >10 To 50, Deduct	-0.78		
	For >50 To 100, Deduct	-1.81		
	For >100, Deduct	-3.62		
03 15 19 00-0042	EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.45		
	For Galvanized, Add	5.42		
	For Stainless Steel, Add	37.91		
	For >10 To 50, Deduct	-0.93		
	For >50 To 100, Deduct	-2.13		
	For >100, Deduct	-4.27		
03 15 19 00-0043	EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	20.35		
	For Galvanized, Add	4.35		
	For Stainless Steel, Add	30.45		
	For >10 To 50, Deduct	-0.58		
	For >50 To 100, Deduct	-1.38		
	For >100, Deduct	-2.77		
03 15 19 00-0044	EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	23.44		
	For Galvanized, Add	5.07		
	For Stainless Steel, Add	35.46		
	For >10 To 50, Deduct	-0.67		
	For >50 To 100, Deduct	-1.58		
	For >100, Deduct	-3.17		
03 15 19 00-0045	EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.14		
	For Galvanized, Add	5.81		
	For Stainless Steel, Add	40.67		
	For >10 To 50, Deduct	-0.78		
	For >50 To 100, Deduct	-1.84		
	For >100, Deduct	-3.69		
03 15 19 00-0046	EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	30.68		
	For Galvanized, Add	6.03		
	For Stainless Steel, Add	42.21		
	For >10 To 50, Deduct	-0.93		
	For >50 To 100, Deduct	-2.16		
	For >100, Deduct	-4.33		
03 15 19 00-0047	EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	35.95		
	For Galvanized, Add	6.34		
	For Stainless Steel, Add	44.35		
	For >10 To 50, Deduct	-1.16		
	For >50 To 100, Deduct	-2.64		
	For >100, Deduct	-5.29		
03 15 19 00-0048 1" And 1-1/8" Diameter (03 15 19 00-0036)				
03 15 19 00-0049	EA 1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	24.47		
	For Galvanized, Add	5.58		
	For Stainless Steel, Add	39.06		
	For >10 To 50, Deduct	-0.67		
	For >50 To 100, Deduct	-1.61		
	For >100, Deduct	-3.22		
03 15 19 00-0050	EA 1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	28.06		
	For Galvanized, Add	6.27		
	For Stainless Steel, Add	43.89		
	For >10 To 50, Deduct	-0.78		
	For >50 To 100, Deduct	-1.87		
	For >100, Deduct	-3.73		
03 15 19 00-0051	EA 1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	32.65		
	For Galvanized, Add	7.02		
	For Stainless Steel, Add	49.11		
	For >10 To 50, Deduct	-0.93		
	For >50 To 100, Deduct	-2.21		
	For >100, Deduct	-4.43		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	34.93	
			For Galvanized, Add	7.35	
			For Stainless Steel, Add	51.42	
			For >10 To 50, Deduct	-1.01	
			For >50 To 100, Deduct	-2.39	
			For >100, Deduct	-4.78	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	38.66	
			For Galvanized, Add	7.69	
			For Stainless Steel, Add	53.83	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.71	
			For >100, Deduct	-5.43	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	43.69	
			For Galvanized, Add	8.91	
			For Stainless Steel, Add	62.37	
			For >10 To 50, Deduct	-1.29	
			For >50 To 100, Deduct	-3.03	
			For >100, Deduct	-6.07	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	51.90	
			For Galvanized, Add	10.43	
			For Stainless Steel, Add	73.01	
			For >10 To 50, Deduct	-1.55	
			For >50 To 100, Deduct	-3.63	
			For >100, Deduct	-7.25	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	30.19	
			For Galvanized, Add	7.34	
			For Stainless Steel, Add	51.35	
			For >10 To 50, Deduct	-0.78	
			For >50 To 100, Deduct	-1.92	
			For >100, Deduct	-3.84	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	35.04	
			For Galvanized, Add	8.21	
			For Stainless Steel, Add	57.47	
			For >10 To 50, Deduct	-0.93	
			For >50 To 100, Deduct	-2.27	
			For >100, Deduct	-4.55	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	37.42	
			For Galvanized, Add	8.59	
			For Stainless Steel, Add	60.13	
			For >10 To 50, Deduct	-1.01	
			For >50 To 100, Deduct	-2.45	
			For >100, Deduct	-4.91	
03 15 19 00-0059			1-1/4" And 1-3/8" Diameter (03 15 19 00-0036)		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	36.36	
			For Galvanized, Add	8.87	
			For Stainless Steel, Add	62.09	
			For >10 To 50, Deduct	-0.93	
			For >50 To 100, Deduct	-2.31	
			For >100, Deduct	-4.61	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	44.04	
			For Galvanized, Add	10.38	
			For Stainless Steel, Add	72.66	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.85	
			For >100, Deduct	-5.69	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.03	
			For Galvanized, Add	11.76	
			For Stainless Steel, Add	82.32	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-3.04	
			For >100, Deduct	-6.08	
03 15 19 00-0063	EA		1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	52.42	
			For Galvanized, Add	13.28	
			For Stainless Steel, Add	92.93	
			For >10 To 50, Deduct	-1.29	
			For >50 To 100, Deduct	-3.25	
			For >100, Deduct	-6.50	
03 15 19 00-0064	EA		1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	57.98	
			For Galvanized, Add	14.44	
			For Stainless Steel, Add	101.08	
			For >10 To 50, Deduct	-1.46	
			For >50 To 100, Deduct	-3.63	
			For >100, Deduct	-7.26	
03 15 19 00-0065	EA		1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	64.19	
			For Galvanized, Add	15.47	
			For Stainless Steel, Add	108.26	
			For >10 To 50, Deduct	-1.66	
			For >50 To 100, Deduct	-4.10	
			For >100, Deduct	-8.20	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 19 00-0066	EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	71.90		
	For Galvanized, Add	16.55		
	For Stainless Steel, Add	115.85		
	For >10 To 50, Deduct	-1.94		
	For >50 To 100, Deduct	-4.71		
	For >100, Deduct	-9.42		
03 15 19 00-0067	EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	83.17		
	For Galvanized, Add	18.30		
	For Stainless Steel, Add	128.10		
	For >10 To 50, Deduct	-2.33		
	For >50 To 100, Deduct	-5.57		
	For >100, Deduct	-11.14		
03 15 19 00-0068	EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	40.80		
	For Galvanized, Add	11.09		
	For Stainless Steel, Add	77.63		
	For >10 To 50, Deduct	-0.93		
	For >50 To 100, Deduct	-2.42		
	For >100, Deduct	-4.83		
03 15 19 00-0069	EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	49.24		
	For Galvanized, Add	12.98		
	For Stainless Steel, Add	90.86		
	For >10 To 50, Deduct	-1.16		
	For >50 To 100, Deduct	-2.98		
	For >100, Deduct	-5.95		
03 15 19 00-0070	EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	53.90		
	For Galvanized, Add	14.70		
	For Stainless Steel, Add	102.87		
	For >10 To 50, Deduct	-1.23		
	For >50 To 100, Deduct	-3.19		
	For >100, Deduct	-6.37		
03 15 19 00-0071	EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	59.06		
	For Galvanized, Add	16.60		
	For Stainless Steel, Add	116.17		
	For >10 To 50, Deduct	-1.29		
	For >50 To 100, Deduct	-3.42		
	For >100, Deduct	-6.83		
03 15 19 00-0072	EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	65.21		
	For Galvanized, Add	18.06		
	For Stainless Steel, Add	126.39		
	For >10 To 50, Deduct	-1.46		
	For >50 To 100, Deduct	-3.81		
	For >100, Deduct	-7.63		
03 15 19 00-0073	EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	71.93		
	For Galvanized, Add	19.34		
	For Stainless Steel, Add	135.35		
	For >10 To 50, Deduct	-1.66		
	For >50 To 100, Deduct	-4.29		
	For >100, Deduct	-8.59		
03 15 19 00-0074	EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	80.52		
	For Galvanized, Add	20.86		
	For Stainless Steel, Add	146.02		
	For >10 To 50, Deduct	-1.94		
	For >50 To 100, Deduct	-4.92		
	For >100, Deduct	-9.85		
03 15 19 00-0075	EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	92.33		
	For Galvanized, Add	22.88		
	For Stainless Steel, Add	160.16		
	For >10 To 50, Deduct	-2.33		
	For >50 To 100, Deduct	-5.80		
	For >100, Deduct	-11.60		
03 15 19 00-0076	1-1/2", 1-3/4", And 2" Diameter (03 15 19 00-0036)			
03 15 19 00-0077	EA 1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	51.92		
	For Galvanized, Add	15.38		
	For Stainless Steel, Add	107.63		
	For >10 To 50, Deduct	-1.06		
	For >50 To 100, Deduct	-2.89		
	For >100, Deduct	-5.77		
03 15 19 00-0078	EA 1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	56.76		
	For Galvanized, Add	16.13		
	For Stainless Steel, Add	112.88		
	For >10 To 50, Deduct	-1.23		
	For >50 To 100, Deduct	-3.26		
	For >100, Deduct	-6.51		
03 15 19 00-0079	EA 1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	62.87		
	For Galvanized, Add	17.74		
	For Stainless Steel, Add	124.18		
	For >10 To 50, Deduct	-1.37		
	For >50 To 100, Deduct	-3.63		
	For >100, Deduct	-7.25		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0080 EA 1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	67.87	
For Galvanized, Add	19.39	
For Stainless Steel, Add	135.70	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-3.88	
For >100, Deduct	-7.76	
03 15 19 00-0081 EA 1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	73.09	
For Galvanized, Add	21.03	
For Stainless Steel, Add	147.18	
For >10 To 50, Deduct	-1.55	
For >50 To 100, Deduct	-4.16	
For >100, Deduct	-8.31	
03 15 19 00-0082 EA 1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	81.05	
For Galvanized, Add	22.61	
For Stainless Steel, Add	158.27	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-4.71	
For >100, Deduct	-9.43	
03 15 19 00-0083 EA 1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	91.25	
For Galvanized, Add	24.46	
For Stainless Steel, Add	171.19	
For >10 To 50, Deduct	-2.12	
For >50 To 100, Deduct	-5.46	
For >100, Deduct	-10.91	
03 15 19 00-0084 EA 1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	105.99	
For Galvanized, Add	27.13	
For Stainless Steel, Add	189.88	
For >10 To 50, Deduct	-2.59	
For >50 To 100, Deduct	-6.53	
For >100, Deduct	-13.06	
03 15 19 00-0085 EA 1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	69.54	
For Galvanized, Add	23.13	
For Stainless Steel, Add	161.91	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-3.48	
For >100, Deduct	-6.97	
03 15 19 00-0086 EA 1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	73.13	
For Galvanized, Add	23.63	
For Stainless Steel, Add	165.41	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-3.77	
For >100, Deduct	-7.54	
03 15 19 00-0087 EA 1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	75.41	
For Galvanized, Add	24.01	
For Stainless Steel, Add	168.07	
For >10 To 50, Deduct	-1.37	
For >50 To 100, Deduct	-3.94	
For >100, Deduct	-7.88	
03 15 19 00-0088 EA 1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	84.57	
For Galvanized, Add	27.74	
For Stainless Steel, Add	194.15	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-4.30	
For >100, Deduct	-8.59	
03 15 19 00-0089 EA 1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	97.29	
For Galvanized, Add	32.02	
For Stainless Steel, Add	224.11	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-4.93	
For >100, Deduct	-9.85	
03 15 19 00-0090 EA 1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	103.67	
For Galvanized, Add	32.44	
For Stainless Steel, Add	227.05	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-5.50	
For >100, Deduct	-11.00	
03 15 19 00-0091 EA 1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	116.63	
For Galvanized, Add	35.03	
For Stainless Steel, Add	245.21	
For >10 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-6.41	
For >100, Deduct	-12.82	
03 15 19 00-0092 EA 1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	133.66	
For Galvanized, Add	37.73	
For Stainless Steel, Add	264.08	
For >10 To 50, Deduct	-2.91	
For >50 To 100, Deduct	-7.71	
For >100, Deduct	-15.41	
03 15 19 00-0093 EA 2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	97.81	
For Galvanized, Add	35.21	
For Stainless Steel, Add	246.47	
For >10 To 50, Deduct	-1.37	
For >50 To 100, Deduct	-4.50	
For >100, Deduct	-9.00	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 19 00-0094	EA 2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	107.17		
	For Galvanized, Add	38.07		
	For Stainless Steel, Add	266.46		
	For >10 To 50, Deduct	-1.55		
	For >50 To 100, Deduct	-5.01		
	For >100, Deduct	-10.01		
03 15 19 00-0095	EA 2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	118.81		
	For Galvanized, Add	41.49		
	For Stainless Steel, Add	290.43		
	For >10 To 50, Deduct	-1.79		
	For >50 To 100, Deduct	-5.66		
	For >100, Deduct	-11.32		
03 15 19 00-0096	EA 2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	130.22		
	For Galvanized, Add	43.94		
	For Stainless Steel, Add	307.58		
	For >10 To 50, Deduct	-2.12		
	For >50 To 100, Deduct	-6.43		
	For >100, Deduct	-12.86		
03 15 19 00-0097	EA 2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	141.00		
	For Galvanized, Add	47.22		
	For Stainless Steel, Add	330.51		
	For >10 To 50, Deduct	-2.33		
	For >50 To 100, Deduct	-7.02		
	For >100, Deduct	-14.04		
03 15 19 00-0098	EA 2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	152.57		
	For Galvanized, Add	50.42		
	For Stainless Steel, Add	352.91		
	For >10 To 50, Deduct	-2.59		
	For >50 To 100, Deduct	-7.69		
	For >100, Deduct	-15.39		
03 15 19 00-0099	EA 2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	174.82		
	For Galvanized, Add	54.15		
	For Stainless Steel, Add	379.02		
	For >10 To 50, Deduct	-3.33		
	For >50 To 100, Deduct	-9.36		
	For >100, Deduct	-18.72		
03 15 19 00-0100	EA 2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	185.58		
	For Galvanized, Add	59.53		
	For Stainless Steel, Add	416.68		
	For >10 To 50, Deduct	-3.33		
	For >50 To 100, Deduct	-9.63		
	For >100, Deduct	-19.26		
03 15 19 00-0101	EA 2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	209.95		
	For Galvanized, Add	66.17		
	For Stainless Steel, Add	463.19		
	For >10 To 50, Deduct	-3.88		
	For >50 To 100, Deduct	-11.07		
	For >100, Deduct	-22.14		
03 15 19 00-0102	2-1/2" And 2-3/4" Diameter (03 15 19 00-0036)			
03 15 19 00-0103	EA 2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	183.84		
	For Galvanized, Add	78.23		
	For Stainless Steel, Add	547.58		
	For >10 To 50, Deduct	-1.37		
	For >50 To 100, Deduct	-6.65		
	For >100, Deduct	-13.30		
03 15 19 00-0104	EA 2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	194.57		
	For Galvanized, Add	81.77		
	For Stainless Steel, Add	572.36		
	For >10 To 50, Deduct	-1.55		
	For >50 To 100, Deduct	-7.19		
	For >100, Deduct	-14.38		
03 15 19 00-0105	EA 2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	213.17		
	For Galvanized, Add	88.67		
	For Stainless Steel, Add	620.69		
	For >10 To 50, Deduct	-1.79		
	For >50 To 100, Deduct	-8.02		
	For >100, Deduct	-16.03		
03 15 19 00-0106	EA 2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	229.24		
	For Galvanized, Add	93.45		
	For Stainless Steel, Add	654.15		
	For >10 To 50, Deduct	-2.12		
	For >50 To 100, Deduct	-8.91		
	For >100, Deduct	-17.81		
03 15 19 00-0107	EA 2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	243.48		
	For Galvanized, Add	98.46		
	For Stainless Steel, Add	689.19		
	For >10 To 50, Deduct	-2.33		
	For >50 To 100, Deduct	-9.58		
	For >100, Deduct	-19.16		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0108 EA 2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	259.88	
For Galvanized, Add	104.07	
For Stainless Steel, Add	728.49	
For >10 To 50, Deduct	-2.59	
For >50 To 100, Deduct	-10.38	
For >100, Deduct	-20.76	
03 15 19 00-0109 EA 2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	286.15	
For Galvanized, Add	109.81	
For Stainless Steel, Add	768.67	
For >10 To 50, Deduct	-3.33	
For >50 To 100, Deduct	-12.14	
For >100, Deduct	-24.29	
03 15 19 00-0110 EA 2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	206.21	
For Galvanized, Add	88.56	
For Stainless Steel, Add	619.89	
For >10 To 50, Deduct	-1.46	
For >50 To 100, Deduct	-7.34	
For >100, Deduct	-14.68	
03 15 19 00-0111 EA 2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	222.71	
For Galvanized, Add	94.73	
For Stainless Steel, Add	663.08	
For >10 To 50, Deduct	-1.66	
For >50 To 100, Deduct	-8.06	
For >100, Deduct	-16.12	
03 15 19 00-0112 EA 2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	240.71	
For Galvanized, Add	100.96	
For Stainless Steel, Add	706.69	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-8.93	
For >100, Deduct	-17.86	
03 15 19 00-0113 EA 2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	259.71	
For Galvanized, Add	106.57	
For Stainless Steel, Add	745.99	
For >10 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-9.99	
For >100, Deduct	-19.97	
03 15 19 00-0114 EA 2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	277.14	
For Galvanized, Add	112.70	
For Stainless Steel, Add	788.90	
For >10 To 50, Deduct	-2.59	
For >50 To 100, Deduct	-10.81	
For >100, Deduct	-21.62	
03 15 19 00-0115 EA 2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	301.02	
For Galvanized, Add	121.41	
For Stainless Steel, Add	849.84	
For >10 To 50, Deduct	-2.91	
For >50 To 100, Deduct	-11.89	
For >100, Deduct	-23.78	
03 15 19 00-0116 EA 2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	333.77	
For Galvanized, Add	128.08	
For Stainless Steel, Add	896.56	
For >10 To 50, Deduct	-3.88	
For >50 To 100, Deduct	-14.17	
For >100, Deduct	-28.33	

03 20 Concrete Reinforcing ⁽⁰³⁾

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

03 21 Reinforcement Bars ^(03 20)

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

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

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

03 21 11 00-0002 LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar	0.64
03 21 11 00-0003 LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar	1.06
03 21 11 00-0004 LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar	1.59
03 21 11 00-0005 LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar	2.18
03 21 11 00-0006 LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar	0.65
03 21 11 00-0007 LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar	1.08
03 21 11 00-0008 LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar	1.62
03 21 11 00-0009 LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar	2.23
03 21 11 00-0010 LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar	0.67
03 21 11 00-0011 LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar	1.11
03 21 11 00-0012 LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar	1.67
03 21 11 00-0013 LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar	2.30
03 21 11 00-0014 LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar	2.97
03 21 11 00-0015 LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar	3.68
03 21 11 00-0016 LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar	4.50
03 21 11 00-0017 LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar	5.48
03 21 11 00-0018 LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar	6.49



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 21 11 00-0019	LF	#14, Grade 60, Beams And Girders, Steel Reinforcement Bar	8.96	
03 21 11 00-0020	LF	#18, Grade 60, Beams And Girders, Steel Reinforcement Bar	15.22	
03 21 11 00-0021	LF	#6, Grade 75, Beams And Girders, Steel Reinforcement Bar	2.37	
03 21 11 00-0022	LF	#7, Grade 75, Beams And Girders, Steel Reinforcement Bar	3.07	
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	3.80	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	4.66	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	5.69	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	6.74	
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar	9.32	
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar	15.87	
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	0.68	
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	1.14	
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	1.71	
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	2.35	
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	3.04	
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	3.77	
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	4.62	
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	5.64	
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	6.68	
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	9.23	
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	15.71	

03 21 11 00-0040

Columns, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar	0.67	
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar	1.13	
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar	1.68	
03 21 11 00-0044	LF	#6, Grade 40, Columns, Steel Reinforcement Bar	2.31	
03 21 11 00-0045	LF	#3, Grade 50, Columns, Steel Reinforcement Bar	0.68	
03 21 11 00-0046	LF	#4, Grade 50, Columns, Steel Reinforcement Bar	1.15	
03 21 11 00-0047	LF	#5, Grade 50, Columns, Steel Reinforcement Bar	1.71	
03 21 11 00-0048	LF	#6, Grade 50, Columns, Steel Reinforcement Bar	2.36	
03 21 11 00-0049	LF	#3, Grade 60, Columns, Steel Reinforcement Bar	0.70	
03 21 11 00-0050	LF	#4, Grade 60, Columns, Steel Reinforcement Bar	1.18	
03 21 11 00-0051	LF	#5, Grade 60, Columns, Steel Reinforcement Bar	1.76	
03 21 11 00-0052	LF	#6, Grade 60, Columns, Steel Reinforcement Bar	2.43	
03 21 11 00-0053	LF	#7, Grade 60, Columns, Steel Reinforcement Bar	3.12	
03 21 11 00-0054	LF	#8, Grade 60, Columns, Steel Reinforcement Bar	3.86	
03 21 11 00-0055	LF	#9, Grade 60, Columns, Steel Reinforcement Bar	4.70	
03 21 11 00-0056	LF	#10, Grade 60, Columns, Steel Reinforcement Bar	5.71	
03 21 11 00-0057	LF	#11, Grade 60, Columns, Steel Reinforcement Bar	6.76	
03 21 11 00-0058	LF	#14, Grade 60, Columns, Steel Reinforcement Bar	9.31	
03 21 11 00-0059	LF	#18, Grade 60, Columns, Steel Reinforcement Bar	15.77	
03 21 11 00-0060	LF	#6, Grade 75, Columns, Steel Reinforcement Bar	2.50	
03 21 11 00-0061	LF	#7, Grade 75, Columns, Steel Reinforcement Bar	3.22	
03 21 11 00-0062	LF	#8, Grade 75, Columns, Steel Reinforcement Bar	3.98	
03 21 11 00-0063	LF	#9, Grade 75, Columns, Steel Reinforcement Bar	4.86	
03 21 11 00-0064	LF	#10, Grade 75, Columns, Steel Reinforcement Bar	5.92	
03 21 11 00-0065	LF	#11, Grade 75, Columns, Steel Reinforcement Bar	7.01	
03 21 11 00-0066	LF	#14, Grade 75, Columns, Steel Reinforcement Bar	9.67	
03 21 11 00-0067	LF	#18, Grade 75, Columns, Steel Reinforcement Bar	16.42	
03 21 11 00-0068	LF	#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	0.71	
03 21 11 00-0069	LF	#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.21	
03 21 11 00-0070	LF	#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.80	
03 21 11 00-0071	LF	#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	2.48	
03 21 11 00-0072	LF	#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.19	
03 21 11 00-0073	LF	#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.95	
03 21 11 00-0074	LF	#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	4.82	
03 21 11 00-0075	LF	#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	5.87	
03 21 11 00-0076	LF	#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	6.95	
03 21 11 00-0077	LF	#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	9.58	
03 21 11 00-0078	LF	#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	16.26	

03 21 11 00-0079

Footings, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar	0.58	
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar	0.97	
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar	1.45	
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar	2.00	
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar	0.59	
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar	0.99	
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	1.48	
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	2.05	
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	0.61	
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	1.02	
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	1.53	
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	2.12	
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	2.74	
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	3.42	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0094 LF #9, Grade 60, Footings, Steel Reinforcement Bar	4.18	
03 21 11 00-0095 LF #10, Grade 60, Footings, Steel Reinforcement Bar	5.11	
03 21 11 00-0096 LF #11, Grade 60, Footings, Steel Reinforcement Bar	6.08	
03 21 11 00-0097 LF #14, Grade 60, Footings, Steel Reinforcement Bar	8.43	
03 21 11 00-0098 LF #18, Grade 60, Footings, Steel Reinforcement Bar	14.38	
03 21 11 00-0099 LF #6, Grade 75, Footings, Steel Reinforcement Bar	2.19	
03 21 11 00-0100 LF #7, Grade 75, Footings, Steel Reinforcement Bar	2.84	
03 21 11 00-0101 LF #8, Grade 75, Footings, Steel Reinforcement Bar	3.54	
03 21 11 00-0102 LF #9, Grade 75, Footings, Steel Reinforcement Bar	4.34	
03 21 11 00-0103 LF #10, Grade 75, Footings, Steel Reinforcement Bar	5.32	
03 21 11 00-0104 LF #11, Grade 75, Footings, Steel Reinforcement Bar	6.33	
03 21 11 00-0105 LF #14, Grade 75, Footings, Steel Reinforcement Bar	8.79	
03 21 11 00-0106 LF #18, Grade 75, Footings, Steel Reinforcement Bar	15.03	
03 21 11 00-0107 LF #3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.62	
03 21 11 00-0108 LF #4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.05	
03 21 11 00-0109 LF #5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.57	
03 21 11 00-0110 LF #6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.17	
03 21 11 00-0111 LF #7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.81	
03 21 11 00-0112 LF #8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.51	
03 21 11 00-0113 LF #9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.30	
03 21 11 00-0114 LF #10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	5.27	
03 21 11 00-0115 LF #11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	6.27	
03 21 11 00-0116 LF #14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	8.70	
03 21 11 00-0117 LF #18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	14.87	
03 21 11 00-0118 Slab On Grade, Steel Reinforcement Bar (03 21 11)		
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0119 LF #3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.56	
03 21 11 00-0120 LF #4, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.94	
03 21 11 00-0121 LF #5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.40	
03 21 11 00-0122 LF #6, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.93	
03 21 11 00-0123 LF #3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.57	
03 21 11 00-0124 LF #4, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.96	
03 21 11 00-0125 LF #5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.43	
03 21 11 00-0126 LF #6, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.98	
03 21 11 00-0127 LF #3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.59	
03 21 11 00-0128 LF #4, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.99	
03 21 11 00-0129 LF #5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.48	
03 21 11 00-0130 LF #6, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.05	
03 21 11 00-0131 LF #7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.67	
03 21 11 00-0132 LF #8, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.33	
03 21 11 00-0133 LF #9, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.08	
03 21 11 00-0134 LF #10, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.99	
03 21 11 00-0135 LF #11, Grade 60, Slab On Grade, Steel Reinforcement Bar	5.95	
03 21 11 00-0136 LF #14, Grade 60, Slab On Grade, Steel Reinforcement Bar	8.24	
03 21 11 00-0137 LF #18, Grade 60, Slab On Grade, Steel Reinforcement Bar	14.10	
03 21 11 00-0138 LF #6, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.12	
03 21 11 00-0139 LF #7, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.77	
03 21 11 00-0140 LF #8, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.45	
03 21 11 00-0141 LF #9, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.24	
03 21 11 00-0142 LF #10, Grade 75, Slab On Grade, Steel Reinforcement Bar	5.20	
03 21 11 00-0143 LF #11, Grade 75, Slab On Grade, Steel Reinforcement Bar	6.20	
03 21 11 00-0144 LF #14, Grade 75, Slab On Grade, Steel Reinforcement Bar	8.60	
03 21 11 00-0145 LF #18, Grade 75, Slab On Grade, Steel Reinforcement Bar	14.75	
03 21 11 00-0146 LF #3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.60	
03 21 11 00-0147 LF #4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.02	
03 21 11 00-0148 LF #5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.52	
03 21 11 00-0149 LF #6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.10	
03 21 11 00-0150 LF #7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.74	
03 21 11 00-0151 LF #8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.42	
03 21 11 00-0152 LF #9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.20	
03 21 11 00-0153 LF #10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	5.15	
03 21 11 00-0154 LF #11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	6.14	
03 21 11 00-0155 LF #14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	8.51	
03 21 11 00-0156 LF #18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	14.59	
03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)		
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0158 LF #3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.52	
03 21 11 00-0159 LF #4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.87	
03 21 11 00-0160 LF #5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.31	
03 21 11 00-0161 LF #6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.81	
03 21 11 00-0162 LF #3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.53	
03 21 11 00-0163 LF #4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.89	
03 21 11 00-0164 LF #5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.34	
03 21 11 00-0165 LF #6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.86	
03 21 11 00-0166 LF #3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.55	
03 21 11 00-0167 LF #4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.92	
03 21 11 00-0168 LF #5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.39	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.93		
03 21 11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.52		
03 21 11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.14		
03 21 11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.88		
03 21 11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.75		
03 21 11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	5.68		
03 21 11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	7.90		
03 21 11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	13.55		
03 21 11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.00		
03 21 11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.62		
03 21 11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.26		
03 21 11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.04		
03 21 11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.96		
03 21 11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	5.93		
03 21 11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	8.26		
03 21 11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	14.20		
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.56		
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.95		
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.43		
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.98		
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.59		
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.23		
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.00		
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.91		
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	5.87		
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	8.17		
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	14.04		
03 21 11 00-0196 Walls, Steel Reinforcement Bar (03 21 11)					
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.					
03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar	0.49		
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar	0.84		
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar	1.26		
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar	1.74		
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar	0.50		
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar	0.86		
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar	1.29		
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar	1.79		
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar	0.52		
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar	0.89		
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar	1.34		
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar	1.86		
03 21 11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar	2.43		
03 21 11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar	3.06		
03 21 11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar	3.78		
03 21 11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar	4.63		
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar	5.54		
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar	7.72		
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar	13.28		
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar	1.93		
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar	2.53		
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar	3.18		
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar	3.94		
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar	4.84		
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar	5.79		
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar	8.08		
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar	13.93		
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.53		
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.92		
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.38		
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.91		
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.50		
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.15		
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.90		
03 21 11 00-0231	LF	#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.79		
03 21 11 00-0232	LF	#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	5.73		
03 21 11 00-0233	LF	#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	7.99		
03 21 11 00-0234	LF	#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	13.77		
03 21 11 00-0235 Mechanical Joint Connection (03 21 11)					
03 21 11 00-0236 Thermal Type Mechanical Joint Connection (03 21 11 00-0235)					
03 21 11 00-0237	EA	Thermal Type Mechanical Joint Connection, Add Per Splice	204.80		
03 21 11 00-0238 Screwed Type Mechanical Joint Connection (03 21 11 00-0235)					
03 21 11 00-0239	EA	Screwed Type Mechanical Joint Connection, Add Per Splice	112.64		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0240 Deformed Straight Dowels (03 21 11) Note: Excludes drilling. See CSI section 02 41 19 13-0215 for drilling in concrete.		
03 21 11 00-0241 EA 3/8" Diameter x 24" Long, Deformed Straight Dowel	2.90	
For Up To 12" Length, Deduct	-0.34	
For >12" To <24" Length, Deduct	-0.17	
03 21 11 00-0242 EA 1/2" Diameter x 24" Long, Deformed Straight Dowel	3.47	
For Up To 12" Length, Deduct	-0.45	
For >12" To <24" Length, Deduct	-0.22	
03 21 11 00-0243 EA 5/8" Diameter x 24" Long, Deformed Straight Dowel	4.24	
For Up To 12" Length, Deduct	-0.71	
For >12" To <24" Length, Deduct	-0.35	
03 21 11 00-0244 EA 3/4" Diameter x 24" Long, Deformed Straight Dowel	5.15	
For Up To 12" Length, Deduct	-1.02	
For >12" To <24" Length, Deduct	-0.51	
03 21 11 00-0245 EA 7/8" Diameter x 24" Long, Deformed Straight Dowel	6.08	
For Up To 12" Length, Deduct	-1.42	
For >12" To <24" Length, Deduct	-0.71	
03 21 11 00-0246 EA 1" Diameter x 24" Long, Deformed Straight Dowel	7.67	
For Up To 12" Length, Deduct	-1.82	
For >12" To <24" Length, Deduct	-0.91	
03 21 11 00-0247 EA 1-1/8" Diameter x 24" Long, Deformed Straight Dowel	9.04	
For Up To 12" Length, Deduct	-2.24	
For >12" To <24" Length, Deduct	-1.12	
03 21 11 00-0248 EA 1-1/4" Diameter x 24" Long, Deformed Straight Dowel	11.08	
For Up To 12" Length, Deduct	-2.94	
For >12" To <24" Length, Deduct	-1.47	
03 21 11 00-0249 EA 1-3/8" Diameter x 24" Long, Deformed Straight Dowel	13.15	
For Up To 12" Length, Deduct	-3.62	
For >12" To <24" Length, Deduct	-1.81	
03 21 11 00-0250 Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251 TON Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	3,450.68	
For Grade 75, Add	132.89	
03 21 11 00-0252 TON >15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel	3,410.38	
For Grade 75, Add	132.89	
03 21 11 00-0253 TON >24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel	3,379.66	
For Grade 75, Add	132.89	
03 21 11 00-0254 TON >36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel	3,329.39	
For Grade 75, Add	132.89	
03 21 11 00-0255 TON >48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel	3,261.43	
For Grade 75, Add	132.89	
03 21 11 00-0256 TON >64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel	3,237.79	
For Grade 75, Add	136.16	
03 21 11 00-0257 TON >84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel	3,180.89	
For Grade 75, Add	136.16	
03 21 11 00-0258 Dowel Or Hairpin, Drilled And Epoxy Into Concrete (03 21 11)		
03 21 11 00-0259 EA Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment	27.54	
03 21 11 00-0260 EA Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment	28.73	
03 21 11 00-0261 Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0262 Reinforcing Steel Lap-Weld Splice (03 21 11 00-0261)		
03 21 11 00-0263 EA Up To #6 Reinforcing Steel Lap-Weld Splice	56.14	
03 21 11 00-0264 EA >#6 Reinforcing Steel Lap-Weld Splice	88.60	
03 21 11 00-0265 Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0261)		
03 21 11 00-0266 EA Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	30.73	
03 21 11 00-0267 EA #5 Reinforcing Steel, Sleeve And Wedge Splice Joint	45.44	
03 21 11 00-0268 EA #6 Reinforcing Steel, Sleeve And Wedge Splice Joint	66.18	
03 21 13 Galvanized Reinforcement Steel Bars (03 21)		
03 21 13 00-0001 Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13) Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002 LF #3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.76	
03 21 13 00-0003 LF #4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.28	
03 21 13 00-0004 LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.92	
03 21 13 00-0005 LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.66	
03 21 13 00-0006 LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	0.77	
03 21 13 00-0007 LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.30	
03 21 13 00-0008 LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.96	
03 21 13 00-0009 LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.71	
03 21 13 00-0010 LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	0.79	
03 21 13 00-0011 LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.33	
03 21 13 00-0012 LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.01	
03 21 13 00-0013 LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.78	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 21 13 00-0014	LF	#7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.63	
03 21 13 00-0015	LF	#8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.54	
03 21 13 00-0016	LF	#9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	5.60	
03 21 13 00-0017	LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.87	
03 21 13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	8.21	
03 21 13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	11.43	
03 21 13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	19.62	
03 21 13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	2.85	
03 21 13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.73	
03 21 13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.66	
03 21 13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.76	
03 21 13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.08	
03 21 13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	8.46	
03 21 13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	11.79	
03 21 13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	20.26	

03 21 13 00-0029 Columns, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.79	
03 21 13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.35	
03 21 13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.01	
03 21 13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.79	
03 21 13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.80	
03 21 13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.37	
03 21 13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.05	
03 21 13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.84	
03 21 13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.82	
03 21 13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.40	
03 21 13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.10	
03 21 13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.91	
03 21 13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	3.78	
03 21 13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	4.72	
03 21 13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	5.80	
03 21 13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	7.10	
03 21 13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	8.48	
03 21 13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	11.78	
03 21 13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	20.17	
03 21 13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	2.98	
03 21 13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	3.88	
03 21 13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	4.84	
03 21 13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	5.96	
03 21 13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	7.31	
03 21 13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	8.73	
03 21 13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	12.14	
03 21 13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	20.81	

03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	0.70	
03 21 13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.19	
03 21 13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.78	
03 21 13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	2.48	
03 21 13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.71	
03 21 13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.21	
03 21 13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.82	
03 21 13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.53	
03 21 13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.73	
03 21 13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.24	
03 21 13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.87	
03 21 13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.60	
03 21 13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.40	
03 21 13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.28	
03 21 13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.28	
03 21 13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	6.50	
03 21 13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	7.80	
03 21 13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	10.90	
03 21 13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	18.78	
03 21 13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.67	
03 21 13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.50	
03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.40	
03 21 13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	5.44	
03 21 13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.71	
03 21 13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	8.05	
03 21 13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	11.26	
03 21 13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	19.42	

03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	0.68	
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.16	
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.73	
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	2.41	
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	0.69	
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.18	
03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.77	
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	2.46	
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	0.71	
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.21	
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.82	
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	2.53	
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	3.33	
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	4.19	
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	5.18	
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	6.38	
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	7.67	
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	10.71	
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	18.50	
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	2.60	
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	3.43	
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	4.31	
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	5.34	
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	6.59	
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	7.92	
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	11.07	
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	19.14	
03 21 13 00-0113 Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)					
Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	0.64	
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.09	
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.64	
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.29	
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	0.65	
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.11	
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.68	
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.34	
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	0.67	
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.14	
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.73	
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.41	
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	3.18	
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	4.00	
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	4.98	
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	6.14	
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	7.40	
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	10.37	
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	17.95	
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.48	
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	3.28	
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	4.12	
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	5.14	
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	6.35	
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	7.65	
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	10.73	
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	18.59	
03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar (03 21 13)					
Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	.....	0.61	
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	.....	1.06	
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	.....	1.59	
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	.....	2.22	
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	0.62	
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	1.08	
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	1.63	
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	2.27	
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	0.64	
03 21 13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	1.11	
03 21 13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	1.68	
03 21 13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	2.34	
03 21 13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	3.09	
03 21 13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	3.92	
03 21 13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	4.88	
03 21 13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	6.02	
03 21 13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	7.26	
03 21 13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	10.19	
03 21 13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	17.68	



		Concrete	03	03
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 21 13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.41		
03 21 13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.19		
03 21 13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.04		
03 21 13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.04		
03 21 13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	6.23		
03 21 13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	7.51		
03 21 13 00-0167	LF	#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	10.55		
03 21 13 00-0168	LF	#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	18.32		

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

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002	LF	#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.75		
03 21 16 00-0003	LF	#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.25		
03 21 16 00-0004	LF	#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.89		
03 21 16 00-0005	LF	#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.61		
03 21 16 00-0006	LF	#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.76		
03 21 16 00-0007	LF	#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.27		
03 21 16 00-0008	LF	#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.92		
03 21 16 00-0009	LF	#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.66		
03 21 16 00-0010	LF	#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.78		
03 21 16 00-0011	LF	#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.31		
03 21 16 00-0012	LF	#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.97		
03 21 16 00-0013	LF	#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.73		
03 21 16 00-0014	LF	#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.56		
03 21 16 00-0015	LF	#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.44		
03 21 16 00-0016	LF	#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.48		
03 21 16 00-0017	LF	#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.72		
03 21 16 00-0018	LF	#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.02		
03 21 16 00-0019	LF	#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	11.16		
03 21 16 00-0020	LF	#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	19.14		
03 21 16 00-0021	LF	#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.80		
03 21 16 00-0022	LF	#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.66		
03 21 16 00-0023	LF	#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.57		
03 21 16 00-0024	LF	#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.64		
03 21 16 00-0025	LF	#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.93		
03 21 16 00-0026	LF	#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.27		
03 21 16 00-0027	LF	#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	11.52		
03 21 16 00-0028	LF	#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	19.78		

03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0030	LF	#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.78		
03 21 16 00-0031	LF	#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.32		
03 21 16 00-0032	LF	#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.98		
03 21 16 00-0033	LF	#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.74		
03 21 16 00-0034	LF	#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.79		
03 21 16 00-0035	LF	#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.34		
03 21 16 00-0036	LF	#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.01		
03 21 16 00-0037	LF	#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.79		
03 21 16 00-0038	LF	#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.81		
03 21 16 00-0039	LF	#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.38		
03 21 16 00-0040	LF	#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.06		
03 21 16 00-0041	LF	#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.86		
03 21 16 00-0042	LF	#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.71		
03 21 16 00-0043	LF	#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.62		
03 21 16 00-0044	LF	#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	5.68		
03 21 16 00-0045	LF	#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	6.95		
03 21 16 00-0046	LF	#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	8.29		
03 21 16 00-0047	LF	#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	11.51		
03 21 16 00-0048	LF	#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	19.69		
03 21 16 00-0049	LF	#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	2.93		
03 21 16 00-0050	LF	#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.81		
03 21 16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.75		
03 21 16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	5.84		
03 21 16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	7.16		
03 21 16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	8.54		
03 21 16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	11.87		
03 21 16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	20.33		

03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.69		
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.16		
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.75		
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	2.43		
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	0.70		
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.18		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0064 LF #5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.78	
03 21 16 00-0065 LF #6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	2.48	
03 21 16 00-0066 LF #3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	0.72	
03 21 16 00-0067 LF #4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.22	
03 21 16 00-0068 LF #5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.83	
03 21 16 00-0069 LF #6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	2.55	
03 21 16 00-0070 LF #7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	3.33	
03 21 16 00-0071 LF #8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	4.18	
03 21 16 00-0072 LF #9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	5.16	
03 21 16 00-0073 LF #10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	6.35	
03 21 16 00-0074 LF #11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	7.61	
03 21 16 00-0075 LF #14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	10.63	
03 21 16 00-0076 LF #18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	18.30	
03 21 16 00-0077 LF #6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	2.62	
03 21 16 00-0078 LF #7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	3.43	
03 21 16 00-0079 LF #8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	4.31	
03 21 16 00-0080 LF #9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	5.32	
03 21 16 00-0081 LF #10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	6.56	
03 21 16 00-0082 LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	7.86	
03 21 16 00-0083 LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	10.99	
03 21 16 00-0084 LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	18.94	
03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0086 LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.67	
03 21 16 00-0087 LF #4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.13	
03 21 16 00-0088 LF #5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.70	
03 21 16 00-0089 LF #6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.36	
03 21 16 00-0090 LF #3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.68	
03 21 16 00-0091 LF #4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.15	
03 21 16 00-0092 LF #5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.73	
03 21 16 00-0093 LF #6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.41	
03 21 16 00-0094 LF #3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.70	
03 21 16 00-0095 LF #4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.19	
03 21 16 00-0096 LF #5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.78	
03 21 16 00-0097 LF #6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.48	
03 21 16 00-0098 LF #7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.26	
03 21 16 00-0099 LF #8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.09	
03 21 16 00-0100 LF #9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.06	
03 21 16 00-0101 LF #10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	6.23	
03 21 16 00-0102 LF #11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	7.48	
03 21 16 00-0103 LF #14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	10.44	
03 21 16 00-0104 LF #18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	18.02	
03 21 16 00-0105 LF #6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.55	
03 21 16 00-0106 LF #7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.36	
03 21 16 00-0107 LF #8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.22	
03 21 16 00-0108 LF #9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.22	
03 21 16 00-0109 LF #10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	6.44	
03 21 16 00-0110 LF #11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	7.73	
03 21 16 00-0111 LF #14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	10.80	
03 21 16 00-0112 LF #18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	18.66	
03 21 16 00-0113 Elevated Slabs, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0114 LF #3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.63	
03 21 16 00-0115 LF #4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.06	
03 21 16 00-0116 LF #5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.61	
03 21 16 00-0117 LF #6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.24	
03 21 16 00-0118 LF #3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.64	
03 21 16 00-0119 LF #4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.08	
03 21 16 00-0120 LF #5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.64	
03 21 16 00-0121 LF #6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.29	
03 21 16 00-0122 LF #3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.66	
03 21 16 00-0123 LF #4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.12	
03 21 16 00-0124 LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.69	
03 21 16 00-0125 LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.36	
03 21 16 00-0126 LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.11	
03 21 16 00-0127 LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.90	
03 21 16 00-0128 LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	4.86	
03 21 16 00-0129 LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	5.99	
03 21 16 00-0130 LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	7.21	
03 21 16 00-0131 LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	10.10	
03 21 16 00-0132 LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	17.47	
03 21 16 00-0133 LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.43	
03 21 16 00-0134 LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.21	
03 21 16 00-0135 LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	4.03	
03 21 16 00-0136 LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	5.02	
03 21 16 00-0137 LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	6.20	
03 21 16 00-0138 LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	7.46	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
03 21 16 00-0139	LF	#14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	10.46			
03 21 16 00-0140	LF	#18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	18.11			
03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)						
Note: ASTM A-775 Epoxy Coated Steel.						
03 21 16 00-0142	LF	#3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.60			
03 21 16 00-0143	LF	#4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.03			
03 21 16 00-0144	LF	#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.56			
03 21 16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.17			
03 21 16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.61			
03 21 16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.05			
03 21 16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.59			
03 21 16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.22			
03 21 16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.63			
03 21 16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.09			
03 21 16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.64			
03 21 16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.29			
03 21 16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.02			
03 21 16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.82			
03 21 16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.76			
03 21 16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.87			
03 21 16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.07			
03 21 16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	9.92			
03 21 16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	17.20			
03 21 16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.36			
03 21 16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.12			
03 21 16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.95			
03 21 16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.92			
03 21 16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.08			
03 21 16 00-0166	LF	#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.32			
03 21 16 00-0167	LF	#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	10.28			
03 21 16 00-0168	LF	#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	17.84			
03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)						
Note: Excludes drilling. See CSI section 02 41 19 13-0215 for drilling in concrete.						
03 21 16 00-0170	EA	3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.82			
		For Up To 12" Length, Deduct	-0.48			
		For >12" To <24" Length, Deduct	-0.24			
03 21 16 00-0171	EA	1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.67			
		For Up To 12" Length, Deduct	-0.72			
		For >12" To <24" Length, Deduct	-0.36			
03 21 16 00-0172	EA	5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.01			
		For Up To 12" Length, Deduct	-1.07			
		For >12" To <24" Length, Deduct	-0.54			
03 21 16 00-0173	EA	3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	8.72			
		For Up To 12" Length, Deduct	-1.43			
		For >12" To <24" Length, Deduct	-0.71			
03 21 16 00-0174	EA	7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	10.48			
		For Up To 12" Length, Deduct	-1.94			
		For >12" To <24" Length, Deduct	-0.97			
03 21 16 00-0175	EA	1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.18			
		For Up To 12" Length, Deduct	-2.39			
		For >12" To <24" Length, Deduct	-1.20			
03 21 16 00-0176	EA	1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	14.38			
		For Up To 12" Length, Deduct	-2.90			
		For >12" To <24" Length, Deduct	-1.45			
03 21 16 00-0177	EA	1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	17.32			
		For Up To 12" Length, Deduct	-3.51			
		For >12" To <24" Length, Deduct	-1.75			
03 22 Fabric and Grid Reinforcing (03 20)						
03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)						
Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.						
03 22 11 00-0001 Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 11)						
Note: Includes bar chairs. Under 5 tons. ASTM A-185						
03 22 11 00-0002	SF	6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.81			
		For >5 Ton, Deduct	-0.12			
03 22 11 00-0003	SF	6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.94			
		For >5 Ton, Deduct	-0.14			
03 22 11 00-0004	SF	6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.06			
		For >5 Ton, Deduct	-0.16			
03 22 11 00-0005	SF	6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.26			
		For >5 Ton, Deduct	-0.18			
03 22 11 00-0006	SF	4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.98			
		For >5 Ton, Deduct	-0.14			
03 22 11 00-0007	SF	4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.10			
		For >5 Ton, Deduct	-0.16			
03 22 11 00-0008	SF	4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.39			
		For >5 Ton, Deduct	-0.19			

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 22 11 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.62	
For >5 Ton, Deduct	-0.22	
03 22 11 00-0010 SF 2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9)	1.52	
For >5 Ton, Deduct	-0.20	

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

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.91	
For >5 Ton, Deduct	-0.13	
03 22 13 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.05	
For >5 Ton, Deduct	-0.15	
03 22 13 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.21	
For >5 Ton, Deduct	-0.17	
03 22 13 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.46	
For >5 Ton, Deduct	-0.20	
03 22 13 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.11	
For >5 Ton, Deduct	-0.16	
03 22 13 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.26	
For >5 Ton, Deduct	-0.18	
03 22 13 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.65	
For >5 Ton, Deduct	-0.22	
03 22 13 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.95	
For >5 Ton, Deduct	-0.25	

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

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0011 SF 2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5)	3.19	
For >5 Ton, Deduct	-0.50	

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

Note: Includes bar chairs. Under 5 tons.

03 22 16 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.89	
For >5 Ton, Deduct	-0.13	
03 22 16 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.03	
For >5 Ton, Deduct	-0.15	
03 22 16 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.19	
For >5 Ton, Deduct	-0.17	
03 22 16 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.43	
For >5 Ton, Deduct	-0.20	
03 22 16 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.09	
For >5 Ton, Deduct	-0.16	
03 22 16 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.24	
For >5 Ton, Deduct	-0.17	
03 22 16 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.62	
For >5 Ton, Deduct	-0.21	
03 22 16 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.91	
For >5 Ton, Deduct	-0.25	

03 22 23 Stainless Steel Welded Wire Fabric Reinforcing (03 22)

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

03 22 23 00-0001 Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 23)

03 22 23 00-0002 SF 6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.51	
03 22 23 00-0003 SF 4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs	1.95	

03 30 Cast-In-Place Concrete (03)

See CSI section 01 74 19 00-0029 for hauling over 15 miles.

03 30 53 Miscellaneous Cast-in-Place Concrete (03 30)**03 30 53 00-0001 Place Concrete Thrust Blocks And Backfill (03 30 53)**



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

03

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 30 53 00-0002	CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	289.36		
	For 2,000 PSI Concrete, Deduct	-11.88		
	For 2,500 PSI Concrete, Deduct	-5.94		
	For 3,500 PSI Concrete, Add	11.00		
	For 3,750 PSI Concrete, Add	14.96		
	For 4,000 PSI Concrete, Add	18.92		
	For 4,500 PSI Concrete, Add	22.00		
	For 5,000 PSI Concrete, Add	25.08		
	For 6,000 PSI Concrete, Add	59.40		
	For White Cement Concrete, Add	26.40		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
	For High Early Strength, Type 3 ASTM C150, Add	22.00		
	For Lightweight Aggregate, ASTM C330, Add	66.00		
	For Up To 20, Add	27.74		
	For >20 To 50, Add	10.40		
	For >100 To 200, Deduct	-5.79		
	For >200 To 400, Deduct	-11.57		
	For >400, Deduct	-17.36		
03 30 53 00-0003	Place Concrete Slurry (03 30 53)			
03 30 53 00-0004	CY Direct Chute, Place Two Sack Cement, Concrete Slurry	229.22		
	Note: Two 94# sack cement per CY.			
03 30 53 00-0005	CY Concrete Pump, Place Two Sack Cement, Concrete Slurry	223.10		
	Note: Two 94# sack cement per CY. Excludes pumping equipment.			
03 30 53 00-0006	Hand Mix And Place Concrete (03 30 53)			
03 30 53 00-0007	CF Hand Mix And Place Concrete.....	32.65		
	Note: For use where conventional equipment access is limited or when directed by the owner.			
	For 2,000 PSI Concrete, Deduct	-0.51		
	For 2,500 PSI Concrete, Deduct	-0.25		
	For 3,500 PSI Concrete, Add	0.47		
	For 3,750 PSI Concrete, Add	0.64		
	For 4,000 PSI Concrete, Add	0.81		
	For 4,500 PSI Concrete, Add	0.94		
	For 5,000 PSI Concrete, Add	1.07		
	For 6,000 PSI Concrete, Add	2.54		
	For White Cement Concrete, Add	1.13		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	1.22		
	For High Early Strength, Type 3 ASTM C150, Add	0.94		
	For Lightweight Aggregate, ASTM C330, Add	2.82		
03 31	Structural Concrete (03 30)			
03 31 13	Heavyweight Structural Concrete (03 31)			
	Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.			
03 31 13 00-0001	Concrete Slab Assemblies (03 31 13)			
03 31 13 00-0002	3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)			
	Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.			
03 31 13 00-0003	SF 4" 3,000 PSI Slab On Grade Concrete Slabs Assembly	8.85		
	For 2,000 PSI Concrete, Deduct	-0.29		
	For 2,500 PSI Concrete, Deduct	-0.14		
	For 3,500 PSI Concrete, Add	0.10		
	For 4,000 PSI Concrete, Add	0.34		
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13		
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40		
	For Up To 500, Add	3.17		
	For >500 To 1,000, Add	2.21		
	For >1,000 To 2,000, Add	1.24		
	For >2,000 To 5,000, Add	0.62		
	For >10,000 To 20,000, Deduct	-0.27		
	For >20,000 To 35,000, Deduct	-0.49		
	For >35,000 To 50,000, Deduct	-0.71		
	For >50,000 To 70,000, Deduct	-0.93		
	For >70,000, Deduct	-1.15		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0004	SF		5" 3,000 PSI Slab On Grade Concrete Slabs Assembly	9.74	
			For 2,000 PSI Concrete, Deduct	-0.33	
			For 2,500 PSI Concrete, Deduct	-0.16	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.38	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.42	
			For >500 To 1,000, Add	2.38	
			For >1,000 To 2,000, Add	1.34	
			For >2,000 To 5,000, Add	0.67	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000 To 35,000, Deduct	-0.55	
			For >35,000 To 50,000, Deduct	-0.79	
			For >50,000 To 70,000, Deduct	-1.03	
			For >70,000, Deduct	-1.28	
03 31 13 00-0005	SF		6" 3,000 PSI Slab On Grade Concrete Slabs Assembly	11.01	
			For 2,000 PSI Concrete, Deduct	-0.38	
			For 2,500 PSI Concrete, Deduct	-0.19	
			For 3,500 PSI Concrete, Add	0.13	
			For 4,000 PSI Concrete, Add	0.45	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.77	
			For >500 To 1,000, Add	2.63	
			For >1,000 To 2,000, Add	1.49	
			For >2,000 To 5,000, Add	0.75	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000 To 35,000, Deduct	-0.63	
			For >35,000 To 50,000, Deduct	-0.91	
			For >50,000 To 70,000, Deduct	-1.18	
			For >70,000, Deduct	-1.46	
03 31 13 00-0006	SF		7" 3,000 PSI Slab On Grade Concrete Slabs Assembly	12.24	
			For 2,000 PSI Concrete, Deduct	-0.44	
			For 2,500 PSI Concrete, Deduct	-0.22	
			For 3,500 PSI Concrete, Add	0.16	
			For 4,000 PSI Concrete, Add	0.51	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	4.08	
			For >500 To 1,000, Add	2.86	
			For >1,000 To 2,000, Add	1.63	
			For >2,000 To 5,000, Add	0.82	
			For >10,000 To 20,000, Deduct	-0.41	
			For >20,000 To 35,000, Deduct	-0.71	
			For >35,000 To 50,000, Deduct	-1.02	
			For >50,000 To 70,000, Deduct	-1.33	
			For >70,000, Deduct	-1.63	
03 31 13 00-0007	SF		8" 3,000 PSI Slab On Grade Concrete Slabs Assembly	13.28	
			For 2,000 PSI Concrete, Deduct	-0.49	
			For 2,500 PSI Concrete, Deduct	-0.24	
			For 3,500 PSI Concrete, Add	0.17	
			For 4,000 PSI Concrete, Add	0.57	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	4.36	
			For >500 To 1,000, Add	3.05	
			For >1,000 To 2,000, Add	1.75	
			For >2,000 To 5,000, Add	0.88	
			For >10,000 To 20,000, Deduct	-0.45	
			For >20,000 To 35,000, Deduct	-0.78	
			For >35,000 To 50,000, Deduct	-1.12	
			For >50,000 To 70,000, Deduct	-1.45	
			For >70,000, Deduct	-1.78	
03 31 13 00-0008	SF		10" 3,000 PSI Slab On Grade Concrete Slabs Assembly	15.98	
			For 2,000 PSI Concrete, Deduct	-0.62	
			For 2,500 PSI Concrete, Deduct	-0.31	
			For 3,500 PSI Concrete, Add	0.22	
			For 4,000 PSI Concrete, Add	0.72	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	5.02	
			For >500 To 1,000, Add	3.54	
			For >1,000 To 2,000, Add	2.06	
			For >2,000 To 5,000, Add	1.03	
			For >10,000 To 20,000, Deduct	-0.57	
			For >20,000 To 35,000, Deduct	-0.97	
			For >35,000 To 50,000, Deduct	-1.37	
			For >50,000 To 70,000, Deduct	-1.77	
			For >70,000, Deduct	-2.17	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0009 SF 12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	18.04	
For 2,000 PSI Concrete, Deduct	-0.71	
For 2,500 PSI Concrete, Deduct	-0.36	
For 3,500 PSI Concrete, Add	0.25	
For 4,000 PSI Concrete, Add	0.83	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	5.56	
For >500 To 1,000, Add	3.93	
For >1,000 To 2,000, Add	2.29	
For >2,000 To 5,000, Add	1.15	
For >10,000 To 20,000, Deduct	-0.66	
For >20,000 To 35,000, Deduct	-1.11	
For >35,000 To 50,000, Deduct	-1.56	
For >50,000 To 70,000, Deduct	-2.01	
For >70,000, Deduct	-2.46	
 03 31 13 00-0010 Concrete Delivery And Placement (03 31 13)		
Note: Includes cleaning out equipment and standard concrete placement tests.		
03 31 13 00-0011 Place Concrete By Method Indicated (03 31 13 00-0010)		
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0012 Place Concrete Pile Caps (03 31 13 00-0011)		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	335.51	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	46.20	
For >20 To 50, Add	17.33	
For >100 To 200, Deduct	-6.71	
For >200 To 400, Deduct	-13.42	
For >400, Deduct	-20.13	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	270.99	
For 2,000 PSI Concrete, Deduct	-11.88	
For 2,500 PSI Concrete, Deduct	-5.94	
For 3,500 PSI Concrete, Add	11.00	
For 3,750 PSI Concrete, Add	14.96	
For 4,000 PSI Concrete, Add	18.92	
For 4,500 PSI Concrete, Add	22.00	
For 5,000 PSI Concrete, Add	25.08	
For 6,000 PSI Concrete, Add	59.40	
For White Cement Concrete, Add	26.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
For High Early Strength, Type 3 ASTM C150, Add	22.00	
For Lightweight Aggregate, ASTM C330, Add	66.00	
For Up To 20, Add	20.40	
For >20 To 50, Add	7.65	
For >100 To 200, Deduct	-5.42	
For >200 To 400, Deduct	-10.84	
For >400, Deduct	-16.26	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps	286.88	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-12.87	
For 2,500 PSI Concrete, Deduct	-6.43	
For 3,500 PSI Concrete, Add	11.92	
For 3,750 PSI Concrete, Add	16.21	
For 4,000 PSI Concrete, Add	20.50	
For 4,500 PSI Concrete, Add	23.83	
For 5,000 PSI Concrete, Add	27.17	
For 6,000 PSI Concrete, Add	64.35	
For White Cement Concrete, Add	28.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
For High Early Strength, Type 3 ASTM C150, Add	23.83	
For Lightweight Aggregate, ASTM C330, Add	71.50	
For Up To 20, Add	19.42	
For >20 To 50, Add	7.28	
For >100 To 200, Deduct	-5.74	
For >200 To 400, Deduct	-11.48	
For >400, Deduct	-17.21	
 03 31 13 00-0016 Place Concrete Continuous Footings (03 31 13 00-0011)		

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
03 31 13 00-0017	CY	Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	322.67	
		For 2,000 PSI Concrete, Deduct	-11.88	
		For 2,500 PSI Concrete, Deduct	-5.94	
		For 3,500 PSI Concrete, Add	11.00	
		For 3,750 PSI Concrete, Add	14.96	
		For 4,000 PSI Concrete, Add	18.92	
		For 4,500 PSI Concrete, Add	22.00	
		For 5,000 PSI Concrete, Add	25.08	
		For 6,000 PSI Concrete, Add	59.40	
		For White Cement Concrete, Add	26.40	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
		For High Early Strength, Type 3 ASTM C150, Add	22.00	
		For Lightweight Aggregate, ASTM C330, Add	66.00	
		For Up To 20, Add	41.07	
		For >20 To 50, Add	15.40	
		For >100 To 200, Deduct	-6.45	
		For >200 To 400, Deduct	-12.91	
		For >400, Deduct	-19.36	
03 31 13 00-0018	CY	Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	265.33	
		For 2,000 PSI Concrete, Deduct	-11.88	
		For 2,500 PSI Concrete, Deduct	-5.94	
		For 3,500 PSI Concrete, Add	11.00	
		For 3,750 PSI Concrete, Add	14.96	
		For 4,000 PSI Concrete, Add	18.92	
		For 4,500 PSI Concrete, Add	22.00	
		For 5,000 PSI Concrete, Add	25.08	
		For 6,000 PSI Concrete, Add	59.40	
		For White Cement Concrete, Add	26.40	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
		For High Early Strength, Type 3 ASTM C150, Add	22.00	
		For Lightweight Aggregate, ASTM C330, Add	66.00	
		For Up To 20, Add	18.14	
		For >20 To 50, Add	6.80	
		For >100 To 200, Deduct	-5.31	
		For >200 To 400, Deduct	-10.61	
		For >400, Deduct	-15.92	
03 31 13 00-0019	CY	Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	281.50	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-12.87	
		For 2,500 PSI Concrete, Deduct	-6.43	
		For 3,500 PSI Concrete, Add	11.92	
		For 3,750 PSI Concrete, Add	16.21	
		For 4,000 PSI Concrete, Add	20.50	
		For 4,500 PSI Concrete, Add	23.83	
		For 5,000 PSI Concrete, Add	27.17	
		For 6,000 PSI Concrete, Add	64.35	
		For White Cement Concrete, Add	28.60	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
		For High Early Strength, Type 3 ASTM C150, Add	23.83	
		For Lightweight Aggregate, ASTM C330, Add	71.50	
		For Up To 20, Add	17.27	
		For >20 To 50, Add	6.48	
		For >100 To 200, Deduct	-5.63	
		For >200 To 400, Deduct	-11.26	
		For >400, Deduct	-16.89	
03 31 13 00-0020		Place Concrete Spread Footings (03 31 13 00-0011)		
03 31 13 00-0021	CY	Crane And Bucket, Place 3,000 PSI Concrete Spread Footings	393.26	
		For 2,000 PSI Concrete, Deduct	-11.88	
		For 2,500 PSI Concrete, Deduct	-5.94	
		For 3,500 PSI Concrete, Add	11.00	
		For 3,750 PSI Concrete, Add	14.96	
		For 4,000 PSI Concrete, Add	18.92	
		For 4,500 PSI Concrete, Add	22.00	
		For 5,000 PSI Concrete, Add	25.08	
		For 6,000 PSI Concrete, Add	59.40	
		For White Cement Concrete, Add	26.40	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
		For High Early Strength, Type 3 ASTM C150, Add	22.00	
		For Lightweight Aggregate, ASTM C330, Add	66.00	
		For Up To 20, Add	69.31	
		For >20 To 50, Add	25.99	
		For >100 To 200, Deduct	-7.87	
		For >200 To 400, Deduct	-15.73	
		For >400, Deduct	-23.60	



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

03

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0022	CY		Direct Chute, Place 3,000 PSI Concrete Spread Footings	296.49	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	30.60	
			For >20 To 50, Add	11.48	
			For >100 To 200, Deduct	-5.93	
			For >200 To 400, Deduct	-11.86	
			For >400, Deduct	-17.79	
03 31 13 00-0023	CY		Concrete Pump, Place 3,000 PSI Concrete Spread Footings	311.18	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-12.87	
			For 2,500 PSI Concrete, Deduct	-6.43	
			For 3,500 PSI Concrete, Add	11.92	
			For 3,750 PSI Concrete, Add	16.21	
			For 4,000 PSI Concrete, Add	20.50	
			For 4,500 PSI Concrete, Add	23.83	
			For 5,000 PSI Concrete, Add	27.17	
			For 6,000 PSI Concrete, Add	64.35	
			For White Cement Concrete, Add	28.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98	
			For High Early Strength, Type 3 ASTM C150, Add	23.83	
			For Lightweight Aggregate, ASTM C330, Add	71.50	
			For Up To 20, Add	29.14	
			For >20 To 50, Add	10.93	
			For >100 To 200, Deduct	-6.22	
			For >200 To 400, Deduct	-12.45	
			For >400, Deduct	-18.67	
03 31 13 00-0024			Place Concrete Mat Foundation (03 31 13 00-0011)	250.79	
03 31 13 00-0025	CY		Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	250.79	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	12.32	
			For >20 To 50, Add	4.62	
			For >100 To 200, Deduct	-5.02	
			For >200 To 400, Deduct	-10.03	
			For >400, Deduct	-15.05	
03 31 13 00-0026	CY		Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	233.59	
			For 2,000 PSI Concrete, Deduct	-11.88	
			For 2,500 PSI Concrete, Deduct	-5.94	
			For 3,500 PSI Concrete, Add	11.00	
			For 3,750 PSI Concrete, Add	14.96	
			For 4,000 PSI Concrete, Add	18.92	
			For 4,500 PSI Concrete, Add	22.00	
			For 5,000 PSI Concrete, Add	25.08	
			For 6,000 PSI Concrete, Add	59.40	
			For White Cement Concrete, Add	26.40	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60	
			For High Early Strength, Type 3 ASTM C150, Add	22.00	
			For Lightweight Aggregate, ASTM C330, Add	66.00	
			For Up To 20, Add	5.44	
			For >20 To 50, Add	2.04	
			For >100 To 200, Deduct	-4.67	
			For >200 To 400, Deduct	-9.34	
			For >400, Deduct	-14.02	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 31 13 00-0027	CY	Concrete Pump, Place 3,000 PSI Concrete Mat Foundation	249.65		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-12.87		
		For 2,500 PSI Concrete, Deduct	-6.43		
		For 3,500 PSI Concrete, Add	11.92		
		For 3,750 PSI Concrete, Add	16.21		
		For 4,000 PSI Concrete, Add	20.50		
		For 4,500 PSI Concrete, Add	23.83		
		For 5,000 PSI Concrete, Add	27.17		
		For 6,000 PSI Concrete, Add	64.35		
		For White Cement Concrete, Add	28.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98		
		For High Early Strength, Type 3 ASTM C150, Add	23.83		
		For Lightweight Aggregate, ASTM C330, Add	71.50		
		For Up To 20, Add	4.53		
		For >20 To 50, Add	1.70		
		For >100 To 200, Deduct	-4.99		
		For >200 To 400, Deduct	-9.99		
		For >400, Deduct	-14.98		
03 31 13 00-0028		Place Concrete Grade Beams (03 31 13 00-0011)			
03 31 13 00-0029	CY	Crane And Bucket, Place 3,000 PSI Concrete Grade Beams	302.13		
		For 2,000 PSI Concrete, Deduct	-11.88		
		For 2,500 PSI Concrete, Deduct	-5.94		
		For 3,500 PSI Concrete, Add	11.00		
		For 3,750 PSI Concrete, Add	14.96		
		For 4,000 PSI Concrete, Add	18.92		
		For 4,500 PSI Concrete, Add	22.00		
		For 5,000 PSI Concrete, Add	25.08		
		For 6,000 PSI Concrete, Add	59.40		
		For White Cement Concrete, Add	26.40		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
		For High Early Strength, Type 3 ASTM C150, Add	22.00		
		For Lightweight Aggregate, ASTM C330, Add	66.00		
		For Up To 20, Add	32.86		
		For >20 To 50, Add	12.32		
		For >100 To 200, Deduct	-6.04		
		For >200 To 400, Deduct	-12.09		
		For >400, Deduct	-18.13		
03 31 13 00-0030	CY	Direct Chute, Place 3,000 PSI Concrete Grade Beams	256.26		
		For 2,000 PSI Concrete, Deduct	-11.88		
		For 2,500 PSI Concrete, Deduct	-5.94		
		For 3,500 PSI Concrete, Add	11.00		
		For 3,750 PSI Concrete, Add	14.96		
		For 4,000 PSI Concrete, Add	18.92		
		For 4,500 PSI Concrete, Add	22.00		
		For 5,000 PSI Concrete, Add	25.08		
		For 6,000 PSI Concrete, Add	59.40		
		For White Cement Concrete, Add	26.40		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
		For High Early Strength, Type 3 ASTM C150, Add	22.00		
		For Lightweight Aggregate, ASTM C330, Add	66.00		
		For Up To 20, Add	14.51		
		For >20 To 50, Add	5.44		
		For >100 To 200, Deduct	-5.13		
		For >200 To 400, Deduct	-10.25		
		For >400, Deduct	-15.38		
03 31 13 00-0031	CY	Concrete Pump, Place 3,000 PSI Concrete Grade Beams	272.86		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-12.87		
		For 2,500 PSI Concrete, Deduct	-6.43		
		For 3,500 PSI Concrete, Add	11.92		
		For 3,750 PSI Concrete, Add	16.21		
		For 4,000 PSI Concrete, Add	20.50		
		For 4,500 PSI Concrete, Add	23.83		
		For 5,000 PSI Concrete, Add	27.17		
		For 6,000 PSI Concrete, Add	64.35		
		For White Cement Concrete, Add	28.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98		
		For High Early Strength, Type 3 ASTM C150, Add	23.83		
		For Lightweight Aggregate, ASTM C330, Add	71.50		
		For Up To 20, Add	13.82		
		For >20 To 50, Add	5.18		
		For >100 To 200, Deduct	-5.46		
		For >200 To 400, Deduct	-10.91		
		For >400, Deduct	-16.37		
03 31 13 00-0032		Place Concrete Slab On Grade (03 31 13 00-0011)			



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 31 13 00-0033	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....		304.06	
	For 2,000 PSI Concrete, Deduct	-11.88		
	For 2,500 PSI Concrete, Deduct	-5.94		
	For 3,500 PSI Concrete, Add	11.00		
	For 3,750 PSI Concrete, Add	14.96		
	For 4,000 PSI Concrete, Add	18.92		
	For 4,500 PSI Concrete, Add	22.00		
	For 5,000 PSI Concrete, Add	25.08		
	For 6,000 PSI Concrete, Add	59.40		
	For White Cement Concrete, Add	26.40		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
	For High Early Strength, Type 3 ASTM C150, Add	22.00		
	For Lightweight Aggregate, ASTM C330, Add	66.00		
	For Up To 20, Add	33.63		
	For >20 To 50, Add	12.61		
	For >100 To 200, Deduct	-6.08		
	For >200 To 400, Deduct	-12.16		
	For >400, Deduct	-18.24		
03 31 13 00-0034	CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade		283.78	
	For 2,000 PSI Concrete, Deduct	-11.88		
	For 2,500 PSI Concrete, Deduct	-5.94		
	For 3,500 PSI Concrete, Add	11.00		
	For 3,750 PSI Concrete, Add	14.96		
	For 4,000 PSI Concrete, Add	18.92		
	For 4,500 PSI Concrete, Add	22.00		
	For 5,000 PSI Concrete, Add	25.08		
	For 6,000 PSI Concrete, Add	59.40		
	For White Cement Concrete, Add	26.40		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
	For High Early Strength, Type 3 ASTM C150, Add	22.00		
	For Lightweight Aggregate, ASTM C330, Add	66.00		
	For Up To 20, Add	25.52		
	For >20 To 50, Add	9.57		
	For >100 To 200, Deduct	-5.68		
	For >200 To 400, Deduct	-11.35		
	For >400, Deduct	-17.03		
03 31 13 00-0035	CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....		257.11	
	For 2,000 PSI Concrete, Deduct	-11.88		
	For 2,500 PSI Concrete, Deduct	-5.94		
	For 3,500 PSI Concrete, Add	11.00		
	For 3,750 PSI Concrete, Add	14.96		
	For 4,000 PSI Concrete, Add	18.92		
	For 4,500 PSI Concrete, Add	22.00		
	For 5,000 PSI Concrete, Add	25.08		
	For 6,000 PSI Concrete, Add	59.40		
	For White Cement Concrete, Add	26.40		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
	For High Early Strength, Type 3 ASTM C150, Add	22.00		
	For Lightweight Aggregate, ASTM C330, Add	66.00		
	For Up To 20, Add	14.85		
	For >20 To 50, Add	5.57		
	For >100 To 200, Deduct	-5.14		
	For >200 To 400, Deduct	-10.28		
	For >400, Deduct	-15.43		
03 31 13 00-0036	CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade		248.15	
	For 2,000 PSI Concrete, Deduct	-11.88		
	For 2,500 PSI Concrete, Deduct	-5.94		
	For 3,500 PSI Concrete, Add	11.00		
	For 3,750 PSI Concrete, Add	14.96		
	For 4,000 PSI Concrete, Add	18.92		
	For 4,500 PSI Concrete, Add	22.00		
	For 5,000 PSI Concrete, Add	25.08		
	For 6,000 PSI Concrete, Add	59.40		
	For White Cement Concrete, Add	26.40		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
	For High Early Strength, Type 3 ASTM C150, Add	22.00		
	For Lightweight Aggregate, ASTM C330, Add	66.00		
	For Up To 20, Add	11.26		
	For >20 To 50, Add	4.22		
	For >100 To 200, Deduct	-4.96		
	For >200 To 400, Deduct	-9.93		
	For >400, Deduct	-14.89		

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 31 13 00-0037	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	269.25		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-12.87		
		For 2,500 PSI Concrete, Deduct	-6.43		
		For 3,500 PSI Concrete, Add	11.92		
		For 3,750 PSI Concrete, Add	16.21		
		For 4,000 PSI Concrete, Add	20.50		
		For 4,500 PSI Concrete, Add	23.83		
		For 5,000 PSI Concrete, Add	27.17		
		For 6,000 PSI Concrete, Add	64.35		
		For White Cement Concrete, Add	28.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98		
		For High Early Strength, Type 3 ASTM C150, Add	23.83		
		For Lightweight Aggregate, ASTM C330, Add	71.50		
		For Up To 20, Add	12.37		
		For >20 To 50, Add	4.64		
		For >100 To 200, Deduct	-5.39		
		For >200 To 400, Deduct	-10.77		
		For >400, Deduct	-16.16		
03 31 13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	261.78		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-12.87		
		For 2,500 PSI Concrete, Deduct	-6.43		
		For 3,500 PSI Concrete, Add	11.92		
		For 3,750 PSI Concrete, Add	16.21		
		For 4,000 PSI Concrete, Add	20.50		
		For 4,500 PSI Concrete, Add	23.83		
		For 5,000 PSI Concrete, Add	27.17		
		For 6,000 PSI Concrete, Add	64.35		
		For White Cement Concrete, Add	28.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98		
		For High Early Strength, Type 3 ASTM C150, Add	23.83		
		For Lightweight Aggregate, ASTM C330, Add	71.50		
		For Up To 20, Add	9.38		
		For >20 To 50, Add	3.52		
		For >100 To 200, Deduct	-5.24		
		For >200 To 400, Deduct	-10.47		
		For >400, Deduct	-15.71		
03 31 13 00-0039		Place Concrete Duct Bank (03 31 13 00-0011)			
03 31 13 00-0040	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank	250.70		
		For 2,000 PSI Concrete, Deduct	-11.88		
		For 2,500 PSI Concrete, Deduct	-5.94		
		For 3,500 PSI Concrete, Add	11.00		
		For 3,750 PSI Concrete, Add	14.96		
		For 4,000 PSI Concrete, Add	18.92		
		For 4,500 PSI Concrete, Add	22.00		
		For 5,000 PSI Concrete, Add	25.08		
		For 6,000 PSI Concrete, Add	59.40		
		For White Cement Concrete, Add	26.40		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
		For High Early Strength, Type 3 ASTM C150, Add	22.00		
		For Lightweight Aggregate, ASTM C330, Add	66.00		
		For Up To 20, Add	12.28		
		For >20 To 50, Add	4.61		
		For >100 To 200, Deduct	-5.01		
		For >200 To 400, Deduct	-10.03		
		For >400, Deduct	-15.04		
03 31 13 00-0041		Place Concrete Stairs (03 31 13 00-0011)			
03 31 13 00-0042	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	598.26		
		For 2,000 PSI Concrete, Deduct	-11.88		
		For 2,500 PSI Concrete, Deduct	-5.94		
		For 3,500 PSI Concrete, Add	11.00		
		For 3,750 PSI Concrete, Add	14.96		
		For 4,000 PSI Concrete, Add	18.92		
		For 4,500 PSI Concrete, Add	22.00		
		For 5,000 PSI Concrete, Add	25.08		
		For 6,000 PSI Concrete, Add	59.40		
		For White Cement Concrete, Add	26.40		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
		For High Early Strength, Type 3 ASTM C150, Add	22.00		
		For Lightweight Aggregate, ASTM C330, Add	66.00		
		For Up To 20, Add	151.31		
		For >20 To 50, Add	56.74		
		For >100 To 200, Deduct	-11.97		
		For >200 To 400, Deduct	-23.93		
		For >400, Deduct	-35.90		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 31 13 00-0043	CY Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	387.02		
	For 2,000 PSI Concrete, Deduct	-11.88		
	For 2,500 PSI Concrete, Deduct	-5.94		
	For 3,500 PSI Concrete, Add	11.00		
	For 3,750 PSI Concrete, Add	14.96		
	For 4,000 PSI Concrete, Add	18.92		
	For 4,500 PSI Concrete, Add	22.00		
	For 5,000 PSI Concrete, Add	25.08		
	For 6,000 PSI Concrete, Add	59.40		
	For White Cement Concrete, Add	26.40		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	28.60		
	For High Early Strength, Type 3 ASTM C150, Add	22.00		
	For Lightweight Aggregate, ASTM C330, Add	66.00		
	For Up To 20, Add	66.81		
	For >20 To 50, Add	25.05		
	For >100 To 200, Deduct	-7.74		
	For >200 To 400, Deduct	-15.48		
	For >400, Deduct	-23.22		
03 31 13 00-0044	CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs.....	377.53		
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct	-12.87		
	For 2,500 PSI Concrete, Deduct	-6.43		
	For 3,500 PSI Concrete, Add	11.92		
	For 3,750 PSI Concrete, Add	16.21		
	For 4,000 PSI Concrete, Add	20.50		
	For 4,500 PSI Concrete, Add	23.83		
	For 5,000 PSI Concrete, Add	27.17		
	For 6,000 PSI Concrete, Add	64.35		
	For White Cement Concrete, Add	28.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.98		
	For High Early Strength, Type 3 ASTM C150, Add	23.83		
	For Lightweight Aggregate, ASTM C330, Add	71.50		
	For Up To 20, Add	55.68		
	For >20 To 50, Add	20.88		
	For >100 To 200, Deduct	-7.55		
	For >200 To 400, Deduct	-15.10		
	For >400, Deduct	-22.65		
03 31 13 00-0045	Concrete Carts (03 31 13 00-0010)			
	Note: Used to place concrete were necessary.			
03 31 13 00-0046	CY 50' Haul, Non Motorized, Concrete Buggy.....	22.09		
03 31 13 00-0047	CY 150' Haul, Non Motorized, Concrete Buggy.....	29.57		
03 31 13 00-0048	CY 250' Haul, Non Motorized, Concrete Buggy.....	39.44		
03 31 13 00-0049	CY 50' Haul, Motorized, Concrete Buggy.....	10.05		
03 31 13 00-0050	CY 150' Haul, Motorized, Concrete Buggy.....	13.46		
03 31 13 00-0051	CY 250' Haul, Motorized, Concrete Buggy.....	17.96		
03 31 13 00-0052	Delivery Fee For Small Purchases (03 31 13)			
03 31 13 00-0053	CY Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	26.84		
	Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.			
03 31 13 00-0054	Equipment Pads (03 31 13)			
03 31 13 00-0055	Small Concrete Equipment Housekeeping Pad Assemblies (03 31 13 00-0054)			
	Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.			
03 31 13 00-0056	SF 4" Equipment Pad With Welded Wire Reinforcement	18.18		
	For >5 To 20 Pads, Deduct	-2.13		
	For >20 To 50 Pads, Deduct	-3.90		
	For >50 Pads, Deduct	-5.67		
03 31 13 00-0057	SF 4" Equipment Pad With Rebar	22.29		
	For >5 To 20 Pads, Deduct	-2.45		
	For >20 To 50 Pads, Deduct	-4.50		
	For >50 Pads, Deduct	-6.54		
03 31 13 00-0058	SF 6" Equipment Pad With Rebar	28.32		
	For >5 To 20 Pads, Deduct	-3.08		
	For >20 To 50 Pads, Deduct	-5.65		
	For >50 Pads, Deduct	-8.22		
03 31 13 00-0059	SF 8" Equipment Pad With Rebar	35.71		
	For >5 To 20 Pads, Deduct	-3.92		
	For >20 To 50 Pads, Deduct	-7.19		
	For >50 Pads, Deduct	-10.45		
03 31 13 00-0060	Delivery Fee For Concrete, Per Truck Load (03 31 13)			
03 31 13 00-0061	EA Concrete Delivery Fee, Per Truck.....	40.00		
	Note: To be added to all concrete leaving concrete yard			
03 31 16	Lightweight Structural Concrete (03 31)			

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 16 00-0001 Low Density Cellular / Foam Concrete Fill (03 31 16)
 03 31 16 00-0002 CY Lightweight Low Density Cellular/Foam Concrete, 100 To 120 PCF Density Range 258.99

03 35 Concrete Finishing (03 35)**03 35 19 Colored Concrete Finishing** (03 35)

03 35 19 00-0001 Concrete Surface Treatments (03 35 19)
 03 35 19 00-0002 SF Acrylic Latex Bonding Agent 0.47
 03 35 19 00-0003 SF Epoxy Resin Bonding Agent 2.75
 03 35 19 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproof 0.33
 03 35 19 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproof 0.35

03 35 23 Exposed Aggregate Concrete Finishing (03 35)

03 35 23 00-0001 Exposed Aggregate, Concrete Finish (03 35 23)
 03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish 3.05

03 35 26 Grooved Concrete Surface Finishing (03 35)

03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing (03 35 26)
 03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing 4.17

03 35 29 Tooled Concrete Finishing (03 35)

03 35 29 00-0001 Solid Board Concrete Finish (03 35 29)
 03 35 29 00-0002 SF Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork 16.86

03 35 29 00-0003 Marblecrete Finishes (03 35 29)

03 35 29 00-0004 SF 2" Thick Marblecrete And Finish 51.47
 03 35 29 00-0005 SF 4" Thick Marblecrete And Finish 68.90

03 35 43 Polished Concrete Finishing (03 35)**03 35 43 00-0001 Concrete Floor Polishing System** (03 35 43)

Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.

03 35 43 00-0002 SF Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels 1.76
 For Up To 500, Add 3.34
 For >500 To 1,000, Add 3.10
 For >1,000 To 2,500, Add 2.05
 For >2,500 To 4,000, Add 1.07
 For >8,000 To 15,000, Deduct -0.41
 For >15,000 To 25,000, Deduct -0.52
 For >25,000, Deduct -0.74
 03 35 43 00-0003 SF Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels 1.42
 For Up To 500, Add 2.68
 For >500 To 1,000, Add 2.48
 For >1,000 To 2,500, Add 1.64
 For >2,500 To 4,000, Add 0.86
 For >8,000 To 15,000, Deduct -0.33
 For >15,000 To 25,000, Deduct -0.42
 For >25,000, Deduct -0.59
 03 35 43 00-0004 SF Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels 1.19
 For Up To 500, Add 2.23
 For >500 To 1,000, Add 2.07
 For >1,000 To 2,500, Add 1.37
 For >2,500 To 4,000, Add 0.71
 For >8,000 To 15,000, Deduct -0.28
 For >15,000 To 25,000, Deduct -0.35
 For >25,000, Deduct -0.49
 03 35 43 00-0005 SF Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels 1.11
 For Up To 500, Add 2.08
 For >500 To 1,000, Add 1.93
 For >1,000 To 2,500, Add 1.27
 For >2,500 To 4,000, Add 0.66
 For >8,000 To 15,000, Deduct -0.26
 For >15,000 To 25,000, Deduct -0.33
 For >25,000, Deduct -0.46
 03 35 43 00-0006 SF Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels 1.02
 For Up To 500, Add 1.90
 For >500 To 1,000, Add 1.76
 For >1,000 To 2,500, Add 1.17
 For >2,500 To 4,000, Add 0.61
 For >8,000 To 15,000, Deduct -0.24
 For >15,000 To 25,000, Deduct -0.30
 For >25,000, Deduct -0.42



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0007 SF Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels 1.02		
For Up To 500, Add	1.90	
For >500 To 1,000, Add	1.76	
For >1,000 To 2,500, Add	1.17	
For >2,500 To 4,000, Add	0.61	
For >8,000 To 15,000, Deduct	-0.24	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0008 SF Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels 1.02		
For Up To 500, Add	1.90	
For >500 To 1,000, Add	1.76	
For >1,000 To 2,500, Add	1.17	
For >2,500 To 4,000, Add	0.61	
For >8,000 To 15,000, Deduct	-0.24	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0009 SF Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels 1.02		
For Up To 500, Add	1.90	
For >500 To 1,000, Add	1.76	
For >1,000 To 2,500, Add	1.17	
For >2,500 To 4,000, Add	0.61	
For >8,000 To 15,000, Deduct	-0.24	
For >15,000 To 25,000, Deduct	-0.30	
For >25,000, Deduct	-0.42	
03 35 43 00-0010 SF High Speed Burnish Concrete Floor With Diamond Pads..... 0.25		
For Up To 500, Add	0.41	
For >500 To 1,000, Add	0.38	
For >1,000 To 2,500, Add	0.25	
For >2,500 To 4,000, Add	0.13	
For >8,000 To 15,000, Deduct	-0.05	
For >15,000 To 25,000, Deduct	-0.06	
For >25,000, Deduct	-0.09	
03 35 43 00-0011 SF Apply 1 Coat Of Concrete Densifier 0.45		
For Up To 500, Add	0.50	
For >500 To 1,000, Add	0.47	
For >1,000 To 2,500, Add	0.31	
For >2,500 To 4,000, Add	0.16	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.08	
For >25,000, Deduct	-0.11	
03 35 43 00-0012 SF Apply 2 Coats Of Concrete Densifier With Stain Protector 0.77		
For Up To 500, Add	0.76	
For >500 To 1,000, Add	0.70	
For >1,000 To 2,500, Add	0.46	
For >2,500 To 4,000, Add	0.24	
For >8,000 To 15,000, Deduct	-0.09	
For >15,000 To 25,000, Deduct	-0.12	
For >25,000, Deduct	-0.17	
03 35 43 00-0013 SF Concrete Floor Polishing Final Clean Up 0.14		
For Up To 500, Add	0.27	
For >500 To 1,000, Add	0.25	
For >1,000 To 2,500, Add	0.17	
For >2,500 To 4,000, Add	0.09	
For >8,000 To 15,000, Deduct	-0.03	
For >15,000 To 25,000, Deduct	-0.04	
For >25,000, Deduct	-0.06	

03 35 83 Concrete Wall Finishing (03 35)

03 35 83 00-0001 Wall Finishes (03 35 83)

03 35 83 00-0002 SF Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes..... 4.79	
Note: 4.5 Lbs of sand or abrasive material per SF	
For Up To 100, Add	7.88
For >100 To 250, Add	1.97
For >250 To 500, Add	0.99
For >5,000 To 10,000, Deduct	-0.20
For >10,000, Deduct	-0.39
03 35 83 00-0003 SF >1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes..... 9.57	
Note: 9 Lbs of sand abrasive material per SF	
For Up To 100, Add	15.72
For >100 To 250, Add	3.93
For >250 To 500, Add	1.97
For >5,000 To 10,000, Deduct	-0.39
For >10,000, Deduct	-0.79

03 37 Specialty Placed Concrete (03 30)

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

03 37 13 Shotcrete (03 37)

03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair (03 37 13)

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0002	SF		1" Thick Shotcrete, Fiber Reinforced	3.12	
			For Up To 25, Add	0.59	
			For >25 To 50, Add	0.34	
			For >50 To 150, Add	0.14	
03 37 13 00-0003	SF		1-1/2" Thick Shotcrete, Fiber Reinforced	4.34	
			For Up To 25, Add	0.79	
			For >25 To 50, Add	0.46	
			For >50 To 150, Add	0.18	
			For High Strength Shotcrete Repair, Add	1.34	
			For Polymer Modified Shotcrete, Add	1.06	
03 37 13 00-0004	SF		2" Thick Shotcrete, Fiber Reinforced	5.90	
			For Up To 25, Add	1.08	
			For >25 To 50, Add	0.62	
			For >50 To 150, Add	0.25	
03 37 13 00-0005	SF		2-1/2" Thick Shotcrete, Fiber Reinforced	6.92	
			For Up To 25, Add	1.24	
			For >25 To 50, Add	0.71	
			For >50 To 150, Add	0.27	
			For High Strength Shotcrete Repair, Add	2.12	
			For Polymer Modified Shotcrete, Add	1.71	
03 37 13 00-0006	SF		3" Thick Shotcrete, Fiber Reinforced	8.35	
			For Up To 25, Add	1.50	
			For >25 To 50, Add	0.86	
			For >50 To 150, Add	0.33	
03 37 13 00-0007	SF		4" Thick Shotcrete, Fiber Reinforced	10.54	
			For Up To 25, Add	1.85	
			For >25 To 50, Add	1.06	
			For >50 To 150, Add	0.40	
03 37 13 00-0008	SF		6" Thick Shotcrete, Fiber Reinforced	14.29	
			For Up To 25, Add	2.40	
			For >25 To 50, Add	1.36	
			For >50 To 150, Add	0.49	
03 37 13 00-0009			Gunite (Dry Mix Shotcrete), Sprayed (03 37 13)		
			See CSI section 03 22 11 00-0001 for 2"x2" (W 0.9 x W 0.9) wire mesh reinforcing.		
03 37 13 00-0010	SF		1" Thick Gunite (Dry Mix Shotcrete), Sprayed	3.41	
			For Radius Or Irregular Surface, Add	1.01	
			For Up To 25, Add	0.72	
			For >25 To 50, Add	0.42	
			For >50 To 150, Add	0.19	
03 37 13 00-0011	SF		2" Thick Gunite (Dry Mix Shotcrete), Sprayed	6.29	
			For Radius Or Irregular Surface, Add	1.81	
			For Up To 25, Add	1.31	
			For >25 To 50, Add	0.77	
			For >50 To 150, Add	0.34	
03 37 13 00-0012	SF		3" Thick Gunite (Dry Mix Shotcrete), Sprayed	8.76	
			For Radius Or Irregular Surface, Add	2.44	
			For Up To 25, Add	1.79	
			For >25 To 50, Add	1.05	
			For >50 To 150, Add	0.46	
03 37 13 00-0013	SF		4" Thick Gunite (Dry Mix Shotcrete), Sprayed	10.87	
			For Radius Or Irregular Surface, Add	2.93	
			For Up To 25, Add	2.19	
			For >25 To 50, Add	1.28	
			For >50 To 150, Add	0.55	
03 37 13 00-0014	SF		5" Thick Gunite (Dry Mix Shotcrete), Sprayed	12.68	
			For Radius Or Irregular Surface, Add	3.30	
			For Up To 25, Add	2.50	
			For >25 To 50, Add	1.46	
			For >50 To 150, Add	0.62	
03 37 13 00-0015	SF		6" Thick Gunite (Dry Mix Shotcrete), Sprayed	14.22	
			For Radius Or Irregular Surface, Add	3.56	
			For Up To 25, Add	2.76	
			For >25 To 50, Add	1.60	
			For >50 To 150, Add	0.67	
03 37 13 00-0016	SF		8" Thick Gunite (Dry Mix Shotcrete), Sprayed	17.78	
			For Radius Or Irregular Surface, Add	4.27	
			For Up To 25, Add	3.38	
			For >25 To 50, Add	1.96	
			For >50 To 150, Add	0.80	
03 37 13 00-0017	SF		10" Thick Gunite (Dry Mix Shotcrete), Sprayed	20.88	
			For Radius Or Irregular Surface, Add	4.80	
			For Up To 25, Add	3.89	
			For >25 To 50, Add	2.25	
			For >50 To 150, Add	0.90	
03 37 13 00-0018	SF		12" Thick Gunite (Dry Mix Shotcrete), Sprayed	23.62	
			For Radius Or Irregular Surface, Add	5.19	
			For Up To 25, Add	4.31	
			For >25 To 50, Add	2.48	
			For >50 To 150, Add	0.97	

03 37 16 Pumped Concrete (03 37)



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
03 37 16 00-0001 Concrete Pumping With Boom Truck (03 37 16)				
Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.				
03 37 16 00-0002	HR	55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	170.98	
03 37 16 00-0003	HR	70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	182.34	
03 37 16 00-0004	HR	90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	223.36	
03 37 16 00-0005	HR	105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	248.90	
03 37 16 00-0006	HR	120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	275.25	
03 37 16 00-0007	HR	135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	331.07	
03 37 16 00-0008	HR	148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	364.37	
03 37 16 00-0009	HR	170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	445.03	
03 37 16 00-0010	HR	35 CY/HR, 66 HP Trailer Mounted Concrete Pump.....	122.54	
Note: Includes hoses				
03 39 Concrete Curing (03 39)				
03 39 13 Water Concrete Curing (03 39)				
03 39 13 00-0001 Water Concrete Curing (03 39 13)				
03 39 13 00-0002	SF	Water Based Curing, Sealing, Hardening And Dustproofing Compound.....	0.31	
Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.				
03 39 23 Membrane Concrete Curing (03 39)				
03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)				
03 39 23 23-0001 Warm Weather Concrete Curing Blankets (03 39 23 23)				
03 39 23 23-0002	CSF	Warm Weather Concrete Curing Blankets.....	35.15	
03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)				
03 39 23 23-0004	CSF	Electric, Cold Weather Concrete Curing Blanket	250.30	
03 39 23 23-0005	CSF	Non-Electric, Cold Weather Concrete Curing Blanket	32.32	
03 39 33 Concrete Surface Treatments (03 39)				
03 39 33 00-0001 Shake On Floor Hardeners (03 39 33)				
03 39 33 00-0002	SF	0.3 LB/SF, Metallic, Shake On Floor Hardener.....	1.26	
03 39 33 00-0003	SF	0.65 LB/SF, Metallic, Shake On Floor Hardener	2.03	
03 39 33 00-0004	SF	0.3 LB/SF, Non Metallic, Shake On Floor Hardener	1.18	
03 39 33 00-0005	SF	0.65 LB/SF, Non Metallic, Shake On Floor Hardener	1.49	
03 60 Grouting (03)				
03 61 Cementitious Grouting (03 60)				
Note: 1 part cement to 3 parts sand by volume.				
03 61 16 Cementitious Flowable Grout (03 61)				
03 61 16 00-0001 Cementitious Flowable Grout (03 61 16)				
03 61 16 00-0002	CY	Cementitious Flowable Grout.....	506.74	
03 62 Non-Shrink Grouting (03 60)				
03 62 13 Non-Metallic Non-Shrink Grouting (03 62)				
03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)				
03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases.....	27.19	
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases.....	41.78	
03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases (03 62 13)				
03 62 13 00-0005	SF	1" Deep, Non-Metallic Non-Shrink Grout For Bases.....	42.33	
03 62 13 00-0006	SF	2" Deep, Non-Metallic Non-Shrink Grout For Bases.....	69.77	
03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints (03 62 13)				
03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)				
03 62 13 00-0009	LF	4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.09	
03 62 13 00-0010	LF	6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.76	
03 62 13 00-0011	LF	8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	3.65	

03 Concrete**03 60 Grouting****03 62 Non-Shrink Grouting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 62 13 00-0012		1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)	
03 62 13 00-0013	LF	4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.17
03 62 13 00-0014	LF	6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.28
03 62 13 00-0015	LF	8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	5.68

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

03 62 16 00-0001		Metallic Non-Shrink Grouting For Bases (03 62 16)	
03 62 16 00-0002	SF	1" Deep, Metallic Non-Shrink Grout For Bases.....	34.39
03 62 16 00-0003	SF	2" Deep, Metallic Non-Shrink Grout For Bases.....	54.37

03 62 16 00-0004		Metallic Non-Shrink Grouting For Joints (03 62 16)	
03 62 16 00-0005		1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)	
03 62 16 00-0006	LF	4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.59
03 62 16 00-0007	LF	6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.01
03 62 16 00-0008	LF	8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.68

03 62 16 00-0009		1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)	
03 62 16 00-0010	LF	4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.20
03 62 16 00-0011	LF	6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.78
03 62 16 00-0012	LF	8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	3.72

03 64 Injection Grouting (03 64)

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

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001		Pressure Injected Epoxy Grout (03 64 23)	
03 64 23 00-0002	CF	Pressure Injected Epoxy Grout	1,107.67
		For >4, Deduct	-116.91

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001		Pressure Injected Cementitious Grout (03 64 26)	
03 64 26 00-0002	CF	Pressure Injected Cementitious Grout	192.41
		For >4, Deduct	-49.01

END OF SECTION 03



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 Metals

05 05 Common Work Results for Metals (05)

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

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

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

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

Note: Includes drilling.

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

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

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.13
	For >10 To 50, Deduct	-0.58
	For >50 To 100, Deduct	-1.17
	For >100, Deduct	-2.34
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.22
	For >10 To 50, Deduct	-0.58
	For >50 To 100, Deduct	-1.17
	For >100, Deduct	-2.34
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.59
	For >10 To 50, Deduct	-0.59
	For >50 To 100, Deduct	-1.20
	For >100, Deduct	-2.41
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.86
	For >10 To 50, Deduct	-0.70
	For >50 To 100, Deduct	-1.42
	For >100, Deduct	-2.85
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.92
	For >10 To 50, Deduct	-0.70
	For >50 To 100, Deduct	-1.43
	For >100, Deduct	-2.85
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.95
	For >10 To 50, Deduct	-0.70
	For >50 To 100, Deduct	-1.43
	For >100, Deduct	-2.85
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.21
	For >10 To 50, Deduct	-0.70
	For >50 To 100, Deduct	-1.43
	For >100, Deduct	-2.87
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.45
	For >10 To 50, Deduct	-1.00
	For >50 To 100, Deduct	-2.03
	For >100, Deduct	-4.07
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.50
	For >10 To 50, Deduct	-1.00
	For >50 To 100, Deduct	-2.04
	For >100, Deduct	-4.07
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.61
	For >10 To 50, Deduct	-1.00
	For >50 To 100, Deduct	-2.04
	For >100, Deduct	-4.08
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.91
	For >10 To 50, Deduct	-1.00
	For >50 To 100, Deduct	-2.05
	For >100, Deduct	-4.09
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.31
	For >10 To 50, Deduct	-1.00
	For >50 To 100, Deduct	-2.06
	For >100, Deduct	-4.11
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	27.63
	For >10 To 50, Deduct	-1.23
	For >50 To 100, Deduct	-2.54
	For >100, Deduct	-5.08
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	27.72
	For >10 To 50, Deduct	-1.23
	For >50 To 100, Deduct	-2.54
	For >100, Deduct	-5.08
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	27.90
	For >10 To 50, Deduct	-1.23
	For >50 To 100, Deduct	-2.55
	For >100, Deduct	-5.09
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.26
	For >10 To 50, Deduct	-1.23
	For >50 To 100, Deduct	-2.56
	For >100, Deduct	-5.11
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.62
	For >10 To 50, Deduct	-1.23
	For >50 To 100, Deduct	-2.56
	For >100, Deduct	-5.13

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	31.46	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.64	
			For >100, Deduct	-5.27	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.90	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.70	
			For >100, Deduct	-5.39	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.27	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.03	
			For >100, Deduct	-6.06	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.34	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.03	
			For >100, Deduct	-6.07	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.78	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.04	
			For >100, Deduct	-6.09	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.30	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.06	
			For >100, Deduct	-6.11	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.90	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.07	
			For >100, Deduct	-6.14	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	37.18	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.13	
			For >100, Deduct	-6.26	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	40.21	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.21	
			For >100, Deduct	-6.41	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	43.62	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.29	
			For >100, Deduct	-6.58	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	43.09	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.46	
			For >100, Deduct	-6.93	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	44.87	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.51	
			For >100, Deduct	-7.02	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	47.26	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.57	
			For >100, Deduct	-7.14	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	53.71	
			For >10 To 50, Deduct	-2.06	
			For >50 To 100, Deduct	-4.43	
			For >100, Deduct	-8.86	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	57.09	
			For >10 To 50, Deduct	-2.06	
			For >50 To 100, Deduct	-4.52	
			For >100, Deduct	-9.03	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	60.45	
			For >10 To 50, Deduct	-2.06	
			For >50 To 100, Deduct	-4.60	
			For >100, Deduct	-9.20	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	69.79	
			For >10 To 50, Deduct	-2.64	
			For >50 To 100, Deduct	-5.70	
			For >100, Deduct	-11.40	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	72.20	
			For >10 To 50, Deduct	-2.64	
			For >50 To 100, Deduct	-5.76	
			For >100, Deduct	-11.52	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.48	
			For >10 To 50, Deduct	-0.58	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.41	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.93	
			For >10 To 50, Deduct	-0.58	
			For >50 To 100, Deduct	-1.21	
			For >100, Deduct	-2.43	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043	EA	1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.52		
		For >10 To 50, Deduct	-0.59		
		For >50 To 100, Deduct	-1.25		
		For >100, Deduct	-2.51		
05 05 19 00-0044	EA	3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.29		
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-1.49		
		For >100, Deduct	-2.97		
05 05 19 00-0045	EA	3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.67		
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-1.49		
		For >100, Deduct	-2.99		
05 05 19 00-0046	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.95		
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-1.50		
		For >100, Deduct	-3.00		
05 05 19 00-0047	EA	3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.06		
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-1.55		
		For >100, Deduct	-3.11		
05 05 19 00-0048	EA	1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.78		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.17		
		For >100, Deduct	-4.33		
05 05 19 00-0049	EA	1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.50		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.19		
		For >100, Deduct	-4.37		
05 05 19 00-0050	EA	1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.92		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.20		
		For >100, Deduct	-4.39		
05 05 19 00-0051	EA	1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.84		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.24		
		For >100, Deduct	-4.49		
05 05 19 00-0052	EA	1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.71		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.32		
		For >100, Deduct	-4.63		
05 05 19 00-0053	EA	5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.45		
		For >10 To 50, Deduct	-1.23		
		For >50 To 100, Deduct	-2.81		
		For >100, Deduct	-5.62		
05 05 19 00-0054	EA	5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.32		
		For >10 To 50, Deduct	-1.23		
		For >50 To 100, Deduct	-2.86		
		For >100, Deduct	-5.71		
05 05 19 00-0055	EA	5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.34		
		For >10 To 50, Deduct	-1.23		
		For >50 To 100, Deduct	-2.91		
		For >100, Deduct	-5.81		
05 05 19 00-0056	EA	5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	45.03		
		For >10 To 50, Deduct	-1.23		
		For >50 To 100, Deduct	-2.97		
		For >100, Deduct	-5.95		
05 05 19 00-0057	EA	5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	56.85		
		For >10 To 50, Deduct	-1.23		
		For >50 To 100, Deduct	-3.27		
		For >100, Deduct	-6.54		
05 05 19 00-0058	EA	3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	45.89		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.35		
		For >100, Deduct	-6.69		
05 05 19 00-0059	EA	3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	49.70		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.44		
		For >100, Deduct	-6.88		
05 05 19 00-0060	EA	3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	52.95		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.52		
		For >100, Deduct	-7.05		
05 05 19 00-0061	EA	3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.35		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.53		
		For >100, Deduct	-7.07		
05 05 19 00-0062	EA	3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	56.40		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.61		
		For >100, Deduct	-7.22		
05 05 19 00-0063	EA	3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	64.33		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.81		
		For >100, Deduct	-7.62		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	75.49	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-4.09	
For >100, Deduct	-8.18	
05 05 19 00-0065 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	75.90	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-4.28	
For >100, Deduct	-8.57	
05 05 19 00-0066 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	110.33	
For >10 To 50, Deduct	-2.06	
For >50 To 100, Deduct	-5.85	
For >100, Deduct	-11.70	
05 05 19 00-0067 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	126.84	
For >10 To 50, Deduct	-2.06	
For >50 To 100, Deduct	-6.26	
For >100, Deduct	-12.52	
05 05 19 00-0068 316 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)		
Note: Includes nut and washer.		
05 05 19 00-0069 EA 1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.87	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.21	
For >100, Deduct	-2.43	
05 05 19 00-0070 EA 1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.69	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.51	
05 05 19 00-0071 EA 3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.54	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.52	
For >100, Deduct	-3.03	
05 05 19 00-0072 EA 3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.21	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.07	
05 05 19 00-0073 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.38	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.54	
For >100, Deduct	-3.08	
05 05 19 00-0074 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.55	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.62	
For >100, Deduct	-3.23	
05 05 19 00-0075 EA 1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.81	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.24	
For >100, Deduct	-4.49	
05 05 19 00-0076 EA 1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.65	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.29	
For >100, Deduct	-4.58	
05 05 19 00-0077 EA 1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.99	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.37	
For >100, Deduct	-4.75	
05 05 19 00-0078 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.82	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.39	
For >100, Deduct	-4.79	
05 05 19 00-0079 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	48.68	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-3.07	
For >100, Deduct	-6.13	
05 05 19 00-0080 EA 5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	49.69	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-3.09	
For >100, Deduct	-6.18	
05 05 19 00-0081 EA 3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.22	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.71	
For >100, Deduct	-7.41	
05 05 19 00-0082 EA 3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	64.39	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.81	
For >100, Deduct	-7.62	
05 05 19 00-0083 Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)		
Note: Includes nut and washer.		
05 05 19 00-0084 EA 1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	25.32	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.13	
For >100, Deduct	-4.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA	1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	26.73		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.17		
		For >100, Deduct	-4.33		
05 05 19 00-0086	EA	1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	28.14		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.20		
		For >100, Deduct	-4.40		
05 05 19 00-0087	EA	1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	28.85		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.22		
		For >100, Deduct	-4.44		
05 05 19 00-0088	EA	5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	34.80		
		For >10 To 50, Deduct	-1.23		
		For >50 To 100, Deduct	-2.72		
		For >100, Deduct	-5.44		
05 05 19 00-0089	EA	5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	33.11		
		For >10 To 50, Deduct	-1.23		
		For >50 To 100, Deduct	-2.68		
		For >100, Deduct	-5.35		
05 05 19 00-0090	EA	3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	45.13		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.33		
		For >100, Deduct	-6.66		
05 05 19 00-0091	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	46.68		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.37		
		For >100, Deduct	-6.73		
05 05 19 00-0092	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	54.31		
		For >10 To 50, Deduct	-1.47		
		For >50 To 100, Deduct	-3.56		
		For >100, Deduct	-7.12		
05 05 19 00-0093	EA	1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	57.44		
		For >10 To 50, Deduct	-2.06		
		For >50 To 100, Deduct	-4.53		
		For >100, Deduct	-9.05		
05 05 19 00-0094	EA	1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	61.83		
		For >10 To 50, Deduct	-2.06		
		For >50 To 100, Deduct	-4.64		
		For >100, Deduct	-9.27		
05 05 19 00-0095	EA	1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	66.18		
		For >10 To 50, Deduct	-2.06		
		For >50 To 100, Deduct	-4.74		
		For >100, Deduct	-9.49		
05 05 19 00-0096	Concrete Sleeve Anchors (05 05 19 00-0002)				
05 05 19 00-0097	Zinc Plated Steel, Concrete Sleeve Anchors (05 05 19 00-0096)				
	Note: Includes nut and washer.				
05 05 19 00-0098	EA	1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.22		
		For >10 To 50, Deduct	-0.59		
		For >50 To 100, Deduct	-1.19		
		For >100, Deduct	-2.38		
05 05 19 00-0099	EA	1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.35		
		For >10 To 50, Deduct	-0.59		
		For >50 To 100, Deduct	-1.19		
		For >100, Deduct	-2.39		
05 05 19 00-0100	EA	1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.51		
		For >10 To 50, Deduct	-0.59		
		For >50 To 100, Deduct	-1.20		
		For >100, Deduct	-2.40		
05 05 19 00-0101	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.87		
		For >10 To 50, Deduct	-0.62		
		For >50 To 100, Deduct	-1.25		
		For >100, Deduct	-2.50		
05 05 19 00-0102	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.99		
		For >10 To 50, Deduct	-0.62		
		For >50 To 100, Deduct	-1.25		
		For >100, Deduct	-2.51		
05 05 19 00-0103	EA	3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.58		
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-1.42		
		For >100, Deduct	-2.83		
05 05 19 00-0104	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.80		
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-1.42		
		For >100, Deduct	-2.84		
05 05 19 00-0105	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.01		
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-1.43		
		For >100, Deduct	-2.86		
05 05 19 00-0106	EA	1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	20.95		
		For >10 To 50, Deduct	-1.00		
		For >50 To 100, Deduct	-2.02		
		For >100, Deduct	-4.04		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.22	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.03	
			For >100, Deduct	-4.05	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.46	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.03	
			For >100, Deduct	-4.06	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.75	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.04	
			For >100, Deduct	-4.08	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.21	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.50	
			For >100, Deduct	-5.01	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.62	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.51	
			For >100, Deduct	-5.03	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.94	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.52	
			For >100, Deduct	-5.04	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.83	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.54	
			For >100, Deduct	-5.09	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.94	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.00	
			For >100, Deduct	-6.00	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.71	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.02	
			For >100, Deduct	-6.04	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.41	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.04	
			For >100, Deduct	-6.07	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	34.52	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.06	
			For >100, Deduct	-6.13	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	14.20	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.24	
			For >100, Deduct	-2.48	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	18.52	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.03	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	20.29	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.56	
			For >100, Deduct	-3.12	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	27.55	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.18	
			For >100, Deduct	-4.37	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	30.75	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.26	
			For >100, Deduct	-4.53	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	42.04	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.90	
			For >100, Deduct	-5.80	
05 05 19 00-0125			Concrete Strike Anchors (05 05 19 00-0002)		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	12.85	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.21	
			For >100, Deduct	-2.41	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	13.07	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.21	
			For >100, Deduct	-2.42	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128	EA		5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.65	
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.27	
			For >100, Deduct	-2.54	
05 05 19 00-0129	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	14.55	
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.29	
			For >100, Deduct	-2.59	
05 05 19 00-0130	EA		3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	15.56	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.88	
05 05 19 00-0131	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	16.24	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.46	
			For >100, Deduct	-2.92	
05 05 19 00-0132	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	16.76	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.47	
			For >100, Deduct	-2.94	
05 05 19 00-0133	EA		1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	22.63	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.06	
			For >100, Deduct	-4.12	
05 05 19 00-0134	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	23.03	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.07	
			For >100, Deduct	-4.14	
05 05 19 00-0135	EA		1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	24.22	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.10	
			For >100, Deduct	-4.20	
05 05 19 00-0136	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	25.75	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.14	
			For >100, Deduct	-4.28	
05 05 19 00-0137	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	29.76	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.59	
			For >100, Deduct	-5.18	
05 05 19 00-0138	EA		5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	31.18	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.63	
			For >100, Deduct	-5.26	
05 05 19 00-0139	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	32.43	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.66	
			For >100, Deduct	-5.32	
05 05 19 00-0140	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	37.85	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.15	
			For >100, Deduct	-6.29	
05 05 19 00-0141	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	39.18	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.18	
			For >100, Deduct	-6.36	
05 05 19 00-0142			Multi-Set Drop-In Anchors (05 05 19 00-0002)		
05 05 19 00-0143			Zinc Plated Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		
05 05 19 00-0144	EA		1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	16.99	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.66	
			For >100, Deduct	-3.31	
05 05 19 00-0145	EA		3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	20.77	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.02	
			For >100, Deduct	-4.04	
05 05 19 00-0146	EA		1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	25.19	
			For >10 To 50, Deduct	-1.18	
			For >50 To 100, Deduct	-2.40	
			For >100, Deduct	-4.80	
05 05 19 00-0147	EA		5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	28.43	
			For >10 To 50, Deduct	-1.30	
			For >50 To 100, Deduct	-2.66	
			For >100, Deduct	-5.31	
05 05 19 00-0148	EA		3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	33.79	
			For >10 To 50, Deduct	-1.48	
			For >50 To 100, Deduct	-3.06	
			For >100, Deduct	-6.12	
05 05 19 00-0149			304/18-8 Stainless Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150	EA		1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	20.93	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.76	
			For >100, Deduct	-3.51	
05 05 19 00-0151	EA		3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	28.09	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.20	
			For >100, Deduct	-4.41	
05 05 19 00-0152	EA		1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	35.06	
			For >10 To 50, Deduct	-1.18	
			For >50 To 100, Deduct	-2.65	
			For >100, Deduct	-5.29	
05 05 19 00-0153	EA		5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	44.30	
			For >10 To 50, Deduct	-1.30	
			For >50 To 100, Deduct	-3.05	
			For >100, Deduct	-6.11	
05 05 19 00-0154	EA		3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	61.06	
			For >10 To 50, Deduct	-1.48	
			For >50 To 100, Deduct	-3.74	
			For >100, Deduct	-7.48	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)					
Note: Excludes bolt, nut and washer.					
05 05 19 00-0156	EA		1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	12.41	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.39	
05 05 19 00-0157	EA		5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	13.23	
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.26	
			For >100, Deduct	-2.52	
05 05 19 00-0158	EA		3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	14.96	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.43	
			For >100, Deduct	-2.85	
05 05 19 00-0159	EA		1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	21.75	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.04	
			For >100, Deduct	-4.08	
05 05 19 00-0160	EA		5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	29.59	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.59	
			For >100, Deduct	-5.18	
05 05 19 00-0161	EA		3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	35.63	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.09	
			For >100, Deduct	-6.18	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)					
Note: Excludes lag bolt and washer.					
05 05 19 00-0163	EA		1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	12.75	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.41	
05 05 19 00-0164	EA		5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	15.17	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.43	
			For >100, Deduct	-2.86	
05 05 19 00-0165	EA		3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	15.94	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.45	
			For >100, Deduct	-2.90	
05 05 19 00-0166	EA		1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	22.44	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.06	
			For >100, Deduct	-4.11	
05 05 19 00-0167	EA		5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	28.74	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.57	
			For >100, Deduct	-5.13	
05 05 19 00-0168	EA		3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	32.57	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.01	
			For >100, Deduct	-6.03	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)					
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)					
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.					



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171	EA		1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	15.49	
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.36	
			For >100, Deduct	-2.72	
05 05 19 00-0172	EA		5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	17.82	
			For >10 To 50, Deduct	-0.71	
			For >50 To 100, Deduct	-1.51	
			For >100, Deduct	-3.02	
05 05 19 00-0173	EA		3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	22.13	
			For >10 To 50, Deduct	-0.89	
			For >50 To 100, Deduct	-1.88	
			For >100, Deduct	-3.76	
05 05 19 00-0174	EA		1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	25.79	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.14	
			For >100, Deduct	-4.28	
05 05 19 00-0175	EA		1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	27.12	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.17	
			For >100, Deduct	-4.35	
05 05 19 00-0176	EA		5/8" x 7" Long Chemically Adhered Anchor Rod.....	33.56	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.69	
			For >100, Deduct	-5.37	
05 05 19 00-0177	EA		3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	43.15	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.28	
			For >100, Deduct	-6.56	
05 05 19 00-0178	EA		7/8" x 10" Long Chemically Adhered Anchor Rod.....	50.63	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.65	
			For >100, Deduct	-7.29	
05 05 19 00-0179	EA		1" x 11-3/4" Long Chemically Adhered Anchor Rod	68.83	
			For >10 To 50, Deduct	-2.06	
			For >50 To 100, Deduct	-4.81	
			For >100, Deduct	-9.62	
05 05 19 00-0180	EA		1-1/4" x 14" Long Chemically Adhered Anchor Rod	97.60	
			For >10 To 50, Deduct	-2.60	
			For >50 To 100, Deduct	-6.33	
			For >100, Deduct	-12.67	
05 05 19 00-0181			Chemical Adhesives For Bolts, Dowels Or Threaded Rod (05 05 19 00-0169)		
			Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored.		
			Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA		1/4" Chemical Adhesive For Bolt Or Threaded Rod	13.29	
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.31	
			For >100, Deduct	-2.61	
05 05 19 00-0183	EA		5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	14.56	
			For >10 To 50, Deduct	-0.71	
			For >50 To 100, Deduct	-1.43	
			For >100, Deduct	-2.85	
05 05 19 00-0184	EA		3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	18.22	
			For >10 To 50, Deduct	-0.89	
			For >50 To 100, Deduct	-1.78	
			For >100, Deduct	-3.57	
05 05 19 00-0185	EA		1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	20.67	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.01	
			For >100, Deduct	-4.02	
05 05 19 00-0186	EA		5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	26.41	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.51	
			For >100, Deduct	-5.02	
05 05 19 00-0187	EA		3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	32.43	
			For >10 To 50, Deduct	-1.47	
			For >50 To 100, Deduct	-3.01	
			For >100, Deduct	-6.02	
05 05 19 00-0188	EA		7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	35.88	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.28	
			For >100, Deduct	-6.56	
05 05 19 00-0189	EA		1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	47.39	
			For >10 To 50, Deduct	-2.06	
			For >50 To 100, Deduct	-4.27	
			For >100, Deduct	-8.55	
05 05 19 00-0190	EA		1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	54.20	
			For >10 To 50, Deduct	-2.33	
			For >50 To 100, Deduct	-4.85	
			For >100, Deduct	-9.69	
05 05 19 00-0191	EA		1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	61.86	
			For >10 To 50, Deduct	-2.60	
			For >50 To 100, Deduct	-5.44	
			For >100, Deduct	-10.88	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	66.70	
			For >10 To 50, Deduct	-2.71	
			For >50 To 100, Deduct	-5.74	
			For >100, Deduct	-11.48	
05 05 19 00-0193	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	73.19	
			For >10 To 50, Deduct	-2.83	
			For >50 To 100, Deduct	-6.08	
			For >100, Deduct	-12.16	
05 05 19 00-0194	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	86.19	
			For >10 To 50, Deduct	-3.07	
			For >50 To 100, Deduct	-6.76	
			For >100, Deduct	-13.52	
05 05 19 00-0195	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	113.37	
			For >10 To 50, Deduct	-3.19	
			For >50 To 100, Deduct	-7.61	
			For >100, Deduct	-15.23	
05 05 19 00-0196			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0199)		
05 05 19 00-0197	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	4.40	
			For >10 To 50, Deduct	-0.21	
			For >50 To 100, Deduct	-0.43	
			For >100, Deduct	-0.85	
05 05 19 00-0198			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0199			Tapcon Masonry Screws (05 05 19 00-0199)		
			Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0200	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	12.05	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.37	
05 05 19 00-0201	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	12.11	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.38	
05 05 19 00-0202	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	12.26	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.38	
05 05 19 00-0203	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	12.13	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.38	
05 05 19 00-0204	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	12.20	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.38	
05 05 19 00-0205	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	12.37	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.39	
05 05 19 00-0206			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0198)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0207	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	12.89	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.21	
			For >100, Deduct	-2.41	
05 05 19 00-0208	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	13.28	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.22	
			For >100, Deduct	-2.43	
05 05 19 00-0209	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	13.38	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.22	
			For >100, Deduct	-2.44	
05 05 19 00-0210	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	13.57	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.22	
			For >100, Deduct	-2.45	
05 05 19 00-0211	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	13.73	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 19 00-0212	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.07	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.24	
			For >100, Deduct	-2.47	
05 05 19 00-0213	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	14.49	
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.49	



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

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214	EA	1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	14.88	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.26	
		For >100, Deduct	-2.51	
05 05 19 00-0215	EA	1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	15.95	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.28	
		For >100, Deduct	-2.57	
05 05 19 00-0216	EA	5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	16.08	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.29	
		For >100, Deduct	-2.57	
05 05 19 00-0217	EA	5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	16.74	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.30	
		For >100, Deduct	-2.61	
05 05 19 00-0218	EA	5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	17.42	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.32	
		For >100, Deduct	-2.64	
05 05 19 00-0219	EA	5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	17.85	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.33	
		For >100, Deduct	-2.66	
05 05 19 00-0220	EA	3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	17.66	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.33	
		For >100, Deduct	-2.65	
05 05 19 00-0221	EA	3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	18.29	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.34	
		For >100, Deduct	-2.68	
05 05 19 00-0222	EA	3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	19.75	
		For >10 To 50, Deduct	-0.59	
		For >50 To 100, Deduct	-1.38	
		For >100, Deduct	-2.76	
05 05 19 00-0223		Pin Bolt Drives (05 05 19 00-0198)		
		Note: Includes drilling. Zinc plated.		
05 05 19 00-0224	EA	1/4" x 1" Pin Bolt Drive.....	7.46	
		For >10 To 50, Deduct	-0.35	
		For >50 To 100, Deduct	-0.72	
		For >100, Deduct	-1.44	
05 05 19 00-0225	EA	1/4" x 1-1/4" Pin Bolt Drive.....	7.46	
		For >10 To 50, Deduct	-0.35	
		For >50 To 100, Deduct	-0.72	
		For >100, Deduct	-1.44	
05 05 19 00-0226	EA	1/4" x 1-1/2" Pin Bolt Drive.....	7.51	
		For >10 To 50, Deduct	-0.35	
		For >50 To 100, Deduct	-0.72	
		For >100, Deduct	-1.44	
05 05 19 00-0227	EA	1/4" x 2" Pin Bolt Drive.....	7.52	
		For >10 To 50, Deduct	-0.35	
		For >50 To 100, Deduct	-0.72	
		For >100, Deduct	-1.44	
05 05 19 00-0228		Powder Actuated, Shot-In Place Anchors (05 05 19 00-0198)		
05 05 19 00-0229	EA	0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor	1.83	
		For >10 To 50, Deduct	-0.08	
		For >50 To 100, Deduct	-0.17	
		For >100, Deduct	-0.33	
05 05 19 00-0230	EA	0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor	1.92	
		For >10 To 50, Deduct	-0.08	
		For >50 To 100, Deduct	-0.17	
		For >100, Deduct	-0.34	
05 05 19 00-0231	EA	0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor	2.08	
		For >10 To 50, Deduct	-0.09	
		For >50 To 100, Deduct	-0.18	
		For >100, Deduct	-0.37	
05 05 19 00-0232	EA	0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	2.30	
		For >10 To 50, Deduct	-0.09	
		For >50 To 100, Deduct	-0.20	
		For >100, Deduct	-0.40	
05 05 19 00-0233	EA	0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.40	
		For >10 To 50, Deduct	-0.09	
		For >50 To 100, Deduct	-0.20	
		For >100, Deduct	-0.40	
05 05 19 00-0234		Powder Actuated, Shot-In Place Anchors With Exposed Thread (05 05 19 00-0198)		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor	2.12	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.18	
For >100, Deduct	-0.35	
05 05 19 00-0236 EA 0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor	2.82	
For >10 To 50, Deduct	-0.10	
For >50 To 100, Deduct	-0.22	
For >100, Deduct	-0.44	

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

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

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

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

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

05 05 23 00-0004 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	13.65	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.33	
05 05 23 00-0005 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	15.19	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.41	
05 05 23 00-0006 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	15.23	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.21	
For >100, Deduct	-2.41	
05 05 23 00-0007 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	18.20	1.50
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.40	
For >100, Deduct	-2.79	
05 05 23 00-0008 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	17.81	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.27	
For >100, Deduct	-2.54	
05 05 23 00-0009 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	21.41	1.50
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.48	
For >100, Deduct	-2.95	
05 05 23 00-0010 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	27.38	1.57
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.67	
For >100, Deduct	-3.34	
05 05 23 00-0011 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	29.45	1.65
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.77	
For >100, Deduct	-3.54	
05 05 23 00-0012 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	21.47	1.43
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.86	
05 05 23 00-0013 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	26.04	1.57
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.63	
For >100, Deduct	-3.27	
05 05 23 00-0014 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	30.82	1.65
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.80	
For >100, Deduct	-3.61	
05 05 23 00-0015 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	44.59	1.73
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-2.20	
For >100, Deduct	-4.40	
05 05 23 00-0016 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	52.27	1.97
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-2.53	
For >100, Deduct	-5.07	
05 05 23 00-0017 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	58.94	2.11
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.79	
For >100, Deduct	-5.58	

05 05 23 00-0018**Galvanized A307B Heavy Hex Bolts** (05 05 23 00-0002)

05 05 23 00-0019 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	14.41	1.31
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.18	
For >100, Deduct	-2.37	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0020	EA		1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt.....	15.69	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.22	
			For >100, Deduct	-2.43	
05 05 23 00-0021	EA		5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	17.09	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.50	
05 05 23 00-0022	EA		5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	20.06	1.50
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.89	
05 05 23 00-0023	EA		3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	19.92	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.32	
			For >100, Deduct	-2.64	
05 05 23 00-0024	EA		3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	25.31	1.50
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.57	
			For >100, Deduct	-3.15	
05 05 23 00-0025	EA		3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	34.11	1.57
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.84	
			For >100, Deduct	-3.67	
05 05 23 00-0026	EA		3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	40.34	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-2.04	
			For >100, Deduct	-4.09	
05 05 23 00-0027	EA		7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	27.01	1.43
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.57	
			For >100, Deduct	-3.14	
05 05 23 00-0028	EA		7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	32.27	1.57
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.79	
			For >100, Deduct	-3.58	
05 05 23 00-0029	EA		1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	38.87	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-2.01	
			For >100, Deduct	-4.01	
05 05 23 00-0030	EA		1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	59.18	1.73
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-2.57	
			For >100, Deduct	-5.13	
05 05 23 00-0031	EA		1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	58.80	1.97
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-2.70	
			For >100, Deduct	-5.39	
05 05 23 00-0032	EA		1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	74.04	2.11
			For >10 To 50, Deduct	-0.88	
			For >50 To 100, Deduct	-3.17	
			For >100, Deduct	-6.33	
05 05 23 00-0033			A325 High Strength Structural Bolts (05 05 23 00-0001)		
05 05 23 00-0034			Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0033)		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0035	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.30	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.31	
05 05 23 00-0036	EA		1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	13.63	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.33	
05 05 23 00-0037	EA		5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	14.72	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.38	
05 05 23 00-0038	EA		5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	18.23	1.50
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.40	
			For >100, Deduct	-2.79	
05 05 23 00-0039	EA		5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	21.37	1.57
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.04	
05 05 23 00-0040	EA		3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	16.23	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 23 00-0041	EA		3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	19.84	1.50
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.87	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0042	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	22.80	1.57
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.55	
			For >100, Deduct	-3.11	
05 05 23 00-0043	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	28.49	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.75	
			For >100, Deduct	-3.49	
05 05 23 00-0044	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	18.99	1.43
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.37	
			For >100, Deduct	-2.74	
05 05 23 00-0045	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	23.40	1.57
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.57	
			For >100, Deduct	-3.13	
05 05 23 00-0046	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	26.92	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.71	
			For >100, Deduct	-3.41	
05 05 23 00-0047	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	29.26	1.73
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.82	
			For >100, Deduct	-3.64	
05 05 23 00-0048	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	21.14	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.46	
			For >100, Deduct	-2.92	
05 05 23 00-0049	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	25.64	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.68	
			For >100, Deduct	-3.35	
05 05 23 00-0050	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	29.98	1.73
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.84	
			For >100, Deduct	-3.67	
05 05 23 00-0051	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	38.99	1.85
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-2.13	
			For >100, Deduct	-4.26	
05 05 23 00-0052	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	37.09	1.85
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-2.08	
			For >100, Deduct	-4.17	
05 05 23 00-0053	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	42.25	1.97
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-2.28	
			For >100, Deduct	-4.57	
05 05 23 00-0054	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	49.91	2.11
			For >10 To 50, Deduct	-0.88	
			For >50 To 100, Deduct	-2.56	
			For >100, Deduct	-5.13	
05 05 23 00-0055	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	58.96	2.25
			For >10 To 50, Deduct	-0.94	
			For >50 To 100, Deduct	-2.88	
			For >100, Deduct	-5.75	
05 05 23 00-0056			Galvanized A325 High Strength Structural Bolts (05 05 23 00-0033)		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0057	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	13.97	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.35	
05 05 23 00-0058	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	14.21	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.18	
			For >100, Deduct	-2.36	
05 05 23 00-0059	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	16.15	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 23 00-0060	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	19.25	1.50
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.42	
			For >100, Deduct	-2.85	
05 05 23 00-0061	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	20.40	1.57
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.49	
			For >100, Deduct	-2.99	
05 05 23 00-0062	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	16.89	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0063	EA	3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	20.67	1.50	
		For >10 To 50, Deduct	-0.63		
		For >50 To 100, Deduct	-1.46		
		For >100, Deduct	-2.91		
05 05 23 00-0064	EA	3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	24.09	1.57	
		For >10 To 50, Deduct	-0.66		
		For >50 To 100, Deduct	-1.59		
		For >100, Deduct	-3.17		
05 05 23 00-0065	EA	3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	31.54	1.65	
		For >10 To 50, Deduct	-0.69		
		For >50 To 100, Deduct	-1.82		
		For >100, Deduct	-3.65		
05 05 23 00-0066	EA	7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	22.94	1.43	
		For >10 To 50, Deduct	-0.60		
		For >50 To 100, Deduct	-1.47		
		For >100, Deduct	-2.94		
05 05 23 00-0067	EA	7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	25.73	1.57	
		For >10 To 50, Deduct	-0.65		
		For >50 To 100, Deduct	-1.63		
		For >100, Deduct	-3.25		
05 05 23 00-0068	EA	7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	29.75	1.65	
		For >10 To 50, Deduct	-0.69		
		For >50 To 100, Deduct	-1.78		
		For >100, Deduct	-3.56		
05 05 23 00-0069	EA	7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	37.75	1.73	
		For >10 To 50, Deduct	-0.72		
		For >50 To 100, Deduct	-2.03		
		For >100, Deduct	-4.06		
05 05 23 00-0070	EA	1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	24.21	1.48	
		For >10 To 50, Deduct	-0.62		
		For >50 To 100, Deduct	-1.53		
		For >100, Deduct	-3.07		
05 05 23 00-0071	EA	1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	32.68	1.65	
		For >10 To 50, Deduct	-0.69		
		For >50 To 100, Deduct	-1.85		
		For >100, Deduct	-3.70		
05 05 23 00-0072	EA	1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	35.88	1.73	
		For >10 To 50, Deduct	-0.72		
		For >50 To 100, Deduct	-1.98		
		For >100, Deduct	-3.97		
05 05 23 00-0073	EA	1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	46.25	1.85	
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-2.31		
		For >100, Deduct	-4.63		
05 05 23 00-0074	EA	1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	45.96	1.85	
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-2.31		
		For >100, Deduct	-4.61		
05 05 23 00-0075	EA	1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	49.03	1.97	
		For >10 To 50, Deduct	-0.82		
		For >50 To 100, Deduct	-2.45		
		For >100, Deduct	-4.91		
05 05 23 00-0076	EA	1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	57.68	2.11	
		For >10 To 50, Deduct	-0.88		
		For >50 To 100, Deduct	-2.76		
		For >100, Deduct	-5.51		
05 05 23 00-0077	EA	1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	67.07	2.25	
		For >10 To 50, Deduct	-0.94		
		For >50 To 100, Deduct	-3.08		
		For >100, Deduct	-6.16		
05 05 23 00-0078		A490 High Strength Structural Bolts (05 05 23 00-0001) Note: Includes A490 heavy hex nut and two structural washers.			
05 05 23 00-0079		Plain Finish A490 High Strength Structural Bolts (05 05 23 00-0078)			
05 05 23 00-0080	EA	5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	15.26	1.31	
		For >10 To 50, Deduct	-0.55		
		For >50 To 100, Deduct	-1.21		
		For >100, Deduct	-2.41		
05 05 23 00-0081	EA	5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	21.91	1.50	
		For >10 To 50, Deduct	-0.63		
		For >50 To 100, Deduct	-1.49		
		For >100, Deduct	-2.98		
05 05 23 00-0082	EA	5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	23.49	1.57	
		For >10 To 50, Deduct	-0.66		
		For >50 To 100, Deduct	-1.57		
		For >100, Deduct	-3.14		
05 05 23 00-0083	EA	3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	17.34	1.31	
		For >10 To 50, Deduct	-0.55		
		For >50 To 100, Deduct	-1.26		
		For >100, Deduct	-2.52		
05 05 23 00-0084	EA	3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	21.11	1.50	
		For >10 To 50, Deduct	-0.63		
		For >50 To 100, Deduct	-1.47		
		For >100, Deduct	-2.94		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0085 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	24.84	1.57
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.60	
For >100, Deduct	-3.21	
05 05 23 00-0086 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	32.47	1.65
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.85	
For >100, Deduct	-3.69	
05 05 23 00-0087 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	20.28	1.43
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.40	
For >100, Deduct	-2.80	
05 05 23 00-0088 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	23.81	1.57
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.58	
For >100, Deduct	-3.15	
05 05 23 00-0089 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	35.24	1.65
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.92	
For >100, Deduct	-3.83	
05 05 23 00-0090 EA 1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	24.14	1.48
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.07	
05 05 23 00-0091 EA 1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	29.02	1.65
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.76	
For >100, Deduct	-3.52	
05 05 23 00-0092 EA 1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	33.61	1.73
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.93	
For >100, Deduct	-3.85	
05 05 23 00-0093 EA 1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	42.45	1.85
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-2.22	
For >100, Deduct	-4.44	
05 05 23 00-0094 EA 1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	55.06	1.97
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-2.60	
For >100, Deduct	-5.21	
05 05 23 00-0095 EA 1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	57.89	2.11
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.76	
For >100, Deduct	-5.52	
05 05 23 00-0096 EA 1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	60.33	2.25
For >10 To 50, Deduct	-0.94	
For >50 To 100, Deduct	-2.91	
For >100, Deduct	-5.82	
05 05 23 00-0097 Hex Head Bolts (05 05 23 00-0001)		
05 05 23 00-0098 Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0099 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0100 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.50	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0101 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.53	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0102 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.61	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0103 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.66	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0104 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.92	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0105 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.96	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0106 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.09	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0107	EA	1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.31		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0108	EA	1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.35		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0109	EA	1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.56		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0110	EA	1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-0111	EA	1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-0112	EA	1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-0113	EA	1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.93		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-0114	EA	1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.26		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-0115	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.34		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-0116	5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)				
05 05 23 00-0117	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.57		
		For >100 To 250, Deduct	-1.48		
		For >250 To 500, Deduct	-1.85		
		For >500, Deduct	-2.21		
05 05 23 00-0118	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.61		
		For >100 To 250, Deduct	-1.48		
		For >250 To 500, Deduct	-1.85		
		For >500, Deduct	-2.21		
05 05 23 00-0119	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.68		
		For >100 To 250, Deduct	-1.48		
		For >250 To 500, Deduct	-1.85		
		For >500, Deduct	-2.21		
05 05 23 00-0120	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.73		
		For >100 To 250, Deduct	-1.48		
		For >250 To 500, Deduct	-1.85		
		For >500, Deduct	-2.21		
05 05 23 00-0121	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.02		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0122	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.15		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0123	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.20		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0124	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.55		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0125	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.74		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0126	EA	5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.82		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0127	EA	5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.08		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0128	EA	5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0129	EA	5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.89	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0130	EA	5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.47	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.05	
		For >500, Deduct	-2.46	
05 05 23 00-0131	EA	5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.79	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.05	
		For >500, Deduct	-2.46	
05 05 23 00-0132	EA	5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.09	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.05	
		For >500, Deduct	-2.46	
05 05 23 00-0133 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05				
		23 00-0098)		
05 05 23 00-0134	EA	3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.66	
		For >100 To 250, Deduct	-1.48	
		For >250 To 500, Deduct	-1.85	
		For >500, Deduct	-2.21	
05 05 23 00-0135	EA	3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.69	
		For >100 To 250, Deduct	-1.48	
		For >250 To 500, Deduct	-1.85	
		For >500, Deduct	-2.21	
05 05 23 00-0136	EA	3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.80	
		For >100 To 250, Deduct	-1.48	
		For >250 To 500, Deduct	-1.85	
		For >500, Deduct	-2.21	
05 05 23 00-0137	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.89	
		For >100 To 250, Deduct	-1.48	
		For >250 To 500, Deduct	-1.85	
		For >500, Deduct	-2.21	
05 05 23 00-0138	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.19	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0139	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.36	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0140	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.53	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0141	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.95	
		For >500, Deduct	-2.34	
05 05 23 00-0142	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.13	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.95	
		For >500, Deduct	-2.34	
05 05 23 00-0143	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.25	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.95	
		For >500, Deduct	-2.34	
05 05 23 00-0144	EA	3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.68	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0145	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.81	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0146	EA	3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.89	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0147	EA	3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.16	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.05	
		For >500, Deduct	-2.46	
05 05 23 00-0148	EA	3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.30	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.05	
		For >500, Deduct	-2.46	



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

05

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 05 23 00-0149	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.50		
		For >100 To 250, Deduct		-1.64	
		For >250 To 500, Deduct		-2.05	
		For >500, Deduct		-2.46	
05 05 23 00-0150 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05					
23 00-0098)					
05 05 23 00-0151	EA	7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.12		
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	
05 05 23 00-0152	EA	7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.26		
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	
05 05 23 00-0153	EA	7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28		
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	
05 05 23 00-0154	EA	7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.68		
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.16	
		For >500, Deduct		-2.59	
05 05 23 00-0155	EA	7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.89		
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.16	
		For >500, Deduct		-2.59	
05 05 23 00-0156	EA	7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06		
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.16	
		For >500, Deduct		-2.59	
05 05 23 00-0157	EA	7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.72		
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0158	EA	7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.84		
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0159	EA	7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.10		
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0160	EA	7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.73		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.27	
		For >500, Deduct		-2.72	
05 05 23 00-0161	EA	7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.86		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.27	
		For >500, Deduct		-2.72	
05 05 23 00-0162	EA	7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.17		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.27	
		For >500, Deduct		-2.72	
05 05 23 00-0163	EA	7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.52		
		For >100 To 250, Deduct		-1.85	
		For >250 To 500, Deduct		-2.32	
		For >500, Deduct		-2.78	
05 05 23 00-0164	EA	7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.80		
		For >100 To 250, Deduct		-1.85	
		For >250 To 500, Deduct		-2.32	
		For >500, Deduct		-2.78	
05 05 23 00-0165	EA	7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.36		
		For >100 To 250, Deduct		-1.85	
		For >250 To 500, Deduct		-2.32	
		For >500, Deduct		-2.78	
05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05					
23 00-0098)					
05 05 23 00-0167	EA	1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.00		
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	
05 05 23 00-0168	EA	1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.17		
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	
05 05 23 00-0169	EA	1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.34		
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0170	EA	1/2"	Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.74	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0171	EA	1/2"	Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.91	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0172	EA	1/2"	Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.08	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0173	EA	1/2"	Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.52	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0174	EA	1/2"	Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.72	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0175	EA	1/2"	Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.07	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0176	EA	1/2"	Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.33	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0177	EA	1/2"	Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.38	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0178	EA	1/2"	Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.67	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0179	EA	1/2"	Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.15	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0180	EA	1/2"	Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.33	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0181	EA	1/2"	Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.84	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0182	EA	1/2"	Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.31	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0183	EA	1/2"	Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.49	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0184	EA	1/2"	Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.21	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0185	EA	1/2"	Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.41	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0186			9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
			23 00-0098)		
05 05 23 00-0187	EA	9/16"	Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.18	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0188	EA	9/16"	Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.41	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0189	EA	9/16"	Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.46	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0190	EA	9/16"	Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.42	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0191	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.72	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0192	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.82	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0193	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.07	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0194	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.14	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0195	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.40	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0196	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.67	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0197	EA		9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.74	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0198	EA		9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.97	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0199	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.42	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0200	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.69	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0201	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.95	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0202	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.40	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0203	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.72	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0204	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.93	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0205	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.25	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0206			5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0207	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0208	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.89	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0209	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.09	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0210	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.57	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0211	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.86	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0212 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.23	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0213 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.91	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0214 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.47	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0215 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.91	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0216 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.30	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0217 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.36	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0218 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.11	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0219 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.74	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0220 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.33	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0221 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.03	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0222 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.98	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0223 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.66	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0224 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.35	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0225 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.89	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0226 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0227 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.24	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0228 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.56	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0229 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.84	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0230 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.40	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0231 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.84	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0232 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.22	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0233	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.85		
		For >100 To 250, Deduct	-1.98		
		For >250 To 500, Deduct	-2.48		
		For >500, Deduct	-2.97		
05 05 23 00-0234	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.39		
		For >100 To 250, Deduct	-1.98		
		For >250 To 500, Deduct	-2.48		
		For >500, Deduct	-2.97		
05 05 23 00-0235	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.81		
		For >100 To 250, Deduct	-1.98		
		For >250 To 500, Deduct	-2.48		
		For >500, Deduct	-2.97		
05 05 23 00-0236	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.90		
		For >100 To 250, Deduct	-2.02		
		For >250 To 500, Deduct	-2.53		
		For >500, Deduct	-3.03		
05 05 23 00-0237	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.25		
		For >100 To 250, Deduct	-2.02		
		For >250 To 500, Deduct	-2.53		
		For >500, Deduct	-3.03		
05 05 23 00-0238	EA	3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.91		
		For >100 To 250, Deduct	-2.02		
		For >250 To 500, Deduct	-2.53		
		For >500, Deduct	-3.03		
05 05 23 00-0239	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.17		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.10		
05 05 23 00-0240	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.72		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.10		
05 05 23 00-0241	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.44		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.10		
05 05 23 00-0242	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.60		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0243	EA	3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.32		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0244	EA	3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.28		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0245	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.21		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0246		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)			
05 05 23 00-0247	EA	7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.92		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0248	EA	7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.17		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0249	EA	7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.30		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0250	EA	7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.87		
		For >100 To 250, Deduct	-2.15		
		For >250 To 500, Deduct	-2.69		
		For >500, Deduct	-3.23		
05 05 23 00-0251	EA	7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.58		
		For >100 To 250, Deduct	-2.15		
		For >250 To 500, Deduct	-2.69		
		For >500, Deduct	-3.23		
05 05 23 00-0252	EA	7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.40		
		For >100 To 250, Deduct	-2.15		
		For >250 To 500, Deduct	-2.69		
		For >500, Deduct	-3.23		
05 05 23 00-0253	EA	7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.30		
		For >100 To 250, Deduct	-2.19		
		For >250 To 500, Deduct	-2.74		
		For >500, Deduct	-3.29		

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0254	EA	7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.50	
		For >100 To 250, Deduct	-2.19	
		For >250 To 500, Deduct	-2.74	
		For >500, Deduct	-3.29	
05 05 23 00-0255	EA	7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.16	
		For >100 To 250, Deduct	-2.19	
		For >250 To 500, Deduct	-2.74	
		For >500, Deduct	-3.29	
05 05 23 00-0256	EA	7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.88	
		For >100 To 250, Deduct	-2.23	
		For >250 To 500, Deduct	-2.79	
		For >500, Deduct	-3.35	
05 05 23 00-0257	EA	7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.28	
		For >100 To 250, Deduct	-2.23	
		For >250 To 500, Deduct	-2.79	
		For >500, Deduct	-3.35	
05 05 23 00-0258	EA	7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.23	
		For >100 To 250, Deduct	-2.23	
		For >250 To 500, Deduct	-2.79	
		For >500, Deduct	-3.35	
05 05 23 00-0259	EA	7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.38	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.41	
05 05 23 00-0260	EA	7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.34	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.41	
05 05 23 00-0261	EA	7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.29	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.41	
05 05 23 00-0262	EA	7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.39	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.47	
05 05 23 00-0263	EA	7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.39	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.47	
05 05 23 00-0264	EA	7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.31	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.47	
05 05 23 00-0265	EA	7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.29	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.47	
05 05 23 00-0266	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)			
05 05 23 00-0267	EA	1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.08	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.63	
		For >500, Deduct	-3.16	
05 05 23 00-0268	EA	1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.81	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.63	
		For >500, Deduct	-3.16	
05 05 23 00-0269	EA	1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.12	
		For >100 To 250, Deduct	-2.15	
		For >250 To 500, Deduct	-2.69	
		For >500, Deduct	-3.23	
05 05 23 00-0270	EA	1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.49	
		For >100 To 250, Deduct	-2.15	
		For >250 To 500, Deduct	-2.69	
		For >500, Deduct	-3.23	
05 05 23 00-0271	EA	1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.73	
		For >100 To 250, Deduct	-2.15	
		For >250 To 500, Deduct	-2.69	
		For >500, Deduct	-3.23	
05 05 23 00-0272	EA	1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.23	
		For >100 To 250, Deduct	-2.19	
		For >250 To 500, Deduct	-2.74	
		For >500, Deduct	-3.29	
05 05 23 00-0273	EA	1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.43	
		For >100 To 250, Deduct	-2.19	
		For >250 To 500, Deduct	-2.74	
		For >500, Deduct	-3.29	
05 05 23 00-0274	EA	1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.67	
		For >100 To 250, Deduct	-2.19	
		For >250 To 500, Deduct	-2.74	
		For >500, Deduct	-3.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0275	EA	1"	Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.49	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0276	EA	1"	Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.08	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0277	EA	1"	Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.13	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0278	EA	1"	Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.38	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0279	EA	1"	Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.41	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0280	EA	1"	Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.48	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0281	EA	1"	Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.56	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0282	EA	1"	Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.77	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0283	EA	1"	Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.84	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0284	EA	1"	Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.93	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0285			Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0286			1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0287	EA	1/4"	Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.56	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0288	EA	1/4"	Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.61	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0289	EA	1/4"	Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.66	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0290	EA	1/4"	Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.75	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0291	EA	1/4"	Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.05	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0292	EA	1/4"	Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.21	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0293	EA	1/4"	Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.39	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0294	EA	1/4"	Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.74	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0295	EA	1/4"	Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.96	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0296	EA	1/4"	Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.11	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0297 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.47	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0298 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.61	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0299 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.75	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0300 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.14	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0301 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.34	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0302 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.54	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0303 5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0304 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.66	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0305 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.70	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0306 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.77	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0307 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.90	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0308 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.20	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0309 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.35	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0310 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.63	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0311 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.98	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0312 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.19	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0313 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.40	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0314 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.99	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0315 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.06	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0316 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.33	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0317 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.89	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0318	EA		5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.26	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0319	EA		5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.61	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0320 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)					
05 05 23 00-0321	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.73	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0322	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.76	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0323	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.88	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0324	EA		3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.01	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0325	EA		3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.36	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0326	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.52	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0327	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.75	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0328	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.23	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0329	EA		3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.79	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0330	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.04	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0331	EA		3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.58	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0332	EA		3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.82	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0333	EA		3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.25	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0334	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.77	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0335	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.33	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0336	EA		3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.78	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0337 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)					
05 05 23 00-0338	EA		7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.02	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0339 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.14	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0340 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.43	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0341 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.86	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0342 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.07	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0343 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.27	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0344 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.73	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0345 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.85	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0346 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.34	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0347 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.72	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0348 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.94	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0349 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.18	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0350 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.72	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0351 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.04	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0352 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.37	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0353 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0354 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.17	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0355 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.33	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0356 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.49	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0357 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.97	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0358 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.23	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0359 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.49	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0360	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	10.94	
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0361	EA	1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.82	
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0362	EA	1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.88	
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0363	EA	1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	12.69	
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.27	
		For >500, Deduct		-2.72	
05 05 23 00-0364	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	13.03	
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.27	
		For >500, Deduct		-2.72	
05 05 23 00-0365	EA	1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	13.90	
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.27	
		For >500, Deduct		-2.72	
05 05 23 00-0366	EA	1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	14.90	
		For >100 To 250, Deduct		-1.85	
		For >250 To 500, Deduct		-2.32	
		For >500, Deduct		-2.78	
05 05 23 00-0367	EA	1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	15.40	
		For >100 To 250, Deduct		-1.85	
		For >250 To 500, Deduct		-2.32	
		For >500, Deduct		-2.78	
05 05 23 00-0368	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	15.58	
		For >100 To 250, Deduct		-1.85	
		For >250 To 500, Deduct		-2.32	
		For >500, Deduct		-2.78	
05 05 23 00-0369	EA	1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	16.69	
		For >100 To 250, Deduct		-1.90	
		For >250 To 500, Deduct		-2.37	
		For >500, Deduct		-2.84	
05 05 23 00-0370	EA	1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	17.56	
		For >100 To 250, Deduct		-1.90	
		For >250 To 500, Deduct		-2.37	
		For >500, Deduct		-2.84	
05 05 23 00-0371	EA	1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	18.77	
		For >100 To 250, Deduct		-1.90	
		For >250 To 500, Deduct		-2.37	
		For >500, Deduct		-2.84	
05 05 23 00-0372	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	19.24	
		For >100 To 250, Deduct		-1.90	
		For >250 To 500, Deduct		-2.37	
		For >500, Deduct		-2.84	
05 05 23 00-0373		9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts	(05 05 23 00-0285)		
05 05 23 00-0374	EA	9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	9.65	
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	
05 05 23 00-0375	EA	9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	9.93	
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	
05 05 23 00-0376	EA	9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	10.18	
		For >100 To 250, Deduct		-1.68	
		For >250 To 500, Deduct		-2.11	
		For >500, Deduct		-2.53	
05 05 23 00-0377	EA	9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	10.68	
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.16	
		For >500, Deduct		-2.59	
05 05 23 00-0378	EA	9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.03	
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.16	
		For >500, Deduct		-2.59	
05 05 23 00-0379	EA	9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.43	
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.16	
		For >500, Deduct		-2.59	
05 05 23 00-0380	EA	9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	12.09	
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0381 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.61	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0382 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.01	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0383 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.66	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0384 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.09	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0385 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.50	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0386 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.45	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0387 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.03	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0388 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.00	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0389 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.13	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0390 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.48	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0391 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.83	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0392 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.71	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0393 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0394 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.00	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0395 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.10	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0396 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.19	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0397 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.67	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0398 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.13	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0399 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.56	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0400 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.20	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0401 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.02	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0402	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.46		
		For >100 To 250, Deduct	-1.98		
		For >250 To 500, Deduct	-2.48		
		For >500, Deduct	-2.97		
05 05 23 00-0403	EA	5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.90		
		For >100 To 250, Deduct	-2.02		
		For >250 To 500, Deduct	-2.53		
		For >500, Deduct	-3.03		
05 05 23 00-0404	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.60		
		For >100 To 250, Deduct	-2.02		
		For >250 To 500, Deduct	-2.53		
		For >500, Deduct	-3.03		
05 05 23 00-0405	EA	5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.72		
		For >100 To 250, Deduct	-2.02		
		For >250 To 500, Deduct	-2.53		
		For >500, Deduct	-3.03		
05 05 23 00-0406	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.94		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.10		
05 05 23 00-0407	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.86		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.10		
05 05 23 00-0408	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.00		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.10		
05 05 23 00-0409	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.88		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0410	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.12		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0411	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.94		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0412	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.58		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.63		
		For >500, Deduct	-3.16		
05 05 23 00-0413		3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)			
05 05 23 00-0414	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.05		
		For >100 To 250, Deduct	-1.90		
		For >250 To 500, Deduct	-2.37		
		For >500, Deduct	-2.84		
05 05 23 00-0415	EA	3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.23		
		For >100 To 250, Deduct	-1.90		
		For >250 To 500, Deduct	-2.37		
		For >500, Deduct	-2.84		
05 05 23 00-0416	EA	3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.33		
		For >100 To 250, Deduct	-1.90		
		For >250 To 500, Deduct	-2.37		
		For >500, Deduct	-2.84		
05 05 23 00-0417	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.94		
		For >100 To 250, Deduct	-1.94		
		For >250 To 500, Deduct	-2.42		
		For >500, Deduct	-2.91		
05 05 23 00-0418	EA	3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.40		
		For >100 To 250, Deduct	-1.94		
		For >250 To 500, Deduct	-2.42		
		For >500, Deduct	-2.91		
05 05 23 00-0419	EA	3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.11		
		For >100 To 250, Deduct	-1.94		
		For >250 To 500, Deduct	-2.42		
		For >500, Deduct	-2.91		
05 05 23 00-0420	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.80		
		For >100 To 250, Deduct	-1.98		
		For >250 To 500, Deduct	-2.48		
		For >500, Deduct	-2.97		
05 05 23 00-0421	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.25		
		For >100 To 250, Deduct	-1.98		
		For >250 To 500, Deduct	-2.48		
		For >500, Deduct	-2.97		
05 05 23 00-0422	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.21		
		For >100 To 250, Deduct	-1.98		
		For >250 To 500, Deduct	-2.48		
		For >500, Deduct	-2.97		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0423 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.86	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0424 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.65	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0425 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.61	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0426 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.19	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0427 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.19	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0428 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.76	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0429 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.46	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0430 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.97	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0431 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.62	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0432 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.03	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0433 7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0434 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.41	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0435 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.64	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0436 EA 7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.95	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0437 EA 7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.48	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0438 EA 7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.41	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0439 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.03	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0440 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.71	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0441 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.81	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0442 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.64	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0443 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.24	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0444	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.93	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0445	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.89	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0446	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.16	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0447	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.46	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0448	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.55	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0449	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.63	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0450	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.90	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0451	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	30.99	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0452	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	32.08	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0453			1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0454	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.49	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0455	EA		1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.56	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0456	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.47	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0457	EA		1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.37	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0458	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.04	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0459	EA		1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.09	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0460	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.15	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0461	EA		1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.69	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0462	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.99	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0463	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.32	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0464	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.46	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0465 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 28.06 For >100 To 250, Deduct -2.27 For >250 To 500, Deduct -2.84 For >500, Deduct -3.41		
05 05 23 00-0466 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 30.34 For >100 To 250, Deduct -2.27 For >250 To 500, Deduct -2.84 For >500, Deduct -3.41		
05 05 23 00-0467 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 30.99 For >100 To 250, Deduct -2.27 For >250 To 500, Deduct -2.84 For >500, Deduct -3.41		
05 05 23 00-0468 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 38.53 For >100 To 250, Deduct -2.32 For >250 To 500, Deduct -2.90 For >500, Deduct -3.47		
05 05 23 00-0469 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 39.11 For >100 To 250, Deduct -2.32 For >250 To 500, Deduct -2.90 For >500, Deduct -3.47		
05 05 23 00-0470 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 40.68 For >100 To 250, Deduct -2.32 For >250 To 500, Deduct -2.90 For >500, Deduct -3.47		
05 05 23 00-0471 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 41.75 For >100 To 250, Deduct -2.32 For >250 To 500, Deduct -2.90 For >500, Deduct -3.47		
05 05 23 00-0472 Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0473 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0474 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 7.59 For >100 To 250, Deduct -1.48 For >250 To 500, Deduct -1.85 For >500, Deduct -2.21		
05 05 23 00-0475 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 7.69 For >100 To 250, Deduct -1.48 For >250 To 500, Deduct -1.85 For >500, Deduct -2.21		
05 05 23 00-0476 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 7.75 For >100 To 250, Deduct -1.48 For >250 To 500, Deduct -1.85 For >500, Deduct -2.21		
05 05 23 00-0477 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 7.87 For >100 To 250, Deduct -1.48 For >250 To 500, Deduct -1.85 For >500, Deduct -2.21		
05 05 23 00-0478 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 8.15 For >100 To 250, Deduct -1.52 For >250 To 500, Deduct -1.90 For >500, Deduct -2.28		
05 05 23 00-0479 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 8.28 For >100 To 250, Deduct -1.52 For >250 To 500, Deduct -1.90 For >500, Deduct -2.28		
05 05 23 00-0480 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 8.41 For >100 To 250, Deduct -1.52 For >250 To 500, Deduct -1.90 For >500, Deduct -2.28		
05 05 23 00-0481 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 8.62 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0482 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 8.98 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0483 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 9.31 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0484 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 9.68 For >100 To 250, Deduct -1.60 For >250 To 500, Deduct -2.00 For >500, Deduct -2.40		
05 05 23 00-0485 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 9.86 For >100 To 250, Deduct -1.60 For >250 To 500, Deduct -2.00 For >500, Deduct -2.40		
05 05 23 00-0486 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 10.09 For >100 To 250, Deduct -1.60 For >250 To 500, Deduct -2.00 For >500, Deduct -2.40		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0487	EA		1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.45	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0488	EA		1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.89	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0489	EA		1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.09	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0490 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)					
05 05 23 00-0491	EA		5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.68	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0492	EA		5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.75	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0493	EA		5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.96	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0494	EA		5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.00	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0495	EA		5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.33	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0496	EA		5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.64	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0497	EA		5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.73	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0498	EA		5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.13	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0499	EA		5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.32	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0500	EA		5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.78	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0501	EA		5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.24	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0502	EA		5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.41	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0503	EA		5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.68	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0504	EA		5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.08	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0505	EA		5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.27	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0506	EA		5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.65	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0507 3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)					

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0508 EA 3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.91	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0509 EA 3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.93	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0510 EA 3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.95	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0511 EA 3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.19	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0512 EA 3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.55	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0513 EA 3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.80	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0514 EA 3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.02	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0515 EA 3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.93	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0516 EA 3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.21	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0517 EA 3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.27	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0518 EA 3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.58	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0519 EA 3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.89	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0520 EA 3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.28	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0521 EA 3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.81	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0522 EA 3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.43	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0523 EA 3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.89	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0524 7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0525 EA 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.18	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0526 EA 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.22	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0527 EA 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.61	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0528 EA 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.86	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0529	EA		7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.30	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0530	EA		7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.54	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0531	EA		7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.79	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0532	EA		7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.76	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0533	EA		7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.52	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0534	EA		7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.25	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0535	EA		7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.52	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0536	EA		7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.92	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0537	EA		7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.72	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0538	EA		7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.00	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0539	EA		7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.10	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0540			1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0541	EA		1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.44	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0542	EA		1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.72	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0543	EA		1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.90	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0544	EA		1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.30	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0545	EA		1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.61	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0546	EA		1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.31	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0547	EA		1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.02	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0548	EA		1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.43	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0549	EA		1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.72	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0550 EA 1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.45	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0551 EA 1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.34	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0552 EA 1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.16	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0553 EA 1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.07	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0554 EA 1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.44	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0555 EA 1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.46	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0556 EA 1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.36	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0557 EA 1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.10	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0558 EA 1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.48	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0559 EA 1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.30	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0560 9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0561 EA 9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.70	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0562 EA 9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.87	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0563 EA 9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.27	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0564 EA 9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.06	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0565 EA 9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.20	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0566 EA 9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.78	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0567 EA 9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.37	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0568 EA 9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.26	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0569 EA 9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.63	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0570 EA 9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.14	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0571	EA		9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.96	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0572	EA		9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.06	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0573	EA		9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.89	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0574	EA		9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.37	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0575	EA		9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.24	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0576 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)					
05 05 23 00-0577	EA		5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.37	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0578	EA		5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.54	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0579	EA		5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.98	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0580	EA		5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.82	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0581	EA		5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.35	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0582	EA		5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.63	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0583	EA		5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.04	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0584	EA		5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.97	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0585	EA		5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.38	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0586	EA		5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.03	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0587	EA		5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.46	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0588	EA		5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.38	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0589	EA		5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.76	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0590	EA		5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.81	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0591	EA		5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.25	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0592 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.31	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0593 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.35	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0594 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.51	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0595 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.41	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0596 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0597 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.35	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0598 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.53	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0599 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.66	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0600 EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.13	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0601 EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.52	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0602 EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.63	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0603 EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.31	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0604 EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.41	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0605 EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.92	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0606 EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.68	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0607 EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.47	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0608 EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.95	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0609 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.97	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0610 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.76	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0611 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.17	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0612 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.32	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0613	EA		3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.76	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0614	EA		3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.80	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0615	EA		3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.18	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0616 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)					
05 05 23 00-0617	EA		7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.08	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0618	EA		7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.57	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0619	EA		7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.51	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0620	EA		7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.98	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0621	EA		7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.15	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0622	EA		7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.67	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0623	EA		7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.21	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0624	EA		7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.12	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0625	EA		7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.42	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0626	EA		7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.75	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0627	EA		7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.18	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0628	EA		7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.53	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0629	EA		7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	36.06	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0630	EA		7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.49	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0631	EA		7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	38.84	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0632	EA		7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	39.25	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0633	EA		7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	39.60	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0634 EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	40.45	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-0635 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0636 EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.48	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0637 EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.70	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0638 EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.46	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0639 EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.38	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0640 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.10	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0641 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.76	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0642 EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.24	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0643 EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.22	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0644 EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.35	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-0645 EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.19	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-0646 EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.32	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-0647 EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.17	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-0648 EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.84	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-0649 EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	38.64	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-0650 EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	41.34	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-0651 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	42.69	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-0652 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	46.25	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-0653 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	48.43	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	

05 05 23 00-0654 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)

05 05 23 00-0655 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0656 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.73	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0657 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.75	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0658 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.77	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0659 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.02	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0660 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.36	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0661 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.51	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0662 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.57	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0663 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.80	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0664 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.97	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0665 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.02	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0666 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.34	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0667 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.50	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0668 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.55	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0669 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.90	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0670 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.33	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0671 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.86	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0672 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0673 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.62	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0674 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.11	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0675 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.15	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0676 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.17	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0677 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.60	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0678 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0679 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.14	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0680 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0681 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.52	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0682 EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.89	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0683 EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.19	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0684 EA 5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.33	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0685 EA 5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.68	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0686 EA 5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.60	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0687 EA 5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.16	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0688 EA 5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.69	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0689 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0690 EA 3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.77	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0691 EA 3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.88	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0692 EA 3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.00	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0693 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.30	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0694 EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.64	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0695 EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.89	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0696 EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0697 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.51	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0698	EA	3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.64		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0699	EA	3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.93		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0700	EA	3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.26		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-0701	EA	3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.67		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-0702	EA	3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-0703	EA	3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.98		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-0704	EA	3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-0705	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.50		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-0706		7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)			
05 05 23 00-0707	EA	7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.54		
		For >100 To 250, Deduct	-1.68		
		For >250 To 500, Deduct	-2.11		
		For >500, Deduct	-2.53		
05 05 23 00-0708	EA	7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.07		
		For >100 To 250, Deduct	-1.68		
		For >250 To 500, Deduct	-2.11		
		For >500, Deduct	-2.53		
05 05 23 00-0709	EA	7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.48		
		For >100 To 250, Deduct	-1.68		
		For >250 To 500, Deduct	-2.11		
		For >500, Deduct	-2.53		
05 05 23 00-0710	EA	7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.38		
		For >100 To 250, Deduct	-1.73		
		For >250 To 500, Deduct	-2.16		
		For >500, Deduct	-2.59		
05 05 23 00-0711	EA	7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.41		
		For >100 To 250, Deduct	-1.73		
		For >250 To 500, Deduct	-2.16		
		For >500, Deduct	-2.59		
05 05 23 00-0712	EA	7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.45		
		For >100 To 250, Deduct	-1.73		
		For >250 To 500, Deduct	-2.16		
		For >500, Deduct	-2.59		
05 05 23 00-0713	EA	7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00		
		For >100 To 250, Deduct	-1.77		
		For >250 To 500, Deduct	-2.21		
		For >500, Deduct	-2.65		
05 05 23 00-0714	EA	7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.38		
		For >100 To 250, Deduct	-1.77		
		For >250 To 500, Deduct	-2.21		
		For >500, Deduct	-2.65		
05 05 23 00-0715	EA	7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.72		
		For >100 To 250, Deduct	-1.77		
		For >250 To 500, Deduct	-2.21		
		For >500, Deduct	-2.65		
05 05 23 00-0716	EA	7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.32		
		For >100 To 250, Deduct	-1.81		
		For >250 To 500, Deduct	-2.27		
		For >500, Deduct	-2.72		
05 05 23 00-0717	EA	7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.72		
		For >100 To 250, Deduct	-1.81		
		For >250 To 500, Deduct	-2.27		
		For >500, Deduct	-2.72		
05 05 23 00-0718		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)			

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0719 EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.31	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0720 EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0721 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-0722 EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.44	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0723 EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.71	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0724 EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.20	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0725 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.49	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0726 EA 1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.68	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0727 EA 1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.07	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0728 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.48	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0729 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.91	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0730 EA 1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.96	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-0731 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.25	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0732 EA 1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.36	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0733 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.70	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0734 EA 1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.49	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0735 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.76	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0736 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.82	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0737 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.97	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0738 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0739 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.99	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	



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

05

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 05 23 00-0740	EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26		
	For >100 To 250, Deduct	-1.90		
	For >250 To 500, Deduct	-2.37		
	For >500, Deduct	-2.84		
05 05 23 00-0741	EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.44		
	For >100 To 250, Deduct	-1.90		
	For >250 To 500, Deduct	-2.37		
	For >500, Deduct	-2.84		
05 05 23 00-0742	EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.95		
	For >100 To 250, Deduct	-1.94		
	For >250 To 500, Deduct	-2.42		
	For >500, Deduct	-2.91		
05 05 23 00-0743	EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.34		
	For >100 To 250, Deduct	-1.94		
	For >250 To 500, Deduct	-2.42		
	For >500, Deduct	-2.91		
05 05 23 00-0744	EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.22		
	For >100 To 250, Deduct	-1.94		
	For >250 To 500, Deduct	-2.42		
	For >500, Deduct	-2.91		
05 05 23 00-0745	EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.57		
	For >100 To 250, Deduct	-1.98		
	For >250 To 500, Deduct	-2.48		
	For >500, Deduct	-2.97		
05 05 23 00-0746	EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.73		
	For >100 To 250, Deduct	-1.98		
	For >250 To 500, Deduct	-2.48		
	For >500, Deduct	-2.97		
05 05 23 00-0747	EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.99		
	For >100 To 250, Deduct	-1.98		
	For >250 To 500, Deduct	-2.48		
	For >500, Deduct	-2.97		
05 05 23 00-0748	EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.56		
	For >100 To 250, Deduct	-2.02		
	For >250 To 500, Deduct	-2.53		
	For >500, Deduct	-3.03		
05 05 23 00-0749	EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.87		
	For >100 To 250, Deduct	-2.02		
	For >250 To 500, Deduct	-2.53		
	For >500, Deduct	-3.03		
05 05 23 00-0750	EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.77		
	For >100 To 250, Deduct	-2.02		
	For >250 To 500, Deduct	-2.53		
	For >500, Deduct	-3.03		
05 05 23 00-0751	EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.04		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.58		
	For >500, Deduct	-3.10		
05 05 23 00-0752	EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.62		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.58		
	For >500, Deduct	-3.10		
05 05 23 00-0753	EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.08		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.58		
	For >500, Deduct	-3.10		
05 05 23 00-0754	EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.96		
	For >100 To 250, Deduct	-2.11		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0755	EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.71		
	For >100 To 250, Deduct	-2.11		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0756	EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.41		
	For >100 To 250, Deduct	-2.11		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0757	EA 5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.54		
	For >100 To 250, Deduct	-2.11		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0758	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)			
05 05 23 00-0759	EA 3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.28		
	For >100 To 250, Deduct	-1.90		
	For >250 To 500, Deduct	-2.37		
	For >500, Deduct	-2.84		
05 05 23 00-0760	EA 3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.33		
	For >100 To 250, Deduct	-1.90		
	For >250 To 500, Deduct	-2.37		
	For >500, Deduct	-2.84		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0761	EA	3/4"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.66	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0762	EA	3/4"	Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.60	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0763	EA	3/4"	Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.83	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0764	EA	3/4"	Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.62	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0765	EA	3/4"	Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.25	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0766	EA	3/4"	Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.32	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0767	EA	3/4"	Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.49	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0768	EA	3/4"	Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.82	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0769	EA	3/4"	Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.86	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0770	EA	3/4"	Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.30	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0771	EA	3/4"	Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.36	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0772	EA	3/4"	Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.50	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0773	EA	3/4"	Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.92	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0774	EA	3/4"	Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.77	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0775	EA	3/4"	Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.22	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0776	EA	3/4"	Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.47	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0777	EA	3/4"	Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.60	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0778			7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0779	EA	7/8"	Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.88	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0780	EA	7/8"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.39	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0781	EA	7/8"	Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.89	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0782	EA		7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.53	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0783	EA		7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.93	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0784	EA		7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.64	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0785	EA		7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.20	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0786	EA		7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.90	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0787	EA		7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.60	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0788	EA		7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.15	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0789	EA		7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.51	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0790	EA		7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.32	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0791	EA		7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.34	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0792	EA		7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.58	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0793	EA		7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.07	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0794	EA		7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.64	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0795	EA		7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.34	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0796	EA		7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.01	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0797			1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0798	EA		1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.42	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0799	EA		1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.80	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0800	EA		1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.75	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0801	EA		1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.49	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0802	EA		1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.41	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0803	EA	1"	Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.79	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0804	EA	1"	Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.89	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0805	EA	1"	Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.21	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0806	EA	1"	Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.62	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0807	EA	1"	Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.36	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0808	EA	1"	Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.27	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0809	EA	1"	Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.84	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0810	EA	1"	Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.39	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0811	EA	1"	Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.07	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0812	EA	1"	Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	35.33	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0813	EA	1"	Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.29	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0814	EA	1"	Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	37.70	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0815			304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0816			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0817	EA	1/4"	Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.66	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0818	EA	1/4"	Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.78	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0819	EA	1/4"	Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.92	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0820	EA	1/4"	Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.07	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0821	EA	1/4"	Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.43	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0822	EA	1/4"	Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.65	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0823	EA	1/4"	Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.92	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0824	EA	1/4"	Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.33	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0825	EA	1/4"	Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.66	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0826	EA	1/4"	Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.95	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0827	EA	1/4"	Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.40	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0828	EA	1/4"	Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.89	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0829	EA	1/4"	Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.82	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0830	EA	1/4"	Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.92	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0831	EA	1/4"	Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.20	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0832	EA	1/4"	Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.86	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.05	
			For >500, Deduct	-2.46	
05 05 23 00-0833			5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0834	EA	5/16"	Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.87	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0835	EA	5/16"	Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.97	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0836	EA	5/16"	Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.18	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0837	EA	5/16"	Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.36	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0838	EA	5/16"	Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.88	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0839	EA	5/16"	Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.98	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0840	EA	5/16"	Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.54	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0841	EA	5/16"	Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.14	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0842	EA	5/16"	Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.75	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0843	EA	5/16"	Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.06	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0844	EA	5/16"	Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.21	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0845	EA	5/16"	Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.75	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0846 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 17.28 For >100 To 250, Deduct -1.60 For >250 To 500, Deduct -2.00 For >500, Deduct -2.40		
05 05 23 00-0847 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt 23.20 For >100 To 250, Deduct -1.64 For >250 To 500, Deduct -2.05 For >500, Deduct -2.46		
05 05 23 00-0848 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0849 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 8.14 For >100 To 250, Deduct -1.48 For >250 To 500, Deduct -1.85 For >500, Deduct -2.21		
05 05 23 00-0850 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt 8.26 For >100 To 250, Deduct -1.48 For >250 To 500, Deduct -1.85 For >500, Deduct -2.21		
05 05 23 00-0851 EA 3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 8.60 For >100 To 250, Deduct -1.48 For >250 To 500, Deduct -1.85 For >500, Deduct -2.21		
05 05 23 00-0852 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 9.02 For >100 To 250, Deduct -1.48 For >250 To 500, Deduct -1.85 For >500, Deduct -2.21		
05 05 23 00-0853 EA 3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 9.45 For >100 To 250, Deduct -1.52 For >250 To 500, Deduct -1.90 For >500, Deduct -2.28		
05 05 23 00-0854 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt 9.79 For >100 To 250, Deduct -1.52 For >250 To 500, Deduct -1.90 For >500, Deduct -2.28		
05 05 23 00-0855 EA 3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 10.23 For >100 To 250, Deduct -1.52 For >250 To 500, Deduct -1.90 For >500, Deduct -2.28		
05 05 23 00-0856 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt 10.85 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0857 EA 3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 11.37 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0858 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt 12.53 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0859 EA 3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 12.87 For >100 To 250, Deduct -1.60 For >250 To 500, Deduct -2.00 For >500, Deduct -2.40		
05 05 23 00-0860 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt 13.83 For >100 To 250, Deduct -1.60 For >250 To 500, Deduct -2.00 For >500, Deduct -2.40		
05 05 23 00-0861 EA 3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 15.87 For >100 To 250, Deduct -1.60 For >250 To 500, Deduct -2.00 For >500, Deduct -2.40		
05 05 23 00-0862 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt 16.56 For >100 To 250, Deduct -1.64 For >250 To 500, Deduct -2.05 For >500, Deduct -2.46		
05 05 23 00-0863 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 16.86 For >100 To 250, Deduct -1.64 For >250 To 500, Deduct -2.05 For >500, Deduct -2.46		
05 05 23 00-0864 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt 18.90 For >100 To 250, Deduct -1.64 For >250 To 500, Deduct -2.05 For >500, Deduct -2.46		
05 05 23 00-0865 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0866 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt 10.26 For >100 To 250, Deduct -1.68 For >250 To 500, Deduct -2.11 For >500, Deduct -2.53		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0867	EA		7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.40	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0868	EA		7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.94	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0869	EA		7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.48	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0870	EA		7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.13	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0871	EA		7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	13.21	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0872	EA		7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.91	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0873	EA		7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.18	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0874	EA		7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.74	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0875	EA		7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.69	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0876	EA		7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.62	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0877	EA		7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	19.89	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0878	EA		7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.33	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0879			1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0880	EA		1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.24	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0881	EA		1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.40	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0882	EA		1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.25	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.11	
			For >500, Deduct	-2.53	
05 05 23 00-0883	EA		1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.80	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0884	EA		1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.57	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0885	EA		1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.99	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0886	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.71	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0887	EA		1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.08	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0888 EA 1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt 16.11 For >100 To 250, Deduct -1.77 For >250 To 500, Deduct -2.21 For >500, Deduct -2.65		
05 05 23 00-0889 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 16.89 For >100 To 250, Deduct -1.81 For >250 To 500, Deduct -2.27 For >500, Deduct -2.72		
05 05 23 00-0890 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt 17.80 For >100 To 250, Deduct -1.81 For >250 To 500, Deduct -2.27 For >500, Deduct -2.72		
05 05 23 00-0891 EA 1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 18.83 For >100 To 250, Deduct -1.81 For >250 To 500, Deduct -2.27 For >500, Deduct -2.72		
05 05 23 00-0892 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt 20.58 For >100 To 250, Deduct -1.85 For >250 To 500, Deduct -2.32 For >500, Deduct -2.78		
05 05 23 00-0893 EA 1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 21.19 For >100 To 250, Deduct -1.85 For >250 To 500, Deduct -2.32 For >500, Deduct -2.78		
05 05 23 00-0894 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt 22.17 For >100 To 250, Deduct -1.85 For >250 To 500, Deduct -2.32 For >500, Deduct -2.78		
05 05 23 00-0895 EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 27.14 For >100 To 250, Deduct -1.90 For >250 To 500, Deduct -2.37 For >500, Deduct -2.84		
05 05 23 00-0896 EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt 27.53 For >100 To 250, Deduct -1.90 For >250 To 500, Deduct -2.37 For >500, Deduct -2.84		
05 05 23 00-0897 EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 30.22 For >100 To 250, Deduct -1.90 For >250 To 500, Deduct -2.37 For >500, Deduct -2.84		
05 05 23 00-0898 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt 32.90 For >100 To 250, Deduct -1.90 For >250 To 500, Deduct -2.37 For >500, Deduct -2.84		
05 05 23 00-0899 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815) 14.70		
05 05 23 00-0900 EA 9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt 14.70 For >100 To 250, Deduct -1.68 For >250 To 500, Deduct -2.11 For >500, Deduct -2.53		
05 05 23 00-0901 EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 16.46 For >100 To 250, Deduct -1.68 For >250 To 500, Deduct -2.11 For >500, Deduct -2.53		
05 05 23 00-0902 EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 19.56 For >100 To 250, Deduct -1.68 For >250 To 500, Deduct -2.11 For >500, Deduct -2.53		
05 05 23 00-0903 EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 20.38 For >100 To 250, Deduct -1.73 For >250 To 500, Deduct -2.16 For >500, Deduct -2.59		
05 05 23 00-0904 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt 21.48 For >100 To 250, Deduct -1.73 For >250 To 500, Deduct -2.16 For >500, Deduct -2.59		
05 05 23 00-0905 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 23.40 For >100 To 250, Deduct -1.73 For >250 To 500, Deduct -2.16 For >500, Deduct -2.59		
05 05 23 00-0906 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt 26.43 For >100 To 250, Deduct -1.77 For >250 To 500, Deduct -2.21 For >500, Deduct -2.65		
05 05 23 00-0907 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 26.86 For >100 To 250, Deduct -1.77 For >250 To 500, Deduct -2.21 For >500, Deduct -2.65		
05 05 23 00-0908 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt 30.91 For >100 To 250, Deduct -1.77 For >250 To 500, Deduct -2.21 For >500, Deduct -2.65		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0909	EA		9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	33.03	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0910	EA		9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	35.20	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-0911 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0915)					
05 05 23 00-0912	EA		5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.81	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0913	EA		5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	13.21	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0914	EA		5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.89	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0915	EA		5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.38	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0916	EA		5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	16.19	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0917	EA		5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.33	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0918	EA		5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	18.98	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0919	EA		5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	18.99	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0920	EA		5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	20.28	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0921	EA		5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	21.21	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0922	EA		5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	22.37	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0923	EA		5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	26.61	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0924	EA		5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	29.14	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0925	EA		5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.06	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0926	EA		5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.93	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0927	EA		5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	35.68	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0928	EA		5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	36.81	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0929	EA		5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	41.85	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0930	EA		5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.92	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0931 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)					
05 05 23 00-0932	EA		3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.65	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0933	EA		3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.43	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0934	EA		3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.47	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-0935	EA		3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.81	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0936	EA		3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.95	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0937	EA		3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.89	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-0938	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.24	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0939	EA		3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.04	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0940	EA		3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.47	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-0941	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.17	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0942	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.84	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0943	EA		3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.98	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-0944	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.53	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0945	EA		3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.19	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0946	EA		3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.88	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-0947	EA		3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.35	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0948	EA		3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	50.25	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0949	EA		3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	52.68	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0950	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	54.55	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0951			7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0952	EA		7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.65	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0953	EA		7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.61	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0954	EA		7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.33	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0955	EA		7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.32	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0956	EA		7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.97	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0957	EA		7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.82	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0958	EA		7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.46	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0959	EA		7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.80	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0960	EA		7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.65	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0961	EA		7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.32	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0962	EA		7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.53	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0963	EA		7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.26	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0964	EA		7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	53.39	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0965	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	56.72	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0966	EA		7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.03	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0967	EA		7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	75.12	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0968	EA		7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	78.86	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0969	EA		7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	82.59	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0970			1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0971	EA		1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.41	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0972	EA		1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.85	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0973	EA	1"	Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.20	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0974	EA	1"	Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.01	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0975	EA	1"	Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.98	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0976	EA	1"	Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.53	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0977	EA	1"	Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.60	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0978	EA	1"	Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.67	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-0979	EA	1"	Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.74	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0980	EA	1"	Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.91	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0981	EA	1"	Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	54.13	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-0982	EA	1"	Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	64.73	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0983	EA	1"	Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	66.28	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0984	EA	1"	Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.82	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-0985	EA	1"	Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	71.13	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0986	EA	1"	Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	75.87	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0987	EA	1"	Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	97.42	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0988	EA	1"	Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	122.52	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-0989			316 Stainless Steel, Hex Head Bolts (05 05 23 00-0997)		
05 05 23 00-0990			1/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-0991	EA	1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.88	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0992	EA	1"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.11	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0993	EA	1-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.27	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	
05 05 23 00-0994	EA	2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.39	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-1.85	
			For >500, Deduct	-2.21	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0995	EA	2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.92		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0996	EA	3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.21		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0997	EA	3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.51		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0998	EA	4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.95		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0999	EA	4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.20		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-1000	EA	5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.31		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-1001	EA	5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.26		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-1002	EA	6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.46		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-1003	EA	6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	19.01		
		For >100 To 250, Deduct	-1.60		
		For >250 To 500, Deduct	-2.00		
		For >500, Deduct	-2.40		
05 05 23 00-1004	EA	7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	28.36		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-1005	EA	7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	48.50		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-1006	EA	8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	53.09		
		For >100 To 250, Deduct	-1.64		
		For >250 To 500, Deduct	-2.05		
		For >500, Deduct	-2.46		
05 05 23 00-1007		5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)			
05 05 23 00-1008	EA	5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.19		
		For >100 To 250, Deduct	-1.48		
		For >250 To 500, Deduct	-1.85		
		For >500, Deduct	-2.21		
05 05 23 00-1009	EA	5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	8.45		
		For >100 To 250, Deduct	-1.48		
		For >250 To 500, Deduct	-1.85		
		For >500, Deduct	-2.21		
05 05 23 00-1010	EA	5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.88		
		For >100 To 250, Deduct	-1.48		
		For >250 To 500, Deduct	-1.85		
		For >500, Deduct	-2.21		
05 05 23 00-1011	EA	5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	9.20		
		For >100 To 250, Deduct	-1.48		
		For >250 To 500, Deduct	-1.85		
		For >500, Deduct	-2.21		
05 05 23 00-1012	EA	5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.55		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-1013	EA	5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	10.22		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-1014	EA	5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.68		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-1015	EA	5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	11.09		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1016 EA 5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.08	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1017 EA 5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	12.29	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1018 EA 5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.18	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1019 EA 5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	13.95	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1020 EA 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.37	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1021 EA 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	29.71	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-1022 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1023 EA 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.87	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-1024 EA 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	8.97	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-1025 EA 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.38	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-1026 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.33	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-1027 EA 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.88	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-1028 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	11.05	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-1029 EA 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.89	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-1030 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	12.22	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1031 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.75	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1032 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	13.10	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1033 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.46	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1034 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	15.87	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1035 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.93	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1036 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	19.72	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	



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

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1037	EA	3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.53	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.05	
		For >500, Deduct	-2.46	
05 05 23 00-1038	EA	3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	31.81	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.05	
		For >500, Deduct	-2.46	
05 05 23 00-1039 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)				
05 05 23 00-1040	EA	7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	11.51	
		For >100 To 250, Deduct	-1.68	
		For >250 To 500, Deduct	-2.11	
		For >500, Deduct	-2.53	
05 05 23 00-1041	EA	7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.12	
		For >100 To 250, Deduct	-1.68	
		For >250 To 500, Deduct	-2.11	
		For >500, Deduct	-2.53	
05 05 23 00-1042	EA	7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	13.25	
		For >100 To 250, Deduct	-1.68	
		For >250 To 500, Deduct	-2.11	
		For >500, Deduct	-2.53	
05 05 23 00-1043	EA	7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.43	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-1044	EA	7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	15.51	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-1045	EA	7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.29	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-1046	EA	7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	19.20	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-1047	EA	7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.51	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-1048	EA	7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	20.16	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-1049	EA	7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.81	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.27	
		For >500, Deduct	-2.72	
05 05 23 00-1050	EA	7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	21.28	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.27	
		For >500, Deduct	-2.72	
05 05 23 00-1051	EA	7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.74	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.27	
		For >500, Deduct	-2.72	
05 05 23 00-1052	EA	7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	22.32	
		For >100 To 250, Deduct	-1.85	
		For >250 To 500, Deduct	-2.32	
		For >500, Deduct	-2.78	
05 05 23 00-1053 1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)				
05 05 23 00-1054	EA	1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	11.48	
		For >100 To 250, Deduct	-1.68	
		For >250 To 500, Deduct	-2.11	
		For >500, Deduct	-2.53	
05 05 23 00-1055	EA	1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.13	
		For >100 To 250, Deduct	-1.68	
		For >250 To 500, Deduct	-2.11	
		For >500, Deduct	-2.53	
05 05 23 00-1056	EA	1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	13.04	
		For >100 To 250, Deduct	-1.68	
		For >250 To 500, Deduct	-2.11	
		For >500, Deduct	-2.53	
05 05 23 00-1057	EA	1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.34	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1058 EA 1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	15.34	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1059 EA 1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.59	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1060 EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	16.22	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1061 EA 1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.15	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1062 EA 1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	22.08	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1063 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.59	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-1064 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	23.21	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-1065 EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.07	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.27	
For >500, Deduct	-2.72	
05 05 23 00-1066 EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	31.53	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-1067 EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.63	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-1068 EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	37.11	
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-1069 EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.52	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-1070 EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	52.46	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-1071 EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	53.44	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-1072 EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	54.95	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-1073 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)	27.75	
05 05 23 00-1074 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	27.75	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-1075 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.89	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-1076 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	37.03	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	
05 05 23 00-1077 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.25	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1078 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	45.47	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1079	EA		9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	49.69	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-1080	EA		9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	52.53	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-1081	EA		9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	56.01	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-1082	EA		9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	59.11	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-1083	EA		9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	60.25	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-1084	EA		9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	62.98	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.27	
			For >500, Deduct	-2.72	
05 05 23 00-1085			5/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1086	EA		5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	15.85	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-1087	EA		5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.04	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-1088	EA		5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	16.10	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-1089	EA		5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.53	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-1090	EA		5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	18.78	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-1091	EA		5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.76	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-1092	EA		5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	23.80	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-1093	EA		5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.28	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-1094	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	28.49	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-1095	EA		5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.99	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-1096	EA		5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	31.98	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-1097	EA		5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.07	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-1098	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	40.48	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-1099	EA		5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.25	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1100	EA		5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	44.10	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-1101	EA		5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.88	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1102	EA		5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	49.29	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1103	EA		5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	60.80	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1104	EA		5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	73.09	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1105 3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1106	EA		3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	20.69	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-1107	EA		3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.13	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-1108	EA		3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	22.78	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-2.84	
05 05 23 00-1109	EA		3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.45	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-1110	EA		3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	27.54	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-1111	EA		3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.33	
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-2.91	
05 05 23 00-1112	EA		3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	33.36	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-1113	EA		3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.94	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-1114	EA		3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	35.81	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-2.48	
			For >500, Deduct	-2.97	
05 05 23 00-1115	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.18	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-1116	EA		3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	39.16	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-1117	EA		3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.25	
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.03	
05 05 23 00-1118	EA		3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	54.28	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-1119	EA		3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	61.14	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	
05 05 23 00-1120	EA		3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	62.18	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1121	EA		3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	66.52	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1122	EA		3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	76.93	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1123	EA		3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	77.81	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1124	EA		3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	80.01	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1125			7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1126	EA		7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.32	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1127	EA		7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	26.18	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1128	EA		7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.96	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-1129	EA		7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	31.97	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-1130	EA		7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.76	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-1131	EA		7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	35.55	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-1132	EA		7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.98	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-1133	EA		7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	43.44	
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-2.74	
			For >500, Deduct	-3.29	
05 05 23 00-1134	EA		7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.78	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-1135	EA		7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	45.59	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-1136	EA		7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	60.87	
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-2.79	
			For >500, Deduct	-3.35	
05 05 23 00-1137	EA		7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	67.82	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-1138	EA		7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	75.08	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-1139	EA		7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	78.65	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.41	
05 05 23 00-1140	EA		7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	83.50	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	
05 05 23 00-1141	EA		7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	86.61	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.47	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1142 EA 7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	89.69	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-1143 EA 7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	93.15	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-1144 1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1145 EA 1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	29.62	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-1146 EA 1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.24	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1147 EA 1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	37.20	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1148 EA 1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.91	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1149 EA 1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	43.81	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1150 EA 1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.01	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1151 EA 1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	50.24	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1152 EA 1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	53.69	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1153 EA 1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	62.04	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1154 EA 1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	70.27	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1155 EA 1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	81.74	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-1156 EA 1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	91.21	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-1157 EA 1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	92.57	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.41	
05 05 23 00-1158 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	95.87	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-1159 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	97.17	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-1160 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	112.89	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	
05 05 23 00-1161 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	128.06	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.47	

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

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

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1164	EA		12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw.....	3.93	
			For >10 To 50, Deduct	-0.18	
			For >50 To 100, Deduct	-0.36	
			For >100, Deduct	-0.72	
05 05 23 00-1165	EA		12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw.....	4.08	
			For >10 To 50, Deduct	-0.18	
			For >50 To 100, Deduct	-0.37	
			For >100, Deduct	-0.73	
05 05 23 00-1166	EA		12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw.....	4.53	
			For >10 To 50, Deduct	-0.19	
			For >50 To 100, Deduct	-0.39	
			For >100, Deduct	-0.79	
05 05 23 00-1167	EA		1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw.....	6.18	
			For >10 To 50, Deduct	-0.23	
			For >50 To 100, Deduct	-0.51	
			For >100, Deduct	-1.01	
05 05 23 00-1168	EA		1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw.....	6.59	
			For >10 To 50, Deduct	-0.25	
			For >50 To 100, Deduct	-0.53	
			For >100, Deduct	-1.07	
05 05 23 00-1169	EA		1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw.....	8.04	
			For >10 To 50, Deduct	-0.26	
			For >50 To 100, Deduct	-0.59	
			For >100, Deduct	-1.17	
05 05 23 00-1170	EA		1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw.....	8.94	
			For >10 To 50, Deduct	-0.27	
			For >50 To 100, Deduct	-0.63	
			For >100, Deduct	-1.25	
05 05 23 00-1171	Security Screws (05 05 23 00-1162)				
05 05 23 00-1172	304/18-8 Stainless Steel, Security Screws (05 05 23 00-1171)				
	Note: Includes "security" style drive in machine or sheet metal screw threads.				
05 05 23 00-1173	EA		#4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws.....	3.11	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.30	
			For >100, Deduct	-0.60	
05 05 23 00-1174	EA		#6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.56	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.31	
			For >100, Deduct	-0.62	
05 05 23 00-1175	EA		#6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.94	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.32	
			For >100, Deduct	-0.64	
05 05 23 00-1176	EA		#6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.07	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.32	
			For >100, Deduct	-0.65	
05 05 23 00-1177	EA		#6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.32	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.66	
05 05 23 00-1178	EA		#8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.66	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.31	
			For >100, Deduct	-0.63	
05 05 23 00-1179	EA		#8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.84	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.32	
			For >100, Deduct	-0.63	
05 05 23 00-1180	EA		#8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.22	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.65	
05 05 23 00-1181	EA		#8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.34	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.66	
05 05 23 00-1182	EA		#10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.77	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.32	
			For >100, Deduct	-0.63	
05 05 23 00-1183	EA		#10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.82	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.32	
			For >100, Deduct	-0.63	
05 05 23 00-1184	EA		#10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.99	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.32	
			For >100, Deduct	-0.64	
05 05 23 00-1185	EA		#10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.50	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.67	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1186 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.07	
For >10 To 50, Deduct	-0.15	
For >50 To 100, Deduct	-0.32	
For >100, Deduct	-0.65	
05 05 23 00-1187 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.19	
For >10 To 50, Deduct	-0.15	
For >50 To 100, Deduct	-0.33	
For >100, Deduct	-0.65	
05 05 23 00-1188 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.68	
For >10 To 50, Deduct	-0.15	
For >50 To 100, Deduct	-0.34	
For >100, Deduct	-0.68	
05 05 23 00-1189 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	5.46	
For >10 To 50, Deduct	-0.15	
For >50 To 100, Deduct	-0.36	
For >100, Deduct	-0.72	

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

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

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

05 05 23 00-1192 LF 1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.02	0.52
For Left Hand Threaded Rod, Add	0.10	
05 05 23 00-1193 LF 5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.61	0.57
For Left Hand Threaded Rod, Add	0.15	
05 05 23 00-1194 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.03	0.67
For Left Hand Threaded Rod, Add	0.17	
05 05 23 00-1195 LF 7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.02	0.68
For Left Hand Threaded Rod, Add	0.27	
05 05 23 00-1196 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.13	0.71
For Left Hand Threaded Rod, Add	0.27	
05 05 23 00-1197 LF 9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.07	0.71
For Left Hand Threaded Rod, Add	0.37	
05 05 23 00-1198 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.69	0.73
For Left Hand Threaded Rod, Add	0.42	
05 05 23 00-1199 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.19	0.75
For Left Hand Threaded Rod, Add	0.77	
05 05 23 00-1200 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.01	0.77
For Left Hand Threaded Rod, Add	0.85	
05 05 23 00-1201 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	13.63	0.87
For Left Hand Threaded Rod, Add	1.19	
05 05 23 00-1202 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	16.94	0.97
For Left Hand Threaded Rod, Add	1.50	
05 05 23 00-1203 LF 1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	22.41	1.05
For Left Hand Threaded Rod, Add	2.02	
05 05 23 00-1204 LF 1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	27.81	1.14
For Left Hand Threaded Rod, Add	2.55	
05 05 23 00-1205 LF 1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	33.22	1.19
For Left Hand Threaded Rod, Add	3.08	
05 05 23 00-1206 LF 1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	40.67	1.25
For Left Hand Threaded Rod, Add	3.82	
05 05 23 00-1207 LF 2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	51.86	1.31
For Left Hand Threaded Rod, Add	4.92	

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

05 05 23 00-1209 LF 1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.03	0.52
For Left Hand Threaded Rod, Add	0.10	
05 05 23 00-1210 LF 5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.93	0.57
For Left Hand Threaded Rod, Add	0.18	
05 05 23 00-1211 LF 3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	3.27	0.67
For Left Hand Threaded Rod, Add	0.20	
05 05 23 00-1212 LF 7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	4.63	0.68
For Left Hand Threaded Rod, Add	0.33	
05 05 23 00-1213 LF 1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	4.97	0.71
For Left Hand Threaded Rod, Add	0.36	
05 05 23 00-1214 LF 9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	6.45	0.71
For Left Hand Threaded Rod, Add	0.50	
05 05 23 00-1215 LF 5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	6.85	0.73
For Left Hand Threaded Rod, Add	0.54	
05 05 23 00-1216 LF 3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	10.19	0.75
For Left Hand Threaded Rod, Add	0.87	
05 05 23 00-1217 LF 7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	13.13	0.77
For Left Hand Threaded Rod, Add	1.16	
05 05 23 00-1218 LF 1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	17.57	0.87
For Left Hand Threaded Rod, Add	1.58	
05 05 23 00-1219 LF 1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	22.65	0.97
For Left Hand Threaded Rod, Add	2.07	
05 05 23 00-1220 LF 1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	27.00	1.05
For Left Hand Threaded Rod, Add	2.48	
05 05 23 00-1221 LF 1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	30.65	1.14
For Left Hand Threaded Rod, Add	2.84	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1222	LF		1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	38.53	1.19
			For Left Hand Threaded Rod, Add	3.61	
05 05 23 00-1223	LF		1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	47.67	1.25
			For Left Hand Threaded Rod, Add	4.52	
05 05 23 00-1224	LF		2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	69.39	1.31
			For Left Hand Threaded Rod, Add	6.68	
05 05 23 00-1225 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1190)					
05 05 23 00-1226	LF		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	5.26	0.67
			For Left Hand Threaded Rod, Add	0.40	
05 05 23 00-1227	LF		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	7.29	0.71
			For Left Hand Threaded Rod, Add	0.59	
05 05 23 00-1228	LF		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	9.78	0.73
			For Left Hand Threaded Rod, Add	0.83	
05 05 23 00-1229	LF		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	13.35	0.75
			For Left Hand Threaded Rod, Add	1.19	
05 05 23 00-1230	LF		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	18.40	0.77
			For Left Hand Threaded Rod, Add	1.69	
05 05 23 00-1231	LF		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	23.70	0.87
			For Left Hand Threaded Rod, Add	2.20	
05 05 23 00-1232	LF		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	31.13	0.97
			For Left Hand Threaded Rod, Add	2.92	
05 05 23 00-1233	LF		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	40.88	1.05
			For Left Hand Threaded Rod, Add	3.87	
05 05 23 00-1234	LF		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	45.66	1.14
			For Left Hand Threaded Rod, Add	4.34	
05 05 23 00-1235	LF		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	54.31	1.19
			For Left Hand Threaded Rod, Add	5.19	
05 05 23 00-1236	LF		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	65.92	1.25
			For Left Hand Threaded Rod, Add	6.34	
05 05 23 00-1237	LF		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	114.78	1.31
			For Left Hand Threaded Rod, Add	11.22	
05 05 23 00-1238 304/18-8 Stainless Steel Threaded Rod (05 05 23 00-1190)					
05 05 23 00-1239	LF		1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	3.39	0.52
			For Left Hand Threaded Rod, Add	0.23	
05 05 23 00-1240	LF		5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	5.14	0.57
			For Left Hand Threaded Rod, Add	0.40	
05 05 23 00-1241	LF		3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.64	0.67
			For Left Hand Threaded Rod, Add	0.53	
05 05 23 00-1242	LF		7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	9.28	0.68
			For Left Hand Threaded Rod, Add	0.79	
05 05 23 00-1243	LF		1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	11.16	0.71
			For Left Hand Threaded Rod, Add	0.98	
05 05 23 00-1244	LF		9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	16.12	0.71
			For Left Hand Threaded Rod, Add	1.47	
05 05 23 00-1245	LF		5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	16.84	0.73
			For Left Hand Threaded Rod, Add	1.54	
05 05 23 00-1246	LF		3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	23.64	0.75
			For Left Hand Threaded Rod, Add	2.22	
05 05 23 00-1247	LF		7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	32.57	0.77
			For Left Hand Threaded Rod, Add	3.10	
05 05 23 00-1248	LF		1" Diameter, 304/18-8 Stainless Steel Threaded Rod	41.81	0.87
			For Left Hand Threaded Rod, Add	4.01	
05 05 23 00-1249	LF		1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	88.70	1.05
			For Left Hand Threaded Rod, Add	8.65	
05 05 23 00-1250	LF		1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	135.17	1.19
			For Left Hand Threaded Rod, Add	13.28	
05 05 23 00-1251	LF		1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	139.03	1.25
			For Left Hand Threaded Rod, Add	13.65	
05 05 23 00-1252	LF		2" Diameter, 304/18-8 Stainless Steel Threaded Rod	192.48	1.31
			For Left Hand Threaded Rod, Add	18.99	
05 05 23 00-1253 316 Stainless Steel Threaded Rod (05 05 23 00-1190)					
05 05 23 00-1254	LF		1/4" Diameter, 316 Stainless Steel Threaded Rod	4.96	0.52
			For Left Hand Threaded Rod, Add	0.39	
05 05 23 00-1255	LF		5/16" Diameter, 316 Stainless Steel Threaded Rod	8.05	0.57
			For Left Hand Threaded Rod, Add	0.69	
05 05 23 00-1256	LF		3/8" Diameter, 316 Stainless Steel Threaded Rod	10.72	0.67
			For Left Hand Threaded Rod, Add	0.94	
05 05 23 00-1257	LF		7/16" Diameter, 316 Stainless Steel Threaded Rod	16.82	0.68
			For Left Hand Threaded Rod, Add	1.55	
05 05 23 00-1258	LF		1/2" Diameter, 316 Stainless Steel Threaded Rod	17.84	0.71
			For Left Hand Threaded Rod, Add	1.65	
05 05 23 00-1259	LF		9/16" Diameter, 316 Stainless Steel Threaded Rod	23.46	0.71
			For Left Hand Threaded Rod, Add	2.20	
05 05 23 00-1260	LF		5/8" Diameter, 316 Stainless Steel Threaded Rod	25.26	0.73
			For Left Hand Threaded Rod, Add	2.38	
05 05 23 00-1261	LF		3/4" Diameter, 316 Stainless Steel Threaded Rod	36.90	0.75
			For Left Hand Threaded Rod, Add	3.54	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1262	LF	7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	50.58 4.90	0.77
05 05 23 00-1263	LF	1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	64.02 6.23	0.87
05 05 23 00-1264	LF	1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	135.37 13.32	1.05
05 05 23 00-1265	LF	1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	177.49 17.51	1.19
05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1190)				
05 05 23 00-1267	LF	1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	3.38 1.17	0.52
05 05 23 00-1268	LF	5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	5.14 2.00	0.57
05 05 23 00-1269	LF	3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	5.40 2.05	0.67
05 05 23 00-1270	LF	7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	5.88 2.27	0.68
05 05 23 00-1271	LF	1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	6.46 2.54	0.71
05 05 23 00-1272	LF	9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	8.04 3.31	0.71
05 05 23 00-1273	LF	5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	8.30 3.43	0.73
05 05 23 00-1274	LF	3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	10.96 4.74	0.75
05 05 23 00-1275	LF	7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	13.10 5.78	0.77
05 05 23 00-1276	LF	1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	16.96 7.61	0.87
05 05 23 00-1277	LF	1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	22.04 10.05	0.97
05 05 23 00-1278	LF	1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	24.53 11.17	1.05
05 05 23 00-1279	LF	1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	28.27 13.00	1.14
05 05 23 00-1280	LF	1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	34.34 15.98	1.19
05 05 23 00-1281	LF	1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	35.50 16.50	1.25
05 05 23 00-1282	LF	2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	47.55 22.47	1.31
05 05 23 00-1283 Nuts And Washers (05 05 23)				
05 05 23 00-1284 Hex Nuts (05 05 23 00-1283)				
05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)				
05 05 23 00-1286	EA	1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.65	0.29
05 05 23 00-1287	EA	5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.73	0.29
05 05 23 00-1288	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.78	0.29
05 05 23 00-1289	EA	7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.92	0.29
05 05 23 00-1290	EA	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.00	0.29
05 05 23 00-1291	EA	9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.33	0.29
05 05 23 00-1292	EA	5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.38	0.29
05 05 23 00-1293	EA	3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.64	0.58
05 05 23 00-1294	EA	7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.42	0.58
05 05 23 00-1295	EA	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.08	0.58
05 05 23 00-1296	EA	1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.07	0.58
05 05 23 00-1297	EA	1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	6.20	0.58
05 05 23 00-1298	EA	1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	9.16	0.58
05 05 23 00-1299	EA	1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	10.62	0.88
05 05 23 00-1300	EA	1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	15.62	0.88
05 05 23 00-1301	EA	2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	22.61	0.88
05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1284)				
05 05 23 00-1303	EA	1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.68	0.29
05 05 23 00-1304	EA	5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.74	0.29
05 05 23 00-1305	EA	3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.81	0.29
05 05 23 00-1306	EA	7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.95	0.29
05 05 23 00-1307	EA	1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.13	0.29
05 05 23 00-1308	EA	9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.37	0.29
05 05 23 00-1309	EA	5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.41	0.29
05 05 23 00-1310	EA	3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.86	0.58
05 05 23 00-1311	EA	7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.65	0.58
05 05 23 00-1312	EA	1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	3.75	0.58
05 05 23 00-1313	EA	1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	5.73	0.58
05 05 23 00-1314	EA	1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	8.12	0.58
05 05 23 00-1315	EA	1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	11.96	0.58
05 05 23 00-1316	EA	1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	13.22	0.88



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1317	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	23.91	0.88
05 05 23 00-1318	EA		2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	34.31	0.88
05 05 23 00-1319			Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1320	EA		1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.69	0.29
05 05 23 00-1321	EA		5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.80	0.29
05 05 23 00-1322	EA		3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.87	0.29
05 05 23 00-1323	EA		7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.09	0.29
05 05 23 00-1324	EA		1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.32	0.29
05 05 23 00-1325	EA		9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.60	0.29
05 05 23 00-1326	EA		5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.82	0.29
05 05 23 00-1327	EA		3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.26	0.58
05 05 23 00-1328	EA		7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.43	0.58
05 05 23 00-1329	EA		1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	4.57	0.58
05 05 23 00-1330	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	7.17	0.58
05 05 23 00-1331	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	8.96	0.58
05 05 23 00-1332	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	14.79	0.58
05 05 23 00-1333	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	15.70	0.88
05 05 23 00-1334	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	23.98	0.88
05 05 23 00-1335	EA		2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	33.93	0.88
05 05 23 00-1336			Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1337	EA		1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.69	0.29
05 05 23 00-1338	EA		5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.77	0.29
05 05 23 00-1339	EA		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.84	0.29
05 05 23 00-1340	EA		7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.07	0.29
05 05 23 00-1341	EA		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.24	0.29
05 05 23 00-1342	EA		9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.39	0.29
05 05 23 00-1343	EA		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.54	0.29
05 05 23 00-1344	EA		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.06	0.58
05 05 23 00-1345	EA		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.02	0.58
05 05 23 00-1346	EA		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	4.17	0.58
05 05 23 00-1347	EA		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	6.93	0.58
05 05 23 00-1348	EA		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	8.90	0.58
05 05 23 00-1349	EA		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	13.24	0.58
05 05 23 00-1350	EA		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	15.46	0.88
05 05 23 00-1351	EA		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	27.01	0.88
05 05 23 00-1352	EA		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	46.79	0.88
05 05 23 00-1353			304 Stainless Steel Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1354	EA		1/4" Diameter, 304 Stainless Steel Hex Nut	0.77	0.29
05 05 23 00-1355	EA		5/16" Diameter, 304 Stainless Steel Hex Nut	0.91	0.29
05 05 23 00-1356	EA		3/8" Diameter, 304 Stainless Steel Hex Nut	1.03	0.29
05 05 23 00-1357	EA		7/16" Diameter, 304 Stainless Steel Hex Nut	1.54	0.29
05 05 23 00-1358	EA		1/2" Diameter, 304 Stainless Steel Hex Nut	1.67	0.29
05 05 23 00-1359	EA		9/16" Diameter, 304 Stainless Steel Hex Nut	2.56	0.29
05 05 23 00-1360	EA		5/8" Diameter, 304 Stainless Steel Hex Nut	2.86	0.29
05 05 23 00-1361	EA		3/4" Diameter, 304 Stainless Steel Hex Nut	3.28	0.58
05 05 23 00-1362	EA		7/8" Diameter, 304 Stainless Steel Hex Nut	5.41	0.58
05 05 23 00-1363	EA		1" Diameter, 304 Stainless Steel Hex Nut	8.30	0.58
05 05 23 00-1364	EA		1-1/4" Diameter, 304 Stainless Steel Hex Nut	19.97	0.58
05 05 23 00-1365	EA		1-1/2" Diameter, 304 Stainless Steel Hex Nut	38.40	0.88
05 05 23 00-1366	EA		1-3/4" Diameter, 304 Stainless Steel Hex Nut	67.57	0.88
05 05 23 00-1367	EA		2" Diameter, 304 Stainless Steel Hex Nut	96.33	0.88
05 05 23 00-1368			316 Stainless Steel Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1369	EA		1/4" Diameter, 316 Stainless Steel Hex Nut	0.90	0.29
05 05 23 00-1370	EA		5/16" Diameter, 316 Stainless Steel Hex Nut	1.03	0.29
05 05 23 00-1371	EA		3/8" Diameter, 316 Stainless Steel Hex Nut	1.23	0.29
05 05 23 00-1372	EA		7/16" Diameter, 316 Stainless Steel Hex Nut	2.04	0.29
05 05 23 00-1373	EA		1/2" Diameter, 316 Stainless Steel Hex Nut	2.19	0.29
05 05 23 00-1374	EA		9/16" Diameter, 316 Stainless Steel Hex Nut	2.99	0.29
05 05 23 00-1375	EA		5/8" Diameter, 316 Stainless Steel Hex Nut	3.38	0.29
05 05 23 00-1376	EA		3/4" Diameter, 316 Stainless Steel Hex Nut	4.72	0.58
05 05 23 00-1377	EA		7/8" Diameter, 316 Stainless Steel Hex Nut	6.58	0.58
05 05 23 00-1378	EA		1" Diameter, 316 Stainless Steel Hex Nut	10.17	0.58
05 05 23 00-1379	EA		1-1/4" Diameter, 316 Stainless Steel Hex Nut	30.99	0.58
05 05 23 00-1380	EA		1-1/2" Diameter, 316 Stainless Steel Hex Nut	50.16	0.88
05 05 23 00-1381	EA		1-3/4" Diameter, 316 Stainless Steel Hex Nut	84.69	0.88
05 05 23 00-1382	EA		2" Diameter, 316 Stainless Steel Hex Nut	157.50	0.88
05 05 23 00-1383			Flat Washers (05 05 23 00-1283)		
05 05 23 00-1384			Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1383)		
05 05 23 00-1385	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.05	

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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1386	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.08	
05 05 23 00-1387	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.15	
05 05 23 00-1388	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.22	
05 05 23 00-1389	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.32	
05 05 23 00-1390	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.36	
05 05 23 00-1391	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.61	
05 05 23 00-1392	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.88	
05 05 23 00-1393	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.05	
05 05 23 00-1394	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.29	
05 05 23 00-1395	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.45	
05 05 23 00-1396	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.74	
05 05 23 00-1397	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.72	
05 05 23 00-1398	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.80	
05 05 23 00-1399	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	4.14	
05 05 23 00-1400	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	5.14	
05 05 23 00-1401 Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1383)				
05 05 23 00-1402	EA	1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.19	
05 05 23 00-1403	EA	5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.26	
05 05 23 00-1404	EA	3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.30	
05 05 23 00-1405	EA	7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.40	
05 05 23 00-1406	EA	1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.55	
05 05 23 00-1407	EA	9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.88	
05 05 23 00-1408	EA	5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.26	
05 05 23 00-1409	EA	3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.78	
05 05 23 00-1410	EA	7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	2.96	
05 05 23 00-1411	EA	1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	3.29	
05 05 23 00-1412	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	4.79	
05 05 23 00-1413	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	5.22	
05 05 23 00-1414	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	6.89	
05 05 23 00-1415	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	7.88	
05 05 23 00-1416	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	10.59	
05 05 23 00-1417	EA	2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	12.71	
05 05 23 00-1418 Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)				
05 05 23 00-1419	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.12	
05 05 23 00-1420	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.18	
05 05 23 00-1421	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.20	
05 05 23 00-1422	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.37	
05 05 23 00-1423	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.47	
05 05 23 00-1424	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.78	
05 05 23 00-1425	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.87	
05 05 23 00-1426	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	1.31	
05 05 23 00-1427	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	1.85	
05 05 23 00-1428	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	2.03	
05 05 23 00-1429	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	3.11	
05 05 23 00-1430	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	3.46	
05 05 23 00-1431	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	4.94	
05 05 23 00-1432	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	5.35	
05 05 23 00-1433	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	7.76	
05 05 23 00-1434 304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)				
05 05 23 00-1435	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.15	
05 05 23 00-1436	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.19	
05 05 23 00-1437	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.28	
05 05 23 00-1438	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.51	
05 05 23 00-1439	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.93	
05 05 23 00-1440	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.16	
05 05 23 00-1441	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.70	
05 05 23 00-1442	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.73	
05 05 23 00-1443	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.65	
05 05 23 00-1444	EA	1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.62	
05 05 23 00-1445	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	5.38	
05 05 23 00-1446	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	5.80	
05 05 23 00-1447	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	6.12	
05 05 23 00-1448	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.47	
05 05 23 00-1449	EA	1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	9.28	
05 05 23 00-1450	EA	2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	18.24	
05 05 23 00-1451 316 Stainless Steel Flat Washers (05 05 23 00-1383)				
05 05 23 00-1452	EA	1/4" Inside Diameter, 316 Stainless Steel Flat Washer	0.28	
05 05 23 00-1453	EA	5/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.31	
05 05 23 00-1454	EA	3/8" Inside Diameter, 316 Stainless Steel Flat Washer	0.55	
05 05 23 00-1455	EA	7/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.65	
05 05 23 00-1456	EA	1/2" Inside Diameter, 316 Stainless Steel Flat Washer	1.20	
05 05 23 00-1457	EA	9/16" Inside Diameter, 316 Stainless Steel Flat Washer	2.17	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1458 EA 5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.55	
05 05 23 00-1459 EA 3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	3.22	
05 05 23 00-1460 EA 7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.98	
05 05 23 00-1461 EA 1" Inside Diameter, 316 Stainless Steel Flat Washer.....	5.57	
05 05 23 00-1462 EA 1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	6.34	
05 05 23 00-1463 EA 1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.81	
05 05 23 00-1464 EA 1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	8.26	
05 05 23 00-1465 EA 1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	8.44	
05 05 23 00-1466 EA 1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	12.37	
05 05 23 00-1467 Lock Washers (05 05 23 00-1283)		
05 05 23 00-1468 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1467)		
05 05 23 00-1469 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1470 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.04	
05 05 23 00-1471 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.05	
05 05 23 00-1472 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.09	
05 05 23 00-1473 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.12	
05 05 23 00-1474 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.20	
05 05 23 00-1475 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.23	
05 05 23 00-1476 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.35	
05 05 23 00-1477 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.58	
05 05 23 00-1478 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	1.05	
05 05 23 00-1479 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	1.54	
05 05 23 00-1480 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	2.36	
05 05 23 00-1481 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	3.73	
05 05 23 00-1482 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	4.39	
05 05 23 00-1483 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	7.84	
05 05 23 00-1484 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	8.82	
05 05 23 00-1485 Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1486 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.10	
05 05 23 00-1487 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.11	
05 05 23 00-1488 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.15	
05 05 23 00-1489 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.16	
05 05 23 00-1490 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.26	
05 05 23 00-1491 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.34	
05 05 23 00-1492 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.40	
05 05 23 00-1493 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.68	
05 05 23 00-1494 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.97	
05 05 23 00-1495 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	1.54	
05 05 23 00-1496 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	2.78	
05 05 23 00-1497 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	3.32	
05 05 23 00-1498 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	4.79	
05 05 23 00-1499 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	5.48	
05 05 23 00-1500 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	7.41	
05 05 23 00-1501 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	10.09	
05 05 23 00-1502 304/18-8 Stainless Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1503 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.12	
05 05 23 00-1504 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.17	
05 05 23 00-1505 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.24	
05 05 23 00-1506 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.44	
05 05 23 00-1507 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.49	
05 05 23 00-1508 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	1.19	
05 05 23 00-1509 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	1.41	
05 05 23 00-1510 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	1.64	
05 05 23 00-1511 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	2.97	
05 05 23 00-1512 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	4.19	
05 05 23 00-1513 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	7.32	
05 05 23 00-1514 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	9.73	
05 05 23 00-1515 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	12.37	
05 05 23 00-1516 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	14.85	
05 05 23 00-1517 316 Stainless Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1518 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.15	
05 05 23 00-1519 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.32	
05 05 23 00-1520 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.37	
05 05 23 00-1521 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.64	
05 05 23 00-1522 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.71	
05 05 23 00-1523 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	1.28	
05 05 23 00-1524 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	1.40	
05 05 23 00-1525 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	2.41	
05 05 23 00-1526 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	3.99	
05 05 23 00-1527 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer.....	5.43	
05 05 23 00-1528 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	7.58	
05 05 23 00-1529 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	11.66	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1530 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	20.88	
05 05 23 00-1531 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	23.18	
05 05 23 00-1532 Load Indicating Washers (05 05 23 00-1283)		
05 05 23 00-1533 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1532)		
05 05 23 00-1534 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1535 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.56	
05 05 23 00-1536 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.89	
05 05 23 00-1537 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.12	
05 05 23 00-1538 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.54	
05 05 23 00-1539 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.28	
05 05 23 00-1540 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	7.12	
05 05 23 00-1541 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	9.19	
05 05 23 00-1542 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	11.73	
05 05 23 00-1543 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	12.90	
05 05 23 00-1544 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1545 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.23	
05 05 23 00-1546 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.60	
05 05 23 00-1547 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.50	
05 05 23 00-1548 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.28	
05 05 23 00-1549 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	5.07	
05 05 23 00-1550 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	7.64	
05 05 23 00-1551 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	9.61	
05 05 23 00-1552 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	13.68	
05 05 23 00-1553 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	15.05	
05 05 23 00-1554 Beveled Washers (05 05 23 00-1283)		
05 05 23 00-1555 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1556 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436)	4.22	
05 05 23 00-1557 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436)	4.31	
05 05 23 00-1558 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436)	4.40	
05 05 23 00-1559 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436)	5.35	
05 05 23 00-1560 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436)	5.63	
05 05 23 00-1561 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1562 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436)	6.07	
05 05 23 00-1563 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436)	6.34	
05 05 23 00-1564 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436)	6.34	
05 05 23 00-1565 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436)	6.71	
05 05 23 00-1566 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436)	7.13	
05 05 23 00-1567 Drilling In Steel Plates (05 05 23)		
05 05 23 00-1568 EA Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate	19.12	
For Aluminum, Deduct	-1.91	
For Stainless Steel, Add	2.39	
For >5 To 10, Deduct	-1.91	
For >10 To 25, Deduct	-4.78	
For >25 To 50, Deduct	-6.69	
For >50, Deduct	-9.56	
05 05 23 00-1569 EA >1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate	22.50	
For Aluminum, Deduct	-2.25	
For Stainless Steel, Add	2.81	
For >5 To 10, Deduct	-2.25	
For >10 To 25, Deduct	-5.63	
For >25 To 50, Deduct	-7.88	
For >50, Deduct	-11.25	
05 05 23 00-1570 EA >7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate	27.00	
For Aluminum, Deduct	-2.70	
For Stainless Steel, Add	3.38	
For >5 To 10, Deduct	-2.70	
For >10 To 25, Deduct	-6.75	
For >25 To 50, Deduct	-9.45	
For >50, Deduct	-13.50	
05 05 23 00-1571 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate	31.50	
For Aluminum, Deduct	-3.15	
For Stainless Steel, Add	3.94	
For >5 To 10, Deduct	-3.15	
For >10 To 25, Deduct	-7.88	
For >25 To 50, Deduct	-11.03	
For >50, Deduct	-15.75	



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

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1572	EA	>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	42.19	
		For Aluminum, Deduct	-4.22	
		For Stainless Steel, Add	5.27	
		For >5 To 10, Deduct	-4.22	
		For >10 To 25, Deduct	-10.55	
		For >25 To 50, Deduct	-14.77	
		For >50, Deduct	-21.10	
05 05 23 00-1573	EA	Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	22.50	
		For Aluminum, Deduct	-2.25	
		For Stainless Steel, Add	2.81	
		For >5 To 10, Deduct	-2.25	
		For >10 To 25, Deduct	-5.63	
		For >25 To 50, Deduct	-7.88	
		For >50, Deduct	-11.25	
05 05 23 00-1574	EA	>1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	28.12	
		For Aluminum, Deduct	-2.81	
		For Stainless Steel, Add	3.52	
		For >5 To 10, Deduct	-2.81	
		For >10 To 25, Deduct	-7.03	
		For >25 To 50, Deduct	-9.84	
		For >50, Deduct	-14.06	
05 05 23 00-1575	EA	>7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	33.75	
		For Aluminum, Deduct	-3.38	
		For Stainless Steel, Add	4.22	
		For >5 To 10, Deduct	-3.38	
		For >10 To 25, Deduct	-8.44	
		For >25 To 50, Deduct	-11.81	
		For >50, Deduct	-16.88	
05 05 23 00-1576	EA	>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	42.19	
		For Aluminum, Deduct	-4.22	
		For Stainless Steel, Add	5.27	
		For >5 To 10, Deduct	-4.22	
		For >10 To 25, Deduct	-10.55	
		For >25 To 50, Deduct	-14.77	
		For >50, Deduct	-21.10	
05 05 23 00-1577	EA	Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	28.12	
		For Aluminum, Deduct	-2.81	
		For Stainless Steel, Add	3.52	
		For >5 To 10, Deduct	-2.81	
		For >10 To 25, Deduct	-7.03	
		For >25 To 50, Deduct	-9.84	
		For >50, Deduct	-14.06	
05 05 23 00-1578	EA	>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	37.12	
		For Aluminum, Deduct	-3.71	
		For Stainless Steel, Add	4.64	
		For >5 To 10, Deduct	-3.71	
		For >10 To 25, Deduct	-9.28	
		For >25 To 50, Deduct	-12.99	
		For >50, Deduct	-18.56	
05 05 23 00-1579	EA	>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	45.00	
		For Aluminum, Deduct	-4.50	
		For Stainless Steel, Add	5.63	
		For >5 To 10, Deduct	-4.50	
		For >10 To 25, Deduct	-11.25	
		For >25 To 50, Deduct	-15.75	
		For >50, Deduct	-22.50	

05 50 Metal Fabrications (05)

05 52 Metal Railings (05 50)

05 52 13 Pipe and Tube Railings (05 52)

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

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0003	LF		1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	34.96	10.20
			For Schedule 80 Handrail, Add	3.60	
			For 11 Gauge A513 Steel Tubing, Deduct	-3.21	
			For 12 Gauge A513 Steel Tubing, Deduct	-3.64	
			For 14 Gauge A513 Steel Tubing, Deduct	-4.81	
			For 16 Gauge A513 Steel Tubing, Deduct	-5.68	
			For Additional Off Set Handrail, ADA Attachment, Add	12.57	
			For Aluminum, Satin Finish, Add	6.12	
			For Aluminum, Clear Anodized Finish, Add	9.47	
			For Aluminum, Dark Anodized Finish, Add	10.93	
			For Galvanizing, Add	5.83	
			For Wrought Iron, Add	3.50	
			For Solid Steel Rails, Add	6.99	
			For 304 Stainless Steel, Add	46.62	
			For 316 Stainless Steel, Add	52.45	
			For 2" Wheel Guard, Add	1.38	
			For 4" High Kick Plate, Add	1.82	
			For 6" High Kick Plate, Add	2.91	
			For Curved Rail, Add	14.86	
			For Mounting On Stairs, Add	10.49	
			For Mounting On Slopes, Add	3.50	
			For Post Base Flange With Screws, Add Per Post	19.54	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56	
			For Custom Design Or Shapes (Square Tops, etc), Add	12.38	
			For Nylon Coating, Add	2.19	
05 52 13 00-0004	LF		1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	37.47	10.20
			For Schedule 80 Handrail, Add	5.32	
			For 11 Gauge A513 Steel Tubing, Deduct	-3.76	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.27	
			For 14 Gauge A513 Steel Tubing, Deduct	-5.64	
			For 16 Gauge A513 Steel Tubing, Deduct	-6.66	
			For Additional Off Set Handrail, ADA Attachment, Add	12.57	
			For Aluminum, Satin Finish, Add	7.17	
			For Aluminum, Clear Anodized Finish, Add	11.10	
			For Aluminum, Dark Anodized Finish, Add	12.81	
			For Galvanizing, Add	6.83	
			For Wrought Iron, Add	3.75	
			For Solid Steel Rails, Add	7.49	
			For 304 Stainless Steel, Add	54.66	
			For 316 Stainless Steel, Add	61.49	
			For 2" Wheel Guard, Add	1.62	
			For 4" High Kick Plate, Add	2.14	
			For 6" High Kick Plate, Add	3.42	
			For Curved Rail, Add	16.37	
			For Mounting On Stairs, Add	11.24	
			For Mounting On Slopes, Add	3.75	
			For Post Base Flange With Screws, Add Per Post	19.54	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56	
			For Custom Design Or Shapes (Square Tops, etc), Add	13.64	
			For Nylon Coating, Add	2.56	
05 52 13 00-0005	LF		1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	39.98	10.20
			For Schedule 80 Handrail, Add	5.32	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.31	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.90	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.46	
			For 16 Gauge A513 Steel Tubing, Deduct	-7.64	
			For Additional Off Set Handrail, ADA Attachment, Add	12.57	
			For Aluminum, Satin Finish, Add	8.23	
			For Aluminum, Clear Anodized Finish, Add	12.73	
			For Aluminum, Dark Anodized Finish, Add	14.69	
			For Galvanizing, Add	7.84	
			For Wrought Iron, Add	4.00	
			For Solid Steel Rails, Add	8.00	
			For 304 Stainless Steel, Add	62.69	
			For 316 Stainless Steel, Add	70.52	
			For 2" Wheel Guard, Add	1.86	
			For 4" High Kick Plate, Add	2.45	
			For 6" High Kick Plate, Add	3.92	
			For Curved Rail, Add	17.87	
			For Mounting On Stairs, Add	11.99	
			For Mounting On Slopes, Add	4.00	
			For Post Base Flange With Screws, Add Per Post	19.54	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56	
			For Custom Design Or Shapes (Square Tops, etc), Add	14.89	
			For Nylon Coating, Add	2.94	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0006	LF	2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	44.34	10.20	
		For Schedule 80 Handrail, Add	6.02		
		For 11 Gauge A513 Steel Tubing, Deduct	-5.27		
		For 12 Gauge A513 Steel Tubing, Deduct	-5.99		
		For 14 Gauge A513 Steel Tubing, Deduct	-7.90		
		For 16 Gauge A513 Steel Tubing, Deduct	-9.34		
		For Additional Off Set Handrail, ADA Attachment, Add	12.57		
		For Aluminum, Satin Finish, Add	10.06		
		For Aluminum, Clear Anodized Finish, Add	15.57		
		For Aluminum, Dark Anodized Finish, Add	17.96		
		For Galvanizing, Add	9.58		
		For Wrought Iron, Add	4.43		
		For Solid Steel Rails, Add	8.87		
		For 304 Stainless Steel, Add	76.64		
		For 316 Stainless Steel, Add	86.22		
		For 2" Wheel Guard, Add	2.28		
		For 4" High Kick Plate, Add	2.99		
		For 6" High Kick Plate, Add	4.79		
		For Curved Rail, Add	20.49		
		For Mounting On Stairs, Add	13.30		
		For Mounting On Slopes, Add	4.43		
		For Post Base Flange With Screws, Add Per Post	19.54		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56		
		For Custom Design Or Shapes (Square Tops, etc), Add	17.07		
		For Nylon Coating, Add	3.59		
05 52 13 00-0007	LF	2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	49.55	10.20	
		For Schedule 80 Handrail, Add	6.73		
		For 11 Gauge A513 Steel Tubing, Deduct	-6.42		
		For 12 Gauge A513 Steel Tubing, Deduct	-7.29		
		For 14 Gauge A513 Steel Tubing, Deduct	-9.62		
		For 16 Gauge A513 Steel Tubing, Deduct	-11.37		
		For Additional Off Set Handrail, ADA Attachment, Add	12.57		
		For Aluminum, Satin Finish, Add	12.25		
		For Aluminum, Clear Anodized Finish, Add	18.95		
		For Aluminum, Dark Anodized Finish, Add	21.87		
		For Galvanizing, Add	11.66		
		For Wrought Iron, Add	4.96		
		For Solid Steel Rails, Add	9.91		
		For 304 Stainless Steel, Add	93.31		
		For 316 Stainless Steel, Add	104.98		
		For 2" Wheel Guard, Add	2.77		
		For 4" High Kick Plate, Add	3.65		
		For 6" High Kick Plate, Add	5.83		
		For Curved Rail, Add	23.61		
		For Mounting On Stairs, Add	14.87		
		For Mounting On Slopes, Add	4.96		
		For Post Base Flange With Screws, Add Per Post	19.54		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56		
		For Custom Design Or Shapes (Square Tops, etc), Add	19.68		
		For Nylon Coating, Add	4.37		
05 52 13 00-0008		Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)			
		Note: Includes factory primed posts and two rails.			
05 52 13 00-0009	LF	1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	45.90	10.20	
		For Schedule 80 Handrail, Add	3.60		
		For 11 Gauge A513 Steel Tubing, Deduct	-5.61		
		For 12 Gauge A513 Steel Tubing, Deduct	-6.38		
		For 14 Gauge A513 Steel Tubing, Deduct	-8.42		
		For 16 Gauge A513 Steel Tubing, Deduct	-9.95		
		For Additional Off Set Handrail, ADA Attachment, Add	12.57		
		For Aluminum, Satin Finish, Add	10.71		
		For Aluminum, Clear Anodized Finish, Add	16.58		
		For Aluminum, Dark Anodized Finish, Add	19.13		
		For Galvanizing, Add	10.20		
		For Wrought Iron, Add	4.59		
		For Solid Steel Rails, Add	9.18		
		For 304 Stainless Steel, Add	81.63		
		For 316 Stainless Steel, Add	91.84		
		For 2" Wheel Guard, Add	2.42		
		For 4" High Kick Plate, Add	3.19		
		For 6" High Kick Plate, Add	5.10		
		For Curved Rail, Add	21.42		
		For Mounting On Stairs, Add	13.77		
		For Mounting On Slopes, Add	4.59		
		For Post Base Flange With Screws, Add Per Post	19.54		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56		
		For Custom Design Or Shapes (Square Tops, etc), Add	17.85		
		For Nylon Coating, Add	3.83		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0010	LF		1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	50.29	10.20
			For Schedule 80 Handrail, Add	5.32	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.58	
			For 12 Gauge A513 Steel Tubing, Deduct	-7.48	
			For 14 Gauge A513 Steel Tubing, Deduct	-9.87	
			For 16 Gauge A513 Steel Tubing, Deduct	-11.66	
			For Additional Off Set Handrail, ADA Attachment, Add	12.57	
			For Aluminum, Satin Finish, Add	12.56	
			For Aluminum, Clear Anodized Finish, Add	19.44	
			For Aluminum, Dark Anodized Finish, Add	22.43	
			For Galvanizing, Add	11.96	
			For Wrought Iron, Add	5.03	
			For Solid Steel Rails, Add	10.06	
			For 304 Stainless Steel, Add	95.68	
			For 316 Stainless Steel, Add	107.64	
			For 2" Wheel Guard, Add	2.84	
			For 4" High Kick Plate, Add	3.74	
			For 6" High Kick Plate, Add	5.98	
			For Curved Rail, Add	24.06	
			For Mounting On Stairs, Add	15.09	
			For Mounting On Slopes, Add	5.03	
			For Post Base Flange With Screws, Add Per Post	19.54	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56	
			For Custom Design Or Shapes (Square Tops, etc), Add	20.05	
			For Nylon Coating, Add	4.49	
05 52 13 00-0011	LF		1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	54.68	10.20
			For Schedule 80 Handrail, Add	5.32	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.54	
			For 12 Gauge A513 Steel Tubing, Deduct	-8.57	
			For 14 Gauge A513 Steel Tubing, Deduct	-11.32	
			For 16 Gauge A513 Steel Tubing, Deduct	-13.37	
			For Additional Off Set Handrail, ADA Attachment, Add	12.57	
			For Aluminum, Satin Finish, Add	14.40	
			For Aluminum, Clear Anodized Finish, Add	22.29	
			For Aluminum, Dark Anodized Finish, Add	25.72	
			For Galvanizing, Add	13.72	
			For Wrought Iron, Add	5.47	
			For Solid Steel Rails, Add	10.94	
			For 304 Stainless Steel, Add	109.73	
			For 316 Stainless Steel, Add	123.44	
			For 2" Wheel Guard, Add	3.26	
			For 4" High Kick Plate, Add	4.29	
			For 6" High Kick Plate, Add	6.86	
			For Curved Rail, Add	26.69	
			For Mounting On Stairs, Add	16.40	
			For Mounting On Slopes, Add	5.47	
			For Post Base Flange With Screws, Add Per Post	19.54	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56	
			For Custom Design Or Shapes (Square Tops, etc), Add	22.24	
			For Nylon Coating, Add	5.14	
05 52 13 00-0012	LF		2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	62.30	10.20
			For Schedule 80 Handrail, Add	6.02	
			For 11 Gauge A513 Steel Tubing, Deduct	-9.22	
			For 12 Gauge A513 Steel Tubing, Deduct	-10.48	
			For 14 Gauge A513 Steel Tubing, Deduct	-13.83	
			For 16 Gauge A513 Steel Tubing, Deduct	-16.34	
			For Additional Off Set Handrail, ADA Attachment, Add	12.57	
			For Aluminum, Satin Finish, Add	17.60	
			For Aluminum, Clear Anodized Finish, Add	27.24	
			For Aluminum, Dark Anodized Finish, Add	31.43	
			For Galvanizing, Add	16.76	
			For Wrought Iron, Add	6.23	
			For Solid Steel Rails, Add	12.46	
			For 304 Stainless Steel, Add	134.11	
			For 316 Stainless Steel, Add	150.88	
			For 2" Wheel Guard, Add	3.98	
			For 4" High Kick Plate, Add	5.24	
			For 6" High Kick Plate, Add	8.38	
			For Curved Rail, Add	31.26	
			For Mounting On Stairs, Add	18.69	
			For Mounting On Slopes, Add	6.23	
			For Post Base Flange With Screws, Add Per Post	19.54	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56	
			For Custom Design Or Shapes (Square Tops, etc), Add	26.05	
			For Nylon Coating, Add	6.29	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0013	LF	2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	71.44	10.20	
		For Schedule 80 Handrail, Add	6.73		
		For 11 Gauge A513 Steel Tubing, Deduct	-11.23		
		For 12 Gauge A513 Steel Tubing, Deduct	-12.76		
		For 14 Gauge A513 Steel Tubing, Deduct	-16.85		
		For 16 Gauge A513 Steel Tubing, Deduct	-19.91		
		For Additional Off Set Handrail, ADA Attachment, Add	12.57		
		For Aluminum, Satin Finish, Add	21.44		
		For Aluminum, Clear Anodized Finish, Add	33.18		
		For Aluminum, Dark Anodized Finish, Add	38.29		
		For Galvanizing, Add	20.42		
		For Wrought Iron, Add	7.14		
		For Solid Steel Rails, Add	14.29		
		For 304 Stainless Steel, Add	163.36		
		For 316 Stainless Steel, Add	183.78		
		For 2" Wheel Guard, Add	4.85		
		For 4" High Kick Plate, Add	6.38		
		For 6" High Kick Plate, Add	10.21		
		For Curved Rail, Add	36.75		
		For Mounting On Stairs, Add	21.43		
		For Mounting On Slopes, Add	7.14		
		For Post Base Flange With Screws, Add Per Post	19.54		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.56		
		For Custom Design Or Shapes (Square Tops, etc), Add	30.62		
		For Nylon Coating, Add	7.66		
05 52 13 00-0014		Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)			
		Note: Includes factory primed posts and three rails.			
05 52 13 00-0015	LF	1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	71.33	12.24	
		For Schedule 80 Handrail, Add	5.34		
		For 11 Gauge A513 Steel Tubing, Deduct	-10.31		
		For 12 Gauge A513 Steel Tubing, Deduct	-11.72		
		For 14 Gauge A513 Steel Tubing, Deduct	-15.46		
		For 16 Gauge A513 Steel Tubing, Deduct	-18.28		
		For Additional Off Set Handrail, ADA Attachment, Add	13.38		
		For Aluminum, Satin Finish, Add	19.68		
		For Aluminum, Clear Anodized Finish, Add	30.46		
		For Aluminum, Dark Anodized Finish, Add	35.15		
		For Galvanizing, Add	18.74		
		For Wrought Iron, Add	7.13		
		For Solid Steel Rails, Add	14.27		
		For 304 Stainless Steel, Add	149.95		
		For 316 Stainless Steel, Add	168.70		
		For 2" Wheel Guard, Add	4.45		
		For 4" High Kick Plate, Add	5.86		
		For 6" High Kick Plate, Add	9.37		
		For Curved Rail, Add	35.46		
		For Mounting On Stairs, Add	21.40		
		For Mounting On Slopes, Add	7.13		
		For Post Base Flange With Screws, Add Per Post	19.95		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.17		
		For Custom Design Or Shapes (Square Tops, etc), Add	29.55		
		For Nylon Coating, Add	7.03		
05 52 13 00-0016	LF	1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	79.40	12.24	
		For Schedule 80 Handrail, Add	7.64		
		For 11 Gauge A513 Steel Tubing, Deduct	-12.08		
		For 12 Gauge A513 Steel Tubing, Deduct	-13.73		
		For 14 Gauge A513 Steel Tubing, Deduct	-18.13		
		For 16 Gauge A513 Steel Tubing, Deduct	-21.42		
		For Additional Off Set Handrail, ADA Attachment, Add	13.38		
		For Aluminum, Satin Finish, Add	23.07		
		For Aluminum, Clear Anodized Finish, Add	35.70		
		For Aluminum, Dark Anodized Finish, Add	41.20		
		For Galvanizing, Add	21.97		
		For Wrought Iron, Add	7.94		
		For Solid Steel Rails, Add	15.88		
		For 304 Stainless Steel, Add	175.78		
		For 316 Stainless Steel, Add	197.75		
		For 2" Wheel Guard, Add	5.22		
		For 4" High Kick Plate, Add	6.87		
		For 6" High Kick Plate, Add	10.99		
		For Curved Rail, Add	40.30		
		For Mounting On Stairs, Add	23.82		
		For Mounting On Slopes, Add	7.94		
		For Post Base Flange With Screws, Add Per Post	19.95		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.17		
		For Custom Design Or Shapes (Square Tops, etc), Add	33.58		
		For Nylon Coating, Add	8.24		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0017	LF		1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	87.47	12.24
			For Schedule 80 Handrail, Add	7.64	
			For 11 Gauge A513 Steel Tubing, Deduct	-13.86	
			For 12 Gauge A513 Steel Tubing, Deduct	-15.75	
			For 14 Gauge A513 Steel Tubing, Deduct	-20.79	
			For 16 Gauge A513 Steel Tubing, Deduct	-24.57	
			For Additional Off Set Handrail, ADA Attachment, Add	13.38	
			For Aluminum, Satin Finish, Add	26.46	
			For Aluminum, Clear Anodized Finish, Add	40.95	
			For Aluminum, Dark Anodized Finish, Add	47.25	
			For Galvanizing, Add	25.20	
			For Wrought Iron, Add	8.75	
			For Solid Steel Rails, Add	17.49	
			For 304 Stainless Steel, Add	201.60	
			For 316 Stainless Steel, Add	226.80	
			For 2" Wheel Guard, Add	5.99	
			For 4" High Kick Plate, Add	7.88	
			For 6" High Kick Plate, Add	12.60	
			For Curved Rail, Add	45.14	
			For Mounting On Stairs, Add	26.24	
			For Mounting On Slopes, Add	8.75	
			For Post Base Flange With Screws, Add Per Post	19.95	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.17	
			For Custom Design Or Shapes (Square Tops, etc), Add	37.62	
			For Nylon Coating, Add	9.45	
05 52 13 00-0018	LF		2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	101.49	12.24
			For Schedule 80 Handrail, Add	8.57	
			For 11 Gauge A513 Steel Tubing, Deduct	-16.94	
			For 12 Gauge A513 Steel Tubing, Deduct	-19.26	
			For 14 Gauge A513 Steel Tubing, Deduct	-25.42	
			For 16 Gauge A513 Steel Tubing, Deduct	-30.04	
			For Additional Off Set Handrail, ADA Attachment, Add	13.38	
			For Aluminum, Satin Finish, Add	32.35	
			For Aluminum, Clear Anodized Finish, Add	50.06	
			For Aluminum, Dark Anodized Finish, Add	57.77	
			For Galvanizing, Add	30.81	
			For Wrought Iron, Add	10.15	
			For Solid Steel Rails, Add	20.30	
			For 304 Stainless Steel, Add	246.46	
			For 316 Stainless Steel, Add	277.27	
			For 2" Wheel Guard, Add	7.32	
			For 4" High Kick Plate, Add	9.63	
			For 6" High Kick Plate, Add	15.40	
			For Curved Rail, Add	53.55	
			For Mounting On Stairs, Add	30.45	
			For Mounting On Slopes, Add	10.15	
			For Post Base Flange With Screws, Add Per Post	19.95	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.17	
			For Custom Design Or Shapes (Square Tops, etc), Add	44.63	
			For Nylon Coating, Add	11.55	
05 52 13 00-0019	LF		2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	118.19	12.24
			For Schedule 80 Handrail, Add	9.51	
			For 11 Gauge A513 Steel Tubing, Deduct	-20.62	
			For 12 Gauge A513 Steel Tubing, Deduct	-23.43	
			For 14 Gauge A513 Steel Tubing, Deduct	-30.93	
			For 16 Gauge A513 Steel Tubing, Deduct	-36.55	
			For Additional Off Set Handrail, ADA Attachment, Add	13.38	
			For Aluminum, Satin Finish, Add	39.36	
			For Aluminum, Clear Anodized Finish, Add	60.92	
			For Aluminum, Dark Anodized Finish, Add	70.29	
			For Galvanizing, Add	37.49	
			For Wrought Iron, Add	11.82	
			For Solid Steel Rails, Add	23.64	
			For 304 Stainless Steel, Add	299.90	
			For 316 Stainless Steel, Add	337.39	
			For 2" Wheel Guard, Add	8.90	
			For 4" High Kick Plate, Add	11.72	
			For 6" High Kick Plate, Add	18.74	
			For Curved Rail, Add	63.57	
			For Mounting On Stairs, Add	35.46	
			For Mounting On Slopes, Add	11.82	
			For Post Base Flange With Screws, Add Per Post	19.95	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.17	
			For Custom Design Or Shapes (Square Tops, etc), Add	52.98	
			For Nylon Coating, Add	14.06	

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

Note: Includes factory primed posts and four rails.



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0021	LF		1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	86.06	14.27
			For Schedule 80 Handrail, Add	7.31	
			For 11 Gauge A513 Steel Tubing, Deduct	-12.65	
			For 12 Gauge A513 Steel Tubing, Deduct	-14.38	
			For 14 Gauge A513 Steel Tubing, Deduct	-18.98	
			For 16 Gauge A513 Steel Tubing, Deduct	-22.43	
			For Additional Off Set Handrail, ADA Attachment, Add	14.20	
			For Aluminum, Satin Finish, Add	24.15	
			For Aluminum, Clear Anodized Finish, Add	37.38	
			For Aluminum, Dark Anodized Finish, Add	43.13	
			For Galvanizing, Add	23.00	
			For Wrought Iron, Add	8.61	
			For Solid Steel Rails, Add	17.21	
			For 304 Stainless Steel, Add	184.03	
			For 316 Stainless Steel, Add	207.04	
			For 2" Wheel Guard, Add	5.46	
			For 4" High Kick Plate, Add	7.19	
			For 6" High Kick Plate, Add	11.50	
			For Curved Rail, Add	43.07	
			For Mounting On Stairs, Add	25.82	
			For Mounting On Slopes, Add	8.61	
			For Post Base Flange With Screws, Add Per Post	20.36	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.78	
			For Custom Design Or Shapes (Square Tops, etc), Add	35.89	
			For Nylon Coating, Add	8.63	
05 52 13 00-0022	LF		1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	93.23	14.27
			For Schedule 80 Handrail, Add	10.19	
			For 11 Gauge A513 Steel Tubing, Deduct	-14.23	
			For 12 Gauge A513 Steel Tubing, Deduct	-16.17	
			For 14 Gauge A513 Steel Tubing, Deduct	-21.34	
			For 16 Gauge A513 Steel Tubing, Deduct	-25.23	
			For Additional Off Set Handrail, ADA Attachment, Add	14.20	
			For Aluminum, Satin Finish, Add	27.17	
			For Aluminum, Clear Anodized Finish, Add	42.04	
			For Aluminum, Dark Anodized Finish, Add	48.51	
			For Galvanizing, Add	25.87	
			For Wrought Iron, Add	9.32	
			For Solid Steel Rails, Add	18.65	
			For 304 Stainless Steel, Add	206.98	
			For 316 Stainless Steel, Add	232.85	
			For 2" Wheel Guard, Add	6.14	
			For 4" High Kick Plate, Add	8.09	
			For 6" High Kick Plate, Add	12.94	
			For Curved Rail, Add	47.37	
			For Mounting On Stairs, Add	27.97	
			For Mounting On Slopes, Add	9.32	
			For Post Base Flange With Screws, Add Per Post	20.36	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.78	
			For Custom Design Or Shapes (Square Tops, etc), Add	39.48	
			For Nylon Coating, Add	9.70	
05 52 13 00-0023	LF		1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	100.39	14.27
			For Schedule 80 Handrail, Add	10.19	
			For 11 Gauge A513 Steel Tubing, Deduct	-15.80	
			For 12 Gauge A513 Steel Tubing, Deduct	-17.96	
			For 14 Gauge A513 Steel Tubing, Deduct	-23.71	
			For 16 Gauge A513 Steel Tubing, Deduct	-28.02	
			For Additional Off Set Handrail, ADA Attachment, Add	14.20	
			For Aluminum, Satin Finish, Add	30.17	
			For Aluminum, Clear Anodized Finish, Add	46.70	
			For Aluminum, Dark Anodized Finish, Add	53.88	
			For Galvanizing, Add	28.74	
			For Wrought Iron, Add	10.04	
			For Solid Steel Rails, Add	20.08	
			For 304 Stainless Steel, Add	229.89	
			For 316 Stainless Steel, Add	258.62	
			For 2" Wheel Guard, Add	6.82	
			For 4" High Kick Plate, Add	8.98	
			For 6" High Kick Plate, Add	14.37	
			For Curved Rail, Add	51.67	
			For Mounting On Stairs, Add	30.12	
			For Mounting On Slopes, Add	10.04	
			For Post Base Flange With Screws, Add Per Post	20.36	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.78	
			For Custom Design Or Shapes (Square Tops, etc), Add	43.06	
			For Nylon Coating, Add	10.78	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	116.35	14.27
For Schedule 80 Handrail, Add	11.35	
For 11 Gauge A513 Steel Tubing, Deduct	-19.32	
For 12 Gauge A513 Steel Tubing, Deduct	-21.95	
For 14 Gauge A513 Steel Tubing, Deduct	-28.97	
For 16 Gauge A513 Steel Tubing, Deduct	-34.24	
For Additional Off Set Handrail, ADA Attachment, Add	14.20	
For Aluminum, Satin Finish, Add	36.88	
For Aluminum, Clear Anodized Finish, Add	57.07	
For Aluminum, Dark Anodized Finish, Add	65.85	
For Galvanizing, Add	35.12	
For Wrought Iron, Add	11.64	
For Solid Steel Rails, Add	23.27	
For 304 Stainless Steel, Add	280.96	
For 316 Stainless Steel, Add	316.08	
For 2" Wheel Guard, Add	8.34	
For 4" High Kick Plate, Add	10.98	
For 6" High Kick Plate, Add	17.56	
For Curved Rail, Add	61.25	
For Mounting On Stairs, Add	34.91	
For Mounting On Slopes, Add	11.64	
For Post Base Flange With Screws, Add Per Post	20.36	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.78	
For Custom Design Or Shapes (Square Tops, etc), Add	51.04	
For Nylon Coating, Add	13.17	
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	135.05	14.27
For Schedule 80 Handrail, Add	12.53	
For 11 Gauge A513 Steel Tubing, Deduct	-23.43	
For 12 Gauge A513 Steel Tubing, Deduct	-26.63	
For 14 Gauge A513 Steel Tubing, Deduct	-35.15	
For 16 Gauge A513 Steel Tubing, Deduct	-41.54	
For Additional Off Set Handrail, ADA Attachment, Add	14.20	
For Aluminum, Satin Finish, Add	44.73	
For Aluminum, Clear Anodized Finish, Add	69.23	
For Aluminum, Dark Anodized Finish, Add	79.88	
For Galvanizing, Add	42.60	
For Wrought Iron, Add	13.51	
For Solid Steel Rails, Add	27.01	
For 304 Stainless Steel, Add	340.80	
For 316 Stainless Steel, Add	383.40	
For 2" Wheel Guard, Add	10.12	
For 4" High Kick Plate, Add	13.31	
For 6" High Kick Plate, Add	21.30	
For Curved Rail, Add	72.47	
For Mounting On Stairs, Add	40.52	
For Mounting On Slopes, Add	13.51	
For Post Base Flange With Screws, Add Per Post	20.36	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.78	
For Custom Design Or Shapes (Square Tops, etc), Add	60.39	
For Nylon Coating, Add	15.98	
05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	12.08	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	12.83	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	13.49	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	22.81	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	11.85	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel	12.25	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel	13.12	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel	26.32	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	5.35	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel.....	10.93	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....	14.35	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	21.39	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0043	LF		1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	34.81	6.12
			For Schedule 80 Handrail, Add	2.14	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.29	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.88	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.44	
			For 16 Gauge A513 Steel Tubing, Deduct	-7.61	
			For Stainless Steel, Add	39.04	
			For Aluminum, Satin Finish, Add	8.20	
			For Curved Rail, Add	10.44	
			For Aluminum, Clear Anodized Finish, Add	12.69	
			For Aluminum, Dark Anodized Finish, Add	14.64	
			For Galvanized Finish, Add	5.86	
05 52 13 00-0044	LF		1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	35.44	6.12
			For Schedule 80 Handrail, Add	2.42	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.43	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.04	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.65	
			For 16 Gauge A513 Steel Tubing, Deduct	-7.86	
			For Stainless Steel, Add	40.30	
			For Aluminum, Satin Finish, Add	8.46	
			For Curved Rail, Add	10.63	
			For Aluminum, Clear Anodized Finish, Add	13.10	
			For Aluminum, Dark Anodized Finish, Add	15.11	
			For Galvanized Finish, Add	6.05	
05 52 13 00-0045	LF		1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	36.07	6.12
			For Schedule 80 Handrail, Add	6.26	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.57	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.20	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.86	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.10	
			For Stainless Steel, Add	41.56	
			For Aluminum, Satin Finish, Add	8.73	
			For Curved Rail, Add	10.82	
			For Aluminum, Clear Anodized Finish, Add	13.51	
			For Aluminum, Dark Anodized Finish, Add	15.59	
			For Galvanized Finish, Add	6.23	
05 52 13 00-0046	LF		2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	43.32	6.12
			For Schedule 80 Handrail, Add	2.94	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.17	
			For 12 Gauge A513 Steel Tubing, Deduct	-7.01	
			For 14 Gauge A513 Steel Tubing, Deduct	-9.25	
			For 16 Gauge A513 Steel Tubing, Deduct	-10.93	
			For Stainless Steel, Add	56.06	
			For Aluminum, Satin Finish, Add	11.77	
			For Curved Rail, Add	13.00	
			For Aluminum, Clear Anodized Finish, Add	18.22	
			For Aluminum, Dark Anodized Finish, Add	21.02	
			For Galvanized Finish, Add	8.41	
05 52 13 00-0047	LF		2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	49.30	6.12
			For Schedule 80 Handrail, Add	3.18	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.48	
			For 12 Gauge A513 Steel Tubing, Deduct	-8.50	
			For 14 Gauge A513 Steel Tubing, Deduct	-11.22	
			For 16 Gauge A513 Steel Tubing, Deduct	-13.26	
			For Stainless Steel, Add	68.02	
			For Aluminum, Satin Finish, Add	14.28	
			For Curved Rail, Add	14.79	
			For Aluminum, Clear Anodized Finish, Add	22.11	
			For Aluminum, Dark Anodized Finish, Add	25.51	
			For Galvanized Finish, Add	10.20	
05 52 13 00-0048			Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
			Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF		1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	42.21	6.43
			For Schedule 80 Handrail, Add	2.14	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.92	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.73	
			For 14 Gauge A513 Steel Tubing, Deduct	-8.88	
			For 16 Gauge A513 Steel Tubing, Deduct	-10.50	
			For Stainless Steel, Add	53.84	
			For Aluminum, Satin Finish, Add	11.31	
			For Curved Rail, Add	12.66	
			For Aluminum, Clear Anodized Finish, Add	17.50	
			For Aluminum, Dark Anodized Finish, Add	20.19	
			For Galvanized Finish, Add	8.08	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.10	6.43
For Schedule 80 Handrail, Add	2.42	
For 11 Gauge A513 Steel Tubing, Deduct	-6.12	
For 12 Gauge A513 Steel Tubing, Deduct	-6.95	
For 14 Gauge A513 Steel Tubing, Deduct	-9.18	
For 16 Gauge A513 Steel Tubing, Deduct	-10.85	
For Stainless Steel, Add	55.62	
For Aluminum, Satin Finish, Add	11.68	
For Curved Rail, Add	12.93	
For Aluminum, Clear Anodized Finish, Add	18.08	
For Aluminum, Dark Anodized Finish, Add	20.86	
For Galvanized Finish, Add	8.34	
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.76	6.43
For Schedule 80 Handrail, Add	6.26	
For 11 Gauge A513 Steel Tubing, Deduct	-6.26	
For 12 Gauge A513 Steel Tubing, Deduct	-7.12	
For 14 Gauge A513 Steel Tubing, Deduct	-9.40	
For 16 Gauge A513 Steel Tubing, Deduct	-11.10	
For Stainless Steel, Add	56.94	
For Aluminum, Satin Finish, Add	11.96	
For Curved Rail, Add	13.13	
For Aluminum, Clear Anodized Finish, Add	18.51	
For Aluminum, Dark Anodized Finish, Add	21.35	
For Galvanized Finish, Add	8.54	
05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	53.87	6.43
For Schedule 80 Handrail, Add	2.94	
For 11 Gauge A513 Steel Tubing, Deduct	-8.49	
For 12 Gauge A513 Steel Tubing, Deduct	-9.65	
For 14 Gauge A513 Steel Tubing, Deduct	-12.73	
For 16 Gauge A513 Steel Tubing, Deduct	-15.05	
For Stainless Steel, Add	77.16	
For Aluminum, Satin Finish, Add	16.20	
For Curved Rail, Add	16.16	
For Aluminum, Clear Anodized Finish, Add	25.08	
For Aluminum, Dark Anodized Finish, Add	28.94	
For Galvanized Finish, Add	11.57	
05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	60.48	6.43
For Schedule 80 Handrail, Add	3.18	
For 11 Gauge A513 Steel Tubing, Deduct	-9.94	
For 12 Gauge A513 Steel Tubing, Deduct	-11.30	
For 14 Gauge A513 Steel Tubing, Deduct	-14.91	
For 16 Gauge A513 Steel Tubing, Deduct	-17.62	
For Stainless Steel, Add	90.38	
For Aluminum, Satin Finish, Add	18.98	
For Curved Rail, Add	18.14	
For Aluminum, Clear Anodized Finish, Add	29.37	
For Aluminum, Dark Anodized Finish, Add	33.89	
For Galvanized Finish, Add	13.56	
05 52 13 00-0054 Remove And Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	22.94	
05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing	30.34	
05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket	57.17	
For Stainless Steel, Add	53.18	
05 53 Metal Gratings (05 50)		
05 53 13 Bar Gratings (05 53)		
05 53 13 00-0001 Welded Grating (05 53 13)		
Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002 Steel, Welded Grating (05 53 13 00-0001)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003 SF 3/4" x 1/8" Steel, Welded Grating.....	8.22	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.01	
For 304 Stainless Steel, Add	19.16	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	1.74	
For Crossbars At 2" On-Center, Add	0.64	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.66	
05 53 13 00-0004 SF 3/4" x 3/16" Steel, Welded Grating.....	10.69	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.43	
For 304 Stainless Steel, Add	27.09	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	2.46	
For Crossbars At 2" On-Center, Add	0.91	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.72	



Metals			05	05
Metal Fabrications			05 50	
Metal Gratings			05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0005	SF	1" x 1/8" Steel, Welded Grating	.....	9.81	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	1.29	
		For 304 Stainless Steel, Add	.....	24.27	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	2.21	
		For Crossbars At 2" On-Center, Add	.....	0.82	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.70	
05 53 13 00-0006	SF	1" x 3/16" Steel, Welded Grating	.....	13.16	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	1.85	
		For 304 Stainless Steel, Add	.....	35.02	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	3.19	
		For Crossbars At 2" On-Center, Add	.....	1.18	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.78	
05 53 13 00-0007	SF	1" x 1/4" Steel, Welded Grating	.....	16.52	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	2.43	
		For 304 Stainless Steel, Add	.....	45.81	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	4.17	
		For Crossbars At 2" On-Center, Add	.....	1.54	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.86	
05 53 13 00-0008	SF	1-1/4" x 1/8" Steel, Welded Grating	.....	11.42	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	1.56	
		For 304 Stainless Steel, Add	.....	29.44	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	2.68	
		For Crossbars At 2" On-Center, Add	.....	0.99	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.74	
05 53 13 00-0009	SF	1-1/4" x 3/16" Steel, Welded Grating	.....	15.50	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	2.25	
		For 304 Stainless Steel, Add	.....	42.53	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	3.87	
		For Crossbars At 2" On-Center, Add	.....	1.43	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.84	
05 53 13 00-0010	SF	1-1/2" x 1/8" Steel, Welded Grating	.....	13.02	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	1.83	
		For 304 Stainless Steel, Add	.....	34.57	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	3.14	
		For Crossbars At 2" On-Center, Add	.....	1.16	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.78	
05 53 13 00-0011	SF	1-1/2" x 3/16" Steel, Welded Grating	.....	18.45	1.38
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	2.67	
		For 304 Stainless Steel, Add	.....	50.40	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	4.58	
		For Crossbars At 2" On-Center, Add	.....	1.70	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-2.24	
05 53 13 00-0012	SF	1-1/2" x 1/4" Steel, Welded Grating	.....	23.55	1.38
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.54	
		For 304 Stainless Steel, Add	.....	66.77	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	6.07	
		For Crossbars At 2" On-Center, Add	.....	2.25	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-2.36	
05 53 13 00-0013	SF	1-3/4" x 3/16" Steel, Welded Grating	.....	20.94	1.38
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.09	
		For 304 Stainless Steel, Add	.....	58.39	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center	.....		
		For Bearing Bars At 15/16" On-Center, Add	.....	5.31	
		For Crossbars At 2" On-Center, Add	.....	1.96	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-2.30	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0014	SF		2" x 3/16" Steel, Welded Grating.....	23.27	1.38
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.49	
			For 304 Stainless Steel, Add	65.87	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	5.99	
			For Crossbars At 2" On-Center, Add	2.22	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.36	
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating	25.74	1.38
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.91	
			For 304 Stainless Steel, Add	73.80	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.71	
			For Crossbars At 2" On-Center, Add	2.48	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.42	
05 53 13 00-0016	SF		2-1/2" x 3/16" Steel, Welded Grating	28.08	1.38
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.31	
			For 304 Stainless Steel, Add	81.31	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	7.40	
			For Crossbars At 2" On-Center, Add	2.74	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.48	
05 53 13 00-0017			Pressure Locked Grating (05 53 13)		
			Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018			Steel, Pressure Locked Grating (05 53 13 00-0017)		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019	SF		3/4" x 1/8" Steel, Pressure Locked Grating.....	14.70	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.04	
			For 304 Stainless Steel, Add	23.29	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.64	
			For Crossbars At 2" On-Center, Add	1.34	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.82	
05 53 13 00-0020	SF		3/4" x 3/16" Steel, Pressure Locked Grating.....	17.88	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.56	
			For 304 Stainless Steel, Add	29.24	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.56	
			For Crossbars At 2" On-Center, Add	1.69	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.90	
05 53 13 00-0021	SF		1" x 1/8" Steel, Pressure Locked Grating.....	16.06	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.26	
			For 304 Stainless Steel, Add	25.84	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.03	
			For Crossbars At 2" On-Center, Add	1.49	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.85	
05 53 13 00-0022	SF		1" x 3/16" Steel, Pressure Locked Grating.....	21.52	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.16	
			For 304 Stainless Steel, Add	36.05	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 7/16" On-Center, Add	27.94	
			For Bearing Bars At 15/16" On-Center, Add	5.63	
			For Crossbars At 2" On-Center, Add	2.08	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.99	
05 53 13 00-0023	SF		1-1/4" x 1/8" Steel, Pressure Locked Grating.....	17.88	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.56	
			For 304 Stainless Steel, Add	29.24	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.56	
			For Crossbars At 2" On-Center, Add	1.69	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.90	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating.....	24.04	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.57	
For 304 Stainless Steel, Add	40.77	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.36	
For Crossbars At 2" On-Center, Add	2.35	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.05	
05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating.....	19.79	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.88	
For 304 Stainless Steel, Add	32.82	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.12	
For Crossbars At 2" On-Center, Add	1.89	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.95	
05 53 13 00-0026 SF 1-1/2" x 3/16" Steel, Pressure Locked Grating.....	27.19	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.01	
For 304 Stainless Steel, Add	45.73	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	35.44	
For Bearing Bars At 15/16" On-Center, Add	7.14	
For Crossbars At 2" On-Center, Add	2.64	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.45	
05 53 13 00-0027 SF 1-3/4" x 3/16" Steel, Pressure Locked Grating.....	29.86	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.45	
For 304 Stainless Steel, Add	50.72	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.92	
For Crossbars At 2" On-Center, Add	2.93	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.52	
05 53 13 00-0028 SF 2" x 3/16" Steel, Pressure Locked Grating.....	32.03	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.80	
For 304 Stainless Steel, Add	54.78	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	8.55	
For Crossbars At 2" On-Center, Add	3.16	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.57	
05 53 13 00-0029 SF 2-1/4" x 3/16" Steel, Pressure Locked Grating.....	34.12	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.14	
For 304 Stainless Steel, Add	58.69	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	9.16	
For Crossbars At 2" On-Center, Add	3.39	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.63	
05 53 13 00-0030 SF 2-1/2" x 3/16" Steel, Pressure Locked Grating.....	35.92	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.44	
For 304 Stainless Steel, Add	62.06	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	9.69	
For Crossbars At 2" On-Center, Add	3.58	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.67	
05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032 SF 3/4" x 1/8" Aluminum, Pressure Locked Grating.....	17.48	1.12
For Bearing Bars At 15/16" On-Center, Add	4.45	
For Crossbars At 2" On-Center, Add	1.64	
For Set In Place Without Bolting, Deduct	-1.89	
For Powder Coating, Add	2.28	
05 53 13 00-0033 SF 3/4" x 3/16" Aluminum, Pressure Locked Grating.....	23.72	1.12
For Bearing Bars At 15/16" On-Center, Add	6.27	
For Crossbars At 2" On-Center, Add	2.32	
For Set In Place Without Bolting, Deduct	-2.04	
For Powder Coating, Add	3.22	
05 53 13 00-0034 SF 1" x 1/8" Aluminum, Pressure Locked Grating.....	22.38	1.12
For Bearing Bars At 15/16" On-Center, Add	5.88	
For Crossbars At 2" On-Center, Add	2.17	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.01	
For Powder Coating, Add	3.02	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating.....	30.45	1.12
For Bearing Bars At 7/16" On-Center, Add	40.89	
For Bearing Bars At 15/16" On-Center, Add	8.23	
For Crossbars At 2" On-Center, Add	3.05	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.21	
For Powder Coating, Add	4.23	
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	25.93	1.12
For Bearing Bars At 15/16" On-Center, Add	6.91	
For Crossbars At 2" On-Center, Add	2.56	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.10	
For Powder Coating, Add	3.55	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	34.73	1.12
For Bearing Bars At 15/16" On-Center, Add	9.48	
For Crossbars At 2" On-Center, Add	3.51	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.32	
For Powder Coating, Add	4.87	
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	29.27	1.12
For Bearing Bars At 15/16" On-Center, Add	7.89	
For Crossbars At 2" On-Center, Add	2.92	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.18	
For Powder Coating, Add	4.05	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	39.14	1.12
For Bearing Bars At 7/16" On-Center, Add	53.49	
For Bearing Bars At 15/16" On-Center, Add	10.77	
For Crossbars At 2" On-Center, Add	3.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.43	
For Powder Coating, Add	5.53	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating.....	43.37	1.12
For Bearing Bars At 15/16" On-Center, Add	12.01	
For Crossbars At 2" On-Center, Add	4.44	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.54	
For Powder Coating, Add	6.17	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating.....	48.38	1.12
For Bearing Bars At 15/16" On-Center, Add	13.47	
For Crossbars At 2" On-Center, Add	4.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.66	
For Powder Coating, Add	6.92	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	52.30	1.12
For Bearing Bars At 15/16" On-Center, Add	14.61	
For Crossbars At 2" On-Center, Add	5.41	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.76	
For Powder Coating, Add	7.51	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	56.99	1.12
For Bearing Bars At 15/16" On-Center, Add	15.98	
For Crossbars At 2" On-Center, Add	5.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.88	
For Powder Coating, Add	8.21	
05 53 13 00-0044 Swage Locked Grating (05 53 13)		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045 Steel, Swage Locked Grating (05 53 13 00-0044)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating.....	23.46	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.95	
For 304 Stainless Steel, Add	35.17	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	13.57	
For Crossbars At 2" On-Center, Add	1.70	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.04	
05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating.....	26.07	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.19	
For 304 Stainless Steel, Add	39.49	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	15.24	
For Crossbars At 2" On-Center, Add	1.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.10	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 53 13 00-0048	SF	1-1/2" x 3/16" Steel, Swaged Grating	28.62	1.38
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	2.38	
		For 304 Stainless Steel, Add	42.89	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	16.56	
		For Crossbars At 2" On-Center, Add	2.07	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.49	
05 53 13 00-0049	SF	1-3/4" x 3/16" Steel, Swaged Grating	32.63	1.38
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	2.75	
		For 304 Stainless Steel, Add	49.54	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	19.12	
		For Crossbars At 2" On-Center, Add	2.39	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.59	
05 53 13 00-0050	SF	2" x 3/16" Steel, Swaged Grating	36.66	1.38
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	3.12	
		For 304 Stainless Steel, Add	56.22	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	21.70	
		For Crossbars At 2" On-Center, Add	2.71	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.69	
05 53 13 00-0051	SF	2-1/4" x 3/16" Steel, Swaged Grating	40.67	1.38
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	3.49	
		For 304 Stainless Steel, Add	62.87	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	24.27	
		For Crossbars At 2" On-Center, Add	3.03	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.79	
05 53 13 00-0052	SF	2-1/2" x 3/16" Steel, Swaged Grating	44.69	1.38
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	3.86	
		For 304 Stainless Steel, Add	69.54	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	26.84	
		For Crossbars At 2" On-Center, Add	3.36	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.89	
05 53 13 00-0053		Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)		
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054	SF	1" x 1/8" Aluminum, Swaged Grating	20.66	1.12
		For Bearing Bars At 15/16" On-Center, Add	11.78	
		For Crossbars At 2" On-Center, Add	1.47	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-1.97	
		For Powder Coating, Add	2.76	
05 53 13 00-0055	SF	1" x 3/16" Aluminum, Swaged Grating	26.82	1.12
		For Bearing Bars At 15/16" On-Center, Add	15.72	
		For Crossbars At 2" On-Center, Add	1.97	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.12	
		For Powder Coating, Add	3.69	
05 53 13 00-0056	SF	1-1/4" x 1/8" Aluminum, Swaged Grating	23.43	1.12
		For Bearing Bars At 15/16" On-Center, Add	13.56	
		For Crossbars At 2" On-Center, Add	1.69	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.04	
		For Powder Coating, Add	3.18	
05 53 13 00-0057	SF	1-1/4" x 3/16" Aluminum, Swaged Grating	30.96	1.12
		For Bearing Bars At 15/16" On-Center, Add	18.37	
		For Crossbars At 2" On-Center, Add	2.30	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.23	
		For Powder Coating, Add	4.31	
05 53 13 00-0058	SF	1-1/2" x 1/8" Aluminum, Swaged Grating	26.71	1.12
		For Bearing Bars At 15/16" On-Center, Add	15.65	
		For Crossbars At 2" On-Center, Add	1.96	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.12	
		For Powder Coating, Add	3.67	
05 53 13 00-0059	SF	1-1/2" x 3/16" Aluminum, Swaged Grating	35.40	1.12
		For Bearing Bars At 15/16" On-Center, Add	21.22	
		For Crossbars At 2" On-Center, Add	2.65	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.34	
		For Powder Coating, Add	4.97	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....	40.52	1.12
For Bearing Bars At 15/16" On-Center, Add	24.49	
For Crossbars At 2" On-Center, Add	3.06	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.46	
For Powder Coating, Add	5.74	
05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....	45.60	1.12
For Bearing Bars At 15/16" On-Center, Add	27.74	
For Crossbars At 2" On-Center, Add	3.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.59	
For Powder Coating, Add	6.50	
05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....	50.72	1.12
For Bearing Bars At 15/16" On-Center, Add	31.02	
For Crossbars At 2" On-Center, Add	3.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.72	
For Powder Coating, Add	7.27	
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating.....	55.80	1.12
For Bearing Bars At 15/16" On-Center, Add	34.27	
For Crossbars At 2" On-Center, Add	4.28	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.85	
For Powder Coating, Add	8.03	
05 53 13 00-0064 Riveted Grating (05 53 13)		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating (05 53 13 00-0064)		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	43.74	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.99	
For 304 Stainless Steel, Add	35.64	
For 5/8" Clear Opening, Add	14.31	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.54	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	51.33	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.36	
For 304 Stainless Steel, Add	42.16	
For 5/8" Clear Opening, Add	16.93	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.73	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	47.23	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.16	
For 304 Stainless Steel, Add	38.64	
For 5/8" Clear Opening, Add	15.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.63	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	54.23	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.50	
For 304 Stainless Steel, Add	44.65	
For 5/8" Clear Opening, Add	17.93	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.81	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	50.13	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.30	
For 304 Stainless Steel, Add	41.13	
For 5/8" Clear Opening, Add	16.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.70	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	59.61	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.75	
For 304 Stainless Steel, Add	49.27	
For 5/8" Clear Opening, Add	19.79	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.94	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	53.42	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.43	
For 304 Stainless Steel, Add	43.53	
For 5/8" Clear Opening, Add	17.48	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.11	



	Metals	05	
	Metal Fabrications	05 50	
	Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating.....	63.56	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.92	
For 304 Stainless Steel, Add	52.24	
For 5/8" Clear Opening, Add	20.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.36	
05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating.....	68.73	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.17	
For 304 Stainless Steel, Add	56.68	
For 5/8" Clear Opening, Add	22.76	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.49	
05 53 13 00-0075 SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating.....	80.28	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.72	
For 304 Stainless Steel, Add	66.60	
For 5/8" Clear Opening, Add	26.75	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.78	
05 53 13 00-0076 SF 2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating.....	84.31	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.91	
For 304 Stainless Steel, Add	70.06	
For 5/8" Clear Opening, Add	28.14	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.88	
05 53 13 00-0077 SF 2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating.....	87.89	1.38
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.09	
For 304 Stainless Steel, Add	73.14	
For 5/8" Clear Opening, Add	29.37	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.97	
05 53 13 00-0078 Aluminum, Riveted Grating (05 53 13 00-0064)		
Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079 SF 3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating.....	44.28	1.12
For 5/8" Clear Opening, Add	14.50	
For Powder Coating, Add	6.30	
For Set In Place Without Bolting, Deduct	-2.56	
05 53 13 00-0080 SF 3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating.....	52.60	1.12
For 5/8" Clear Opening, Add	17.37	
For Powder Coating, Add	7.55	
For Set In Place Without Bolting, Deduct	-2.77	
05 53 13 00-0081 SF 1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating.....	48.73	1.12
For 5/8" Clear Opening, Add	16.04	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	6.97	
For Set In Place Without Bolting, Deduct	-2.67	
05 53 13 00-0082 SF 1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating.....	56.85	1.12
For 5/8" Clear Opening, Add	18.84	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	8.19	
For Set In Place Without Bolting, Deduct	-2.87	
05 53 13 00-0083 SF 1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating.....	54.67	1.12
For 5/8" Clear Opening, Add	18.08	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	7.86	
For Set In Place Without Bolting, Deduct	-2.82	
05 53 13 00-0084 SF 1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating.....	65.95	1.12
For 5/8" Clear Opening, Add	21.98	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	9.56	
For Set In Place Without Bolting, Deduct	-3.10	
05 53 13 00-0085 SF 1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating.....	58.74	1.12
For 5/8" Clear Opening, Add	19.49	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	8.47	
For Set In Place Without Bolting, Deduct	-2.92	
05 53 13 00-0086 SF 1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating.....	73.05	1.12
For 5/8" Clear Opening, Add	24.43	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	10.62	
For Set In Place Without Bolting, Deduct	-3.28	
05 53 13 00-0087 SF 1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating.....	80.56	1.12
For 5/8" Clear Opening, Add	27.02	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	11.75	
For Set In Place Without Bolting, Deduct	-3.47	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0088 SF 2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating.....	95.98	1.12
For 5/8" Clear Opening, Add	32.34	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	14.06	
For Set In Place Without Bolting, Deduct	-3.85	
05 53 13 00-0089 SF 2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating.....	104.73	1.12
For 5/8" Clear Opening, Add	35.36	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	15.37	
For Set In Place Without Bolting, Deduct	-4.07	
05 53 13 00-0090 SF 2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating.....	116.46	1.12
For 5/8" Clear Opening, Add	39.40	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	17.13	
For Set In Place Without Bolting, Deduct	-4.36	

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

05 56 00 00-0002 LB Up To 150 LB, Miscellaneous Castings, Light Section.....	4.60	0.50
05 56 00 00-0003 LB >150 LB, Miscellaneous Castings, Heavy Section.....	7.76	0.41

END OF SECTION 05



Wood, Plastics, and Composites		06
Common Work Results for Wood, Plastics, and Composites		06 05
Wood Treatment		06 05 73

06

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

06 Wood, Plastics, and Composites

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

06 05 73 Wood Treatment (06 05)

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

06 05 73 13-0001	Preservative Treated Lumber (06 05 73 13)	
06 05 73 13-0002	Fire Retardant Treatment (FRT) For Lumber (06 05 73 13-0001)	
06 05 73 13-0003	MBF Fire Retardant Treatment (FRT) For Lumber.....	622.77

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

06 05 73 33-0001	Preservative Treatment For Marine And Fresh Water Uses (06 05 73 33)	
06 05 73 33-0002	MBF Preservative Treatment For Marine And Fresh Water Lumber	141.74

06 10 Rough Carpentry (06)

06 11 Wood Framing (06 10)

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

06 11 16 Mechanically Graded Lumber (06 11)

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

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

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

06 11 16 00-0003	LF	2" x 6" Wood Floor Joist.....	2.40	1.18
06 11 16 00-0004	LF	2" x 8" Wood Floor Joist.....	3.01	1.30
06 11 16 00-0005	LF	2" x 10" Wood Floor Joist.....	3.84	1.66
06 11 16 00-0006	LF	2" x 12" Wood Floor Joist.....	4.56	1.89
06 11 16 00-0007	LF	2" x 14" Wood Floor Joist.....	5.02	2.00
06 11 16 00-0008	LF	2" x 6" Pressure Treated Wood Floor Joist.....	2.52	1.18
06 11 16 00-0009	LF	2" x 8" Pressure Treated Wood Floor Joist.....	3.16	1.30
06 11 16 00-0010	LF	2" x 10" Pressure Treated Wood Floor Joist.....	3.84	1.66
06 11 16 00-0011	LF	2" x 12" Pressure Treated Wood Floor Joist.....	4.73	1.89

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

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

06 11 16 00-0013	LF	2" x 4" Wood Purlin.....	1.93	0.71
06 11 16 00-0014	LF	2" x 6" Wood Purlin.....	2.42	0.78
06 11 16 00-0015	LF	2" x 8" Wood Purlin.....	2.95	0.86
06 11 16 00-0016	LF	2" x 10" Wood Purlin.....	3.61	0.94
06 11 16 00-0017	LF	2" x 4" Pressure Treated Wood Purlin	2.00	0.71
06 11 16 00-0018	LF	2" x 6" Pressure Treated Wood Purlin	2.54	0.78
06 11 16 00-0019	LF	2" x 8" Pressure Treated Wood Purlin	3.10	0.86
06 11 16 00-0020	LF	2" x 10" Pressure Treated Wood Purlin	3.61	0.94

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

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

06 11 16 00-0023	LF	2" x 6" Redwood Rafter Or Joist.....	3.68	1.18
06 11 16 00-0024	LF	2" x 8" Redwood Rafter Or Joist.....	4.49	1.30
06 11 16 00-0025	LF	2" x 10" Redwood Rafter Or Joist.....	5.60	1.66
06 11 16 00-0026	LF	2" x 12" Redwood Rafter Or Joist.....	6.79	1.89

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

06 11 16 00-0028	LF	2" x 6" Cedar Rafter Or Joist.....	2.41	1.18
06 11 16 00-0029	LF	2" x 8" Cedar Rafter Or Joist.....	2.71	1.30
06 11 16 00-0030	LF	2" x 10" Cedar Rafter Or Joist.....	3.11	1.66
06 11 16 00-0031	LF	2" x 12" Cedar Rafter Or Joist.....	3.53	1.89

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

06 11 16 00-0033	LF	2" x 6" Oak Rafter Or Joist.....	2.93	1.18
06 11 16 00-0034	LF	2" x 8" Oak Rafter Or Joist.....	4.03	1.30
06 11 16 00-0035	LF	2" x 10" Oak Rafter Or Joist.....	5.23	1.66
06 11 16 00-0036	LF	2" x 12" Oak Rafter Or Joist.....	6.44	1.89

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

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

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
06 11 16 00-0038	Partition Framing (06 11 16 00-0037)				
06 11 16 00-0039	LF 2" x 4" Wood Stud Framing, For Partition Walls.....	1.87		0.94	
06 11 16 00-0040	LF 2" x 6" Wood Stud Framing, For Partition Walls.....	2.28		1.01	
06 11 16 00-0041	LF 2" x 8" Wood Stud Framing, For Partition Walls.....	2.71		1.06	
06 11 16 00-0042	LF 2" x 4" Pressure Treated Wood Stud Framing, For Partition Walls.....	1.94		0.94	
06 11 16 00-0043	LF 2" x 6" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.40		1.01	
06 11 16 00-0044	LF 2" x 8" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.86		1.06	
06 11 16 00-0045	Sills And Plates (06 11 16)				
06 11 16 00-0046	Sills (06 11 16 00-0045)				
Note: A horizontal member which rests on and is attached to the foundation.					
06 11 16 00-0047	LF 2" x 4" Wood Sill.....	3.17		1.77	
06 11 16 00-0048	LF 2" x 6" Wood Sill.....	3.81		2.00	
06 11 16 00-0049	LF 2" x 8" Wood Sill.....	4.57		2.24	
06 11 16 00-0050	LF 2" x 4" Pressure Treated Wood Sill.....	3.24		1.77	
06 11 16 00-0051	LF 2" x 6" Pressure Treated Wood Sill.....	3.93		2.00	
06 11 16 00-0052	LF 2" x 8" Pressure Treated Wood Sill.....	4.72		2.24	
06 11 16 00-0053	Plates (06 11 16 00-0045)				
Note: A horizontal member connecting and terminating studs, posts, joists, rafters, etc. such as the top and bottom plate on a stud framed partition wall.					
06 11 16 00-0054	LF 2" x 4" Wood Plate.....	3.17		1.77	
06 11 16 00-0055	LF 2" x 6" Wood Plate.....	3.81		2.00	
06 11 16 00-0056	LF 2" x 8" Wood Plate.....	4.54		2.24	
06 11 16 00-0057	LF 2" x 4" Pressure Treated Wood Plate.....	3.24		1.77	
06 11 16 00-0058	LF 2" x 6" Pressure Treated Wood Plate.....	3.93		2.00	
06 11 16 00-0059	LF 2" x 8" Pressure Treated Wood Plate.....	4.69		2.24	
06 11 16 00-0060	Sills And Plates From Redwood (06 11 16 00-0045)				
06 11 16 00-0061	Construction Grade/Rough (06 11 16 00-0060)				
06 11 16 00-0062	LF 2" x 6" Redwood, Construction Grade/Rough.....	5.56		2.00	
06 11 16 00-0063	LF 2" x 8" Redwood, Construction Grade/Rough.....	7.33		2.24	
06 11 16 00-0064	LF 2" x 10" Redwood, Construction Grade/Rough.....	8.90		2.48	
06 11 16 00-0065	LF 2" x 12" Redwood, Construction Grade/Rough.....	10.75		2.71	
06 11 16 00-0066	Con Heart/Smooth (06 11 16 00-0060)				
06 11 16 00-0067	LF 2" x 6" Redwood, Con Heart/Smooth.....	6.68		2.00	
06 11 16 00-0068	LF 2" x 8" Redwood, Con Heart/Smooth.....	9.00		2.24	
06 11 16 00-0069	LF 2" x 10" Redwood, Con Heart/Smooth.....	11.74		2.48	
06 11 16 00-0070	LF 2" x 12" Redwood, Con Heart/Smooth.....	14.12		2.71	
06 11 16 00-0071	Posts And Girts (06 11 16)				
06 11 16 00-0072	Posts (06 11 16 00-0071)				
Note: A vertical, upright framing member.					
06 11 16 00-0073	LF 4" x 4" Wood Post.....	4.43		2.24	
06 11 16 00-0074	LF 4" x 5" Wood Post.....	5.06		2.59	
06 11 16 00-0075	LF 4" x 6" Wood Post.....	5.57		2.83	
06 11 16 00-0076	LF 6" x 6" Wood Post.....	6.19		3.07	
06 11 16 00-0077	LF 8" x 8" Wood Post.....	6.82		3.18	
06 11 16 00-0078	LF 10" x 10" Wood Post.....	7.43		3.66	
06 11 16 00-0079	LF 4" x 4" Pressure Treated Wood Post.....	4.90		2.24	
06 11 16 00-0080	LF 3" x 6" Pressure Treated Wood Post.....	5.52		2.83	
06 11 16 00-0081	LF 4" x 6" Pressure Treated Wood Post.....	6.30		2.83	
06 11 16 00-0082	LF 6" x 6" Pressure Treated Wood Post.....	7.77		3.07	
06 11 16 00-0083	Girts (06 11 16 00-0071)				
Note: A horizontal member at intermediate level between columns, studs, or posts.					
06 11 16 00-0084	LF 2" x 4" Wood Girt.....	2.22		0.85	
06 11 16 00-0085	LF 2" x 6" Wood Girt.....	2.73		0.93	
06 11 16 00-0086	LF 2" x 8" Wood Girt.....	3.29		1.03	
06 11 16 00-0087	LF 2" x 10" Wood Girt.....	3.98		1.13	
06 11 16 00-0088	LF 4" x 4" Wood Girt.....	4.31		1.70	
06 11 16 00-0089	LF 4" x 5" Wood Girt.....	4.94		1.91	
06 11 16 00-0090	LF 4" x 6" Wood Girt.....	5.55		2.12	
06 11 16 00-0091	LF 6" x 6" Wood Girt.....	6.17		2.34	
06 11 16 00-0092	LF 8" x 8" Wood Girt.....	6.81		2.55	
06 11 16 00-0093	LF 10" x 10" Wood Girt.....	7.42		2.77	
06 11 16 00-0094	LF 2" x 4" Pressure Treated Wood Girt.....	2.29		0.85	
06 11 16 00-0095	LF 2" x 6" Pressure Treated Wood Girt.....	2.85		0.93	
06 11 16 00-0096	LF 2" x 8" Pressure Treated Wood Girt.....	3.44		1.03	
06 11 16 00-0097	LF 2" x 10" Pressure Treated Wood Girt.....	3.98		1.13	
06 11 16 00-0098	LF 4" x 4" Pressure Treated Wood Girt.....	4.90		1.70	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0099 LF 3" x 6" Pressure Treated Wood Girt.....	5.52	2.12
06 11 16 00-0100 LF 4" x 6" Pressure Treated Wood Girt.....	6.30	2.12
06 11 16 00-0101 LF 6" x 6" Pressure Treated Wood Girt.....	7.77	2.34
06 11 16 00-0102 Construction Grade/Rough Redwood Posts (06 11 16 00-0071)		
06 11 16 00-0103 LF 4" x 4" Redwood, Construction Grade/Rough Post.....	8.45	2.24
For Smooth "Clear", Add	1.01	
06 11 16 00-0104 LF 4" x 5" Redwood, Construction Grade/Rough Post.....	10.15	2.59
For Smooth "Clear", Add	1.27	
06 11 16 00-0105 LF 4" x 6" Redwood, Construction Grade/Rough Post.....	11.85	2.83
For Smooth "Clear", Add	1.52	
06 11 16 00-0106 LF 4" x 8" Redwood, Construction Grade/Rough Post.....	14.57	2.91
For Smooth "Clear", Add	2.03	
06 11 16 00-0107 LF 4" x 10" Redwood, Construction Grade/Rough Post.....	17.39	3.10
For Smooth "Clear", Add	2.54	
06 11 16 00-0108 LF 6" x 6" Redwood, Construction Grade/Rough Post.....	16.09	3.07
For Smooth "Clear", Add	2.28	
06 11 16 00-0109 LF 6" x 8" Redwood, Construction Grade/Rough Post.....	20.08	3.18
For Smooth "Clear", Add	3.05	
06 11 16 00-0110 LF 6" x 10" Redwood, Construction Grade/Rough Post.....	24.01	2.99
For Smooth "Clear", Add	3.81	
06 11 16 00-0111 LF 8" x 8" Redwood, Construction Grade/Rough Post.....	25.41	3.18
For Smooth "Clear", Add	4.06	
06 11 16 00-0112 Stair Stringers (06 11 16)		
06 11 16 00-0113 LF 2" x 10" Wood Stair Stringer	8.76	4.71
06 11 16 00-0114 LF 2" x 12" Wood Stair Stringer	10.36	5.54
06 11 16 00-0115 LF 2" x 10" Pressure Treated Wood Stair Stringer.....	8.79	4.71
06 11 16 00-0116 LF 2" x 12" Pressure Treated Wood Stair Stringer.....	10.51	5.54
06 11 16 00-0117 Blocking (06 11 16)		
06 11 16 00-0118 Blocking (06 11 16 00-0117)		
06 11 16 00-0119 Blocking To Wood (06 11 16 00-0118)		
06 11 16 00-0120 LF 2" x 4" Pressure Treated Wood Blocking To Wood	6.52	2.83
06 11 16 00-0121 LF 2" x 6" Pressure Treated Wood Blocking To Wood	7.66	3.12
06 11 16 00-0122 LF 2" x 8" Pressure Treated Wood Blocking To Wood	8.70	3.42
06 11 16 00-0123 LF 4" x 4" Pressure Treated Wood Blocking To Wood	10.02	3.76
06 11 16 00-0124 LF 4" x 6" Pressure Treated Wood Blocking To Wood	10.83	4.14
06 11 16 00-0125 LF 2" x 4" Wood Blocking To Wood	6.18	2.83
06 11 16 00-0126 LF 2" x 6" Wood Blocking To Wood	7.10	3.12
06 11 16 00-0127 LF 2" x 8" Wood Blocking To Wood	8.10	3.42
06 11 16 00-0128 LF 4" x 4" Wood Blocking To Wood	8.59	3.76
06 11 16 00-0129 LF 4" x 6" Wood Blocking To Wood	9.63	4.14
06 11 16 00-0130 Blocking To Steel (06 11 16 00-0118)		
06 11 16 00-0131 LF 2" x 4" Pressure Treated Wood Blocking To Steel.....	7.45	3.26
06 11 16 00-0132 LF 2" x 6" Pressure Treated Wood Blocking To Steel.....	8.73	3.59
06 11 16 00-0133 LF 2" x 8" Pressure Treated Wood Blocking To Steel.....	9.91	3.94
06 11 16 00-0134 LF 2" x 4" Wood Blocking To Steel	7.08	3.26
06 11 16 00-0135 LF 2" x 6" Wood Blocking To Steel	8.12	3.59
06 11 16 00-0136 LF 2" x 8" Wood Blocking To Steel	9.24	3.94
06 11 16 00-0137 Blocking To Concrete (06 11 16 00-0118)		
06 11 16 00-0138 LF 2" x 4" Pressure Treated Wood Blocking To Concrete	7.45	3.26
06 11 16 00-0139 LF 2" x 6" Pressure Treated Wood Blocking To Concrete	8.73	3.59
06 11 16 00-0140 LF 2" x 8" Pressure Treated Wood Blocking To Concrete	9.91	3.94
06 11 16 00-0141 LF 2" x 4" Wood Blocking To Concrete	7.08	3.26
06 11 16 00-0142 LF 2" x 6" Wood Blocking To Concrete	8.12	3.59
06 11 16 00-0143 LF 2" x 8" Wood Blocking To Concrete	9.24	3.94

END OF SECTION 06

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



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

07 Thermal and Moisture Protection

07 10 Dampproofing and Waterproofing⁽⁰⁷⁾

07 18 Traffic Coatings^(07 10)

07 18 13 Pedestrian Traffic Coatings^(07 18)

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

Note: Gaco Western			
07 18 13 00-0002	SF	GACOCRETE A-17, Acrylic Elastomeric Coating	2.94
07 18 13 00-0003	SF	Silicone Enhanced A-30, Acrylic Elastomeric Coating	2.58
For >2,000, Deduct			-0.26
07 18 13 00-0004	SF	Quick Set A-31, Acrylic Elastomeric Coating	2.43
07 18 13 00-0005	SF	A-32, Acrylic Elastomeric Coating	2.67
For >2,000, Deduct			-0.29
07 18 13 00-0006	SF	Liquid Seam Tape A-3611, Acrylic Elastomeric Coating	2.76
For >2,000, Deduct			-0.32
07 18 13 00-0007	SF	A-38, Acrylic Elastomeric Coating	2.72
07 18 13 00-0008	SF	Acrylic Primer A-4121	2.01
07 18 13 00-0009	SF	Two Component Epoxy Emulsion Primer Filler E-5320	3.20
07 18 13 00-0010	SF	Two Component Epoxy Rust Inhibiting Primer E-5388	3.61
07 18 13 00-0011	SF	Two Component 100% Solids Primer E-5481	3.88
07 18 13 00-0012	SF	Hypalon Roof Coating H-25	3.46
07 18 13 00-0013	SF	Neoprene Adhesive N-1207	2.80
07 18 13 00-0014	SF	GACOSIL S-10 Silicone	3.04
For >2,000, Deduct			-0.42
07 18 13 00-0015	SF	GACOSIL S-20 Silicone	3.11
For >2,000, Deduct			-0.44
07 18 13 00-0016	SF	Urethane Primer/Sealer U-5677	2.13
07 18 13 00-0017	SF	Single Component Polyurethane Coating, Ure-Shield Aluminum U-6006	2.85
For >2,000, Deduct			-0.35
07 18 13 00-0018	SF	Two Component Polyurethane Coating U-62	4.23
For >2,000, Deduct			-0.62
07 18 13 00-0019	SF	Two Component Polyurethane Coating, Liquid Applied Polyurethane Rubber U-64	3.78
07 18 13 00-0020	SF	Two Component Polyurethane Coating U-66	4.18
07 18 13 00-0021	SF	Two Component Polyurethane Coating U-8730	3.93
07 18 13 00-0022	SF	Two Component Polyurethane Coating U-8782	3.88
07 18 13 00-0023	SF	Two Component Polyurethane Aliphatic Coating UA-60	4.67
07 18 13 00-0024	SF	Two Component Polyurethane Aliphatic Coating UA-7090	5.65
07 18 13 00-0025	SF	Two Component Polyurethane Base Coating UB-64	3.74
07 18 13 00-0026	SF	Two Component Polyurethane Base Coating UB-8380	3.69
07 18 13 00-0027	SF	Etching Detergent D-09	2.16
07 18 13 00-0028	LB	GacoShell Granules Additive To Coating	1.91
07 18 13 00-0029	LB	Quartz Granules Additive To Coating	1.73
07 18 13 00-0030	LF	4" Polyester Reinforcing Tape, 66-B	0.20
07 18 13 00-0031	LF	6" Polyester Reinforcing Tape, 66-B	0.24
07 18 13 00-0032	LF	4" Sontara Polyester Reinforcing Tape, 66-S	0.30
07 18 13 00-0033	LF	6" Sontara Polyester Reinforcing Tape, 66-S	0.40
07 18 13 00-0034	LF	2" Metal Roof Seam Sealing Tape, 66-MR	0.82
07 18 13 00-0035	LF	3" Metal Roof Seam Sealing Tape, 66-MR	1.26
07 18 13 00-0036	LF	4" Metal Roof Seam Sealing Tape, 66-MR	1.55
07 18 13 00-0037	LF	6" Metal Roof Seam Sealing Tape, 66-MR	2.21
07 18 13 00-0038	GAL	Polyurethane Coating Thinner T-5106	44.16
07 18 13 00-0039	GAL	Compliant Thinner T-5110	92.00
07 18 13 00-0040	GAL	Regular Thinner T-5112	25.76
07 18 13 00-0041	GAL	Polyurethane Coating Thinner T-5116	33.12
07 18 13 00-0042	GAL	Polyurethane Troweling Thinner T-5118	40.48
07 18 13 00-0043	GAL	Compliant Thinner T-5125	44.16
07 18 13 00-0044	GAL	Fast Polyurethane Coating Thinner T-5130	33.12
07 18 13 00-0045	GAL	Silicone And U-62 Polyurethane Coating Thinner T-5135	33.12

07 18 16 Vehicular Traffic Coatings^(07 18)

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

See CSI section 03 01 30 71-0024 for crack repairs, 32 17 23 00-0000 for pavement markings.			
07 18 16 00-0002	SF	Grinding Of Existing Concrete Floor Prior To Installation Of Deck Coating	1.06
07 18 16 00-0003	SF	Shot Blasting Concrete Surface For Vehicular Traffic Coating	2.12

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

Note: Excludes surface preparation, deck crack repair, joint sealants or pavement markings. See CSI section 03 01 30 71-0024 for crack repairs, 07 18 16 00-0001 for surface preparation, 32 17 23 00-0000 for pavement markings.			
07 18 16 00-0005	SF	23 Mil Thick, Traffic Coating, Two-Component, Elastomeric Polyurethane Waterproofing, Concrete Coating With Primer (Sika Sikalastic® 720)	3.32
Note: Excludes crack repair or caulking.			

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

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST
07 18 16 00-0006	SF	12 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL).....	2.05			
		Note: Excludes crack repair or caulking.				
07 18 16 00-0007	SF	14 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL).....	2.16			
		Note: Excludes crack repair or caulking.				
07 18 16 00-0008	SF	16 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL).....	2.29			
		Note: Excludes crack repair or caulking.				
07 18 16 00-0009	SF	18 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL).....	2.41			
		Note: Excludes crack repair or caulking.				
07 18 16 00-0010	SF	14 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured)	2.30			
		Note: Excludes crack repair or caulking.				
07 18 16 00-0011	SF	16 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured)	2.49			
		Note: Excludes crack repair or caulking.				
07 18 16 00-0012	SF	18 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured)	2.69			
		Note: Excludes crack repair or caulking.				

END OF SECTION 07



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

09 Finishes

09 01 Maintenance of Finishes⁽⁰⁹⁾

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

09 01 90 52 Maintenance Repainting^(09 01 90)

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

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

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

09 01 90 52-0003	SF	Trisodium Phosphate (TSP), Clean Concrete Or Masonry Surfaces, Surface Preparation	0.52
		For Up To 100, Add	0.38
		For >100 To 250, Add	0.18
		For >250 To 500, Add	0.08
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.05
		For >15,000 To 30,000, Deduct	-0.08
		For >30,000, Deduct	-0.10
09 01 90 52-0004	SF	Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.52
		For Up To 100, Add	0.88
		For >100 To 250, Add	0.22
		For >250 To 500, Add	0.11
		For >5,000 To 10,000, Deduct	-0.02
		For >10,000 To 15,000, Deduct	-0.05
		For >15,000 To 30,000, Deduct	-0.08
		For >30,000, Deduct	-0.10
09 01 90 52-0005	SF	Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation	0.80
		For Up To 100, Add	1.32
		For >100 To 250, Add	0.33
		For >250 To 500, Add	0.17
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.07
		For >15,000 To 30,000, Deduct	-0.12
		For >30,000, Deduct	-0.15
09 01 90 52-0006	SF	Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation	0.70
		For Up To 100, Add	1.40
		For >100 To 250, Add	0.35
		For >250 To 500, Add	0.18
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.07
		For >15,000 To 30,000, Deduct	-0.11
		For >30,000, Deduct	-0.14
09 01 90 52-0007	SF	Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.73
		For Up To 100, Add	1.22
		For >100 To 250, Add	0.31
		For >250 To 500, Add	0.15
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.07
		For >15,000 To 30,000, Deduct	-0.11
		For >30,000, Deduct	-0.14
09 01 90 52-0008	SF	Up To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation	0.47
		For Up To 100, Add	0.72
		For >100 To 250, Add	0.18
		For >250 To 500, Add	0.09
		For >5,000 To 10,000, Deduct	-0.02
		For >10,000 To 15,000, Deduct	-0.04
		For >15,000 To 30,000, Deduct	-0.07
		For >30,000, Deduct	-0.09
09 01 90 52-0009	SF	10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.32
		For Up To 100, Add	2.32
		For >100 To 250, Add	0.58
		For >250 To 500, Add	0.29
		For >5,000 To 10,000, Deduct	-0.06
		For >10,000 To 15,000, Deduct	-0.13
		For >15,000 To 30,000, Deduct	-0.19
		For >30,000, Deduct	-0.26
09 01 90 52-0010	SF	30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	2.18
		For Up To 100, Add	4.04
		For >100 To 250, Add	1.01
		For >250 To 500, Add	0.51
		For >5,000 To 10,000, Deduct	-0.11
		For >10,000 To 15,000, Deduct	-0.21
		For >15,000 To 30,000, Deduct	-0.32
		For >30,000, Deduct	-0.43

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0011	SF		Sand Blasting, Concrete And Masonry Surfaces, Surface Preparation 3.26 Note: 3 lbs of sand per SF For 4.5 lbs Of Sand per SF, Where Multiple Pass Is Required, Add 1.90 For 6 lbs Of Sand per SF, Where Multiple Pass Is Required, Add 3.93 For 9 lbs Of Sand per SF, Where Multiple Pass Is Required, Add 6.52 For Up To 100, Add 5.38 For >100 To 250, Add 1.35 For >250 To 500, Add 0.67 For >5,000 To 10,000, Deduct -0.15 For >10,000 To 15,000, Deduct -0.30 For >15,000 To 30,000, Deduct -0.47 For >30,000, Deduct -0.62		
09 01 90 52-0012			Metal Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0013	SF		Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation 0.50 For Up To 100, Add 0.36 For >100 To 250, Add 0.17 For >250 To 500, Add 0.07 For >5,000 To 10,000, Deduct -0.02 For >10,000 To 15,000, Deduct -0.05 For >15,000 To 30,000, Deduct -0.07 For >30,000, Deduct -0.10		
09 01 90 52-0014	SF		Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation 0.80 For Up To 100, Add 0.50 For >100 To 250, Add 0.23 For >250 To 500, Add 0.10 For >5,000 To 10,000, Deduct -0.04 For >10,000 To 15,000, Deduct -0.07 For >15,000 To 30,000, Deduct -0.12 For >30,000, Deduct -0.15		
09 01 90 52-0015	SF		Hand Scraping And Sanding, Metal Surfaces, Surface Preparation 0.70 For Up To 100, Add 0.53 For >100 To 250, Add 0.25 For >250 To 500, Add 0.11 For >5,000 To 10,000, Deduct -0.04 For >10,000 To 15,000, Deduct -0.07 For >15,000 To 30,000, Deduct -0.11 For >30,000, Deduct -0.14		
09 01 90 52-0016	SF		Up To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation 0.45 For Up To 100, Add 0.27 For >100 To 250, Add 0.13 For >250 To 500, Add 0.05 For >5,000 To 10,000, Deduct -0.02 For >10,000 To 15,000, Deduct -0.04 For >15,000 To 30,000, Deduct -0.06 For >30,000, Deduct -0.09		
09 01 90 52-0017	SF		Power Tool Cleaning, Metal Surfaces, Surface Preparation 1.26 For Up To 100, Add 0.95 For >100 To 250, Add 0.44 For >250 To 500, Add 0.19 For >5,000 To 10,000, Deduct -0.06 For >10,000 To 15,000, Deduct -0.13 For >15,000 To 30,000, Deduct -0.19 For >30,000, Deduct -0.25		
09 01 90 52-0018	SF		Steam Cleaning, Metal Surfaces, Surface Preparation 0.45 For Up To 100, Add 0.25 For >100 To 250, Add 0.12 For >250 To 500, Add 0.05 For >5,000 To 10,000, Deduct -0.02 For >10,000 To 15,000, Deduct -0.04 For >15,000 To 30,000, Deduct -0.06 For >30,000, Deduct -0.08		
09 01 90 52-0019	SF		Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation 0.99 For Up To 100, Add 0.62 For >100 To 250, Add 0.29 For >250 To 500, Add 0.12 For >5,000 To 10,000, Deduct -0.05 For >10,000 To 15,000, Deduct -0.09 For >15,000 To 30,000, Deduct -0.14 For >30,000, Deduct -0.19		
09 01 90 52-0020	SF		Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation 1.35 For Up To 100, Add 0.83 For >100 To 250, Add 0.39 For >250 To 500, Add 0.17 For >5,000 To 10,000, Deduct -0.06 For >10,000 To 15,000, Deduct -0.13 For >15,000 To 30,000, Deduct -0.20 For >30,000, Deduct -0.26		
09 01 90 52-0021	SF		Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation 1.97 For Up To 100, Add 1.23 For >100 To 250, Add 0.57 For >250 To 500, Add 0.25 For >5,000 To 10,000, Deduct -0.09 For >10,000 To 15,000, Deduct -0.18 For >15,000 To 30,000, Deduct -0.29 For >30,000, Deduct -0.38		



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

2

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0022 SF Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation	3.30	
For Up To 100, Add	2.06	
For >100 To 250, Add	0.96	
For >250 To 500, Add	0.41	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 15,000, Deduct	-0.31	
For >15,000 To 30,000, Deduct	-0.48	
For >30,000, Deduct	-0.63	
09 01 90 52-0023 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.51	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 15,000, Deduct	-0.23	
For >15,000 To 30,000, Deduct	-0.36	
For >30,000, Deduct	-0.48	
09 01 90 52-0024 SF Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.11	
For Up To 100, Add	1.90	
For >100 To 250, Add	0.89	
For >250 To 500, Add	0.38	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 15,000, Deduct	-0.29	
For >15,000 To 30,000, Deduct	-0.45	
For >30,000, Deduct	-0.59	
09 01 90 52-0025 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	4.03	
For Up To 100, Add	2.46	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.49	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 15,000, Deduct	-0.37	
For >15,000 To 30,000, Deduct	-0.58	
For >30,000, Deduct	-0.77	
09 01 90 52-0026 SF Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation	5.05	
For Up To 100, Add	3.08	
For >100 To 250, Add	1.44	
For >250 To 500, Add	0.62	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 15,000, Deduct	-0.47	
For >15,000 To 30,000, Deduct	-0.73	
For >30,000, Deduct	-0.96	
09 01 90 52-0027 Wood Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0028 SF Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening	1.54	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 15,000, Deduct	-0.15	
For >15,000 To 30,000, Deduct	-0.23	
For >30,000, Deduct	-0.30	
09 01 90 52-0029 SF Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation	0.47	
For Up To 100, Add	0.34	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.09	
09 01 90 52-0030 SF Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation	0.66	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.13	
09 01 90 52-0031 SF Hand Scrape Wood Surfaces, Surface Preparation	0.76	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.15	
09 01 90 52-0032 SF Steam Clean Wood Surfaces, Surface Preparation	0.71	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.14	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0033	SF		Up To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation.....	0.49	
			For Up To 100, Add	0.30	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.09	
09 01 90 52-0034	SF		Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation.....	0.92	
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.14	
			For >30,000, Deduct	-0.18	
09 01 90 52-0035	SF		Sanding Wood Trim Surfaces, Surface Preparation	1.25	
			For Up To 100, Add	0.89	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.12	
			For >15,000 To 30,000, Deduct	-0.19	
			For >30,000, Deduct	-0.25	
09 01 90 52-0036	SF		Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.82	
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	
09 01 90 52-0037	SF		Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.94	
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.14	
			For >30,000, Deduct	-0.18	
09 01 90 52-0038			Prep Work (09 01 90 52-0001)		
09 01 90 52-0039	SF		Citrus Strip, Single Applications.....	1.19	
			Note: For removal of dried latex and oil-based paint, varnish, lacquer, polyurethane and shellac from wood, metal, and masonry surfaces. Multiple coats may be necessary, refer to manufacturer recommendations		
09 01 90 52-0040			Corrosive Inhibitor Sealant For Concrete (09 01 90 52-0001)		
09 01 90 52-0041	SF		Corrosive Inhibitor Sealant For Concrete.....	0.77	
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
09 01 90 61			Repainting (09 01 90)		
09 01 90 61-0001			Touchup and "Spot" Painting Of Surfaces (09 01 90 61)		
			Note: For use on individual areas less than 10 SF.		
09 01 90 61-0002	SF		"Spot" Paint Surfaces, Per Coat.....	1.55	
09 01 90 91			Paint Restoration (09 01 90)		
09 01 90 91-0001			Paint Removal, Strip To Bare Wood (09 01 90 91)		
09 01 90 91-0002	SF		Flat Surfaces, Paint Removal, Strip To Bare Wood	8.18	
09 01 90 91-0003	SF		Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood	8.72	
09 90			Painting and Coating (09)		
			Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.		
09 91			Painting (09 90)		
09 91 33			Painting Materials (09 91)		
			Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.		
09 91 33 00-0001			Primer (09 91 33)		
09 91 33 00-0002	GAL		Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	38.05	
09 91 33 00-0003	GAL		Alkyd Wood Primer, Exterior, 400 SF Per Gallon	30.95	
09 91 33 00-0004	GAL		Prime Coat Oil Wood Primer, 310 SF Per Gallon	39.24	



		Finishes	09
		Painting and Coating	09 90
		Painting	09 91

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0005 GAL Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon.....	87.07	
09 91 33 00-0006 EA Cement Base Primer, 25 LB Sack.....	32.36	
09 91 33 00-0007 GAL Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon.....	49.89	
09 91 33 00-0008 GAL Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon.....	40.05	
09 91 33 00-0009 GAL Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon.....	30.95	
09 91 33 00-0010 GAL Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	28.11	
09 91 33 00-0011 GAL Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon.....	49.55	
09 91 33 00-0012 GAL Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon.....	41.26	
09 91 33 00-0013 GAL Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon.....	41.26	
09 91 33 00-0014 GAL Latex Wood Primer, Exterior, 300 SF Per Gallon.....	46.52	
09 91 33 00-0015 GAL Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon.....	30.34	
09 91 33 00-0016 GAL Red Alkyd Primer, 500 SF Per Gallon.....	65.12	
09 91 33 00-0017 GAL Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon.....	32.36	
09 91 33 00-0018 GAL Zinc Chromate Primer, 300 SF Per Gallon.....	25.89	
09 91 33 00-0019 GAL Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon.....	66.95	
09 91 33 00-0020 GAL Stain Killer, Alcohol Base.....	41.75	
09 91 33 00-0021 GAL Sealer, Primer Kilz, 400 SF Per Gallon.....	47.10	
09 91 33 00-0022 Paint (09 91 33)		
09 91 33 00-0023 GAL Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon.....	22.65	
09 91 33 00-0024 GAL Acrylic Urethane Sealer.....	112.32	
09 91 33 00-0025 GAL Asphalt-Fiber Roof And Foundation Coating, Solvent Type.....	12.14	
Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.		
09 91 33 00-0026 GAL Concrete Enamel Epoxy, 350 SF Per Gallon.....	70.19	
09 91 33 00-0027 GAL Concrete Acrylic Sealer, 400 SF Per Gallon.....	36.81	
09 91 33 00-0028 GAL Tar Emulsion, Driveway Coating, 120 SF Per Gallon.....	12.14	
09 91 33 00-0029 GAL Acrylic Latex, Driveway Coating, 250 SF Per Gallon.....	18.41	
09 91 33 00-0030 GAL Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon.....	37.22	
09 91 33 00-0031 GAL Exterior, Oil Base, Gloss, 400 SF Per Gallon.....	49.55	
09 91 33 00-0032 GAL Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon.....	40.45	
09 91 33 00-0033 GAL Exterior, Flat, Oil Base.....	37.08	
09 91 33 00-0034 GAL Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	35.19	
09 91 33 00-0035 GAL Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon.....	41.46	
09 91 33 00-0036 GAL Exterior, Latex Flat Paint, 300 SF Per Gallon.....	36.81	
09 91 33 00-0037 GAL Exterior, Water Base, Latex Gloss Enamel.....	52.40	
09 91 33 00-0038 GAL Cold Galvanizing Paint.....	285.04	
09 91 33 00-0039 GAL High Heat Paint.....	92.20	
09 91 33 00-0040 GAL Heat Resistant Paint.....	61.46	
09 91 33 00-0041 GAL Zinc Chromate Paint.....	55.61	
09 91 33 00-0042 QT Anti-Rust Enamel, 500 SF Per Quart.....	21.95	
09 91 33 00-0043 GAL Rust Inhibitor, Ferrous Metal.....	61.46	
09 91 33 00-0044 GAL Masonry Waterproofing, 100 SF Per Gallon.....	36.81	
09 91 33 00-0045 GAL Alkyd Latex, Black.....	41.46	
09 91 33 00-0046 GAL Alkyd Latex, White.....	41.46	
09 91 33 00-0047 GAL Alkyd Latex, Colors.....	50.00	
09 91 33 00-0048 QT Wrought Iron Paint, Black.....	56.10	
09 91 33 00-0049 GAL Vinyl Paint.....	61.89	
09 91 33 00-0050 GAL Silicone Alkyd.....	75.24	
09 91 33 00-0051 GAL 2 Component Solvent Based Acrylic Epoxy.....	76.46	
09 91 33 00-0052 GAL 2 Component Solvent Based Polyester Epoxy.....	95.87	
09 91 33 00-0053 GAL Chlorinated Rubber.....	70.39	
09 91 33 00-0054 GAL Polyamide Epoxy Sealer.....	72.82	
09 91 33 00-0055 GAL Coal Tar Epoxy.....	52.18	
09 91 33 00-0056 GAL Swimming Pool Enamel, 350 SF Per Gallon.....	65.13	
09 91 33 00-0057 GAL Swimming Pool Epoxy Or Urethane Base.....	84.95	
09 91 33 00-0058 GAL Swimming Pool Rubber Base.....	58.25	
09 91 33 00-0059 GAL Interior, Latex Flat Paint, 300 SF Per Gallon.....	37.01	
09 91 33 00-0060 GAL Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon.....	41.46	
09 91 33 00-0061 GAL Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon.....	75.85	
09 91 33 00-0062 GAL Interior, Ceiling White Latex Flat, 350 SF Per Gallon.....	25.69	
09 91 33 00-0063 GAL Linseed Oil.....	22.45	
09 91 33 00-0064 GAL Latex Floor Paint, 300 SF Per Gallon.....	36.81	
09 91 33 00-0065 GAL Acrylic Floor Paint, 400 SF Per Gallon.....	41.46	
09 91 33 00-0066 GAL Texture Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon.....	37.92	
09 91 33 00-0067 GAL Acoustic Spray-On Texture, Finish.....	30.47	
09 91 33 00-0068 Stain, Varnish (09 91 33)		
09 91 33 00-0069 GAL Thompson Water Sealer, 150 SF Per Gallon.....	21.04	
09 91 33 00-0070 GAL Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	39.24	
09 91 33 00-0071 GAL Redwood Oil Stain, 300 SF Per Gallon.....	34.99	
09 91 33 00-0072 GAL Varnish, Clear.....	39.36	
09 91 33 00-0073 GAL Penetrating Water-Repellent Stain.....	28.59	
09 91 33 00-0074 GAL Redwood Hue Or Clear Stain.....	25.55	
09 91 33 00-0075 GAL Polyurethane.....	44.85	
09 91 33 00-0076 GAL Lacquer, Semi-Gloss.....	36.92	
09 91 33 00-0077 GAL Shellac, Clear.....	48.44	
09 91 33 00-0078 GAL Acetone.....	15.98	
09 91 33 00-0079 GAL Paint Thinner.....	3.94	
09 91 33 00-0080 GAL Shellac Or Lacquer Thinner.....	16.18	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
09 91 33 00-0081	GAL	Turpentine.....		22.25	
09 91 33 00-0082	GAL	Wood Filler Paste.....		38.03	
09 91 33 00-0083	GAL	Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon		30.34	
09 91 33 00-0084	GAL	Waterbased Alkyd Urethane (Sherwin Williams B53W01153).....		83.64	
09 91 43		Surface Preparation (09 91)			
See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.					
09 93		Staining and Transparent Finishing (09 90)			
Note: Includes light sanding or screening between coats.					
09 93 13		Exterior Staining and Finishing (09 93)			
09 93 13 53		Exterior Finishing (09 93 13)			
09 93 13 53-0001		Stain Sealer (09 93 13 53)			
Note: Measured by surface area of wall or ceiling.					
09 93 13 53-0002	SF	Stain Sealer, Brush Work.....		1.02	
		For Ceiling Work, Add		0.14	
		For >5,000 To 10,000, Deduct		-0.03	
		For >10,000 To 20,000, Deduct		-0.06	
		For >20,000, Deduct		-0.08	
09 93 13 53-0003	SF	Stain Sealer, Brush/Roller Work		0.82	
		For Ceiling Work, Add		0.11	
		For >5,000 To 10,000, Deduct		-0.02	
		For >10,000 To 20,000, Deduct		-0.05	
		For >20,000, Deduct		-0.07	
09 93 13 53-0004	SF	Stain Sealer, Sprayed.....		0.31	
		For Ceiling Work, Add		0.03	
		For >5,000 To 10,000, Deduct		-0.01	
		For >10,000 To 20,000, Deduct		-0.02	
		For >20,000, Deduct		-0.03	
09 93 23		Interior Staining and Finishing (09 93)			
Note: VOC compliant in all regulated areas, review specifications for levels.					
09 93 23 13		Interior Staining (09 93 23)			
09 93 23 13-0001		Stain Wood Floor (09 93 23 13)			
09 93 23 13-0002	SF	Stain Or Varnish Wood Floor, 1 Coat Stain, Brush Work.....		0.59	
		For Up To 100, Add		0.36	
		For >100 To 250, Add		0.17	
		For >250 To 500, Add		0.08	
		For >4,000, Deduct		-0.03	
09 93 23 13-0003	SF	Stain Or Varnish Wood Floor, 1 Coat Stain, Brush/Roller Work		0.44	
		For Up To 100, Add		0.25	
		For >100 To 250, Add		0.12	
		For >250 To 500, Add		0.05	
		For >4,000, Deduct		-0.02	
09 93 23 53		Interior Finishing (09 93 23)			
09 93 23 53-0001		Concrete Finishes (09 93 23 53)			
09 93 23 53-0002	SF	Finish Concrete Floor, 1 Coat Polyurethane		0.89	
		For Up To 100, Add		0.54	
		For >100 To 250, Add		0.26	
		For >250 To 500, Add		0.11	
		For >4,000, Deduct		-0.04	
09 93 23 53-0003		Wood Floor Finishes (09 93 23 53)			
09 93 23 53-0004	SF	Refinish Wood Floor, 2 Coats Polyurethane		3.29	
		Note: Includes sanding existing floor.			
		For Up To 100, Add		2.34	
		For >100 To 250, Add		1.10	
		For >250 To 500, Add		0.47	
		For >4,000, Deduct		-0.16	
09 93 23 53-0005	SF	Polyurethane Wood Floor, 1 Coat Polyurethane, With Wool Applicator Or Brush Work.....		0.77	
		Note: Includes screening between coats.			
		For Up To 100, Add		0.51	
		For >100 To 250, Add		0.24	
		For >250 To 500, Add		0.10	
		For >4,000, Deduct		-0.04	
09 93 23 53-0006	SF	Refinish Wood Floor, 1 Coat Sealer And 2 Coats Polyurethane.....		3.72	
		Note: Includes sanding existing floor.			
		For Up To 100, Add		2.63	
		For >100 To 250, Add		1.23	
		For >250 To 500, Add		0.53	
		For >4,000, Deduct		-0.19	
09 96		High-Performance Coatings (09 90)			



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

09

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 56 Epoxy Coatings (09 96)		
09 96 56 00-0001 High Build Epoxy (09 96 56)		
09 96 56 00-0002 SF 50 Mil, High Build Epoxy	3.81	
09 96 56 00-0003 Laminated Epoxy With Fiberglass (09 96 56)		
09 96 56 00-0004 SF Laminated Epoxy With Fiberglass	6.10	
09 96 66 Aggregate Wall Coatings (09 96)		
09 96 66 00-0001 Troweled On (09 96 66)		
09 96 66 00-0002 SF Exposed Aggregate - 1/16" To 1/4" - Troweled On.....	4.53	
09 96 66 00-0003 SF Exposed Aggregate - 1/2" To 5/8" Troweled On.....	8.14	
09 96 66 00-0004 SF Exposed Aggregate - 1" Troweled On	12.11	
09 96 66 00-0005 Sprayed On (09 96 66)		
09 96 66 00-0006 SF Exposed Aggregate - 1/8" - Sprayed On.....	3.69	
09 97 Special Coatings (09 90)		
09 97 13 Steel Coatings (09 97)		
09 97 13 23 Exterior Steel Coatings (09 97 13)		
Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.		
09 97 13 23-0001 Surface Preparation For Structural Steel (09 97 13 23)		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0002 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
Note: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust and loose paint. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and coating are considered adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP11		
09 97 13 23-0003 SF Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.08	
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
09 97 13 23-0004 SF Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.96	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 97 13 23-0005 SF Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.95	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 97 13 23-0006 SF Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation	1.35	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 23-0007 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
Note: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE 3 or ISO 8501-1 Sa 2.		
09 97 13 23-0008 SF Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.77	
For Up To 100, Add	1.95	
For >100 To 250, Add	0.91	
For >250 To 500, Add	0.39	
09 97 13 23-0009 SF Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.41	
For Up To 100, Add	1.68	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
09 97 13 23-0010 SF Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.24	
For Up To 100, Add	1.55	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.32	
09 97 13 23-0011 SF Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation	3.46	
For Up To 100, Add	2.46	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.50	

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 97 13 23-0012	SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
	Note: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete Instructions, refer to Joint Surface Preparation Standard SSPC-SP5/NACE 1 or ISO 8501-1 Sa 3.		
09 97 13 23-0013	SF Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	5.38	
	For Up To 100, Add	3.80	
	For >100 To 250, Add	1.79	
	For >250 To 500, Add	0.77	
09 97 13 23-0014	SF Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	4.61	
	For Up To 100, Add	3.24	
	For >100 To 250, Add	1.52	
	For >250 To 500, Add	0.66	
09 97 13 23-0015	SF Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	4.24	
	For Up To 100, Add	2.96	
	For >100 To 250, Add	1.39	
	For >250 To 500, Add	0.60	
09 97 13 23-0016	SF Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation	6.47	
	For Up To 100, Add	4.62	
	For >100 To 250, Add	2.17	
	For >250 To 500, Add	0.93	
09 97 13 23-0017	SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
	Note: A Near-White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP10/NACE 2 or ISO 8501-1 Sa 2.5.		
09 97 13 23-0018	SF Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	4.00	
	For Up To 100, Add	2.81	
	For >100 To 250, Add	1.32	
	For >250 To 500, Add	0.57	
09 97 13 23-0019	SF Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.41	
	For Up To 100, Add	2.39	
	For >100 To 250, Add	1.12	
	For >250 To 500, Add	0.48	
09 97 13 23-0020	SF Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.23	
	For Up To 100, Add	2.25	
	For >100 To 250, Add	1.06	
	For >250 To 500, Add	0.46	
09 97 13 23-0021	SF Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation	4.70	
	For Up To 100, Add	3.36	
	For >100 To 250, Add	1.58	
	For >250 To 500, Add	0.68	
09 97 13 23-0022	Protective Coatings For Tanks And Structural Steel (09 97 13 23)		
	Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0023	1.5 Mil Prime Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0024	SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat	1.07	
	For Up To 100, Add	0.71	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.14	
09 97 13 23-0025	SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat	0.79	
	For Up To 100, Add	0.51	
	For >100 To 250, Add	0.24	
	For >250 To 500, Add	0.11	
09 97 13 23-0026	SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat	0.71	
	For Up To 100, Add	0.45	
	For >100 To 250, Add	0.22	
	For >250 To 500, Add	0.09	
09 97 13 23-0027	SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.28	
	For Up To 100, Add	0.87	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.18	
09 97 13 23-0028	SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat	1.55	
	For Up To 100, Add	1.07	
	For >100 To 250, Add	0.50	
	For >250 To 500, Add	0.22	
09 97 13 23-0029	SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat	1.15	
	For Up To 100, Add	0.78	
	For >100 To 250, Add	0.37	
	For >250 To 500, Add	0.16	



		Finishes	09
		Painting and Coating	09 90
		Special Coatings	09 97

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0030	SF		Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	1.02	
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
09 97 13 23-0031	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.87	
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
09 97 13 23-0032 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0022)					
09 97 13 23-0033	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.15	
			For Up To 100, Add	2.06	
			For >100 To 250, Add	0.98	
			For >250 To 500, Add	0.42	
09 97 13 23-0034	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.27	
			For Up To 100, Add	1.43	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.30	
09 97 13 23-0035	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.11	
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
09 97 13 23-0036	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.85	
			For Up To 100, Add	2.58	
			For >100 To 250, Add	1.22	
			For >250 To 500, Add	0.53	
09 97 13 23-0037	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.36	
			For Up To 100, Add	1.55	
			For >100 To 250, Add	0.73	
			For >250 To 500, Add	0.32	
09 97 13 23-0038	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.71	
			For Up To 100, Add	1.08	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
09 97 13 23-0039	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.58	
			For Up To 100, Add	0.98	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
09 97 13 23-0040	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.88	
			For Up To 100, Add	1.93	
			For >100 To 250, Add	0.91	
			For >250 To 500, Add	0.39	
09 97 13 23-0041	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	4.94	
			For Up To 100, Add	3.41	
			For >100 To 250, Add	1.60	
			For >250 To 500, Add	0.69	
09 97 13 23-0042	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.50	
			For Up To 100, Add	2.36	
			For >100 To 250, Add	1.11	
			For >250 To 500, Add	0.48	
09 97 13 23-0043	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.23	
			For Up To 100, Add	2.15	
			For >100 To 250, Add	1.02	
			For >250 To 500, Add	0.44	
09 97 13 23-0044	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	6.07	
			For Up To 100, Add	4.24	
			For >100 To 250, Add	1.99	
			For >250 To 500, Add	0.86	
09 97 13 23-0045	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.70	
			For Up To 100, Add	2.55	
			For >100 To 250, Add	1.20	
			For >250 To 500, Add	0.52	
09 97 13 23-0046	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.63	
			For Up To 100, Add	1.77	
			For >100 To 250, Add	0.84	
			For >250 To 500, Add	0.36	
09 97 13 23-0047	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.42	
			For Up To 100, Add	1.61	
			For >100 To 250, Add	0.76	
			For >250 To 500, Add	0.33	
09 97 13 23-0048	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	4.55	
			For Up To 100, Add	3.18	
			For >100 To 250, Add	1.50	
			For >250 To 500, Add	0.64	
09 97 13 23-0049 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0022)					
09 97 13 23-0050	SF		Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.43	
			For Up To 100, Add	1.61	
			For >100 To 250, Add	0.76	
			For >250 To 500, Add	0.33	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0051	SF		Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.99	
			For Up To 100, Add	1.29	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.27	
09 97 13 23-0052	SF		Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.82	
			For Up To 100, Add	1.17	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
09 97 13 23-0053	SF		Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.02	
			For Up To 100, Add	2.04	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.42	
09 97 13 23-0054	SF		Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.56	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
09 97 13 23-0055	SF		Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.28	
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
09 97 13 23-0056	SF		Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.16	
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
09 97 13 23-0057	SF		Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.94	
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
09 97 13 23-0058	SF		Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.53	
			For Up To 100, Add	2.43	
			For >100 To 250, Add	1.15	
			For >250 To 500, Add	0.49	
09 97 13 23-0059	SF		Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.86	
			For Up To 100, Add	1.95	
			For >100 To 250, Add	0.92	
			For >250 To 500, Add	0.40	
09 97 13 23-0060	SF		Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.61	
			For Up To 100, Add	1.76	
			For >100 To 250, Add	0.83	
			For >250 To 500, Add	0.36	
09 97 13 23-0061	SF		Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.42	
			For Up To 100, Add	3.09	
			For >100 To 250, Add	1.45	
			For >250 To 500, Add	0.63	
09 97 13 23-0062	SF		Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.25	
			For Up To 100, Add	1.55	
			For >100 To 250, Add	0.73	
			For >250 To 500, Add	0.31	
09 97 13 23-0063	SF		Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.83	
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.25	
09 97 13 23-0064	SF		Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.67	
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 97 13 23-0065	SF		Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.84	
			For Up To 100, Add	1.99	
			For >100 To 250, Add	0.93	
			For >250 To 500, Add	0.40	
09 97 13 23-0066			2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0067	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.00	
			For Up To 100, Add	2.39	
			For >100 To 250, Add	1.15	
			For >250 To 500, Add	0.50	
09 97 13 23-0068	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.91	
			For Up To 100, Add	1.63	
			For >100 To 250, Add	0.79	
			For >250 To 500, Add	0.34	
09 97 13 23-0069	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.58	
			For Up To 100, Add	1.38	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.30	
09 97 13 23-0070	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.53	
			For Up To 100, Add	2.77	
			For >100 To 250, Add	1.33	
			For >250 To 500, Add	0.58	
09 97 13 23-0071	SF		Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.80	
			For Up To 100, Add	1.67	
			For >100 To 250, Add	0.80	
			For >250 To 500, Add	0.35	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0072	SF		Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.04	
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
09 97 13 23-0073	SF		Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.80	
			For Up To 100, Add	0.97	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.21	
09 97 13 23-0074	SF		Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.17	
			For Up To 100, Add	1.94	
			For >100 To 250, Add	0.93	
			For >250 To 500, Add	0.40	
09 97 13 23-0075 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel					
			(09 97 13 23-0022)		
09 97 13 23-0076	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	4.28	
			For Up To 100, Add	2.44	
			For >100 To 250, Add	1.18	
			For >250 To 500, Add	0.51	
09 97 13 23-0077	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.16	
			For Up To 100, Add	1.67	
			For >100 To 250, Add	0.81	
			For >250 To 500, Add	0.36	
09 97 13 23-0078	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.83	
			For Up To 100, Add	1.42	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.31	
09 97 13 23-0079	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	4.83	
			For Up To 100, Add	2.82	
			For >100 To 250, Add	1.36	
			For >250 To 500, Add	0.59	
09 97 13 23-0080	SF		Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	3.51	
			For Up To 100, Add	2.00	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.42	
09 97 13 23-0081	SF		Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.60	
			For Up To 100, Add	1.37	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.29	
09 97 13 23-0082	SF		Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.32	
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
09 97 13 23-0083	SF		Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	3.96	
			For Up To 100, Add	2.31	
			For >100 To 250, Add	1.11	
			For >250 To 500, Add	0.48	
09 97 13 23-0084 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel					
			(09 97 13 23-0022)		
09 97 13 23-0085	SF		Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.95	
			For Up To 100, Add	5.22	
			For >100 To 250, Add	2.51	
			For >250 To 500, Add	1.09	
09 97 13 23-0086	SF		Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	6.79	
			For Up To 100, Add	3.76	
			For >100 To 250, Add	1.82	
			For >250 To 500, Add	0.80	
09 97 13 23-0087	SF		Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	6.54	
			For Up To 100, Add	3.57	
			For >100 To 250, Add	1.73	
			For >250 To 500, Add	0.76	
09 97 13 23-0088	SF		Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	10.41	
			For Up To 100, Add	6.29	
			For >100 To 250, Add	3.01	
			For >250 To 500, Add	1.31	
09 97 13 23-0089 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel					
			(09 97 13 23-0022)		
09 97 13 23-0090	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.72	
			For Up To 100, Add	2.56	
			For >100 To 250, Add	1.24	
			For >250 To 500, Add	0.54	
09 97 13 23-0091	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.70	
			For Up To 100, Add	1.80	
			For >100 To 250, Add	0.89	
			For >250 To 500, Add	0.39	
09 97 13 23-0092	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.54	
			For Up To 100, Add	1.68	
			For >100 To 250, Add	0.83	
			For >250 To 500, Add	0.37	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0093 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	5.35	
For Up To 100, Add	3.00	
For >100 To 250, Add	1.45	
For >250 To 500, Add	0.63	
09 97 13 23-0094 SF Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.72	
For Up To 100, Add	2.01	
For >100 To 250, Add	0.98	
For >250 To 500, Add	0.43	
09 97 13 23-0095 SF Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.93	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.31	
09 97 13 23-0096 SF Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.80	
For Up To 100, Add	1.33	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
09 97 13 23-0097 SF Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	4.23	
For Up To 100, Add	2.37	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.50	
09 97 13 23-0098 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0099 SF Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	4.01	
For Up To 100, Add	2.45	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.51	
09 97 13 23-0100 SF Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.25	
For Up To 100, Add	1.93	
For >100 To 250, Add	0.93	
For >250 To 500, Add	0.40	
09 97 13 23-0101 SF Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.00	
For Up To 100, Add	1.74	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.37	
09 97 13 23-0102 SF Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats.....	4.95	
For Up To 100, Add	3.14	
For >100 To 250, Add	1.49	
For >250 To 500, Add	0.65	
09 97 13 23-0103 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0104 SF Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.86	
For Up To 100, Add	2.48	
For >100 To 250, Add	1.18	
For >250 To 500, Add	0.51	
09 97 13 23-0105 SF Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.73	
For Up To 100, Add	1.65	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
09 97 13 23-0106 SF Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.32	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 23-0107 SF Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	4.41	
For Up To 100, Add	2.86	
For >100 To 250, Add	1.36	
For >250 To 500, Add	0.59	
09 97 13 23-0108 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0109 SF Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat.....	2.07	
For Up To 100, Add	1.11	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
09 97 13 23-0110 SF Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.50	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 23-0111 SF Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.42	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
09 97 13 23-0112 SF Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat	2.17	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0113			Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0022) Note: Installed over existing primer.		
09 97 13 23-0114	SF		Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.18	
			For Up To 100, Add	1.87	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	
09 97 13 23-0115	SF		Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.60	
			For Up To 100, Add	1.48	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.31	
09 97 13 23-0116	SF		Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.27	
			For Up To 100, Add	1.23	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
09 97 13 23-0117	SF		Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.71	
			For Up To 100, Add	2.25	
			For >100 To 250, Add	1.08	
			For >250 To 500, Add	0.47	
09 97 13 24			Steel Water Storage Tank Painting (09 97 13)		
09 97 13 24-0001			Surface Preparation For Tanks (09 97 13 24) Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002			SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003	SF		Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.60	
			For Up To 100, Add	1.20	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
09 97 13 24-0004	SF		Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.42	
			For Up To 100, Add	1.07	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.21	
09 97 13 24-0005	SF		Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	2.01	
			For Up To 100, Add	1.51	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.30	
09 97 13 24-0006			SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0007	SF		Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation.....	0.92	
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
09 97 13 24-0008	SF		Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation.....	0.74	
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
09 97 13 24-0009	SF		Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation.....	1.27	
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.18	
09 97 13 24-0010			SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0011	SF		Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation.....	2.24	
			For Up To 100, Add	1.55	
			For >100 To 250, Add	0.73	
			For >250 To 500, Add	0.32	
09 97 13 24-0012	SF		Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation.....	2.05	
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.29	
09 97 13 24-0013	SF		Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation.....	2.98	
			For Up To 100, Add	2.11	
			For >100 To 250, Add	0.99	
			For >250 To 500, Add	0.43	
09 97 13 24-0014			SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0015	SF		Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	4.04	
			For Up To 100, Add	2.82	
			For >100 To 250, Add	1.33	
			For >250 To 500, Add	0.57	
09 97 13 24-0016	SF		Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	3.85	
			For Up To 100, Add	2.68	
			For >100 To 250, Add	1.26	
			For >250 To 500, Add	0.54	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0017 SF Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation.....	5.61	
For Up To 100, Add	4.00	
For >100 To 250, Add	1.88	
For >250 To 500, Add	0.81	
09 97 13 24-0018 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0019 SF Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.22	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.22	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.70	
For Up To 100, Add	3.36	
For >100 To 250, Add	1.58	
For >250 To 500, Add	0.68	
09 97 13 24-0022 Protective Coatings For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023 1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0024 SF Spray Small Vessel/Tank 1.5 Mil Prime Coat	0.63	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
09 97 13 24-0025 SF Spray Large Vessel/Tank 1.5 Mil Prime Coat	0.51	
For Up To 100, Add	0.30	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
09 97 13 24-0026 SF Spray Tank Interior 1.5 Mil Prime Coat	1.21	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 97 13 24-0027 SF Brush Small Vessel/Tank 1.5 Mil Prime Coat	0.89	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 24-0028 SF Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.71	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
09 97 13 24-0029 SF Brush Tank Interior 1.5 Mil Prime Coat	1.78	
For Up To 100, Add	1.26	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.25	
09 97 13 24-0030 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0031 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.85	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 24-0032 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.43	
For Up To 100, Add	0.81	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 97 13 24-0033 SF Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.43	
For Up To 100, Add	2.31	
For >100 To 250, Add	1.09	
For >250 To 500, Add	0.47	
09 97 13 24-0034 SF Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.39	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.18	
09 97 13 24-0035 SF Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.08	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 97 13 24-0036 SF Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.57	
For Up To 100, Add	1.73	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.35	
09 97 13 24-0037 SF Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.79	
For Up To 100, Add	1.83	
For >100 To 250, Add	0.87	
For >250 To 500, Add	0.37	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0038	SF		Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.10	
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
09 97 13 24-0039	SF		Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	5.43	
			For Up To 100, Add	3.81	
			For >100 To 250, Add	1.79	
			For >250 To 500, Add	0.77	
09 97 13 24-0040	SF		Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.10	
			For Up To 100, Add	1.38	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
09 97 13 24-0041	SF		Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.58	
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
09 97 13 24-0042	SF		Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.07	
			For Up To 100, Add	2.85	
			For >100 To 250, Add	1.34	
			For >250 To 500, Add	0.58	
09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0044	SF		Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.65	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
09 97 13 24-0045	SF		Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.40	
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
09 97 13 24-0046	SF		Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.56	
			For Up To 100, Add	2.48	
			For >100 To 250, Add	1.17	
			For >250 To 500, Add	0.50	
09 97 13 24-0047	SF		Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.05	
			For Up To 100, Add	0.67	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
09 97 13 24-0048	SF		Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.89	
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
09 97 13 24-0049	SF		Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	2.27	
			For Up To 100, Add	1.58	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
09 97 13 24-0050	SF		Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.34	
			For Up To 100, Add	1.56	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
09 97 13 24-0051	SF		Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.97	
			For Up To 100, Add	1.29	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.26	
09 97 13 24-0052	SF		Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	5.61	
			For Up To 100, Add	4.09	
			For >100 To 250, Add	1.91	
			For >250 To 500, Add	0.82	
09 97 13 24-0053	SF		Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.50	
			For Up To 100, Add	1.01	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
09 97 13 24-0054	SF		Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.26	
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
09 97 13 24-0055	SF		Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	3.66	
			For Up To 100, Add	2.63	
			For >100 To 250, Add	1.23	
			For >250 To 500, Add	0.53	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0057	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.38	
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.27	
09 97 13 24-0058	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.05	
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0059	SF		Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.67	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
09 97 13 24-0060	SF		Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.44	
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
09 97 13 24-0061			2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0062	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.63	
			For Up To 100, Add	1.29	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.28	
09 97 13 24-0063	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.30	
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
09 97 13 24-0064	SF		Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats.....	2.15	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
09 97 13 24-0065	SF		Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	1.88	
			For Up To 100, Add	0.85	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
09 97 13 24-0066			1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0067	SF		Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.31	
			For Up To 100, Add	3.44	
			For >100 To 250, Add	1.67	
			For >250 To 500, Add	0.73	
09 97 13 24-0068	SF		Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	5.82	
			For Up To 100, Add	3.07	
			For >100 To 250, Add	1.50	
			For >250 To 500, Add	0.66	
09 97 13 24-0069	SF		Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	9.63	
			For Up To 100, Add	5.93	
			For >100 To 250, Add	2.83	
			For >250 To 500, Add	1.23	
09 97 13 24-0070			1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0071	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.31	
			For Up To 100, Add	1.61	
			For >100 To 250, Add	0.80	
			For >250 To 500, Add	0.35	
09 97 13 24-0072	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	2.94	
			For Up To 100, Add	1.34	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.30	
09 97 13 24-0073	SF		Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.94	
			For Up To 100, Add	2.84	
			For >100 To 250, Add	1.37	
			For >250 To 500, Add	0.60	
09 97 13 24-0074	SF		Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.61	
			For Up To 100, Add	1.27	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.28	
09 97 13 24-0075	SF		Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.32	
			For Up To 100, Add	1.06	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 97 13 24-0076	SF		Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	3.90	
			For Up To 100, Add	2.24	
			For >100 To 250, Add	1.08	
			For >250 To 500, Add	0.47	
09 97 13 24-0077			Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0078	SF		Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	2.97	
			For Up To 100, Add	1.74	
			For >100 To 250, Add	0.83	
			For >250 To 500, Add	0.36	
09 97 13 24-0079	SF		Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	2.48	
			For Up To 100, Add	1.37	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0080	SF		Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats.....	3.81	
			For Up To 100, Add	2.37	
			For >100 To 250, Add	1.13	
			For >250 To 500, Add	0.49	
09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0082	SF		Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.05	
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
09 97 13 24-0083	SF		Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.88	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
09 97 13 24-0084	SF		Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.13	
			For Up To 100, Add	1.96	
			For >100 To 250, Add	0.94	
			For >250 To 500, Add	0.41	
09 97 13 24-0085 Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)					
09 97 13 24-0086	SF		Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	4.54	
			For Up To 100, Add	2.68	
			For >100 To 250, Add	1.29	
			For >250 To 500, Add	0.56	
09 97 13 24-0087	SF		Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	2.76	
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
09 97 13 24-0088 One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0089	SF		Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.31	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
09 97 13 24-0090	SF		Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.28	
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
09 97 13 24-0091	SF		Spray Tank Interior One 3 Mil High Zinc Silicate Coat.....	2.06	
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)					
			Note: Installed over existing primer.		
09 97 13 24-0093	SF		Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.16	
			For Up To 100, Add	1.17	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
09 97 13 24-0094	SF		Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.91	
			For Up To 100, Add	0.98	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
09 97 13 24-0095	SF		Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.99	
			For Up To 100, Add	1.79	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.37	
09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0097	SF		Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	7.85	
			For Up To 100, Add	4.96	
			For >100 To 250, Add	2.36	
			For >250 To 500, Add	1.02	
09 97 26 Cementitious Coatings (09 97)					
09 97 26 13 Interior Cementitious Coatings (09 97 26)					
09 97 26 13-0001			Ceramic-Like Glazed Coating (09 97 26 13)		
09 97 26 13-0002			Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)		
09 97 26 13-0003	SF		Ceramic-like Glazed Coating. - Cementitious.....	3.17	

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



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
09 97 26 13-0004		Ceramic-Like Glazed Coating, Resin Base (09 97 26 13-0001)				
09 97 26 13-0005	SF	Ceramic-like Glazed Coating - Resin.....			2.63	
09 97 63		Special Coatings and Protection Systems (09 97)				
09 97 63 00-0001		Acrylic Glazed Coating (09 97 63)				
09 97 63 00-0002	SF	Acrylic Glazed Coating.....			2.02	

END OF SECTION 09



			Specialties	10
			Information Specialties	10 10
			Signage	10 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

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

10 14 53 Traffic Signage ^(10 14)

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

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

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

Note: Excludes posts.

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

10 14 53 11-0004	EA 18" x 18" Aluminum Engineer Grade Stop Sign.....	58.53	17.75
	For Hi-Intensity Grade, Add	6.91	
	For Diamond Grade, Add	13.13	
10 14 53 11-0005	EA 18" x 24" Aluminum Engineer Grade Stop Sign.....	67.60	18.77
	For Hi-Intensity Grade, Add	9.04	
	For Diamond Grade, Add	17.17	
10 14 53 11-0006	EA 24" x 24" Aluminum Engineer Grade Stop Sign.....	73.12	19.72
	For Hi-Intensity Grade, Add	13.81	
	For Diamond Grade, Add	21.89	
10 14 53 11-0007	EA 30" x 30" Aluminum Engineer Grade Stop Sign.....	84.55	20.74
	For Hi-Intensity Grade, Add	5.18	
	For Diamond Grade, Add	28.03	
10 14 53 11-0008	EA 36" x 36" Aluminum Engineer Grade Stop Sign.....	112.51	21.70
	For Hi-Intensity Grade, Add	15.21	
	For Diamond Grade, Add	47.70	

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

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

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

10 14 53 11-0011	EA 6" x 12" Aluminum Engineer Grade Traffic Sign.....	37.27	15.77
	For Hi-Intensity Grade, Add	1.71	
10 14 53 11-0012	EA 6" x 18" Aluminum Engineer Grade Traffic Sign.....	40.12	15.77
	For Hi-Intensity Grade, Add	2.57	
10 14 53 11-0013	EA 9" x 12" Aluminum Engineer Grade Traffic Sign.....	40.12	15.77
	For Hi-Intensity Grade, Add	2.57	
10 14 53 11-0014	EA 9" x 15" Aluminum Engineer Grade Traffic Sign.....	42.26	15.77
	For Hi-Intensity Grade, Add	3.21	
10 14 53 11-0015	EA 9" x 18" Aluminum Engineer Grade Traffic Sign.....	44.40	15.77
	For Hi-Intensity Grade, Add	3.85	
10 14 53 11-0016	EA 9" x 24" Aluminum Engineer Grade Traffic Sign.....	50.65	16.77
	For Hi-Intensity Grade, Add	5.14	
10 14 53 11-0017	EA 9" x 48" Aluminum Engineer Grade Traffic Sign.....	67.77	16.77
	For Hi-Intensity Grade, Add	10.28	
10 14 53 11-0018	EA 12" x 12" Aluminum Engineer Grade Traffic Sign.....	42.98	15.77
	For Hi-Intensity Grade, Add	3.43	
10 14 53 11-0019	EA 12" x 18" Aluminum Engineer Grade Traffic Sign.....	50.65	16.77
	For Hi-Intensity Grade, Add	5.14	
10 14 53 11-0020	EA 12" x 24" Aluminum Engineer Grade Traffic Sign.....	56.35	16.77
	For Hi-Intensity Grade, Add	6.85	
10 14 53 11-0021	EA 12" x 30" Aluminum Engineer Grade Traffic Sign.....	62.06	16.77
	For Hi-Intensity Grade, Add	8.56	
10 14 53 11-0022	EA 12" x 36" Aluminum Engineer Grade Traffic Sign.....	67.77	16.77
	For Hi-Intensity Grade, Add	10.28	
10 14 53 11-0023	EA 18" x 18" Aluminum Engineer Grade Traffic Sign.....	59.21	16.77
	For Hi-Intensity Grade, Add	7.71	
10 14 53 11-0024	EA 18" x 24" Aluminum Engineer Grade Traffic Sign.....	67.77	16.77
	For Hi-Intensity Grade, Add	10.28	
10 14 53 11-0025	EA 18" x 30" Aluminum Engineer Grade Traffic Sign.....	78.30	17.75
	For Hi-Intensity Grade, Add	12.84	
10 14 53 11-0026	EA 18" x 36" Aluminum Engineer Grade Traffic Sign.....	86.87	17.75
	For Hi-Intensity Grade, Add	15.41	
10 14 53 11-0027	EA 18" x 48" Aluminum Engineer Grade Traffic Sign.....	111.88	21.70
	For Hi-Intensity Grade, Add	20.55	
10 14 53 11-0028	EA 18" x 54" Aluminum Engineer Grade Traffic Sign.....	120.44	21.70
	For Hi-Intensity Grade, Add	23.12	
10 14 53 11-0029	EA 24" x 24" Aluminum Engineer Grade Traffic Sign.....	81.16	17.75
	For Hi-Intensity Grade, Add	13.70	
10 14 53 11-0030	EA 24" x 30" Aluminum Engineer Grade Traffic Sign.....	92.57	17.75
	For Hi-Intensity Grade, Add	17.12	
10 14 53 11-0031	EA 24" x 36" Aluminum Engineer Grade Traffic Sign.....	103.99	17.75
	For Hi-Intensity Grade, Add	20.55	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0032 EA 24" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	123.30 23.98	21.70
10 14 53 11-0033 EA 24" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	134.71 27.40	21.70
10 14 53 11-0034 EA 24" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	146.13 30.83	21.70
10 14 53 11-0035 EA 24" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	157.55 34.25	21.70
10 14 53 11-0036 EA 30" x 30" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	106.85 21.41	17.75
10 14 53 11-0037 EA 30" x 36" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	129.01 25.69	21.70
10 14 53 11-0038 EA 30" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	143.28 29.97	21.70
10 14 53 11-0039 EA 30" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	165.44 34.25	25.63
10 14 53 11-0040 EA 30" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	201.87 42.81	29.58
10 14 53 11-0041 EA 36" x 36" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	146.13 30.83	21.70
10 14 53 11-0042 EA 36" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	171.15 35.96	25.63
10 14 53 11-0043 EA 36" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	196.16 41.10	29.58
10 14 53 11-0044 EA 36" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	213.29 46.24	29.58
10 14 53 11-0045 EA 36" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	238.30 51.38	33.52
10 14 53 11-0046 EA 36" x 73" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	283.30 62.51	37.47
10 14 53 11-0047 EA 36" x 78" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	297.57 66.79	37.47
10 14 53 11-0048 EA 36" x 108" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	395.02 92.48	43.38
10 14 53 11-0049 EA 42" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	199.02 41.96	29.58
10 14 53 11-0050 EA 48" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	249.72 54.80	33.52
10 14 53 11-0051 EA 48" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	280.44 61.65	37.47
10 14 53 11-0052 EA 48" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	303.28 68.50	37.47
10 14 53 11-0053 EA 48" x 66" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	337.94 75.35	43.38
10 14 53 11-0054 EA 48" x 72" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	360.77 82.20	43.38
10 14 53 11-0055 EA 48" x 84" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	414.33 95.90	47.33
10 14 53 11-0056 EA 48" x 96" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	460.00 109.60	47.33
10 14 53 11-0057 EA 48" x 102" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	482.83 116.45	47.33
10 14 53 11-0058 EA 48" x 108" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	509.60 123.30	49.30
10 14 53 11-0059 EA 60" x 72" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	437.16 102.75	47.33
10 14 53 11-0060 EA 72" x 144" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	948.21 246.60	63.10
10 14 53 11-0061 EA 78" x 96" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add	692.27 178.10	49.30
10 14 53 11-0062 Non-Reflectorized Traffic Signs (10 14 53 11-0001) Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.		
10 14 53 11-0063 Steel Non-Reflectorized Traffic Signs (10 14 53 11-0062)		
10 14 53 11-0064 EA 6" x 12" Steel Non Reflectorized Traffic Sign	36.49	15.77
10 14 53 11-0065 EA 6" x 18" Steel Non Reflectorized Traffic Sign	38.96	15.77
10 14 53 11-0066 EA 9" x 12" Steel Non Reflectorized Traffic Sign	38.96	15.77
10 14 53 11-0067 EA 9" x 15" Steel Non Reflectorized Traffic Sign	40.81	15.77
10 14 53 11-0068 EA 9" x 18" Steel Non Reflectorized Traffic Sign	42.66	15.77
10 14 53 11-0069 EA 9" x 24" Steel Non Reflectorized Traffic Sign	48.32	16.77
10 14 53 11-0070 EA 9" x 48" Steel Non Reflectorized Traffic Sign	63.13	16.77
10 14 53 11-0071 EA 12" x 12" Steel Non Reflectorized Traffic Sign	41.43	15.77
10 14 53 11-0072 EA 12" x 18" Steel Non Reflectorized Traffic Sign	48.32	16.77
10 14 53 11-0073 EA 12" x 24" Steel Non Reflectorized Traffic Sign	53.26	16.77
10 14 53 11-0074 EA 12" x 30" Steel Non Reflectorized Traffic Sign	58.19	16.77
10 14 53 11-0075 EA 12" x 36" Steel Non Reflectorized Traffic Sign	63.13	16.77
10 14 53 11-0076 EA 18" x 18" Steel Non Reflectorized Traffic Sign	55.73	16.77
10 14 53 11-0077 EA 18" x 24" Steel Non Reflectorized Traffic Sign	63.13	16.77
10 14 53 11-0078 EA 18" x 30" Steel Non Reflectorized Traffic Sign	72.50	17.75
10 14 53 11-0079 EA 18" x 36" Steel Non Reflectorized Traffic Sign	79.90	17.75
10 14 53 11-0080 EA 18" x 48" Steel Non Reflectorized Traffic Sign	102.60	21.70



Specialties			10
Information Specialties			10 10
Signage			10 14

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
10 14 53 11-0081	EA	18" x 54" Steel Non ReflectORIZED Traffic Sign.....	110.00	21.70
10 14 53 11-0082	EA	24" x 24" Steel Non ReflectORIZED Traffic Sign.....	74.97	17.75
10 14 53 11-0083	EA	24" x 30" Steel Non ReflectORIZED Traffic Sign.....	84.84	17.75
10 14 53 11-0084	EA	24" x 36" Steel Non ReflectORIZED Traffic Sign.....	94.71	17.75
10 14 53 11-0085	EA	24" x 42" Steel Non ReflectORIZED Traffic Sign.....	112.47	21.70
10 14 53 11-0086	EA	24" x 48" Steel Non ReflectORIZED Traffic Sign.....	122.34	21.70
10 14 53 11-0087	EA	24" x 54" Steel Non ReflectORIZED Traffic Sign.....	132.21	21.70
10 14 53 11-0088	EA	24" x 60" Steel Non ReflectORIZED Traffic Sign.....	142.08	21.70
10 14 53 11-0089	EA	30" x 30" Steel Non ReflectORIZED Traffic Sign.....	97.18	17.75
10 14 53 11-0090	EA	30" x 36" Steel Non ReflectORIZED Traffic Sign.....	117.40	21.70
10 14 53 11-0091	EA	30" x 42" Steel Non ReflectORIZED Traffic Sign.....	129.74	21.70
10 14 53 11-0092	EA	30" x 48" Steel Non ReflectORIZED Traffic Sign.....	149.97	25.63
10 14 53 11-0093	EA	30" x 60" Steel Non ReflectORIZED Traffic Sign.....	182.53	29.58
10 14 53 11-0094	EA	36" x 36" Steel Non ReflectORIZED Traffic Sign.....	132.21	21.70
10 14 53 11-0095	EA	36" x 42" Steel Non ReflectORIZED Traffic Sign.....	154.90	25.63
10 14 53 11-0096	EA	36" x 48" Steel Non ReflectORIZED Traffic Sign.....	177.60	29.58
10 14 53 11-0097	EA	36" x 54" Steel Non ReflectORIZED Traffic Sign.....	192.40	29.58
10 14 53 11-0098	EA	36" x 60" Steel Non ReflectORIZED Traffic Sign.....	215.10	33.52
10 14 53 11-0099	EA	36" x 73" Steel Non ReflectORIZED Traffic Sign.....	255.06	37.47
10 14 53 11-0100	EA	36" x 78" Steel Non ReflectORIZED Traffic Sign.....	267.40	37.47
10 14 53 11-0101	EA	36" x 108" Steel Non ReflectORIZED Traffic Sign.....	353.25	43.38
10 14 53 11-0102	EA	42" x 42" Steel Non ReflectORIZED Traffic Sign.....	180.07	29.58
10 14 53 11-0103	EA	48" x 48" Steel Non ReflectORIZED Traffic Sign.....	224.97	33.52
10 14 53 11-0104	EA	48" x 54" Steel Non ReflectORIZED Traffic Sign.....	252.60	37.47
10 14 53 11-0105	EA	48" x 60" Steel Non ReflectORIZED Traffic Sign.....	272.34	37.47
10 14 53 11-0106	EA	48" x 66" Steel Non ReflectORIZED Traffic Sign.....	303.91	43.38
10 14 53 11-0107	EA	48" x 72" Steel Non ReflectORIZED Traffic Sign.....	323.65	43.38
10 14 53 11-0108	EA	48" x 84" Steel Non ReflectORIZED Traffic Sign.....	371.01	47.33
10 14 53 11-0109	EA	48" x 96" Steel Non ReflectORIZED Traffic Sign.....	410.49	47.33
10 14 53 11-0110	EA	48" x 102" Steel Non ReflectORIZED Traffic Sign.....	430.23	47.33
10 14 53 11-0111	EA	48" x 108" Steel Non ReflectORIZED Traffic Sign.....	453.91	49.30
10 14 53 11-0112	EA	60" x 72" Steel Non ReflectORIZED Traffic Sign.....	390.75	47.33
10 14 53 11-0113	EA	72" x 144" Steel Non ReflectORIZED Traffic Sign.....	836.83	63.10
10 14 53 11-0114	EA	78" x 96" Steel Non ReflectORIZED Traffic Sign.....	611.83	49.30
10 14 53 11-0115 Aluminum Non-ReflectORIZED Traffic Signs (10 14 53 11-0062)				
10 14 53 11-0116	EA	6" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	36.70	15.77
10 14 53 11-0117	EA	6" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	39.26	15.77
10 14 53 11-0118	EA	9" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	39.26	15.77
10 14 53 11-0119	EA	9" x 15" Aluminum Non ReflectORIZED Traffic Sign.....	41.19	15.77
10 14 53 11-0120	EA	9" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	43.12	15.77
10 14 53 11-0121	EA	9" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	48.93	16.77
10 14 53 11-0122	EA	9" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	64.34	16.77
10 14 53 11-0123	EA	12" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	41.83	15.77
10 14 53 11-0124	EA	12" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	48.93	16.77
10 14 53 11-0125	EA	12" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	54.06	16.77
10 14 53 11-0126	EA	12" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	59.20	16.77
10 14 53 11-0127	EA	12" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	64.34	16.77
10 14 53 11-0128	EA	18" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	56.63	16.77
10 14 53 11-0129	EA	18" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	64.34	16.77
10 14 53 11-0130	EA	18" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	74.01	17.75
10 14 53 11-0131	EA	18" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	81.71	17.75
10 14 53 11-0132	EA	18" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	105.01	21.70
10 14 53 11-0133	EA	18" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	112.72	21.70
10 14 53 11-0134	EA	24" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	76.58	17.75
10 14 53 11-0135	EA	24" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	86.85	17.75
10 14 53 11-0136	EA	24" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	97.12	17.75
10 14 53 11-0137	EA	24" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	115.28	21.70
10 14 53 11-0138	EA	24" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	125.56	21.70
10 14 53 11-0139	EA	24" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	135.83	21.70
10 14 53 11-0140	EA	24" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	146.10	21.70
10 14 53 11-0141	EA	30" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	99.69	17.75
10 14 53 11-0142	EA	30" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	120.42	21.70
10 14 53 11-0143	EA	30" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	133.26	21.70
10 14 53 11-0144	EA	30" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	153.99	25.63
10 14 53 11-0145	EA	30" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	187.56	29.58
10 14 53 11-0146	EA	36" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	135.83	21.70
10 14 53 11-0147	EA	36" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	159.13	25.63
10 14 53 11-0148	EA	36" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	182.42	29.58
10 14 53 11-0149	EA	36" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	197.83	29.58
10 14 53 11-0150	EA	36" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	221.13	33.52
10 14 53 11-0151	EA	36" x 73" Aluminum Non ReflectORIZED Traffic Sign.....	262.40	37.47
10 14 53 11-0152	EA	36" x 78" Aluminum Non ReflectORIZED Traffic Sign.....	275.24	37.47
10 14 53 11-0153	EA	36" x 108" Aluminum Non ReflectORIZED Traffic Sign.....	364.11	43.38
10 14 53 11-0154	EA	42" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	184.99	29.58
10 14 53 11-0155	EA	48" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	231.40	33.52
10 14 53 11-0156	EA	48" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	259.84	37.47
10 14 53 11-0157	EA	48" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	280.38	37.47
10 14 53 11-0158	EA	48" x 66" Aluminum Non ReflectORIZED Traffic Sign.....	312.75	43.38
10 14 53 11-0159	EA	48" x 72" Aluminum Non ReflectORIZED Traffic Sign.....	333.30	43.38

10	Specialties
10 10	Information Specialties
10 14	Signage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0160 EA 48" x 84" Aluminum Non Reflectorized Traffic Sign	382.28	47.33
10 14 53 11-0161 EA 48" x 96" Aluminum Non Reflectorized Traffic Sign	423.36	47.33
10 14 53 11-0162 EA 48" x 102" Aluminum Non Reflectorized Traffic Sign	443.91	47.33
10 14 53 11-0163 EA 48" x 108" Aluminum Non Reflectorized Traffic Sign	468.39	49.30
10 14 53 11-0164 EA 60" x 72" Aluminum Non Reflectorized Traffic Sign	402.82	47.33
10 14 53 11-0165 EA 72" x 144" Aluminum Non Reflectorized Traffic Sign	865.79	63.10
10 14 53 11-0166 EA 78" x 96" Aluminum Non Reflectorized Traffic Sign	632.75	49.30
10 14 53 11-0167 Aluminum Street Signs (10 14 53 11-0001) Note: Excludes posts.		
10 14 53 11-0168 Aluminum Engineer Grade Street Signs (10 14 53 11-0167)		
10 14 53 11-0169 EA 6" High, Aluminum Engineer Grade Street Sign	62.98	7.89
10 14 53 11-0170 EA 8" High, Aluminum Engineer Grade Street Sign	71.31	7.89
10 14 53 11-0171 EA 9" High, Aluminum Engineer Grade Street Sign	77.52	7.89
10 14 53 11-0172 Street Sign Accessories (10 14 53 11-0167)		
10 14 53 11-0173 EA Single Bracket And Post Cap For Street Sign	19.25	3.95
10 14 53 11-0174 EA Double Bracket And Post Cap For Street Sign	19.25	3.95
10 14 53 11-0175 Sign Posts (10 14 53 11-0001) Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
10 14 53 11-0176 U-Channel Sign Posts (10 14 53 11-0175) Note: Excludes digging and concrete.		
10 14 53 11-0177 Baked Enamel U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0178 EA 3' To 4' Baked Enamel U-Channel Sign Post Base	52.05	16.17
10 14 53 11-0179 EA 6' Baked Enamel U-Channel Sign Post	68.14	20.21
10 14 53 11-0180 EA 7' Baked Enamel U-Channel Sign Post	81.38	24.26
10 14 53 11-0181 EA 8' Baked Enamel U-Channel Sign Post	95.27	28.30
10 14 53 11-0182 EA 10' Baked Enamel U-Channel Sign Post	114.99	34.37
10 14 53 11-0183 EA 12' Baked Enamel U-Channel Sign Post	118.15	34.37
10 14 53 11-0184 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0185 EA 3' To 4' Galvanized Steel U-Channel Sign Post Base	56.11	16.17
10 14 53 11-0186 EA 6' Galvanized Steel U-Channel Sign Post	74.58	20.21
10 14 53 11-0187 EA 7' Galvanized Steel U-Channel Sign Post	95.96	24.26
10 14 53 11-0188 EA 8' Galvanized Steel U-Channel Sign Post	111.39	28.30
10 14 53 11-0189 EA 10' Galvanized Steel U-Channel Sign Post	126.72	34.37
10 14 53 11-0190 EA 12' Galvanized Steel U-Channel Sign Post	128.35	34.37
10 14 53 11-0191 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0192 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base	51.10	16.17
10 14 53 11-0193 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post	66.05	20.21
10 14 53 11-0194 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post	78.87	24.26
10 14 53 11-0195 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post	92.28	28.30
10 14 53 11-0196 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post	109.55	34.37
10 14 53 11-0197 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post	114.92	34.37
10 14 53 11-0198 Tubular Sign Posts (10 14 53 11-0175) Note: Excludes digging and concrete.		
10 14 53 11-0199 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 11-0198)		
10 14 53 11-0200 EA 6", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	75.25	20.21
10 14 53 11-0201 EA 7", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	89.34	24.26
10 14 53 11-0202 EA 8", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	105.48	28.30
10 14 53 11-0203 EA 10", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	135.54	34.37
10 14 53 11-0204 EA 12", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	146.61	34.37
10 14 53 11-0205 Square Sign Posts (10 14 53 11-0175) Note: Excludes digging and concrete.		
10 14 53 11-0206 Galvanized Steel Square Sign Posts (10 14 53 11-0205)		
10 14 53 11-0207 EA 3' To 4' Galvanized Steel Square Sign Post Base	57.02	16.17
10 14 53 11-0208 EA 6' Galvanized Steel Square Sign Post	89.85	20.21
10 14 53 11-0209 EA 7' Galvanized Steel Square Sign Post	105.46	24.26
10 14 53 11-0210 EA 8' Galvanized Steel Square Sign Post	123.01	28.30
10 14 53 11-0211 EA 10' Galvanized Steel Square Sign Post	150.17	34.37
10 14 53 11-0212 EA 12' Galvanized Steel Square Sign Post	157.90	34.37
10 14 53 11-0213 Other Sign Posts And Bases (10 14 53 11-0001) Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		



			Specialties	10	10
			Information Specialties	10 10	
			Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0214 2.5 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0213)		
10 14 53 11-0215 Base Posts, 2.5 LB/LF, For Breakaway Sign Posts (10 14 53 11-0214)		
10 14 53 11-0216 EA Base Post for 2.5 LB/LF Breakaway Sign Post.....	80.05	19.72
10 14 53 11-0217 EA Lap Splice Hardware For 2.5 LB/LF Breakaway Sign Post.....	48.49	15.77
10 14 53 11-0218 Breakaway Sign Posts, 2.5 LB/LF (10 14 53 11-0214)		
10 14 53 11-0219 LF 2.5 LB/LF Breakaway Sign Post.....	10.04	1.97
10 14 53 11-0220 4 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0213)		
10 14 53 11-0221 Base Posts, 4 LB/LF, For Breakaway Sign Posts (10 14 53 11-0220)		
10 14 53 11-0222 EA Base Post For 4 LB/LF Breakaway Sign Post.....	83.69	23.66
10 14 53 11-0223 EA Lap Splice Hardware for 4 LB/LF Breakaway Sign Post.....	48.49	15.77
10 14 53 11-0224 Breakaway Sign Posts, 4 LB/LF (10 14 53 11-0220)		
10 14 53 11-0225 LF 4 LB/LF Breakaway Sign Post.....	12.30	1.97
10 14 53 11-0226 Driven Sign Posts (10 14 53 11-0213)		
10 14 53 11-0227 Driven Posts, 2.5 LB/LF (10 14 53 11-0226)		
10 14 53 11-0228 LF 2.5 LB/LF Driven Post.....	10.83	2.76
10 14 53 11-0229 Driven Posts, 4 LB/LF (10 14 53 11-0226)		
10 14 53 11-0230 LF 4 LB/LF Driven Post.....	13.48	3.15
10 14 53 11-0231 Omni-Directional Breakaway System For Sign Posts And Light Poles (10 14 53 11-0213)		
10 14 53 11-0232 Omni-Directional Breakaway Systems For Signs (10 14 53 11-0231) Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
10 14 53 11-0233 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	1,160.32	
10 14 53 11-0234 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	1,236.32	
10 14 53 11-0235 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo A14 And A16).....	847.59	
10 14 53 11-0236 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	742.38	
10 14 53 11-0237 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	841.74	
10 14 53 11-0238 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	800.83	
10 14 53 11-0239 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	868.05	
10 14 53 11-0240 Omni-Directional Breakaway Systems For Poles (10 14 53 11-0231) Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
10 14 53 11-0241 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	393.49	
10 14 53 11-0242 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	412.54	
10 14 53 11-0243 EA Omni-Directional Breakaway System For Poles With 1" Couplings.....	428.40	
10 14 53 11-0244 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	650.52	
10 14 53 11-0245 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	57.12	
10 14 53 11-0246 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	76.16	
10 14 53 11-0247 Wood Posts (10 14 53 11-0213) Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 11-0248 LF 4" x 4" Pressure Treated Wood Sign Post.....	9.49	
10 14 53 11-0249 Sign Post Accessories (10 14 53 11-0001)		
10 14 53 11-0250 Sign Post Brackets (10 14 53 11-0249)		
10 14 53 11-0251 EA 2-3/8" Outside Diameter, Single Sign Bracket Set.....	25.46	5.91
10 14 53 11-0252 EA 2-3/8" Outside Diameter, Double Sign Bracket Set.....	45.81	9.86
10 14 53 11-0253 EA 10 cm - 37 cm Diameter, Buckle Bracket Set.....	39.39	7.89
10 14 53 11-0254 Sign Post Caps (10 14 53 11-0249)		
10 14 53 11-0255 EA Traffic Sign Post Cap.....	14.22	3.95
10 14 53 11-0256 Sign Post Replacement Bolts (10 14 53 11-0249)		
10 14 53 11-0257 EA Signage Fasteners Replacement.....	10.03	
Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers		

10	Specialties
10 10	Information Specialties
10 14	Signage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0258		Reflective Panels For "U" Channel Post (10 14 53 11-0249)		
10 14 53 11-0259	EA	3" x 72" Reflective Panel For "U-Channel" Post..... Note: Diamond grade panel including mounting hardware.	49.88	
10 14 53 11-0260		Removal Of Signs (10 14 53 11) Note: Includes structural supports.		
10 14 53 11-0261	EA	>4 To 10 SF Sign Area, Sign Removal	157.76	
10 14 53 11-0262	EA	>10 To 20 SF Sign Area, Sign Removal	378.62	
10 14 53 11-0263	EA	>20 To 40 SF Sign Area, Sign Removal	567.93	
10 14 53 11-0264	EA	>40 To 100 SF Sign Area, Sign Removal	950.67	
10 14 53 11-0265		Removal And Reinstallation Of Signs (10 14 53 11) Note: Includes structural supports.		
10 14 53 11-0266	EA	>4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	240.18	
10 14 53 11-0267	EA	>10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	570.45	
10 14 53 11-0268	EA	>20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign.....	854.05	
10 14 53 11-0269	EA	>40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign	1,428.00	
10 14 53 11-0270	EA	Removal And Reinstallation Of Street Sign On Post.....	90.71	
10 14 53 11-0271	EA	Removal And Relocation Of Traffic Light..... Note: Excludes electrical hookup.	329.38	
10 50		Storage Specialties (10)		
10 55		Postal Specialties (10 50)		
10 55 23		Mail Boxes (10 55)		
10 55 23 23		Residential Mail Boxes (10 55 23)		
10 55 23 23-0001		Residential Mail Boxes (10 55 23 23)		
10 55 23 23-0002	EA	13" x 3-9/16" Satin Aluminum (Aluminum Body) Letter Slot With Interior Plate	99.27	13.16
		For Stainless Steel Sleeve, Add	18.15	
10 55 23 23-0003	EA	13" x 3-9/16" Bright Brass (Brass Body) Letter Slot With Interior Plate.....	127.39	13.16
		For Stainless Steel Sleeve, Add	18.15	
10 55 23 23-0004	EA	Aluminum Or Galvanized Wall Mounted Mailbox	80.14	11.71
10 55 23 23-0005	EA	20" x 8-3/4" x 6-7/8" Galvanized Steel Residential Rural Mailbox With 1-1/2" Post.....	122.10	14.63
10 55 23 26		Commercial Mail Boxes (10 55 23)		
10 55 23 26-0001		Commercial Letter Boxes (10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service.		
10 55 23 26-0002	EA	15" Wide x 19" High x 7-1/2" Deep, US Postal Service Approved, Surface Mount, Aluminum Letter Box (Salsbury 2240AU)	335.34	17.55
10 55 23 26-0003	EA	15" Wide x 19" High x 6-3/4" Deep, Private Use/Access, Recessed Mount, Aluminum Letter Box (Salsbury 2245AP).....	386.81	17.55
10 55 23 26-0004		Commercial Horizontal Mail Boxes (10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service.		
10 55 23 26-0005	BOX	5-1/2" Wide x 5-1/2" High x 15-1/2" Deep, Private Use/Access, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box	71.15	17.55
10 55 23 26-0006	BOX	10-3/4" Wide x 5-1/2" High x 15-1/2" Deep, Private Use/Access, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box.....	148.97	23.40
10 55 23 26-0007	BOX	6-3/8" Wide x 5" High x 17" Deep, US Postal Service Approved, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box.....	90.26	14.63
10 55 23 26-0008	BOX	12-7/8" Wide x 5" High x 17" Deep, US Postal Service Approved, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box.....	140.52	23.40
10 55 23 26-0009		Commercial Cluster Mail Boxes (10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service. Includes pedestal. Excludes concrete foundation.		
10 55 23 26-0010	EA	13-15/16 Wide" x 24-1/8" High x 15" Deep, Pedestal Mount, Aluminum (NDCBU) Neighborhood Delivery And Collection Mail Box (National Mailboxes H8MNDNCBU5)	1,704.31	35.11
		Note: Any door combination.		
10 55 23 26-0011	EA	26-15/16" Wide x 24-1/8" High x 15" Deep, Pedestal Mount, Aluminum (NDCBU) Neighborhood Delivery And Collection Mail Box (National Mailboxes H16MNDNCBU8)	2,021.09	46.81
		Note: Any door combination.		
10 55 23 26-0012	EA	30-1/2" Wide x 62" High x 17-7/8" Deep, 8 Tenant Doors, 2 Parcel Lockers, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-8).....	2,784.14	46.81
10 55 23 26-0013	EA	30-1/2" Wide x 62" High x 17-7/8" Deep, 12 Tenant Doors, 1 Parcel Locker, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-12)	2,869.92	46.81
10 55 23 26-0014	EA	30-1/2" Wide x 62" High x 17-7/8" Deep, 16 Tenant Doors, 2 Parcel Lockers, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-16)	2,998.59	46.81
10 55 23 26-0015		Commercial 4C Mail Boxes (10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service.		



			Specialties	10	10
			Storage Specialties	10 50	
			Postal Specialties	10 55	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 55 23 26-0016	EA	31-9/16" Wide x 40-3/4" High x 17" Deep, 9 Doors, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11S-09).....	1,557.49	46.81
10 55 23 26-0017	EA	31-9/16" Wide x 40-3/4" High x 17" Deep, 15 Doors, 1 Parcel Locker, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11D-15).....	2,717.95	46.81
10 55 23 26-0018	EA	31-9/16" Wide x 40-3/4" High x 17" Deep, 19 Doors, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11D-19).....	2,820.89	46.81
10 55 26 Parcel Lockers (10 55)				
10 55 26 00-0001		Parcel Lockers (10 55 26)		
10 55 26 00-0002	EA	24" x 14" x 15" Deep, Aluminum Pedestal Mounted Parcel Locker Note: Two compartments.	1,269.12	35.11
10 55 26 00-0003	EA	48" x 16" x 18" Deep, Aluminum Pedestal Mounted Parcel Locker Note: Two compartments.	1,510.67	46.81
10 80 Other Specialties (10)				
10 81 Pest Control Devices (10 80)				
10 81 13 Bird Control Devices (10 81)				
10 81 13 00-0001		Stainless Steel Spiked Bird Barrier (10 81 13) Note: Stainless steel spikes with flexible polycarbonate base.		
10 81 13 00-0002	LF	2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	8.83	0.94
10 81 13 00-0003	LF	4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	10.67	0.94
10 81 13 00-0004	LF	8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	15.66	0.94
10 81 13 00-0005		Polycarbonate Spiked Bird Barrier (10 81 13) Note: Polycarbonate spikes and base.		
10 81 13 00-0006	LF	3" Wide Polycarbonate Spikes And Base Bird Deterrent System	8.17	0.94
10 81 13 00-0007	LF	5" Wide Polycarbonate Spikes And Base Bird Deterrent System	9.91	0.94
10 81 13 00-0008	LF	8" Wide Polycarbonate Spikes And Base Bird Deterrent System	11.83	0.94
10 81 13 00-0009		Spiked Gutter Or Girder Bird Barrier (10 81 13) Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.		
10 81 13 00-0010	LF	Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application	9.29	0.94
10 81 13 00-0011		Coil Bird Barrier (10 81 13) Note: Stainless steel coil.		
10 81 13 00-0012	LF	4" Diameter Stainless Steel Coil Bird Deterrent System	6.65	0.94
10 81 13 00-0013	LF	5" Diameter Stainless Steel Coil Bird Deterrent System	7.83	0.94
10 81 13 00-0014		Spider Bird Barrier (10 81 13) Note: Stainless steel arms with various bases.		
10 81 13 00-0015	EA	2" Diameter Stainless Steel Spider Bird Deterrent System	119.15	0.94
10 81 13 00-0016	EA	4" Diameter Stainless Steel Spider Bird Deterrent System	174.49	0.94
10 81 13 00-0017	EA	8" Diameter Stainless Steel Spider Bird Deterrent System	218.97	0.94
10 81 13 00-0018		Oriented Flexible Flame Resistant Netting (10 81 13) Note: Includes stainless steel rings and plastic ties.		
10 81 13 00-0019	SF	1/8" x 1/8" Mesh Flexible Polypropylene Netting	0.87	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0020	SF	1/4" x 1/4" Mesh Flexible Polypropylene Netting	0.84	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0021	SF	1/2" x 1/2" Mesh Flexible Polypropylene Netting	0.81	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0022	SF	3/4" x 3/4" Mesh Flexible Polypropylene Netting	0.79	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0023	SF	1" x 1" Mesh Flexible Polypropylene Netting	0.79	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0024	SF	1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting	0.77	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0025	SF	2" x 2" Mesh Flexible Polypropylene Netting	0.75	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0026	SF	3" x 3" Mesh Flexible Polypropylene Netting	0.75	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0027	SF	4" x 4" Mesh Flexible Polypropylene Netting	0.72	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0028	SF	5/8" x 3/4" Mesh Flexible Polypropylene Netting	0.80	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0029	SF	1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting	0.76	0.31
		Note: To control bird and marine predators.		
10 81 13 00-0030	EA	Poly Clips For Flexible Netting.....	2.69	

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



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
10 81 13 00-0031			Netting Accessories (10 81 13)			
10 81 13 00-0032	EA		2' Zipper For Flexible Netting		7.37	
10 81 13 00-0033	EA		4' Zipper For Flexible Netting		11.10	
10 81 13 00-0034	EA		6' Zipper For Flexible Netting		13.06	
10 81 13 00-0035	EA		8' Zipper For Flexible Netting		18.56	
10 81 16			Insect Control Devices (10 81)			
10 81 16 00-0001			Insect Screening (10 81 16)			
10 81 16 00-0002	CSF		17/14 Mesh Insect Screening With Flat Screen Splines		113.94	

END OF SECTION 10



Special Construction		13
Integrated Construction		13 40
Facility Protection		13 47

13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

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

13 47 13 13-0001		Anodes ^(13 47 13 13)			
13 47 13 13-0002		Magnesium Type, Conventional ^(13 47 13 13-0001)			
13 47 13 13-0003	EA	9 LB Magnesium Type Anodes.....	431.20		193.68
13 47 13 13-0004	EA	17 LB Magnesium Type Anodes.....	636.46		279.93
13 47 13 13-0005	EA	32 LB Magnesium Type Anode.....	859.34		360.12
13 47 13 13-0006	EA	48 LB Magnesium Type Anode.....	1,219.90		503.87
13 47 13 13-0007		Graphite Type ^(13 47 13 13-0001)			
		Note: Includes epoxy cap.			
13 47 13 13-0008	EA	3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap	654.79		280.81
13 47 13 13-0009	EA	4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap	1,000.01		392.13
13 47 13 13-0010	EA	6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap	729.64		245.40
13 47 13 13-0011	EA	6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap	1,095.84		327.62
13 47 13 13-0012		Rectifiers ^(13 47 13 13)			
13 47 13 13-0013		Air Cooled, Silicon Type ^(13 47 13 13-0012)			
13 47 13 13-0014	EA	Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type	2,052.18		398.72
13 47 13 13-0015	EA	Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type	2,208.78		398.72
13 47 13 13-0016		Oil Immersed, Silicon Type ^(13 47 13 13-0012)			
13 47 13 13-0017	EA	Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	3,046.38		461.02
13 47 13 13-0018	EA	Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	3,214.16		461.02
13 47 13 13-0019		Anode Backfill ^(13 47 13 13)			
13 47 13 13-0020	LB	Anode Backfill, Coke Breeze	1.31		0.50
13 47 13 13-0021		Cathodic Protection Cable ^(13 47 13 13)			
13 47 13 13-0022	MLF	Cathodic Protection Cable, OR2 - No 8	2,402.11		981.59
13 47 13 13-0023	MLF	Cathodic Protection Cable, OR2 - No 6	2,596.45		981.59
13 47 13 13-0024	MLF	Cathodic Protection Cable, OR2 - No 4	2,887.94		981.59
13 47 13 13-0025	MLF	Cathodic Protection Cable, OR2 - No 2	3,373.77		981.59
13 47 13 13-0026	MLF	Cathodic Protection Cable, OR2 - No 1	4,102.50		1,081.52
13 47 13 13-0027	MLF	Cathodic Protection Cable, OR2-No 1/0	4,466.87		1,081.52
13 47 13 13-0028	MLF	Cathodic Protection Cable, OR2-No 2/0	5,074.15		1,081.52
13 47 13 13-0029	MLF	Cathodic Protection Cable, OR2-No 4/0	6,725.58		1,178.92
13 47 13 13-0030		Cathodic Test Stations ^(13 47 13 13)			
13 47 13 13-0031		Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0030)			
13 47 13 13-0032	EA	Cathodic Test Station, Flush Curb Type With Lockable Cover	323.35		114.91
13 47 13 16		Cathodic Protection for Underground Storage Tanks ^(13 47 13)			
		See CSI section 13 47 13 13-0000 for cathodic protection for tanks.			

END OF SECTION 13

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



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 Plumbing

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

22 10 Plumbing Piping⁽²²⁾

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

22 13 Facility Sanitary Sewerage^(22 10)

22 13 29 Sanitary Sewerage Pumps^(22 13)

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

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

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

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

22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps^(22 13 29 13-0001)

22 13 29 13-0003	EA	1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,650.64	1,568.89
22 13 29 13-0004	EA	3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,866.56	1,568.89
22 13 29 13-0005	EA	1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	7,082.48	1,568.89
22 13 29 13-0006	EA	1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	7,288.43	1,568.89

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

22 13 29 13-0008	EA	3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,248.57	1,568.89
22 13 29 13-0009	EA	1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,331.61	1,568.89
22 13 29 13-0010	EA	2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,389.74	1,568.89
22 13 29 13-0011	EA	3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,788.36	1,568.89
22 13 29 13-0012	EA	5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,178.67	1,568.89
22 13 29 13-0013	EA	7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,776.60	1,568.89
22 13 29 13-0014	EA	10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	9,374.52	1,568.89
22 13 29 13-0015	EA	15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	11,010.36	2,087.85

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

22 13 29 13-0017	EA	2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,664.68	1,568.89
22 13 29 13-0018	EA	3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,664.68	1,568.89
22 13 29 13-0019	EA	5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,808.55	1,568.89
22 13 29 13-0020	EA	7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,924.94	1,568.89
22 13 29 13-0021	EA	10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,120.78	1,568.89
22 13 29 13-0022	EA	15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,079.25	2,087.85
22 13 29 13-0023	EA	20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,577.52	2,087.85

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

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

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

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

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

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

22 13 29 13-0035	EA	24" Steel Sump Covers, Square Or Round.....	726.76	52.31
22 13 29 13-0036	EA	30" Steel Sump Covers, Square Or Round.....	804.84	58.85
22 13 29 13-0037	EA	36" Steel Sump Covers, Square Or Round.....	1,115.12	78.47
22 13 29 13-0038	EA	40" Steel Sump Covers, Square Or Round.....	1,606.47	91.55
22 13 29 13-0039	EA	42" Steel Sump Covers, Square Or Round.....	1,720.39	94.82
22 13 29 13-0040	EA	48" Steel Sump Covers, Square Or Round.....	1,838.05	98.09
22 13 29 13-0041	EA	54" Steel Sump Covers, Square Or Round.....	2,337.61	117.70
22 13 29 13-0042	EA	60" Steel Sump Covers, Square Or Round.....	3,151.19	130.78
22 13 29 13-0043	EA	72" Steel Sump Covers, Square Or Round.....	3,995.86	163.49
22 13 29 13-0044	EA	84" Steel Sump Covers, Square Or Round.....	5,064.73	179.83

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

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



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0002	Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001) Note: Includes 25' cord.			
22 13 29 16-0003	EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,124.94	95.17	
22 13 29 16-0004	EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,191.25	95.17	
22 13 29 16-0005	EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,170.85	95.17	
22 13 29 16-0006	EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,268.62	95.17	
22 13 29 16-0007	EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,268.62	95.17	
22 13 29 16-0008	EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,365.16	118.96	
22 13 29 16-0009	EA 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,451.88	118.96	
22 13 29 16-0010	EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,462.93	118.96	
22 13 29 16-0011	Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001) Note: Includes 20' cord.			
22 13 29 16-0012	EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,143.64	95.17	
22 13 29 16-0013	EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,238.86	95.17	
22 13 29 16-0014	EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,193.80	95.17	
22 13 29 16-0015	EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,285.63	95.17	
22 13 29 16-0016	EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,368.09	95.17	
22 13 29 16-0017	EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,312.45	118.96	
22 13 29 16-0018	EA 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,411.07	118.96	
22 13 29 16-0019	EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,410.22	118.96	
22 13 29 16-0020	EA 1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,684.51	191.77	
22 13 29 16-0021	EA 1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,767.83	191.77	
22 13 29 16-0022	EA 1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,782.29	191.77	
22 13 29 16-0023	EA 2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,846.12	234.38	
22 13 29 16-0024	EA 2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,941.34	234.38	
22 13 29 16-0025	EA 2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,943.89	234.38	
22 13 29 16-0026	Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001) Note: Includes 20' cord.			
22 13 29 16-0027	EA 1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,334.09	95.17	
22 13 29 16-0028	EA 1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,495.63	95.17	
22 13 29 16-0029	EA 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,493.54	118.96	
22 13 29 16-0030	EA 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,591.31	118.96	
22 13 29 16-0031	EA 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,879.21	191.77	
22 13 29 16-0032	EA 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,976.98	191.77	
22 13 29 16-0033	EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,041.66	234.38	
22 13 29 16-0034	EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,139.44	234.38	
22 13 29 16-0035	Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16) Note: Includes 25' of cord with pump.			
22 13 29 16-0036	EA 1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,169.64	118.96	
22 13 29 16-0037	EA 1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,405.36	173.63	
22 13 29 16-0038	EA 2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,678.88	212.21	



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

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0039	EA	3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,882.30	257.23	
22 13 29 16-0040	EA	5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,368.44	302.24	
22 13 29 16-0041	EA	7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,887.67	347.26	
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof (22 13 29 16)					
Note: Includes 25' of cord with pump.					
22 13 29 16-0043	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,603.95	426.29	
22 13 29 16-0044	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,194.05	426.29	
22 13 29 16-0045	EA	1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,194.05	426.29	
22 13 29 16-0046	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,966.71	568.38	
22 13 29 16-0047	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,556.82	568.38	
22 13 29 16-0048	EA	1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,556.82	568.38	
22 13 29 16-0049	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,414.01	710.48	
22 13 29 16-0050	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,004.11	710.48	
22 13 29 16-0051	EA	2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,004.11	710.48	
22 13 29 16-0052	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,781.87	852.57	
22 13 29 16-0053	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,371.98	852.57	
22 13 29 16-0054	EA	3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,371.98	852.57	
22 13 29 16-0055	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,531.48	994.67	
22 13 29 16-0056	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,121.58	994.67	
22 13 29 16-0057	EA	5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,121.58	994.67	
22 13 29 16-0058	EA	7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,880.57	1,136.77	
22 13 29 16-0059	EA	7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,880.57	1,136.77	
22 13 29 16-0060 Submersible Sewage Pump Accessories (22 13 29 16)					
22 13 29 16-0061	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	575.64	103.83	
Note: Includes alarm horn, warning light and alarm float switch.					
22 13 29 16-0062	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	591.88	103.83	
Note: Includes alarm horn, warning light, and alarm float switch.					
22 13 29 16-0063	EA	Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,115.19	138.45	
Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.					
22 13 29 16-0064	EA	Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,531.09	138.45	
Note: Includes alarm horn and warning light. Control float switches not included.					
22 13 29 16-0065	EA	Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,410.60	138.45	
Note: Includes alarm horn and warning light. Control float switches not included.					
22 13 29 16-0066	EA	Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,563.74	138.45	
Note: Includes alarm horn and warning light. Control float switches not included.					
22 13 29 16-0067	EA	Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	5,661.55	173.05	
Note: Includes alarm horn and warning light. Control float switches not included.					
22 13 29 16-0068	EA	Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,790.35	173.05	
Note: Includes alarm horn and warning light. Control float switches not included.					
22 13 29 16-0069	EA	Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps	1,251.83	173.05	
Note: Includes alarm horn, warning light, and three 20' float switches.					
22 13 29 16-0070	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps	1,365.56	173.05	
Note: Includes alarm horn, warning light, and three 20' float switches.					
22 13 29 16-0071	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps	1,316.01	173.05	
Note: Includes alarm horn, warning light, and three 20' float switches.					
22 13 29 16-0072	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps	1,418.50	173.05	
Note: Includes alarm horn, warning light, and three 20' float switches.					

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0073	EA	Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps.....	2,333.91	173.05
		Note: Includes alarm horn and warning light. Float switches not included..		
22 13 29 16-0074	EA	Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure	464.19	69.22
		Note: Includes alarm horn, warning light and 15' tethered float.		
22 13 29 16-0075	EA	Variable Level (Clamp Type) Float Switch With 15' Cord.....	104.96	34.61
		Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0076	EA	Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only.....	120.73	34.61
22 13 29 16-0077	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord	126.80	34.61
		Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0078	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only	132.41	34.61
22 13 29 16-0079	EA	Float Switch Tree With (3) 15' Floats	325.28	34.61
		Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0080	EA	Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only	367.16	34.61
22 13 29 16-0081	EA	Float Switch Tree And (4) Floats With 15' Cords	359.08	34.61
		Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0082	EA	Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only	414.68	34.61
22 13 29 16-0083	EA	Float Switch Tree.....	185.97	34.61
		Note: Tree only.		
22 13 29 16-0084	EA	Adjustable Weight For Float Switch	56.02	17.30
22 13 29 16-0085	EA	Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge	920.69	103.83
		Note: Lifting equipment not included.		
22 13 29 16-0086	EA	Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge	1,424.51	138.45
		Note: Lifting equipment not included.		
22 13 29 16-0087	EA	Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge	1,854.58	173.05
		Note: Lifting equipment not included.		
22 13 29 16-0088	EA	Rail And Disconnect System, Stainless Steel Non-Speaking, For 3" Horizontal Discharge.....	1,969.79	103.83
22 13 29 16-0089	EA	Rail And Disconnect System, Stainless Steel Non-Speaking, For 4" Horizontal Discharge.....	2,752.40	103.83
22 13 29 16-0090	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System	295.63	69.22
22 13 29 16-0091	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems	493.34	86.53
22 13 29 16-0092	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems	507.67	103.83
22 13 29 16-0093	EA	12" Stainless Steel Lifting Cable.....	146.12	34.61
22 13 29 16-0094	EA	Disconnect Fitting For 2" Horizontal Discharge.....	262.75	34.61
		Note: Used for shallow systems where guide rails are not necessary.		

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)

22 13 29 33-0002 High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)

22 13 29 33-0003	EA	18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	125.84	
22 13 29 33-0004	EA	18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	157.04	
22 13 29 33-0005	EA	24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	318.95	
22 13 29 33-0006	EA	24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	436.48	
22 13 29 33-0007	EA	30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	554.00	
22 13 29 33-0008	EA	36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	640.69	

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

22 13 29 33-0010	EA	18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	342.88	
22 13 29 33-0011	EA	24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	679.22	
22 13 29 33-0012	EA	30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,206.66	
22 13 29 33-0013	EA	36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,617.61	
22 13 29 33-0014	EA	36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	1,861.69	
22 13 29 33-0015	EA	36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	1,966.39	
22 13 29 33-0016	EA	36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	2,306.66	
22 13 29 33-0017	EA	48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	2,677.05	

22 14 Facility Storm Drainage (22 10)

22 14 29 Sump Pumps (22 14)

22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)

22 14 29 13-0001 Vertical Mounted Sump Pumps (22 14 29 13)

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

22 14 29 13-0002	EA	1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	5,515.47	379.44
		For Explosion Proof Motor, Add	236.73	
22 14 29 13-0003	EA	1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	5,879.97	459.26
		For Explosion Proof Motor, Add	263.17	
22 14 29 13-0004	EA	2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	6,735.92	545.62
		For Explosion Proof Motor, Add	339.98	
22 14 29 13-0005	EA	3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head	7,260.04	671.22
		For Explosion Proof Motor, Add	385.32	
22 14 29 13-0006	EA	5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head	7,684.13	727.48
		For Explosion Proof Motor, Add	562.86	
22 14 29 13-0007	EA	10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head	9,120.90	872.72
		For Explosion Proof Motor, Add	638.41	
22 14 29 13-0008	EA	15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head	10,569.19	903.91
		For Explosion Proof Motor, Add	1,046.40	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 13-0009 EA 20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head..... <i>For Explosion Proof Motor, Add</i>	12,533.19 1,388.90	1,004.09
22 14 29 13-0010 EA 30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head..... <i>For Explosion Proof Motor, Add</i>	13,590.87 1,800.66	1,171.02
22 14 29 13-0011 EA 50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head..... <i>For Explosion Proof Motor, Add</i>	18,136.92 2,345.89	1,405.73
22 14 29 13-0012 EA 60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head..... <i>For Explosion Proof Motor, Add</i>	24,871.65 3,718.42	1,561.36
22 14 29 13-0013 Extra Column Assemblies (22 14 29 13)		
22 14 29 13-0014 EA 1-1/2" Diameter x 5' Long Extra Column Assembly	815.72	
22 14 29 13-0015 EA 2" Diameter x 5' Long Extra Column Assembly	892.59	
22 14 29 13-0016 EA 2-1/2" Diameter x 5' Long Extra Column Assembly	976.70	
22 14 29 13-0017 EA 3" Diameter x 5' Long Extra Column Assembly	1,172.72	
22 14 29 13-0018 EA 4" Diameter x 5' Long Extra Column Assembly	1,310.79	
22 14 29 13-0019 EA 5" Diameter x 5' Long Extra Column Assembly	1,334.66	
22 14 29 13-0020 EA 6" Diameter x 5' Long Extra Column Assembly	1,498.29	
22 14 29 13-0021 EA 8" Diameter x 5' Long Extra Column Assembly	1,639.48	
22 14 29 13-0022 Support Plate (22 14 29 13)		
22 14 29 13-0023 EA 24" Steel Support Plate, Round Or Square.....	726.76	52.31
22 14 29 13-0024 EA 30" Steel Support Plate, Round Or Square.....	804.84	58.85
22 14 29 13-0025 EA 36" Steel Support Plate, Round Or Square.....	1,115.12	78.47
22 14 29 13-0026 EA 40" Steel Support Plate, Round Or Square.....	1,606.47	91.55
22 14 29 13-0027 EA 42" Steel Support Plate, Round Or Square.....	1,720.39	94.82
22 14 29 13-0028 EA 48" Steel Support Plate, Round Or Square.....	1,837.92	98.09
22 14 29 13-0029 EA 54" Steel Support Plate, Round Or Square.....	2,337.61	117.70
22 14 29 13-0030 EA 60" Steel Support Plate, Round Or Square.....	3,151.19	130.78
22 14 29 13-0031 EA 72" Steel Support Plate, Round Or Square.....	4,202.54	163.49
22 14 29 13-0032 EA 84" Steel Support Plate, Round Or Square.....	5,064.73	179.83
22 14 29 16 Submersible Sump Pumps (22 14 29)		
22 14 29 16-0001 Submersible Sump Pump With Vortex Impeller (22 14 29 16)		
22 14 29 16-0002 Submersible Sump Pump With Cast Iron Vortex Impeller (22 14 29 16-0001)		
22 14 29 16-0003 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	461.38	85.23
22 14 29 16-0004 EA 1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	500.06	85.23
22 14 29 16-0005 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	732.71	90.20
22 14 29 16-0006 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	793.91	90.20
22 14 29 16-0007 Submersible Sump Pump With Bronze Vortex Impeller (22 14 29 16-0001)		
Note: Includes 20' of cord with pump.		
22 14 29 16-0008 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,159.40	90.20
22 14 29 16-0009 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,251.62	90.20
22 14 29 16-0010 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,320.82	99.43
22 14 29 16-0011 EA 1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,419.42	99.43
22 14 29 16-0012 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,474.79	113.64
22 14 29 16-0013 EA 1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,571.68	113.64
22 14 29 16-0014 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,597.05	134.94
22 14 29 16-0015 EA 2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,681.20	134.94
22 14 29 16-0016 Submersible Sump Pump With Semi-Open Impeller (22 14 29 16)		
Note: Includes 20' of cord with pump.		
22 14 29 16-0017 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,073.90	85.23
22 14 29 16-0018 EA 1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,106.25	85.23
22 14 29 16-0019 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,366.10	90.20
22 14 29 16-0020 EA 1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,388.82	90.20
22 14 29 16-0021 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,653.90	95.17
22 14 29 16-0022 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,653.90	95.17

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0023 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,748.53	99.43
22 14 29 16-0024 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,748.53	99.43
22 14 29 16-0025 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,995.70	113.64
22 14 29 16-0026 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,995.70	113.64
22 14 29 16-0027 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,321.77	134.94
22 14 29 16-0028 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,282.43	134.94

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

END OF SECTION 22



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

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 Electrical

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

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

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

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

26 01 20 91-0001	Lock Out/Tag Out Devices ^(26 01 20 91)	
Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002	EA Lock Out/Tag Out Local Disconnect	49.91
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0003	EA Lock Out/Tag Out Breaker Or Motor Starter	49.91
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0004	EA Lock Out/Tag Out Padlock Device.....	13.87
26 01 20 91-0005	EA Lock Out/Tag Out Tags	4.08
26 01 20 91-0006	Existing Circuit Tracing ^(26 01 20 91)	
26 01 20 91-0007	EA Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device.....	28.85
26 01 20 91-0008	EA Lighting, Existing Circuit Tracing Per Circuit.....	28.85

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

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

26 01 30 91-0001	Emergency Generator Permits ^(26 01 30 91)	
26 01 30 91-0002	Air Pollution Control Board ^(26 01 30 91-0001)	
26 01 30 91-0003	EA APCD Permit To Construct And Operate Emergency Generator.....	3,959.60

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

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

26 01 50 51-0001	Replace Lamps In Existing Fixtures ^(26 01 50 51)	
Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 51-0002	Halogen Lamps ^(26 01 50 51-0001)	
26 01 50 51-0003	EA 300 Watt, T3, Tungsten Halogen Lamp	41.14
26 01 50 51-0004	EA 500 Watt, T3, Tungsten Halogen Lamp	51.12
26 01 50 51-0005	EA 1,000 Watt, T3, Tungsten Halogen Lamp	73.65
26 01 50 51-0006	EA 60 Watt, PAR38, Halogen Lamp	24.23
26 01 50 51-0007	EA 75 Watt, PAR38, Halogen Lamp	24.23
26 01 50 51-0008	EA 90 Watt, PAR38, Halogen Lamp	23.34
26 01 50 51-0009	EA 100 Watt, PAR38, Halogen Lamp	23.34
26 01 50 51-0010	EA 60 Watt, PAR38, Halogen IR Reflective Lamp.....	44.91
26 01 50 51-0011	EA 67 Watt, PAR38, Halogen IR Reflective Lamp.....	49.55
26 01 50 51-0012	EA 70 Watt, PAR38, Halogen IR Reflective Lamp.....	48.35
26 01 50 51-0013	EA 90 Watt, PAR38, Halogen IR Reflective Lamp.....	51.90
26 01 50 51-0014	EA 100 Watt, PAR38, Halogen IR Reflective Lamp.....	52.66
26 01 50 51-0015	EA 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	28.37
26 01 50 51-0016	EA 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	28.37
26 01 50 51-0017	EA 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	31.27
26 01 50 51-0018	EA 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	31.27
26 01 50 51-0019	Incandescent Lamps ^(26 01 50 51-0001)	
26 01 50 51-0020	EA 100 Watt, Frosted, Interior Incandescent Lamp	7.50
For Multiple Lamps In Fixture, Deduct		-2.29
26 01 50 51-0021	EA 150 Watt, Frosted, Interior Incandescent Lamp	8.62
For Multiple Lamps In Fixture, Deduct		-2.29
26 01 50 51-0022	EA 200 Watt, Frosted, Interior Incandescent Lamp	9.89
For Multiple Lamps In Fixture, Deduct		-2.29
26 01 50 51-0023	EA 300 Watt, PS25, Interior Incandescent Lamp	11.48
For Multiple Lamps In Fixture, Deduct		-2.29
26 01 50 51-0024	EA 60 Watt, G25, Clear, Interior Incandescent Lamp	9.33
For Multiple Lamps In Fixture, Deduct		-2.29
26 01 50 51-0025	EA 75 Watt, R20, Interior Incandescent Lamp	13.67
For Multiple Lamps In Fixture, Deduct		-2.75

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp.....	15.90	
For Multiple Lamps In Fixture, Deduct	-2.75	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp.....	15.01	
For Multiple Lamps In Fixture, Deduct	-2.75	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp.....	23.47	
For Multiple Lamps In Fixture, Deduct	-2.75	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp.....	45.34	
For Multiple Lamps In Fixture, Deduct	-3.21	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp.....	51.55	
For Multiple Lamps In Fixture, Deduct	-3.21	
26 01 50 51-0031 Exit Light Lamps (26 01 50 51-0001)		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps	120.20	
For Green LED Lamps, Add	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light	33.40	
For Multiple Lamps In Fixture, Deduct	-9.17	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign	34.15	
For Multiple Lamps In Fixture, Deduct	-4.59	
26 01 50 51-0035 Fluorescent Lamps (26 01 50 51-0001)		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp	13.59	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp	15.73	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp	18.01	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp	17.32	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp	21.70	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp	19.45	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp	19.36	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp	29.05	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp	22.97	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp	18.98	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp	15.12	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp	16.99	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp	17.06	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp	16.78	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp	23.46	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp	20.35	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp.....	30.08	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp.....	19.18	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp.....	16.31	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp.....	15.87	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp.....	17.24	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp.....	27.29	
For Multiple Lamps In Fixture, Deduct	-4.59	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp.....	26.45	
For Multiple Lamps In Fixture, Deduct	-4.59	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp	14.75	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp	14.55	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp	14.92	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp	15.47	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp	17.37	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp	19.01	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp	18.52	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp	19.94	
For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp	16.93	



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

26

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0068	EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	11.17 -2.29	
26 01 50 51-0069	EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	12.15 -2.29	
26 01 50 51-0070	EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	22.99 -2.29	
26 01 50 51-0071	EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	30.52	
26 01 50 51-0072	EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	30.52	
26 01 50 51-0073	EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin.....	53.75	
26 01 50 51-0074	EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	20.69	
26 01 50 51-0075	EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps	11.01	
26 01 50 51-0076	EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps	9.84	
26 01 50 51-0077	EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps	9.84	
26 01 50 51-0078	EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps	34.47	
26 01 50 51-0079	EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps	37.39	
26 01 50 51-0080	EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps	69.01	
26 01 50 51-0081	EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	82.18	
26 01 50 51-0082	EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	84.86	
26 01 50 51-0083	EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps	32.80	
26 01 50 51-0084	EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps	34.09	
26 01 50 51-0085	EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps	38.92	
26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)			
26 01 50 51-0087	EA 50 Watt, Pulse Start Metal Halide Lamp	47.07	
26 01 50 51-0088	EA 70 Watt, Pulse Start Metal Halide Lamp	45.31	
26 01 50 51-0089	EA 100 Watt, Pulse Start Metal Halide Lamp	50.86	
26 01 50 51-0090	EA 150 Watt, Pulse Start Metal Halide Lamp	49.60	
26 01 50 51-0091	EA 175 Watt, Pulse Start Metal Halide Lamp	49.24	
26 01 50 51-0092	EA 250 Watt, Pulse Start Metal Halide Lamp	49.49	
26 01 50 51-0093	EA 400 Watt, Pulse Start Metal Halide Lamp	58.32	
26 01 50 51-0094	EA 1,000 Watt, Pulse Start Metal Halide Lamp	66.80	
26 01 50 51-0095	EA 1,500 Watt, Pulse Start Metal Halide Lamp	66.44	
26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)			
26 01 50 51-0097	EA 35 Watt, High Pressure Sodium Lamp..... <i>For Enclosed And Gasket Light Fixtures, Add</i>	39.92 3.53	
26 01 50 51-0098	EA 50 Watt, High Pressure Sodium Lamp..... <i>For Enclosed And Gasket Light Fixtures, Add</i>	39.92 3.53	
26 01 50 51-0099	EA 70 Watt, High Pressure Sodium Lamp..... <i>For Enclosed And Gasket Light Fixtures, Add</i>	40.67 3.53	
26 01 50 51-0100	EA 100 Watt, High Pressure Sodium Lamp..... <i>For Enclosed And Gasket Light Fixtures, Add</i>	42.11 3.53	
26 01 50 51-0101	EA 150 Watt, High Pressure Sodium Lamp..... <i>For Enclosed And Gasket Light Fixtures, Add</i>	40.67 3.53	
26 01 50 51-0102	EA 250 Watt, High Pressure Sodium Lamp..... <i>For Enclosed And Gasket Light Fixtures, Add</i>	40.67 3.53	
26 01 50 51-0103	EA 400 Watt, High Pressure Sodium Lamp..... <i>For Enclosed And Gasket Light Fixtures, Add</i>	38.53 3.53	
26 01 50 51-0104	EA 1,000 Watt, High Pressure Sodium Lamp.....	82.26	
26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)			
26 01 50 51-0106	EA 35 Watt, Low Pressure Sodium Lamp	91.90	
26 01 50 51-0107	EA 55 Watt, Low Pressure Sodium Lamp	101.83	
26 01 50 51-0108	EA 70 Watt, Low Pressure Sodium Lamp	104.07	
26 01 50 51-0109	EA 90 Watt, Low Pressure Sodium Lamp	106.31	
26 01 50 51-0110	EA 135 Watt, Low Pressure Sodium Lamp	115.25	
26 01 50 51-0111	EA 180 Watt, Low Pressure Sodium Lamp	155.51	
26 01 50 51-0112 LED Lamps (26 01 50 51-0001)			
26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)			
26 01 50 51-0114	EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star).....	15.70	
26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)			
26 01 50 51-0116	EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	20.09	
26 01 50 51-0117	EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	20.09	
26 01 50 51-0118	EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	31.88	
26 01 50 51-0119	EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	23.07	
26 01 50 51-0120	EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	39.26	
26 01 50 51-0121 LED Lamps, Medium Base, BR30 Or BR40 (26 01 50 51-0112)			
26 01 50 51-0122	EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	27.52	
26 01 50 51-0123	EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	25.03	
26 01 50 51-0124	EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	31.65	
26 01 50 51-0125	EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	27.24	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0126 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	34.59	
26 01 50 51-0127 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	27.24	
26 01 50 51-0128 LED Lamps, Medium Base, PAR (26 01 50 51-0112)		
26 01 50 51-0129 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star).....	29.88	
26 01 50 51-0130 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	39.03	
26 01 50 51-0131 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	39.03	
26 01 50 51-0132 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	37.56	
26 01 50 51-0133 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	36.08	
26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	36.08	
26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	65.86	
26 01 50 51-0136 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	39.03	
26 01 50 51-0137 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	37.56	
26 01 50 51-0138 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	39.03	
26 01 50 51-0139 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	39.03	
26 01 50 51-0140 LED Lamps, GU Base, MR16 (26 01 50 51-0112)		
26 01 50 51-0141 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	22.08	
26 01 50 51-0142 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	27.52	
26 01 50 51-0143 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	29.88	
26 01 50 51-0144 LED Lamps, PL Series (26 01 50 51-0112)		
26 01 50 51-0145 EA 3.5 Watt, 2-Pin CFL G23 Base, Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	21.01	
26 01 50 51-0146 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR).....	27.66	
26 01 50 51-0147 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR).....	23.32	
26 01 50 51-0148 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR).....	26.03	
26 01 50 51-0149 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR).....	26.03	
26 01 50 51-0150 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR).....	30.92	
26 01 50 51-0151 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR).....	26.03	
26 01 50 51-0152 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR).....	26.03	
26 01 50 51-0153 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR).....	26.03	
26 01 50 51-0154 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR).....	26.03	
26 01 50 51-0155 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR).....	29.29	
26 01 50 51-0156 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR).....	29.29	
26 01 50 51-0157 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR).....	29.29	
26 01 50 51-0158 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR).....	29.29	
26 01 50 51-0159 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR).....	27.66	
26 01 50 51-0160 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR).....	27.66	
26 01 50 51-0161 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR).....	27.66	
26 01 50 51-0162 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR).....	28.75	
26 01 50 51-0163 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR).....	28.75	
26 01 50 51-0164 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	28.99	
26 01 50 51-0165 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	28.99	
26 01 50 51-0166 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	28.99	
26 01 50 51-0167 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	28.99	
26 01 50 51-0168 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	29.84	
26 01 50 51-0169 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	29.84	
26 01 50 51-0170 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	29.84	
26 01 50 51-0171 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	29.84	
26 01 50 51-0172 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	29.84	
26 01 50 51-0173 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	29.84	
26 01 50 51-0174 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	29.84	
26 01 50 51-0175 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	29.84	
26 01 50 51-0176 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	38.32	
26 01 50 51-0177 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	38.32	
26 01 50 51-0178 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	38.32	
26 01 50 51-0179 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	36.36	
26 01 50 51-0180 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	36.36	
26 01 50 51-0181 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	36.36	
26 01 50 51-0182 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898).....	23.69	
26 01 50 51-0183 HID LED Lamps, Medium Base E26 (26 01 50 51-0112)		
26 01 50 51-0184 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	73.83	
26 01 50 51-0185 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	73.83	
26 01 50 51-0186 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	93.92	
26 01 50 51-0187 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	93.92	
26 01 50 51-0188 EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	63.45	
26 01 50 51-0189 EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	63.45	
26 01 50 51-0190 EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026).....	63.45	
26 01 50 51-0191 EA 10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026).....	63.45	
26 01 50 51-0192 EA 15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026).....	65.62	
26 01 50 51-0193 EA 15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026).....	65.62	
26 01 50 51-0194 EA 15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026).....	65.62	
26 01 50 51-0195 EA 15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026).....	65.62	
26 01 50 51-0196 EA 20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026).....	74.31	
26 01 50 51-0197 EA 20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026).....	74.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0198 EA 20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	74.31	
26 01 50 51-0199 EA 20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	74.31	
26 01 50 51-0200 EA 25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	85.17	
26 01 50 51-0201 EA 25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	85.17	
26 01 50 51-0202 EA 25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	85.17	
26 01 50 51-0203 EA 25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	85.17	
26 01 50 51-0204 EA 30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	109.07	
26 01 50 51-0205 EA 30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	109.07	
26 01 50 51-0206 EA 30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	109.07	
26 01 50 51-0207 EA 30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	109.07	
26 01 50 51-0208 EA 40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	129.70	
26 01 50 51-0209 EA 40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	129.70	
26 01 50 51-0210 EA 40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	129.70	
26 01 50 51-0211 EA 40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	129.70	
26 01 50 51-0212 EA 60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	143.82	
26 01 50 51-0213 EA 60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	143.82	
26 01 50 51-0214 EA 60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	143.82	
26 01 50 51-0215 EA 60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	143.82	
26 01 50 51-0216 EA 80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	194.87	
26 01 50 51-0217 EA 80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	194.87	
26 01 50 51-0218 EA 80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	194.87	
26 01 50 51-0219 EA 80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	194.87	
26 01 50 51-0220 EA 100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	201.39	
26 01 50 51-0221 EA 100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	201.39	
26 01 50 51-0222 EA 100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	201.39	
26 01 50 51-0223 EA 100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	201.39	
26 01 50 51-0224 EA 120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	239.40	
26 01 50 51-0225 EA 120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	239.40	
26 01 50 51-0226 EA 120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	239.40	
26 01 50 51-0227 EA 120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	239.40	
26 01 50 51-0228 EA 150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	285.02	
26 01 50 51-0229 EA 150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	285.02	
26 01 50 51-0230 EA 150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	285.02	
26 01 50 51-0231 EA 150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	285.02	
26 01 50 51-0232 EA 20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT40KMED-G6)	91.71	
26 01 50 51-0233 EA 20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT50KMED-G6)	99.31	
26 01 50 51-0234 EA 27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT40KMED-G5)	99.31	
26 01 50 51-0235 EA 27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT50KMED-G5)	91.71	
26 01 50 51-0236 EA 36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT40KMED-G5)	115.61	
26 01 50 51-0237 EA 36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT50KMED-G5)	105.83	
26 01 50 51-0238 EA 45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT40KMED-G5)	127.55	
26 01 50 51-0239 EA 45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT50KMED-G5)	126.27	
26 01 50 51-0240 EA 54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT40KMED-G5)	129.18	
26 01 50 51-0241 EA 54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT50KMED-G5)	129.18	
26 01 50 51-0242 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT40KMED-G7)	77.62	
26 01 50 51-0243 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT50KMED-G7)	77.62	
26 01 50 51-0244 EA 36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT40KMED-G7)	87.67	
26 01 50 51-0245 EA 36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT50KMED-G7)	87.67	
26 01 50 51-0246 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT40KMED-G7)	94.35	
26 01 50 51-0247 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT50KMED-G7)	94.35	
26 01 50 51-0248 EA 54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT40KMED-G7)	104.39	
26 01 50 51-0249 EA 54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT50KMED-G7)	104.39	
26 01 50 51-0250 EA 20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	104.91	
26 01 50 51-0251 EA 30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	113.81	
26 01 50 51-0252 EA 40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	141.94	
26 01 50 51-0253 EA 50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	156.50	
26 01 50 51-0254 EA 10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	60.59	
26 01 50 51-0255 EA 15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	68.41	
26 01 50 51-0256 EA 20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	72.32	
26 01 50 51-0257 EA 25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	79.60	
26 01 50 51-0258 EA 15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148015-UNV)	96.02	
26 01 50 51-0259 EA 20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148020-UNV)	112.74	
26 01 50 51-0260 EA 25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148025-UNV)	154.51	
26 01 50 51-0261 EA 30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148030-UNV)	162.86	
26 01 50 51-0262 EA 35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148035-UNV)	176.23	
26 01 50 51-0263 EA 40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148040-UNV)	184.58	
26 01 50 51-0264 EA 60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148060-UNV)	266.46	
26 01 50 51-0265 EA 20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-10D-20W-E26-50K)	70.15	
26 01 50 51-0266 HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0112)		
26 01 50 51-0267 EA 120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	254.22	
26 01 50 51-0268 EA 120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	254.22	
26 01 50 51-0269 EA 120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	254.22	
26 01 50 51-0270 EA 27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	73.83	
26 01 50 51-0271 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	73.83	
26 01 50 51-0272 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	73.83	
26 01 50 51-0273 EA 45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39)	93.92	
26 01 50 51-0274 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R)	93.92	
26 01 50 51-0275 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39)	93.92	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0276 EA 80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39)	175.37	
26 01 50 51-0277 EA 80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039)	194.87	
26 01 50 51-0278 EA 80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039)	194.87	
26 01 50 51-0279 EA 80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039)	194.87	
26 01 50 51-0280 EA 80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039)	194.87	
26 01 50 51-0281 EA 100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039)	201.39	
26 01 50 51-0282 EA 100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039)	201.39	
26 01 50 51-0283 EA 100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039)	201.39	
26 01 50 51-0284 EA 100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039)	201.39	
26 01 50 51-0285 EA 120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039)	239.40	
26 01 50 51-0286 EA 120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039)	239.40	
26 01 50 51-0287 EA 120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039)	239.40	
26 01 50 51-0288 EA 120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039)	239.40	
26 01 50 51-0289 EA 150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039)	285.02	
26 01 50 51-0290 EA 150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039)	285.02	
26 01 50 51-0291 EA 150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039)	285.02	
26 01 50 51-0292 EA 150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039)	285.02	
26 01 50 51-0293 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED27WPT40KMOG-G5)	99.31	
26 01 50 51-0294 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED27WPT50KMOG-G5)	99.31	
26 01 50 51-0295 EA 36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED36WPT40KMOG-G5)	115.61	
26 01 50 51-0296 EA 36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED36WPT50KMOG-G5)	114.11	
26 01 50 51-0297 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED45WPT40KMOG-G5)	127.55	
26 01 50 51-0298 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED45WPT50KMOG-G5)	126.27	
26 01 50 51-0299 EA 54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED54WPT40KMOG-G5)	129.18	
26 01 50 51-0300 EA 54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED54WPT50KMOG-G5)	125.40	
26 01 50 51-0301 EA 100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EIKO industries LED100WPT40KMOG-G5)	273.09	
26 01 50 51-0302 EA 20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EIKO industries LED20WPT/180/40KMOG-G7)	99.28	
26 01 50 51-0303 EA 20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EIKO industries LED20WPT/180/50KMOG-G7)	99.28	
26 01 50 51-0304 EA 30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EIKO industries LED30WPT/180/40KMOG-G7)	112.79	
26 01 50 51-0305 EA 30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EIKO industries LED30WPT/180/50KMOG-G7)	112.79	
26 01 50 51-0306 EA 40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EIKO industries LED40WPT/180/40KMOG-G7)	120.92	
26 01 50 51-0307 EA 40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EIKO industries LED40WPT/180/50KMOG-G7)	120.92	
26 01 50 51-0308 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EIKO industries LED27WPT40KMOG-G7)	77.49	
26 01 50 51-0309 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EIKO industries LED27WPT50KMOG-G7)	77.49	
26 01 50 51-0310 EA 36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EIKO industries LED36WPT40KMOG-G7)	87.67	
26 01 50 51-0311 EA 36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EIKO industries LED36WPT50KMOG-G7)	87.67	
26 01 50 51-0312 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EIKO industries LED45WPT40KMOG-G7)	94.35	
26 01 50 51-0313 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EIKO industries LED45WPT50KMOG-G7)	94.35	
26 01 50 51-0314 EA 54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EIKO industries LED54WPT40KMOG-G7)	104.39	
26 01 50 51-0315 EA 54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EIKO industries LED54WPT50KMOG-G7)	104.39	
26 01 50 51-0316 EA 65 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39)	188.97	
26 01 50 51-0317 EA 80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39)	218.73	
26 01 50 51-0318 EA 100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39)	261.09	
26 01 50 51-0319 EA 120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39)	510.52	
26 01 50 51-0320 EA 150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39)	482.03	
26 01 50 51-0321 EA 200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39)	510.52	
26 01 50 51-0322 EA 250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39)	512.74	
26 01 50 51-0323 EA 24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A)	76.99	
26 01 50 51-0324 EA 24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A)	76.99	
26 01 50 51-0325 EA 24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A)	76.99	
26 01 50 51-0326 EA 100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50)	228.43	
26 01 50 51-0327 EA 115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D)	336.64	
26 01 50 51-0328 EA 40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K)	182.10	
26 01 50 51-0329 EA 100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K)	214.10	
26 01 50 51-0330 EA 45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K)	95.74	
26 01 50 51-0331 EA 40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K)	237.48	
26 01 50 51-0332 LED Lamps, 2G11 Base (26 01 50 51-0112)		
26 01 50 51-0333 EA 19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR)	41.28	
26 01 50 51-0334 LED Lamps, GX23 Or G23 Base (26 01 50 51-0112)		
26 01 50 51-0335 EA 5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4)	21.51	
26 01 50 51-0336 LED Lamps, G24 Base (26 01 50 51-0112)		
26 01 50 51-0337 EA 5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R)	27.24	
26 01 50 51-0338 LED Tubes (Fluorescent Lamp Replacement) (26 01 50 51-0112)		
26 01 50 51-0339 EA 2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K)	37.27	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0340 EA 2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K)	47.57	
For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0341 EA 3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K)	40.12	
For Multiple Lamps In Fixture, Deduct	-3.90	



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26 01 50 51-0342	EA	4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	43.82	
		For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0343	EA	4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K)	47.68	
		For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0344	EA	4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN)	31.28	
		For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0345	EA	2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN)	29.88	
		For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0346	EA	2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	27.49	
		For Multiple Lamps In Fixture, Deduct	-3.67	
26 01 50 51-0347	EA	3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	28.11	
		For Multiple Lamps In Fixture, Deduct	-3.90	
26 01 50 51-0348	EA	4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	28.31	
		For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0349	EA	4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	29.22	
		For Multiple Lamps In Fixture, Deduct	-4.13	
26 01 50 51-0350 Filament LED Lamps (26 01 50 51-0112)				
26 01 50 51-0351	EA	7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827)	23.53	
26 01 50 51-0352	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R)	23.53	
26 01 50 51-0353	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827)	22.45	
26 01 50 51-0354	EA	4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	22.45	
26 01 50 51-0355	EA	4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827)	24.19	
26 01 50 51-0356	EA	4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A)	24.19	
26 01 50 51-0357	EA	3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827)	20.28	
26 01 50 51-0358	EA	3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	20.28	
26 01 50 51-0359	EA	3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	20.93	
26 01 50 51-0360	EA	3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A)	25.71	
26 01 50 51-0361	EA	4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	20.93	
26 01 50 51-0362 Other Lamps (26 01 50 51-0112)				
26 01 50 51-0363	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1)	22.27	
26 01 50 51-0364	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	22.27	
26 01 50 51-0365	EA	11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	22.27	
26 01 50 51-0366	EA	12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1)	23.36	
26 01 50 51-0367	EA	13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1)	23.36	
26 01 50 51-0368	EA	8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1)	23.36	
26 01 50 51-0369 Recycle Hazardous Lamps (26 01 50 51)				
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.				
26 01 50 51-0370	EA	Recycle 2' Length Linear Fluorescent Lamps	0.38	
26 01 50 51-0371	EA	Recycle 3' Length Linear Fluorescent Lamps	0.57	
26 01 50 51-0372	EA	Recycle 4' Length Linear Fluorescent Lamps	0.76	
26 01 50 51-0373	EA	Recycle 6' Length Linear Fluorescent Lamps	1.14	
26 01 50 51-0374	EA	Recycle 8' Length Linear Fluorescent Lamps	1.52	
26 01 50 51-0375	EA	Recycle Compact Fluorescent Lamps	0.68	
26 01 50 51-0376	EA	Recycle U-Shaped Or Circular Fluorescent Lamps	0.68	
26 01 50 51-0377	EA	Recycle High Intensity Discharge (HID) Lamps	2.37	
26 01 50 52 Ballasts Replacement (26 01 50)				
26 01 50 52-0001 Retrofit For Existing Ballasts, In Place (26 01 50 52)				
Note: Excludes ballast removal or recycling fees.				
26 01 50 52-0002 Instant Start Ballast (26 01 50 52-0001)				
26 01 50 52-0003	EA	Instant Start Ballast, 1 Lamp, Low Power; General Electric (UltraMax); GE-132-MAX-L/Ultra	91.15	
26 01 50 52-0004	EA	Instant Start Ballast, 1 Lamp, Low Power; Sylvania (High Efficiency); QHE 1x32T8/UNV ISL-SC.....	94.00	
26 01 50 52-0005	EA	Instant Start Ballast, 1 Lamp, Low Power; General Electric (Professional); QTP1X32T8/UNV ISL-SC.....	88.08	
26 01 50 52-0006	EA	Instant Start Ballast, 1 Lamp, Normal Power; General Electric (UltraMax); GE-132-MAX-N/Ultra.....	91.15	
26 01 50 52-0007	EA	Instant Start Ballast, 1 Lamp, Normal Power; Sylvania (High Efficiency); QHE 1x32T8/UNV ISN-SC	89.58	
26 01 50 52-0008	EA	Instant Start Ballast, 1 Lamp, Normal Power; Sylvania (Professional); QTP1X32T8/UNV ISN-SC	88.08	
26 01 50 52-0009	EA	Instant Start Ballast, 1 Lamp, High Power; Advance (Standard); REL-1P32-HL-SC	92.69	
26 01 50 52-0010	EA	Instant Start Ballast, 1 Lamp, High Power; Sylvania (High Efficiency); QHE 1X32T8/UNV ISH-SC	102.94	
26 01 50 52-0011	EA	Instant Start Ballast, 1 Lamp, High Power; Sylvania (Professional); QTP1X32T8/UNV ISH-SC	99.94	
26 01 50 52-0012	EA	Instant Start Ballast, 2 Lamp, Low Power; Advance (Optanium); ROP-2P32-LW-SC	91.15	
26 01 50 52-0013	EA	Instant Start Ballast, 2 Lamp, Low Power; General Electric (UltraMax); GE-232-MAX-L/Ultra	95.26	
26 01 50 52-0014	EA	Instant Start Ballast, 2 Lamp, Low Power; Sylvania (High Efficiency); QHE 2x32T8/UNV ISL-SC.....	94.00	
26 01 50 52-0015	EA	Instant Start Ballast, 2 Lamp, Normal Power; Advance (Optanium); ROP-2P32-SC	95.26	
26 01 50 52-0016	EA	Instant Start Ballast, 2 Lamp, Normal Power; General Electric (UltraMax); GE-232-MAX-N/Ultra.....	95.26	
26 01 50 52-0017	EA	Instant Start Ballast, 2 Lamp, Normal Power; Sylvania (High Efficiency); QHE 2x32T8/UNV ISN-SC	128.40	
26 01 50 52-0018	EA	Instant Start Ballast, 2 Lamp, High Power; Advance (Standard); REL-2P32-HL-SC	103.09	
26 01 50 52-0019	EA	Instant Start Ballast, 2 Lamp, High Power; General Electric (UltraMax); GE-232-MAX-H/Ultra.....	97.31	
26 01 50 52-0020	EA	Instant Start Ballast, 2 Lamp, High Power; Sylvania (High Efficiency); QHE 2X32T8/UNV ISH-SC.....	102.94	
26 01 50 52-0021	EA	Instant Start Ballast, 3 Lamp, Low Power; Advance (Optanium); ROP-3P32-LW-SC	97.31	
26 01 50 52-0022	EA	Instant Start Ballast, 3 Lamp, Low Power; General Electric (UltraMax); GE-332-MAX-L/Ultra	97.31	

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26 01 50 52-0023 EA Instant Start Ballast, 3 Lamp, Low Power; Sylvania (High Efficiency); QHE 3x32T8/UNV ISL-SC	103.72	
26 01 50 52-0024 EA Instant Start Ballast, 3 Lamp, Normal Power; Advance (Optanium); ROP-3P32-SC	97.31	
26 01 50 52-0025 EA Instant Start Ballast, 3 Lamp, Normal Power; General Electric (UltraMax); GE-332-MAX-N/Ultra	97.31	
26 01 50 52-0026 EA Instant Start Ballast, 3 Lamp, Normal Power; Sylvania (High Efficiency); QHE 3x32T8/UNV ISN-SC	103.72	
26 01 50 52-0027 EA Instant Start Ballast, 3 Lamp, High Power; Advance (Optanium); REL-3P32-HL-SC	103.28	
26 01 50 52-0028 EA Instant Start Ballast, 3 Lamp, High Power; General Electric (UltraMax); GE-332-MAX-H/Ultra	99.27	
26 01 50 52-0029 EA Instant Start Ballast, 3 Lamp, High Power; Sylvania (High Efficiency); QHE 3X32T8/UNV ISH-SC	113.00	
26 01 50 52-0030 EA Instant Start Ballast, 4 Lamp, Low Power; Advance (Optanium); ROP-4P32-LW-SC	94.79	
26 01 50 52-0031 EA Instant Start Ballast, 4 Lamp, Low Power; Sylvania (High Efficiency); QHE 4x32T8/UNV ISL-SC	106.89	
26 01 50 52-0032 EA Instant Start Ballast, 4 Lamp, Low Power; Sylvania (Professional) QTP4X32T8/UNV ISL-SC	100.98	
26 01 50 52-0033 EA Instant Start Ballast, 4 Lamp, Normal Power; Advance (Optanium); ROP-4P32-SC	100.05	
26 01 50 52-0034 EA Instant Start Ballast, 4 Lamp, Normal Power; General Electric (UltraMax); GE-432-MAX-N/Ultra	101.32	
26 01 50 52-0035 EA Instant Start Ballast, 4 Lamp, Normal Power; Sylvania (High Efficiency); QHE 4x32T8/UNV ISN-SC	106.89	
26 01 50 52-0036 EA Instant Start Ballast, 4 Lamp, High Power; Advance (Optanium); ROP-4P32-HL-90C	114.74	
26 01 50 52-0037 EA Instant Start Ballast, 4 Lamp, High Power; General Electric (UltraMax); GE-432-MAX-H/Ultra	99.27	
26 01 50 52-0038 EA Instant Start Ballast, 4 Lamp, High Power; Sylvania (High Efficiency); QHE 4X32T8/UNV ISH-SC	114.03	
26 01 50 52-0039 Program Rapid Start Ballast (26 01 50 52-0001)		
26 01 50 52-0040 EA Program Rapid Start Ballast, 1 Lamp, Normal Power; Sylvania (Quicktronic PROStart); QTP 1X32T8/UNV PSN-TC	110.94	
26 01 50 52-0041 EA Program Rapid Start Ballast, 2 Lamp, Normal Power; Advance (Optanium); IOP-2S32-SC	111.58	
26 01 50 52-0042 EA Program Rapid Start Ballast, 2 Lamp, Normal Power; General Electric (UltraStart); GE-232-120-PS-N	116.33	
26 01 50 52-0043 EA Program Rapid Start Ballast, 2 Lamp, Normal Power; Sylvania (Quicktronic PROStart); QTP 2X32T8/UNV PSN-TC	110.94	
26 01 50 52-0044 EA Program Rapid Start Ballast, 3 Lamp, Normal Power; Sylvania (Quicktronic PROStart); QTP 3X32T8/UNV PSN-TC	125.71	
26 01 50 52-0045 EA Program Rapid Start Ballast, 4 Lamp, Normal Power; General Electric (UltraStart); GE-432-120-PS-N	124.73	
26 01 50 52-0046 EA Program Rapid Start Ballast, 4 Lamp, Normal Power; Sylvania (Quicktronic PROStart); QTP 4X32T8/UNV PSN-TC	127.47	
26 01 50 52-0047 Dimming Ballast, To 5% (26 01 50 52-0001)		
26 01 50 52-0048 EA Dimming to 5% Ballast, 1 Lamp, Normal Power; Sylvania (Quicktronic Powersense); QTP 1X32T8/UNV DIM-TC	179.80	
26 01 50 52-0049 EA Dimming to 5% Ballast, 1 Lamp, Normal Power; General Electric; B132R120V5	182.93	
26 01 50 52-0050 EA Dimming to 5% Ballast, 2 Lamp, Normal Power; Sylvania (Quicktronic Powersense); QTP 2X32T8/UNV DIM-TC	179.80	
26 01 50 52-0051 EA Dimming to 5% Ballast, 2 Lamp, Normal Power; General Electric; B232SR120V5	185.07	
26 01 50 52-0052 EA Dimming to 5% Ballast, 3 Lamp, Normal Power; Sylvania (Quicktronic Powersense); QTP 3X32T8/UNV DIM-TC	222.97	
26 01 50 52-0053 EA Dimming to 5% Ballast, 3 Lamp, Normal Power; General Electric; B332SR120V5	214.17	
26 01 50 52-0054 EA Dimming to 5% Ballast, 4 Lamp, Normal Power; Sylvania (Quicktronic Powersense); QTP 4X32T8/UNV DIM-TC	253.64	
26 01 50 52-0055 Magnetic Rapid Start Ballast (26 01 50 52-0001)		
26 01 50 52-0056 EA Magnetic Rapid Start Ballast, 1 Lamp, Low Power; Sylvania; MB1x25/32/120RS-LW	111.86	
26 01 50 52-0057 EA Magnetic Rapid Start Ballast, 1 Lamp, Normal Power; Sylvania; MB1x25/32/120RS-SRNL	98.79	
26 01 50 52-0058 EA Magnetic Rapid Start Ballast, 2 Lamp, Normal Power; Sylvania; MB2x25/32/120RS-SRNL	98.79	
26 01 50 52-0059 Slimline Instant Start Ballast (26 01 50 52-0001)		
26 01 50 52-0060 EA Slimline Instant Start Ballast, 2 Lamp, Normal Power; Advance (Standard); REL-2P59-SC	102.15	
26 01 50 52-0061 EA Slimline Instant Start Ballast, 2 Lamp, Normal Power; Advance (Centium); RCN-2P59	106.06	
26 01 50 52-0062 Emergency Ballast (26 01 50 52-0001)		
Note: Bodine		
26 01 50 52-0063 EA One Lamp, 350-450 Lumens, Code Compliance, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B100)	170.59	27.80
For Factory Installation In New Fixtures, Deduct		-55.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.67
26 01 50 52-0064 EA Two Lamp, 600-700 Lumens, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B60)	270.71	34.73
For Factory Installation In New Fixtures, Deduct		-58.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.51
26 01 50 52-0065 EA One Or Two Lamp, 1,100-1,400 Lumens, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B50)	332.10	34.73
For Factory Installation In New Fixtures, Deduct		-58.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.51
26 01 50 52-0066 EA One Or Two Lamp, 600-700 Lumens, Two Hour Illumination, Fluorescent Emergency Ballast (Bodine B70A)	250.19	34.73
For Factory Installation In New Fixtures, Deduct		-58.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.51
26 01 50 52-0067 EA Two Or Three Lamp, 2,700-3,400 Lumens, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B33)	1,109.28	41.68
For Factory Installation In New Fixtures, Deduct		-61.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		18.34
26 01 50 52-0068 EA One Lamp, 225-450 Lumens, Four Hour Illumination, Fluorescent Emergency Ballast (Bodine B54)	335.77	27.80
For Factory Installation In New Fixtures, Deduct		-55.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.67
26 01 50 52-0069 EA One Or Two Lamp, 325-1,000 Lumens, Ninety Minute Illumination, Compact Fluorescent Emergency Ballast (Bodine B84CG)	552.26	34.73
For Factory Installation In New Fixtures, Deduct		-58.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.51



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26 01 50 52-0070 EA One Or Two Lamp, 300-750 Lumens, Ninety Minute Illumination, Compact Fluorescent Emergency Ballast (Bodine B94CG).....	311.88	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0071 EA One Lamp, 200-625 Lumens, Ninety Minute Illumination, Damp Location, Compact Fluorescent Emergency Ballast (Bodine B413).....	418.04	27.80
For Factory Installation In New Fixtures, Deduct	-55.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67	
26 01 50 52-0072 EA One Lamp, 300-650 Lumens, Damp Location, Ninety Minute Illumination, Compact Fluorescent Emergency Ballast (Bodine B463).....	327.94	27.80
For Factory Installation In New Fixtures, Deduct	-55.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67	
26 01 50 52-0073 EA One Or Two Lamp, 450-950 Lumens, Ninety Minute Illumination, Damp Location, Compact Fluorescent Emergency Ballast (Bodine B426).....	369.06	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0074 EA One Or Two Lamp, 1,100-1,400 Lumens, Ninety Minute Illumination, Damp Location, Fluorescent Emergency Ballast (Bodine BDL500).....	397.94	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0075 EA Two Lamp, 600-700 Lumens, Damp Location, Fluorescent Emergency Ballast (Bodine BDL600).....	337.72	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0076 EA One Lamp, 600-700 Lumens, Two Hour Illumination, Fluorescent Emergency Ballast (Bodine BDL700).....	341.76	27.80
For Factory Installation In New Fixtures, Deduct	-55.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67	
26 01 50 52-0077 EA One Lamp, 500-600 Lumens, Damp Location, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine BDL900).....	300.01	27.80
For Factory Installation In New Fixtures, Deduct	-55.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67	
26 01 50 52-0078 EA One Or Two Lamp, 300-750 Lumens, Damp Location, Ninety Minute Illumination, Compact Fluorescent Emergency Ballast (Bodine BDL94C).....	311.88	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0079 EA One Lamp, 450 Lumens, Low Profile, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine LP400).....	304.51	27.80
For Factory Installation In New Fixtures, Deduct	-55.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67	
26 01 50 52-0080 EA One Or Two Lamp, 1,100-1,400 Lumens, Self Testing, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B50ST).....	543.87	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0081 EA One Or Two Lamp, 1,800-3,500 Lumens, Self Testing, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B30ST).....	675.57	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0082 EA One Or Two Lamp, 1,450-3,500 Lumens, Remote Control Testing, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B30RCT).....	1,248.44	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0083 EA One Or Two Lamp, 1,100-1,400 Lumens, Remote Control Testing, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B50RCT).....	872.74	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0084 EA One Or Two Lamp, 1,100-3,100 Lumens, Central Battery, Fluorescent Emergency Ballast With Voltage Sensing Circuit (Bodine CB90-48).....	452.69	34.73
For Factory Installation In New Fixtures, Deduct	-58.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.51	
26 01 50 52-0085 EA One Lamp, 1,050-3,200 Lumens, Interim Lighting For Generator Backup, Five Minute Illumination, Fluorescent Emergency Ballast (Bodine GEN1).....	580.66	27.80
For Factory Installation In New Fixtures, Deduct	-55.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67	
26 01 50 52-0086 EA 250 Watt, Self-Diagnostic, Ninety Minute Illumination, Fluorescent Emergency Lighting Inverter (Bodine ELI-250-SD).....	3,169.82	34.73
For Factory Installation In New Fixtures, Deduct	-55.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67	
26 01 50 52-0087 Owner Supplied Ballasts (26 01 50 52)		
26 01 50 52-0088 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	27.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.34	
26 01 50 52-0089 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	34.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.42	
26 01 50 52-0090 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	40.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.09	
26 01 50 52-0091 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	43.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.92	
26 01 50 52-0092 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	48.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0093 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	51.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.43	
26 01 50 52-0094 High Intensity Discharge (HID) Ballasts (26 01 50 52)		
26 01 50 52-0095 Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0094)		

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0096		Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0097		Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0096)		
26 01 50 52-0098	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	176.79	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0099	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	180.93	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0100	EA	1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	180.93	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0101	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	169.13	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0102	EA	1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	169.13	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0103	EA	1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	248.21	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0104	EA	1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	248.21	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0105	EA	1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	317.85	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0106	EA	1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	353.38	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0107		High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0096)		
26 01 50 52-0108	EA	1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	160.41	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0109	EA	1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	169.68	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0110	EA	1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	165.68	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0111	EA	1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	193.53	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0112	EA	1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	189.55	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0113	EA	1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	215.39	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0114	EA	1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	215.39	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0115	EA	1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	258.38	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0116	EA	1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	258.38	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0117	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	409.21	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0118	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	409.21	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0119		Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0096)		
26 01 50 52-0120	EA	Single Mounting Bracket For Core And Coil Type	18.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 01 50 52-0121	EA	Double Mounting Bracket For Core And Coil Type	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 01 50 52-0122		F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0123		Metal Halide, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0122)		
26 01 50 52-0124	EA	1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	222.43	34.73
		For Pulse Start Ballast, Add	17.38	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0125	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	233.93	34.73
		For Pulse Start Ballast, Add	18.53	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0126	EA	1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	213.73	34.73
		For Pulse Start Ballast, Add	16.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0127	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	246.92	34.73
		For Pulse Start Ballast, Add	19.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0128	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	339.95	34.73
		For Pulse Start Ballast, Add	29.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	
26 01 50 52-0129		High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0122)		
26 01 50 52-0130	EA	1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	266.00	34.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.59	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0131 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	283.92 14.59	34.73
26 01 50 52-0132 Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0133 Metal Halide, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0132)		
26 01 50 52-0134 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	437.79 14.59	34.73
26 01 50 52-0135 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0132)		
26 01 50 52-0136 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	670.43 14.56	34.66
26 01 50 52-0137 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	746.82 14.56	34.66
26 01 50 52-0138 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	720.39 14.56	34.66
26 01 50 52-0139 Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0140 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0139)		
26 01 50 52-0141 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	537.30 14.59	34.73
26 01 50 52-0142 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	608.83 14.59	34.73
26 01 50 52-0143 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	801.75 14.59	34.73
26 01 50 52-0144 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	797.60 14.59	34.73
26 01 50 52-0145 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,114.94 15.43	37.52
26 01 50 52-0146 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,114.94 15.43	37.52
26 01 50 52-0147 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	769.21 14.59	34.73
26 01 50 52-0148 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	903.66 14.59	34.73
26 01 50 52-0149 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0139)		
26 01 50 52-0150 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	996.12 14.59	34.73
26 01 50 52-0151 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	948.73 14.59	34.73
26 01 50 52-0152 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,217.39 14.59	34.73
26 01 50 52-0153 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,217.39 14.59	34.73
26 01 50 52-0154 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0155 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0154)		
26 01 50 52-0156 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	602.85 14.59	34.73
26 01 50 52-0157 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	650.59 14.59	34.73
26 01 50 52-0158 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	645.89 14.59	34.73
26 01 50 52-0159 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	677.88 14.59	34.73
26 01 50 52-0160 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,073.23 15.43	37.52
26 01 50 52-0161 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,317.48 15.43	37.52
26 01 50 52-0162 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,001.67 14.59	34.73
26 01 50 52-0163 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	912.61 14.59	34.73
26 01 50 52-0164 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0154)		
26 01 50 52-0165 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	776.10 14.59	34.73

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0166 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 836.31 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0167 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... 1,245.18 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0168 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... 1,072.43 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0169 Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0094)		
26 01 50 52-0170 Electronic Low Frequency High Intensity Discharge (HID) Ballasts (26 01 50 52-0169)		
26 01 50 52-0171 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast..... 245.33 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0172 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast..... 245.33 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0173 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast..... 275.51 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0174 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast..... 698.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0175 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast..... 698.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0176 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast..... 698.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0177 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast..... 698.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 52-0178 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast..... 698.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.59		34.73
26 01 50 53 Lens and Accessory Replacement (26 01 50)		
26 01 50 53-0001 Lens and Accessory Replacement (26 01 50 53)		
26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver 86.69		
26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures 202.36		
26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole 219.37		
26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures..... 96.89		
26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser..... 33.96		
26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser..... 34.96		
26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser..... 39.30		
26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder..... 15.44 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.16		
26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder..... 15.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.16		
26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder 16.92 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.16		
26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type 18.96 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.16		
26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type..... 20.29 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.16		
26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in 16.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.16		
26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes 60.21		
26 01 50 81 Luminaire Replacement (26 01 50)		
26 01 50 81-0001 Retrofit Lighting Fixtures (26 01 50 81)		
26 01 50 81-0002 LED Lighting Retrofits For Existing Fixtures (26 01 50 81-0001)		
26 01 50 81-0003 LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) (26 01 50 81-0002) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0004 EA 7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927)..... 118.92		
26 01 50 81-0005 EA 7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930)..... 118.92		
26 01 50 81-0006 EA 7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940)..... 118.92		
26 01 50 81-0007 EA 4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827) 99.01		
26 01 50 81-0008 EA 4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830) 99.01		
26 01 50 81-0009 EA 4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840) 99.01		
26 01 50 81-0010 EA 6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827) 107.40		
26 01 50 81-0011 EA 6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830) 107.40		
26 01 50 81-0012 EA 6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840) 107.40		
26 01 50 81-0013 LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) (26 01 50 81-0002) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0014 EA 2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w)..... 339.39		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0015 EA 3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w)	351.97	
26 01 50 81-0016 EA 4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w)	364.54	
26 01 50 81-0017 EA 5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w)	379.89	
26 01 50 81-0018 EA 6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w)	416.56	
26 01 50 81-0019 EA 7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w)	431.91	
26 01 50 81-0020 EA 8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w)	466.49	
26 01 50 81-0021 EA 9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w)	479.06	
26 01 50 81-0022 EA 10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w)	494.42	
26 01 50 81-0023 EA 11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w)	517.47	
26 01 50 81-0024 EA 12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w)	542.25	
26 01 50 81-0025 EA 13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w)	566.35	
26 01 50 81-0026 EA 14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w)	578.93	
26 01 50 81-0027 EA 16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w)	599.88	
26 01 50 81-0028 EA 17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w)	624.99	
26 01 50 81-0029 EA 18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w)	651.19	
26 01 50 81-0030 EA 19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w)	691.01	
26 01 50 81-0031 EA 20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w)	708.82	
26 01 50 81-0032 EA 21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w)	739.90	
26 01 50 81-0033 EA 22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w)	780.77	
26 01 50 81-0034 EA 23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w)	801.72	
26 01 50 81-0035 EA 24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w)	851.98	
26 01 50 81-0036 EA 25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w)	898.09	
26 01 50 81-0037 EA 26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w)	930.21	
26 01 50 81-0038 EA 27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w)	975.27	
26 01 50 81-0039 EA 28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w)	1,062.92	
26 01 50 81-0040 EA 29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w)	1,073.40	
26 01 50 81-0041 EA 31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w)	1,100.62	
26 01 50 81-0042 LED Lighting Retrofits For Existing Fixtures (Optilumen) (26 01 50 81-0002)		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling. 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0043 EA 20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35)	146.86	
Note: Fits 1' x 4' Troffer/Strip		
26 01 50 81-0044 EA 20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40)	146.86	
Note: Fits 1' x 4' Troffer/Strip		
26 01 50 81-0045 EA 20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50)	146.86	
Note: Fits 1' x 4' Troffer/Strip		
26 01 50 81-0046 EA 30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35)	152.10	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0047 EA 2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40)	152.10	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0048 EA 2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50)	152.10	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0049 EA 2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35)	162.58	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0050 EA 2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40)	162.58	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0051 EA 2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50)	162.58	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0052 EA 3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35)	152.10	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0053 EA 3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40)	152.10	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0054 EA 3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50)	152.10	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0055 EA 3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35)	162.58	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0056 EA 3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40)	162.58	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0057 EA 3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50)	162.58	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0058 EA 3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35)	183.54	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0059 EA 3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40)	183.54	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0060 EA 3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50)	183.54	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0061 EA 1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35)	146.86	
Note: Fits 1' x 2' Troffer/Strip		
26 01 50 81-0062 EA 1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40)	146.86	
Note: Fits 1' x 2' Troffer/Strip		
26 01 50 81-0063 EA 1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50)	146.86	
Note: Fits 1' x 2' Troffer/Strip		
26 01 50 81-0064 EA 2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35)	146.86	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0065 EA 2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40)	146.86	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0066 EA 2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50)	146.86	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0067 EA 3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35)	152.10	
Note: Fits 2' x 2' Troffer/Strip		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0068 EA 3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40) 152.10 Note: Fits 2' x 2' Troffer/Strip	152.10	
26 01 50 81-0069 EA 3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50) 152.10 Note: Fits 2' x 2' Troffer/Strip	152.10	
26 01 50 81-0070 EA 3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35) 158.39 Note: Fits 2' x 2' Troffer/Strip	158.39	
26 01 50 81-0071 EA 3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40) 158.39 Note: Fits 2' x 2' Troffer/Strip	158.39	
26 01 50 81-0072 EA 3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50) 158.39 Note: Fits 2' x 2' Troffer/Strip	158.39	
26 01 50 81-0073 LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) (26 01 50 81-0002) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0074 EA 34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN).....319.97	319.97	
26 01 50 81-0075 EA 34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN).....319.97	319.97	
26 01 50 81-0076 EA 26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN).....289.59	289.59	
26 01 50 81-0077 EA 26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN).....289.59	289.59	
26 01 50 81-0078 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV) 148.32 Note: No sensor, ZigBee ready driver	148.32	
26 01 50 81-0079 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV) 148.32 Note: No sensor, ZigBee ready driver	148.32	
26 01 50 81-0080 EA 31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV) 168.23 Note: No sensor, ZigBee ready driver	168.23	
26 01 50 81-0081 EA 31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV) 168.23 Note: No sensor, ZigBee ready driver	168.23	
26 01 50 81-0082 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV) 182.90 Note: Factory installed sensor and ZigBee dongle	182.90	
26 01 50 81-0083 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV) 182.90 Note: Factory installed sensor and ZigBee dongle	182.90	
26 01 50 81-0084 EA 31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV) 188.14 Note: Factory installed sensor and ZigBee dongle	188.14	
26 01 50 81-0085 EA 31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV) 188.14 Note: Factory installed sensor and ZigBee dongle	188.14	
26 01 50 81-0086 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120) 117.93 Note: No sensor, ZigBee ready driver	117.93	
26 01 50 81-0087 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120) 117.93 Note: No sensor, ZigBee ready driver	117.93	
26 01 50 81-0088 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880) 130.50 Note: No sensor, ZigBee ready driver	130.50	
26 01 50 81-0089 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880) 130.50 Note: No sensor, ZigBee ready driver	130.50	
26 01 50 81-0090 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L) 121.07 Note: No sensor, ZigBee ready driver	121.07	
26 01 50 81-0091 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L) 121.07 Note: No sensor, ZigBee ready driver	121.07	
26 01 50 81-0092 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L) 133.65 Note: No sensor, ZigBee ready driver	133.65	
26 01 50 81-0093 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L) 133.65 Note: No sensor, ZigBee ready driver	133.65	
26 01 50 81-0094 EA 6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450) 120.02 Note: No sensor, ZigBee ready driver	120.02	
26 01 50 81-0095 EA 6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450) 120.02 Note: No sensor, ZigBee ready driver	120.02	
26 01 50 81-0096 EA 8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000) 129.46 Note: No sensor, ZigBee ready driver	129.46	
26 01 50 81-0097 EA 8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000) 129.46 Note: No sensor, ZigBee ready driver	129.46	
26 01 50 81-0098 LED Lighting Retrofit Accessories (LG) (26 01 50 81-0002) See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0099 EA Dongle (LG LGE-DONGLE) 22.08	22.08	
26 01 50 81-0100 EA 1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B).....119.89	119.89	15.82
26 01 50 81-0101 EA 2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B).....126.21	126.21	18.97
26 01 50 81-0102 EA 1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B) 151.42	151.42	15.82
26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B) 157.74	157.74	18.97
26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....80.47	80.47	12.65
26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP) 31.79	31.79	12.65
26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE) 33.64	33.64	12.65
26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A) 79.71	79.71	18.97
Note: includes dongle		
26 01 50 81-0108 Retrofit Existing (T12) Fluorescent Fixtures (26 01 50 81-0001) Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal, 26 01 50 51-0369 for hazardous lamp recycling.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0109 Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector ^(26 01 50 81-0109) Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp..... <i>For Specular Ballast Cover, Add</i>	98.57 10.01	
26 01 50 81-0111 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	103.57 11.01	
26 01 50 81-0112 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	137.03 17.70	
26 01 50 81-0113 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps <i>For Specular Ballast Cover, Add</i>	154.19 21.13	
26 01 50 81-0114 Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector ^(26 01 50 81-0108) Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp..... <i>For Specular Reflector, Add</i>	103.49 17.05	
26 01 50 81-0116 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	109.08 17.05	
26 01 50 81-0117 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	143.92 17.05	
26 01 50 81-0118 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps <i>For Specular Reflector, Add</i>	177.76 17.05	
26 01 50 81-0119 Retrofit Existing (T12) Troffer Style Fluorescent Fixtures ^(26 01 50 81-0108) Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps <i>For Specular Reflector, Add</i>	130.16 17.05	
26 01 50 81-0121 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps <i>For Specular Reflector, Add</i>	135.16 17.05	
26 01 50 81-0122 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps <i>For Specular Reflector, Add</i>	138.33 17.05	
26 01 50 81-0123 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps <i>For Specular Reflector, Add</i>	152.43 17.05	
26 01 50 81-0124 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps <i>For Specular Reflector, Add</i>	180.27 17.05	
26 01 50 81-0125 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps <i>For Specular Reflector, Add</i>	141.06 17.05	
26 01 50 81-0126 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps <i>For Specular Reflector, Add</i>	152.58 17.05	
26 01 50 81-0127 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps <i>For Specular Reflector, Add</i>	162.16 17.05	
26 01 50 81-0128 Retrofit Existing Recessed Lay-In/Troffer Fixtures ^(26 01 50 81-0001)		
26 01 50 81-0129 Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) ^(26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0130 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.35	
26 01 50 81-0131 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.35	
26 01 50 81-0132 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.35	
26 01 50 81-0133 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	172.99	
26 01 50 81-0134 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	160.35	
26 01 50 81-0135 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	160.35	
26 01 50 81-0136 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	160.35	
26 01 50 81-0137 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	172.99	
26 01 50 81-0138 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.07	
26 01 50 81-0139 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.07	
26 01 50 81-0140 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.07	
26 01 50 81-0141 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	173.71	
26 01 50 81-0142 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.07	
26 01 50 81-0143 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.07	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0144	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	161.07	
26 01 50 81-0145	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	173.71	
26 01 50 81-0146		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) (26 01 50 81-0128) Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0147	EA	2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025)	217.19	
26 01 50 81-0148	EA	4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045)	225.79	
26 01 50 81-0149		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) (26 01 50 81-0128) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0150	EA	1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L)	302.57	
26 01 50 81-0151	EA	2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L)	309.44	
26 01 50 81-0152	EA	2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L)	302.57	
26 01 50 81-0153	EA	3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L)	309.44	
26 01 50 81-0154	EA	3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L)	343.75	
26 01 50 81-0155	EA	4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L)	354.04	
26 01 50 81-0156	EA	5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L)	378.06	
26 01 50 81-0157		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) (26 01 50 81-0128) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0158	EA	3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST)	281.57	
26 01 50 81-0159	EA	3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST)	291.15	
26 01 50 81-0160	EA	3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST)	294.01	
26 01 50 81-0161	EA	3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST)	303.59	
26 01 50 81-0162	EA	2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST)	216.97	
26 01 50 81-0163	EA	4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST)	221.51	
26 01 50 81-0164	EA	3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST)	228.79	
26 01 50 81-0165	EA	4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST)	233.33	
26 01 50 81-0166	EA	6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST)	284.25	
26 01 50 81-0167	EA	8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST)	335.17	
26 01 50 81-0168		Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) (26 01 50 81-0128) Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0169	EA	1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	250.79	
26 01 50 81-0170	EA	1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	191.97	
26 01 50 81-0171	EA	2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	256.77	
26 01 50 81-0172	EA	2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	197.86	
26 01 50 81-0173	EA	3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	267.90	
26 01 50 81-0174	EA	3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	213.57	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0175	EA	1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	293.68	
26 01 50 81-0176	EA	1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	234.69	
26 01 50 81-0177	EA	2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	299.31	
26 01 50 81-0178	EA	2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	240.33	
26 01 50 81-0179	EA	3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	310.36	
26 01 50 81-0180	EA	3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	256.00	
26 01 50 81-0181		LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) (26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0182	EA	3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....	543.44	
26 01 50 81-0183	EA	4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....	601.89	
26 01 50 81-0184		Retrofit Existing HID Fixtures (26 01 50 81-0001)		
26 01 50 81-0185	EA	Tear Drop LED Retrofit Kit (Holophane LTDRL2 P35S 40K AS BK TDRD 3 P).....	1,225.47	
26 01 50 81-0186		LED Lighting Retrofits For Existing Fluorescent Fixtures (26 01 50 81-0001) Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0187		LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0186)		
26 01 50 81-0188	EA	2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT).....	131.48	
		For >25 To 50, Deduct	-6.57	
		For >50 To 100, Deduct	-11.42	
		For >100, Deduct	-19.39	
26 01 50 81-0189	EA	2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT).....	190.71	
		For >25 To 50, Deduct	-9.54	
		For >50 To 100, Deduct	-15.86	
		For >100, Deduct	-25.31	
26 01 50 81-0190	EA	3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	142.98	
		For >25 To 50, Deduct	-7.15	
		For >50 To 100, Deduct	-12.37	
		For >100, Deduct	-20.88	
26 01 50 81-0191	EA	3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT).....	131.43	
		For >25 To 50, Deduct	-6.57	
		For >50 To 100, Deduct	-11.50	
		For >100, Deduct	-19.73	
26 01 50 81-0192	EA	4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	171.98	
		For >25 To 50, Deduct	-8.60	
		For >50 To 100, Deduct	-14.63	
		For >100, Deduct	-24.13	
26 01 50 81-0193	EA	4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	223.30	
		For >25 To 50, Deduct	-11.17	
		For >50 To 100, Deduct	-18.48	
		For >100, Deduct	-29.26	
26 01 50 81-0194	EA	4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	142.03	
		For >25 To 50, Deduct	-7.10	
		For >50 To 100, Deduct	-12.39	
		For >100, Deduct	-21.14	
26 01 50 81-0195	EA	4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	142.03	
		For >25 To 50, Deduct	-7.10	
		For >50 To 100, Deduct	-12.39	
		For >100, Deduct	-21.14	
26 01 50 81-0196	EA	4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....	182.24	
		For >25 To 50, Deduct	-9.11	
		For >50 To 100, Deduct	-15.40	
		For >100, Deduct	-25.16	
26 01 50 81-0197	EA	4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	154.86	
		For >25 To 50, Deduct	-7.74	
		For >50 To 100, Deduct	-13.35	
		For >100, Deduct	-22.42	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0198	EA	4'	Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	154.86	
			For >25 To 50, Deduct	-7.74	
			For >50 To 100, Deduct	-13.35	
			For >100, Deduct	-22.42	
26 01 50 81-0199 LED Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0198)					
26 01 50 81-0200	EA	1'x 4'	4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	311.89	
			For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	204.72	
			For nLight AIR radio module without sensor (nLight RIO), Add	133.07	
			For >25 To 50, Deduct	-15.59	
			For >50 To 100, Deduct	-25.12	
			For >100, Deduct	-38.12	
26 01 50 81-0201	EA	1'x 4'	4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....	336.17	
			For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	204.72	
			For nLight AIR radio module without sensor (nLight RIO), Add	133.07	
			For >25 To 50, Deduct	-16.81	
			For >50 To 100, Deduct	-26.95	
			For >100, Deduct	-40.55	
26 01 50 81-0202	EA	2'x 2'	3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	354.32	
			For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	204.72	
			For nLight AIR radio module without sensor (nLight RIO), Add	133.07	
			For >25 To 50, Deduct	-17.72	
			For >50 To 100, Deduct	-28.31	
			For >100, Deduct	-42.36	
26 01 50 81-0203	EA	2'x 2'	4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	382.68	
			For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	204.72	
			For nLight AIR radio module without sensor (nLight RIO), Add	133.07	
			For >25 To 50, Deduct	-19.13	
			For >50 To 100, Deduct	-30.43	
			For >100, Deduct	-45.20	
26 01 50 81-0204	EA	2'x 4'	4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	410.51	
			For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	204.72	
			For nLight AIR radio module without sensor (nLight RIO), Add	133.07	
			For >25 To 50, Deduct	-20.53	
			For >50 To 100, Deduct	-32.87	
			For >100, Deduct	-49.37	
26 01 50 81-0205	EA	2'x 4'	4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	443.44	
			For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	204.72	
			For nLight AIR radio module without sensor (nLight RIO), Add	133.07	
			For >25 To 50, Deduct	-22.17	
			For >50 To 100, Deduct	-35.34	
			For >100, Deduct	-52.66	
26 01 50 81-0206 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) (26 01 50 81-0198)					
			Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0207	EA	2'	Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40).....	104.88	
			Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-5.24	
			For >50 To 100, Deduct	-9.43	
			For >100, Deduct	-16.73	
26 01 50 81-0208	EA	2'	Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50).....	104.88	
			Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-5.24	
			For >50 To 100, Deduct	-9.43	
			For >100, Deduct	-16.73	
26 01 50 81-0209	EA	4'	Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40).....	134.58	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.73	
			For >50 To 100, Deduct	-11.83	
			For >100, Deduct	-20.39	
26 01 50 81-0210	EA	4'	Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....	134.58	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.73	
			For >50 To 100, Deduct	-11.83	
			For >100, Deduct	-20.39	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0211	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30) 134.67 Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -6.73 For >50 To 100, Deduct -11.83 For >100, Deduct -20.40		
26 01 50 81-0212	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F) 145.14 Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -7.26 For >50 To 100, Deduct -12.62 For >100, Deduct -21.45		
26 01 50 81-0213	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35) 134.67 Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -6.73 For >50 To 100, Deduct -11.83 For >100, Deduct -20.40		
26 01 50 81-0214	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F) 145.14 Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -7.26 For >50 To 100, Deduct -12.62 For >100, Deduct -21.45		
26 01 50 81-0215	EA		4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40) 134.67 Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -6.73 For >50 To 100, Deduct -11.83 For >100, Deduct -20.40		
26 01 50 81-0216	EA		4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F) 145.14 Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -7.26 For >50 To 100, Deduct -12.62 For >100, Deduct -21.45		
26 01 50 81-0217	EA		4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50) 134.67 Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -6.73 For >50 To 100, Deduct -11.83 For >100, Deduct -20.40		
26 01 50 81-0218	EA		4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F) 145.14 Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -7.26 For >50 To 100, Deduct -12.62 For >100, Deduct -21.45		
26 01 50 81-0219	EA		4' Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50) 145.04 Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -7.25 For >50 To 100, Deduct -12.61 For >100, Deduct -21.44		
26 01 50 81-0220	EA		4' Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40) 167.44 Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -8.37 For >50 To 100, Deduct -14.29 For >100, Deduct -23.68		
26 01 50 81-0221	EA		4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F) 180.53 Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -9.03 For >50 To 100, Deduct -15.27 For >100, Deduct -24.99		
26 01 50 81-0222	EA		4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50) 167.44 Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -8.37 For >50 To 100, Deduct -14.29 For >100, Deduct -23.68		
26 01 50 81-0223	EA		4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) 180.53 Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver For >25 To 50, Deduct -9.03 For >50 To 100, Deduct -15.27 For >100, Deduct -24.99		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0224	EA		20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800).....	164.32	
			Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
			For >25 To 50, Deduct	-8.22	
			For >50 To 100, Deduct	-12.67	
			For >100, Deduct	-17.82	
26 01 50 81-0225	EA		20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W).....	151.08	
			Note: 90-minute emergency battery with power output of 20 Watts		
			For >25 To 50, Deduct	-7.55	
			For >50 To 100, Deduct	-11.68	
			For >100, Deduct	-16.50	
26 01 50 81-0226	EA		8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50).....	174.99	
			Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.75	
			For >50 To 100, Deduct	-15.38	
			For >100, Deduct	-26.51	
26 01 50 81-0227	EA		8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F).....	181.53	
			Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-9.08	
			For >50 To 100, Deduct	-15.87	
			For >100, Deduct	-27.16	
26 01 50 81-0228	EA		8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	245.80	
			Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-12.29	
			For >50 To 100, Deduct	-20.69	
			For >100, Deduct	-33.59	
26 01 50 81-0229	EA		8' Dimmable, 64 Watts, 11850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	271.96	
			Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-13.60	
			For >50 To 100, Deduct	-22.65	
			For >100, Deduct	-36.21	
26 01 50 81-0230	EA		8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	245.80	
			Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-12.29	
			For >50 To 100, Deduct	-20.69	
			For >100, Deduct	-33.59	
26 01 50 81-0231	EA		8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F).....	271.96	
			Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-13.60	
			For >50 To 100, Deduct	-22.65	
			For >100, Deduct	-36.21	

26 05 Common Work Results for Electrical ⁽²⁶⁾**26 05 13 Medium-Voltage Cables** ^(26 05)**26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables** ^(26 05 13)**26 05 13 16-0001 Wire And Cable** ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)**26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct** ^(26 05 13 16-0002)

26 05 13 16-0004	MLF	#6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,340.29	1,061.90
26 05 13 16-0005	MLF	#4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,177.51	1,159.49
26 05 13 16-0006	MLF	#2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,209.52	1,310.05
26 05 13 16-0007	MLF	1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,093.16	1,614.04
26 05 13 16-0008	MLF	2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,226.42	1,817.55
26 05 13 16-0009	MLF	3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,411.95	2,017.43
26 05 13 16-0010	MLF	4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,846.98	2,266.78
26 05 13 16-0011	MLF	250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,320.07	2,521.90
26 05 13 16-0012	MLF	350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,829.49	3,011.08
26 05 13 16-0013	MLF	500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,584.05	3,539.46
26 05 13 16-0014	MLF	750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	34,103.77	4,171.63
26 05 13 16-0015	MLF	1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	45,630.10	4,803.51

26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial ^(26 05 13 16-0002)

Note: Excludes excavation.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,207.56	
26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,800.69	
26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,456.26	
26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,829.46	
26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,453.81	
26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,388.43	
26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,200.08	
26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,290.59	
26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,709.51	
26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	17,262.52	
26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,439.18	670.00
26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,159.22	718.38
26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,311.98	908.45
26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,944.57	1,102.84
26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,070.88	1,294.63
26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,243.31	1,480.54
26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,675.96	1,717.85
26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,671.79	2,161.16
26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	17,458.58	2,734.54
26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	22,727.56	3,435.69
26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	9,503.78	2,116.24
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	11,054.52	2,146.65
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	12,605.26	2,177.06
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	13,146.64	2,225.17
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	15,857.26	2,310.06
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	22,905.22	2,420.97
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	35,653.52	3,026.22
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	40,984.16	4,035.01
26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)		
26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	4,643.72	1,061.90
26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	5,587.70	1,159.49
26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	6,737.71	1,310.05
26 05 13 16-0051 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	7,780.47	1,461.97
26 05 13 16-0052 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	8,823.63	1,614.04
26 05 13 16-0053 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	10,069.28	1,817.55
26 05 13 16-0054 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	12,558.24	2,017.43
26 05 13 16-0055 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	14,139.36	2,266.78
26 05 13 16-0056 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	16,942.86	2,521.90
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	19,683.78	3,011.08
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	25,056.44	3,539.46
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	38,365.89	4,171.63
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	51,681.94	4,803.51
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,510.99	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,210.89	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,984.45	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,772.77	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,559.94	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,296.67	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,534.72	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,492.46	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,913.38	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	15,563.80	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	19,734.91	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0074 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,742.61	670.00
26 05 13 16-0075 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,569.41	718.38
26 05 13 16-0076 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,840.17	908.45
26 05 13 16-0077 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,755.81	1,004.93
26 05 13 16-0078 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,675.04	1,102.84
26 05 13 16-0079 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,913.74	1,294.63
26 05 13 16-0080 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,389.60	1,480.54

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0081 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,968.34	1,717.85
26 05 13 16-0082 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,294.58	2,161.16
26 05 13 16-0083 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	19,312.87	2,734.54
26 05 13 16-0084 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	25,199.95	3,435.69
26 05 13 16-0085 15 KV Cable (26 05 13 16-0001)		
26 05 13 16-0086 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0087 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0086)		
26 05 13 16-0088 MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,176.36	2,116.24
26 05 13 16-0089 MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,966.84	2,116.24
26 05 13 16-0090 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,268.36	2,116.24
26 05 13 16-0091 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,250.60	2,116.24
26 05 13 16-0092 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,182.89	2,116.24
26 05 13 16-0093 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,979.52	2,208.99
26 05 13 16-0094 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,345.77	2,208.99
26 05 13 16-0095 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	16,596.48	2,310.06
26 05 13 16-0096 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,879.43	2,364.23
26 05 13 16-0097 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	23,339.05	2,663.07
26 05 13 16-0098 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0086)		
Note: Excludes excavation.		
26 05 13 16-0099 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,991.94	
26 05 13 16-0100 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,974.17	
26 05 13 16-0101 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,906.46	
26 05 13 16-0102 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,732.35	
26 05 13 16-0103 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,098.59	
26 05 13 16-0104 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,474.36	
26 05 13 16-0105 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,761.10	
26 05 13 16-0106 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	20,918.09	
26 05 13 16-0107 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0086)		
26 05 13 16-0108 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,482.72	957.12
26 05 13 16-0109 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,846.37	1,102.84
26 05 13 16-0110 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,280.63	1,294.63
26 05 13 16-0111 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,332.28	1,480.54
26 05 13 16-0112 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,319.52	1,717.85
26 05 13 16-0113 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,055.46	1,999.80
26 05 13 16-0114 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	19,067.83	2,330.27
26 05 13 16-0115 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	23,766.08	2,706.83
26 05 13 16-0116 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0117 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0116)		
26 05 13 16-0118 MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,875.80	2,116.24
26 05 13 16-0119 MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,808.56	2,116.24
26 05 13 16-0120 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,164.36	2,116.24
26 05 13 16-0121 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,323.40	2,116.24
26 05 13 16-0122 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,423.50	2,116.24
26 05 13 16-0123 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,501.82	2,208.99
26 05 13 16-0124 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,934.00	2,208.99
26 05 13 16-0125 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,544.30	2,310.06
26 05 13 16-0126 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	21,213.82	2,364.23
26 05 13 16-0127 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	26,341.70	2,663.07
26 05 13 16-0128 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116)		
Note: Excludes excavation.		
26 05 13 16-0129 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,887.94	
26 05 13 16-0130 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,046.98	
26 05 13 16-0131 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,147.08	
26 05 13 16-0132 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,254.65	
26 05 13 16-0133 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,686.82	
26 05 13 16-0134 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,416.51	
26 05 13 16-0135 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	19,086.01	
26 05 13 16-0136 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	23,920.74	



Electrical		26
Common Work Results for Electrical		26 05
Medium-Voltage Cables		26 05 13

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0137	Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138	MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,378.72	957.12
26 05 13 16-0139	MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,919.18	1,102.84
26 05 13 16-0140	MLF 2/0 AWG, EPEPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) ...	11,521.25	1,294.63
26 05 13 16-0141	MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,854.58	1,480.54
26 05 13 16-0142	MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,907.75	1,717.85
26 05 13 16-0143	MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	18,003.29	1,999.80
26 05 13 16-0144	MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	21,402.22	2,330.27
26 05 13 16-0145	MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	26,768.73	2,706.83
26 05 13 16-0146	15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147	MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,398.02	2,123.65
26 05 13 16-0148	MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,502.67	2,174.41
26 05 13 16-0149	MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,546.39	2,225.17
26 05 13 16-0150	MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	24,289.48	2,373.46
26 05 13 16-0151	Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085) Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152	Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153	LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	62.12	16.19
26 05 13 16-0154	LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	74.75	17.25
26 05 13 16-0155	Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156	LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	62.12	16.19
26 05 13 16-0157	LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	74.75	17.25
26 05 13 16-0158	Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085) Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159	MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	4,539.26	1,061.90
26 05 13 16-0160	MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	5,446.49	1,159.49
26 05 13 16-0161	MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	6,555.87	1,310.05
26 05 13 16-0162	MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	8,561.44	1,609.65
26 05 13 16-0163	MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	9,765.51	1,812.10
26 05 13 16-0164	MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	12,163.62	2,017.43
26 05 13 16-0165	MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	13,673.31	2,258.31
26 05 13 16-0166	15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167	MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial	23,187.62	
26 05 13 16-0168	Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169	Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170	Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171	EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	408.64	138.45
26 05 13 16-0172	EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	535.25	138.45
26 05 13 16-0173	EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	535.25	138.45
26 05 13 16-0174	EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	576.45	166.13
26 05 13 16-0175	EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	576.45	166.13
26 05 13 16-0176	EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	576.45	166.13
26 05 13 16-0177	EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	631.38	193.83
26 05 13 16-0178	EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	631.38	193.83
26 05 13 16-0179	EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	631.38	193.83
26 05 13 16-0180	Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181	EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	598.37	166.13
26 05 13 16-0182	EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	691.04	193.83
26 05 13 16-0183	Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184	EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,747.33	332.26
26 05 13 16-0185	EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	2,403.85	456.86
26 05 13 16-0186	Connect To Pothead, Pothead Included (26 05 13 16-0169)		
26 05 13 16-0187	EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	1,823.80	332.26
26 05 13 16-0188	EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	2,326.52	380.72

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0189		Two Conductor Pothead (26 05 13 16-0169) Note: Includes 5 KV pothead.		
26 05 13 16-0190	EA	#6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,383.62	456.86
26 05 13 16-0191	EA	250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,844.70	581.47
26 05 13 16-0192	EA	400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,767.66	659.27
26 05 13 16-0193	EA	750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	4,436.57	769.20
26 05 13 16-0194	EA	1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	8,104.01	1,153.65
26 05 13 16-0195		Three Conductor Pothead (26 05 13 16-0169) Note: Includes 5 KV pothead.		
26 05 13 16-0196	EA	#6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	5,354.48	664.53
26 05 13 16-0197	EA	250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	5,873.19	775.29
26 05 13 16-0198		Copper Cable Splice, Crimp Compression Connection (26 05 13 16-0169) Note: For bare wire.		
26 05 13 16-0199	EA	#6 AWG Crimp Compression Connection For Bare Copper Wire.....	88.43	
26 05 13 16-0200	EA	#4 AWG Crimp Compression Connection For Bare Copper Wire.....	97.65	
26 05 13 16-0201	EA	#3 AWG Crimp Compression Connection For Bare Copper Wire.....	113.85	
26 05 13 16-0202	EA	#2 AWG Crimp Compression Connection For Bare Copper Wire.....	128.99	
26 05 13 16-0203	EA	#1 AWG Crimp Compression Connection For Bare Copper Wire.....	145.62	
26 05 13 16-0204	EA	1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	161.67	
26 05 13 16-0205	EA	2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	177.46	
26 05 13 16-0206	EA	3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	194.29	
26 05 13 16-0207	EA	4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	210.48	
26 05 13 16-0208	EA	250 MCM Crimp Compression Connection For Bare Copper Wire.....	227.15	
26 05 13 16-0209	EA	300 MCM Crimp Compression Connection For Bare Copper Wire.....	244.39	
26 05 13 16-0210	EA	350 MCM Crimp Compression Connection For Bare Copper Wire.....	260.24	
26 05 13 16-0211	EA	400 MCM Crimp Compression Connection For Bare Copper Wire.....	294.38	
26 05 13 16-0212	EA	500 MCM Crimp Compression Connection For Bare Copper Wire.....	329.92	
26 05 13 16-0213		Aluminum Cable Splice, Crimp Compression Connection (26 05 13 16-0169) Note: For bare wire.		
26 05 13 16-0214	EA	#6 AWG Crimp Compression Connection For Bare Aluminum Wire.....	91.16	
26 05 13 16-0215	EA	#4 AWG Crimp Compression Connection For Bare Aluminum Wire.....	99.16	
26 05 13 16-0216	EA	#2 AWG Crimp Compression Connection For Bare Aluminum Wire.....	133.96	
26 05 13 16-0217	EA	#1 AWG Crimp Compression Connection For Bare Aluminum Wire.....	158.28	
26 05 13 16-0218	EA	1/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	173.61	
26 05 13 16-0219	EA	2/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	188.87	
26 05 13 16-0220	EA	3/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	207.53	
26 05 13 16-0221	EA	4/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	224.49	
26 05 13 16-0222	EA	250 MCM Crimp Compression Connection For Bare Aluminum Wire.....	240.83	
26 05 13 16-0223	EA	300 MCM Crimp Compression Connection For Bare Aluminum Wire.....	257.76	
26 05 13 16-0224	EA	350 MCM Crimp Compression Connection For Bare Aluminum Wire.....	274.28	
26 05 13 16-0225	EA	400 MCM Crimp Compression Connection For Bare Aluminum Wire.....	314.49	
26 05 13 16-0226	EA	500 MCM Crimp Compression Connection For Bare Aluminum Wire.....	355.00	
26 05 13 16-0227		15 KV (26 05 13 16-0168)		
26 05 13 16-0228		Single Conductor Pothead On Racks (26 05 13 16-0227) Note: Includes pothead.		
26 05 13 16-0229	EA	#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,684.94	581.47
26 05 13 16-0230	EA	250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks.....	2,146.28	719.91
26 05 13 16-0231		Two Conductor Pothead On Rack (26 05 13 16-0227) Note: Includes pothead.		
26 05 13 16-0232	EA	#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks.....	2,491.41	886.04
26 05 13 16-0233	EA	250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	2,991.67	1,052.18
26 05 13 16-0234		Three Conductor Pothead On Rack (26 05 13 16-0227) Note: Includes pothead.		
26 05 13 16-0235	EA	#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	3,185.94	1,149.08
26 05 13 16-0236	EA	250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	3,970.10	1,439.82
26 05 13 16-0237		Stress Relief Cone On Rack (26 05 13 16-0227)		
26 05 13 16-0238	EA	#2 To 4/0 AWG Stress Relief Cone, On Rack.....	1,592.55	581.47
26 05 13 16-0239	EA	250 To 500 MCM Stress Relief Cone, On Rack.....	2,042.41	719.91
26 05 13 16-0240		Grounded, Shielded Cable Splice (26 05 13 16-0227)		
26 05 13 16-0241	EA	#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	1,105.17	429.18
26 05 13 16-0242	EA	250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,416.93	553.77
26 05 13 16-0243	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	6,536.94	1,522.89
26 05 13 16-0244	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	8,323.67	1,661.33



Electrical		26
Common Work Results for Electrical		26 05
Medium-Voltage Cables		26 05 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0245 Cable Termination (26 05 13 16-0227)		
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV.....	723.03	242.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.37	
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV.....	914.77	311.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	186.90	
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV.....	1,132.77	380.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	228.43	
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV.....	456.78	138.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.07	
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted (26 05 13 16-0227)		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	892.20	179.98
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,014.70	198.91
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,200.63	217.69
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,537.25	250.81
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted (26 05 13 16-0227)		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,784.44	360.57
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	2,029.62	397.83
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	2,385.11	427.30
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	3,074.50	501.61
26 05 13 16-0260 35 KV (26 05 13 16-0168)		
26 05 13 16-0261 35 KV One Conductor Splice (26 05 13 16-0260)		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing.....	2,758.93	
26 05 13 16-0263 Cable Termination (26 05 13 16-0260)		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV.....	620.26	166.27
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	853.72	250.86
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV.....	984.74	268.31
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV.....	493.98	138.45
26 05 13 16-0268 70 KV (26 05 13 16-0168)		
26 05 13 16-0269 Cable Splice (26 05 13 16-0268)		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing.....	13,561.66	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing.....	2,852.40	
26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)		
26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001)		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.43	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits.....	0.23	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.70	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.43	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand.....	2.93	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand.....	3.73	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge.....	409.70	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
26 05 19 16-0011 Wire and Cable (26 05 19 16)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0057 for various conduit types.		
26 05 19 16-0012 600 Volt Wire (26 05 19 16-0011)		
26 05 19 16-0013 Single Solid Conductor, Copper (26 05 19 16-0012)		
26 05 19 16-0014 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	783.62	307.00
26 05 19 16-0015 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	985.97	361.14

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0016 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,228.24	441.59
26 05 19 16-0017 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,018.95	307.00
26 05 19 16-0018 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,237.31	361.14
26 05 19 16-0019 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,493.45	441.59
26 05 19 16-0020 Power Cable, Stranded Conductor, Copper (26 05 19 16-0012)		
26 05 19 16-0021 Power Cable, Stranded, Single Conductor, XHHW-2 (26 05 19 16-0020)		
26 05 19 16-0022 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	823.10	252.98
26 05 19 16-0023 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	969.73	303.58
26 05 19 16-0024 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,201.47	354.18
26 05 19 16-0025 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,490.62	404.78
26 05 19 16-0026 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,000.13	505.97
26 05 19 16-0027 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,733.48	607.17
26 05 19 16-0028 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,771.88	758.96
26 05 19 16-0029 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,478.31	860.15
26 05 19 16-0030 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,326.14	961.35
26 05 19 16-0031 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,655.83	1,062.54
26 05 19 16-0032 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	8,010.40	1,214.34
26 05 19 16-0033 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	9,632.20	1,366.13
26 05 19 16-0034 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	11,577.65	1,517.92
26 05 19 16-0035 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,935.45	1,669.71
26 05 19 16-0036 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	14,746.85	1,821.51
26 05 19 16-0037 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,562.84	1,973.30
26 05 19 16-0038 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	18,727.29	2,125.09
26 05 19 16-0039 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	20,988.97	2,276.88
26 05 19 16-0040 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	24,389.76	2,428.68
26 05 19 16-0041 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	28,156.74	2,631.07
26 05 19 16-0042 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	43,239.03	2,934.65
26 05 19 16-0043 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	61,276.69	3,440.63
26 05 19 16-0044 Power Cable, Stranded, Multi Conductor, XHHW-2 (26 05 19 16-0020)		
26 05 19 16-0045 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,939.47	607.04
26 05 19 16-0046 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,403.23	708.50
26 05 19 16-0047 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,993.62	860.15
26 05 19 16-0048 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,603.77	935.67
26 05 19 16-0049 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,941.77	986.52
26 05 19 16-0050 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,615.87	1,087.59
26 05 19 16-0051 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,044.71	1,133.64
26 05 19 16-0052 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,628.44	1,239.64
26 05 19 16-0053 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,240.23	1,315.79
26 05 19 16-0054 MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,233.21	1,669.84
26 05 19 16-0055 MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,996.93	2,479.27
26 05 19 16-0056 MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,403.23	708.50
26 05 19 16-0057 MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,098.55	860.15
26 05 19 16-0058 MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,793.90	1,011.95
26 05 19 16-0059 MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,233.25	910.37
26 05 19 16-0060 MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,216.48	1,112.13
26 05 19 16-0061 MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,457.12	1,416.98
26 05 19 16-0062 MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,427.37	1,822.14
26 05 19 16-0063 MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,127.00	2,327.60
26 05 19 16-0064 MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,063.52	1,037.25
26 05 19 16-0065 MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,241.45	1,214.34
26 05 19 16-0066 MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,798.86	1,543.22
26 05 19 16-0067 MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,340.59	1,163.74
26 05 19 16-0068 MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,251.73	1,442.03
26 05 19 16-0069 MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,308.48	1,778.50
26 05 19 16-0070 MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,278.67	1,411.92
26 05 19 16-0071 MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,660.84	1,614.94
26 05 19 16-0072 MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,536.04	2,015.30
26 05 19 16-0073 MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,145.01	1,719.80
26 05 19 16-0074 MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,576.28	1,923.21
26 05 19 16-0075 MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	18,015.72	2,529.87
26 05 19 16-0076 MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	18,069.04	2,428.30
26 05 19 16-0077 MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,584.22	3,034.59
26 05 19 16-0078 MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,502.49	2,631.57
26 05 19 16-0079 MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	26,236.99	3,034.59
26 05 19 16-0080 MLF 3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,199.24	3,540.30
26 05 19 16-0081 MLF 4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	42,510.85	4,551.87
26 05 19 16-0082 MLF 3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	39,411.66	4,051.21
26 05 19 16-0083 MLF 3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	41,958.76	4,551.87
26 05 19 16-0084 MLF 3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	52,892.98	5,059.75
26 05 19 16-0085 MLF 3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	68,856.48	5,560.91
26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper (26 05 19 16-0012)		
Note: Direct bury.		
26 05 19 16-0087 MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,293.67	



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Common Work Results for Electrical		26 05
Low-Voltage Electrical Power Conductors and Cables		26 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0088	MLF	#12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,526.43		
26 05 19 16-0089	MLF	#10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,962.60		
26 05 19 16-0090	MLF	#8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,615.52		
26 05 19 16-0091	MLF	#6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,787.25		
26 05 19 16-0092	MLF	#4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,039.86		
26 05 19 16-0093	MLF	#2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,453.56		
26 05 19 16-0094	MLF	#1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,435.66		
26 05 19 16-0095	MLF	1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,682.93		
26 05 19 16-0096	MLF	2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,284.89		
26 05 19 16-0097	MLF	3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,377.70		
26 05 19 16-0098	MLF	4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,685.81		
26 05 19 16-0099	MLF	250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,301.75		
26 05 19 16-0100	MLF	300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,755.85		
26 05 19 16-0101	MLF	350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	28,895.24		
26 05 19 16-0102	MLF	400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	32,598.73		
26 05 19 16-0103	MLF	500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	38,936.85		
26 05 19 16-0104	MLF	600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	46,214.30		
26 05 19 16-0105	MLF	750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	75,071.27		
26 05 19 16-0106	MLF	#14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	961.20		
26 05 19 16-0107	MLF	#12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,156.15		
26 05 19 16-0108	MLF	#10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,391.71		
26 05 19 16-0109	MLF	#8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,703.42		
26 05 19 16-0110	MLF	#6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,207.67		
26 05 19 16-0111	MLF	#4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,954.35		
26 05 19 16-0112	MLF	#2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,037.74		
26 05 19 16-0113	MLF	#1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,806.19		
26 05 19 16-0114	MLF	1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,435.93		
26 05 19 16-0115	MLF	2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,127.59		
26 05 19 16-0116	MLF	3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,147.42		
26 05 19 16-0117	MLF	4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,392.59		
26 05 19 16-0118	MLF	250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,547.43		
26 05 19 16-0119	MLF	300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,768.77		
26 05 19 16-0120	MLF	350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,099.36		
26 05 19 16-0121	MLF	400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,477.51		
26 05 19 16-0122	MLF	500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,783.05		
26 05 19 16-0123	MLF	750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	26,827.97		
26 05 19 16-0124	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	808.08		
26 05 19 16-0125	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,010.21		
26 05 19 16-0126	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,262.89		
26 05 19 16-0127	MLF	#8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,795.44		
26 05 19 16-0128	MLF	#6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,477.71		
26 05 19 16-0129	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,318.56		
26 05 19 16-0130	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,785.01		
26 05 19 16-0131	MLF	#1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,735.21		
26 05 19 16-0132	MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,675.01		
26 05 19 16-0133	MLF	2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,603.27		
26 05 19 16-0134	MLF	3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,090.98		
26 05 19 16-0135	MLF	4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,888.72		
26 05 19 16-0136	MLF	250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,840.58		
26 05 19 16-0137	MLF	300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,877.81		
26 05 19 16-0138	MLF	350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,073.94		
26 05 19 16-0139	MLF	400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,189.92		
26 05 19 16-0140	MLF	500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,919.26		
26 05 19 16-0141	MLF	600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	27,663.16		
26 05 19 16-0142	MLF	750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	44,378.37		
26 05 19 16-0143	MLF	#2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,468.50		
26 05 19 16-0144	MLF	1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,820.01		
26 05 19 16-0145	MLF	2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,002.72		
26 05 19 16-0146	MLF	3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,653.04		
26 05 19 16-0147	MLF	4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,183.97		
26 05 19 16-0148	MLF	250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,350.28		
26 05 19 16-0149	MLF	350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	23,730.28		
26 05 19 16-0150	MLF	400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,817.64		
26 05 19 16-0151	MLF	500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	29,543.71		

26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0012)

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0153 ACTHH, Solid (26 05 19 16-0152)				
26 05 19 16-0154	MLF	1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,923.55	830.67
26 05 19 16-0155	MLF	1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,369.80	941.42
26 05 19 16-0156	MLF	1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,846.19	996.80
26 05 19 16-0157	MLF	2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,238.76	1,384.44
26 05 19 16-0158	MLF	2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,549.62	1,550.29
26 05 19 16-0159	MLF	2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,730.34	1,717.67
26 05 19 16-0160	MLF	2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,445.91	1,883.53
26 05 19 16-0161	MLF	3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,110.52	1,550.29
26 05 19 16-0162	MLF	3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,365.26	1,717.67
26 05 19 16-0163	MLF	3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,829.50	1,939.04
26 05 19 16-0164	MLF	3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,821.21	2,104.07
26 05 19 16-0165	MLF	4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,077.98	1,717.67
26 05 19 16-0166	MLF	4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,667.07	1,939.04
26 05 19 16-0167	MLF	4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	8,446.25	2,159.86
26 05 19 16-0168	MLF	4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	10,898.76	2,326.82
26 05 19 16-0169 ACTHH, Stranded (26 05 19 16-0152)				
26 05 19 16-0170	MLF	2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,724.11	1,994.84
26 05 19 16-0171	MLF	2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	9,401.90	2,269.51
26 05 19 16-0172	MLF	3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	9,098.94	2,215.11
26 05 19 16-0173	MLF	3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	11,381.54	2,490.05
26 05 19 16-0174	MLF	3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	14,364.03	2,768.88
26 05 19 16-0175	MLF	3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	16,499.97	3,042.72
26 05 19 16-0176	MLF	3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	18,890.34	3,320.02
26 05 19 16-0177	MLF	4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	11,724.98	2,657.29
26 05 19 16-0178	MLF	4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	14,167.05	2,933.08
26 05 19 16-0179	MLF	4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	18,169.09	3,212.18
26 05 19 16-0180	MLF	4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	19,908.49	3,487.27
26 05 19 16-0181	MLF	4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	23,583.86	3,762.07
26 05 19 16-0182 HCFC, Solid (26 05 19 16-0152)				
26 05 19 16-0183	MLF	2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,727.23	1,384.44
26 05 19 16-0184	MLF	2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,179.90	1,555.56
26 05 19 16-0185	MLF	2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	5,786.86	1,709.23
26 05 19 16-0186	MLF	3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,718.19	1,555.56
26 05 19 16-0187	MLF	3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,139.10	1,709.23
26 05 19 16-0188	MLF	3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	8,000.54	1,949.98
26 05 19 16-0189	MLF	4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	7,005.58	1,709.23
26 05 19 16-0190	MLF	4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	7,662.63	1,949.98
26 05 19 16-0191	MLF	4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	10,424.81	2,163.19
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0152)				
26 05 19 16-0193	MLF	2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,075.40	1,384.44
26 05 19 16-0194	MLF	2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,557.01	1,555.56
26 05 19 16-0195	MLF	2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,390.17	1,709.23
26 05 19 16-0196	MLF	2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,697.32	1,826.49
26 05 19 16-0197	MLF	2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,154.66	1,936.28
26 05 19 16-0198	MLF	3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,683.38	1,555.56
26 05 19 16-0199	MLF	3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,259.12	1,709.23
26 05 19 16-0200	MLF	3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,562.06	1,949.98
26 05 19 16-0201	MLF	3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,293.87	2,104.07
26 05 19 16-0202	MLF	3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	9,595.64	2,269.51
26 05 19 16-0203	MLF	3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,672.98	2,437.45
26 05 19 16-0204	MLF	3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	15,729.95	2,602.33
26 05 19 16-0205	MLF	4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,378.70	1,709.23
26 05 19 16-0206	MLF	4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,157.44	1,949.98
26 05 19 16-0207	MLF	4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,881.34	2,163.19
26 05 19 16-0208	MLF	4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,749.14	2,382.90
26 05 19 16-0209	MLF	4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	14,164.56	2,549.58
26 05 19 16-0210	MLF	4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	18,342.37	2,714.61
26 05 19 16-0211	MLF	4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	23,359.39	2,878.25
26 05 19 16-0212 MC, Solid Or Stranded, Aluminum Armor (26 05 19 16-0152)				
26 05 19 16-0213	MLF	2 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,048.21	1,384.44
26 05 19 16-0214	MLF	2 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,486.50	1,555.56
26 05 19 16-0215	MLF	2 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,327.81	1,709.23
26 05 19 16-0216	MLF	3 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,796.95	1,555.56
26 05 19 16-0217	MLF	3 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,196.47	1,709.23
26 05 19 16-0218	MLF	3 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	6,512.52	1,949.98
26 05 19 16-0219	MLF	4 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,918.64	1,709.23
26 05 19 16-0220	MLF	4 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	6,548.77	1,949.98
26 05 19 16-0221	MLF	4 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	8,881.34	2,163.19



Electrical		26
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Low-Voltage Electrical Power Conductors and Cables		26 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0222 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0223 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,003.25	1,052.18
26 05 19 16-0224 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,557.67	1,218.31
26 05 19 16-0225 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	5,587.81	1,384.44
26 05 19 16-0226 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	6,390.79	1,550.57
26 05 19 16-0227 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	4,566.72	1,218.31
26 05 19 16-0228 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	5,370.53	1,384.44
26 05 19 16-0229 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	6,651.69	1,550.57
26 05 19 16-0230 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	7,543.57	1,716.70
26 05 19 16-0231 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0232 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	5,088.23	1,384.44
26 05 19 16-0233 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	6,235.24	1,550.57
26 05 19 16-0234 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	8,125.45	1,716.70
26 05 19 16-0235 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	9,367.92	1,882.83
26 05 19 16-0236 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	6,322.48	1,550.57
26 05 19 16-0237 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	7,647.27	1,716.70
26 05 19 16-0238 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0239 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	4,299.54	1,052.18
26 05 19 16-0240 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	6,822.88	1,550.57
26 05 19 16-0241 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	5,250.66	1,218.31
26 05 19 16-0242 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	6,175.46	1,384.44
26 05 19 16-0243 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,485.12	1,716.70
26 05 19 16-0244 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,156.71	1,439.82
26 05 19 16-0245 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	7,548.33	1,661.33
26 05 19 16-0246 Armored Cable Connectors (26 05 19 16-0152)		
26 05 19 16-0247 EA 3/4" Armored Cable Connector.....	8.20	3.04
For Work In Restricted Working Space, Add	2.28	
For Elevated Installation >10' To 15', Add	0.76	
For Elevated Installation >15' To 20', Add	1.52	
For Elevated Installation >20' To 25', Add	1.90	
For Elevated Installation >25' To 30', Add	2.66	
For Elevated Installation >30' To 35', Add	3.04	
For Elevated Installation >35' To 40', Add	3.80	
For Elevated Installation >40', Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28	
26 05 19 16-0248 EA 1" Armored Cable Connector.....	10.95	4.05
For Work In Restricted Working Space, Add	3.04	
For Elevated Installation >10' To 15', Add	1.01	
For Elevated Installation >15' To 20', Add	2.02	
For Elevated Installation >20' To 25', Add	2.53	
For Elevated Installation >25' To 30', Add	3.54	
For Elevated Installation >30' To 35', Add	4.05	
For Elevated Installation >35' To 40', Add	5.06	
For Elevated Installation >40', Add	5.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.04	
26 05 19 16-0249 EA 1-1/4" Armored Cable Connector.....	13.74	5.06
For Work In Restricted Working Space, Add	3.80	
For Elevated Installation >10' To 15', Add	1.27	
For Elevated Installation >15' To 20', Add	2.53	
For Elevated Installation >20' To 25', Add	3.16	
For Elevated Installation >25' To 30', Add	4.43	
For Elevated Installation >30' To 35', Add	5.06	
For Elevated Installation >35' To 40', Add	6.33	
For Elevated Installation >40', Add	6.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	
26 05 19 16-0250 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)		
26 05 19 16-0251 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,100.74	202.77
For EPR Insulation, Add	51.27	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	119.62	
26 05 19 16-0252 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,233.87	224.53
For EPR Insulation, Add	52.26	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	121.94	
26 05 19 16-0253 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,520.62	280.69
For EPR Insulation, Add	76.30	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	178.03	
26 05 19 16-0254 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,101.19	446.52
For EPR Insulation, Add	125.44	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	292.69	
26 05 19 16-0255 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,923.15	535.83
For EPR Insulation, Add	210.78	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	491.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0256 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,023.34	622.09
For EPR Insulation, Add	318.89	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	744.08	
26 05 19 16-0257 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,593.63	712.03
For EPR Insulation, Add	366.49	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	855.13	
26 05 19 16-0258 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,856.20	801.97
For EPR Insulation, Add	517.92	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,208.49	
26 05 19 16-0259 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,321.69	893.18
For EPR Insulation, Add	699.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,632.86	
26 05 19 16-0260 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,862.52	1,007.65
For EPR Insulation, Add	874.00	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,039.34	
26 05 19 16-0261 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,739.58	1,117.44
For EPR Insulation, Add	1,098.64	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,563.49	
26 05 19 16-0262 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,947.36	1,247.48
For EPR Insulation, Add	1,372.88	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,203.39	
26 05 19 16-0263 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,626.46	1,387.00
For EPR Insulation, Add	1,567.83	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,658.26	
26 05 19 16-0264 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,553.47	1,521.21
For EPR Insulation, Add	1,649.96	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,849.90	
26 05 19 16-0265 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,444.59	1,672.25
For EPR Insulation, Add	2,026.70	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,728.97	
26 05 19 16-0266 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,614.91	1,772.81
For EPR Insulation, Add	2,295.33	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,355.76	
26 05 19 16-0267 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,151.24	1,981.40
For EPR Insulation, Add	2,618.85	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	6,110.66	
26 05 19 16-0268 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	26,544.09	2,203.65
For EPR Insulation, Add	3,070.86	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	7,165.34	
26 05 19 16-0269 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	31,189.37	2,292.70
For EPR Insulation, Add	3,691.76	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	8,614.10	
26 05 19 16-0270 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	51,288.00	2,381.62
For EPR Insulation, Add	6,592.71	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	15,382.98	
26 05 19 16-0271 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	64,867.95	2,544.80
For EPR Insulation, Add	8,553.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	19,958.87	
26 05 19 16-0272 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,925.93	455.12
26 05 19 16-0273 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,434.67	505.97
26 05 19 16-0274 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,067.30	607.67
26 05 19 16-0275 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,641.23	708.11
26 05 19 16-0276 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,547.72	758.21
26 05 19 16-0277 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	602.20	252.98
26 05 19 16-0278 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	750.91	278.29
26 05 19 16-0279 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	799.72	202.89
26 05 19 16-0280 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	998.25	241.86
26 05 19 16-0281 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,244.96	304.22
26 05 19 16-0282 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,764.15	400.98
26 05 19 16-0283 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,425.98	484.22
26 05 19 16-0284 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,238.84	572.25
26 05 19 16-0285 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,882.21	647.77
26 05 19 16-0286 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,659.55	725.44
26 05 19 16-0287 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,576.55	818.67
26 05 19 16-0288 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,489.67	896.46
26 05 19 16-0289 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,385.77	990.70
26 05 19 16-0290 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,814.69	1,047.87
26 05 19 16-0291 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,544.90	1,178.92
26 05 19 16-0292 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,421.87	1,254.19
26 05 19 16-0293 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,380.16	1,420.40
26 05 19 16-0294 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,489.80	1,571.93
26 05 19 16-0295 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,523.09	1,614.94
26 05 19 16-0296 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	22,092.90	1,708.55
26 05 19 16-0297 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	27,536.67	2,010.62
26 05 19 16-0298 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	42,590.37	2,381.62
26 05 19 16-0299 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	51,083.15	2,875.45
26 05 19 16-0300 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,680.22	607.67
26 05 19 16-0301 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,002.76	708.11
26 05 19 16-0302 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,471.45	810.19
26 05 19 16-0303 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,410.54	910.37
26 05 19 16-0304 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,983.61	1,011.95
26 05 19 16-0305 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,229.39	1,112.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0306 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0012)		
26 05 19 16-0307 MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,131.27	361.71
26 05 19 16-0308 MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,331.28	420.59
26 05 19 16-0309 MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,729.47	539.89
26 05 19 16-0310 MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,063.37	602.88
26 05 19 16-0311 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,365.66	679.23
26 05 19 16-0312 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,663.00	749.68
26 05 19 16-0313 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,095.16	846.06
26 05 19 16-0314 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,422.50	933.43
26 05 19 16-0315 MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,894.68	1,026.14
26 05 19 16-0316 MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,625.96	1,115.91
26 05 19 16-0317 MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,880.76	1,205.66
26 05 19 16-0318 MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	5,534.82	1,341.01
26 05 19 16-0319 MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	6,097.95	1,476.33
26 05 19 16-0320 MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	7,349.13	1,719.76
26 05 19 16-0321 MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	8,234.13	1,885.34
26 05 19 16-0322 MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	8,444.58	1,955.23
26 05 19 16-0323 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	11,224.69	2,371.80
26 05 19 16-0324 MLF #8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,354.46	449.18
26 05 19 16-0325 MLF #6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,524.30	505.97
26 05 19 16-0326 MLF #4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,875.84	622.47
26 05 19 16-0327 MLF #2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,341.61	763.01
26 05 19 16-0328 MLF #1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,881.12	898.23
26 05 19 16-0329 MLF 1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,293.64	1,012.33
26 05 19 16-0330 MLF 2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,712.31	1,124.40
26 05 19 16-0331 MLF 3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,186.53	1,226.74
26 05 19 16-0332 MLF 4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,508.06	1,305.54
26 05 19 16-0333 MLF 250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	5,011.00	1,396.87
26 05 19 16-0334 MLF 300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	5,840.61	1,497.05
26 05 19 16-0335 MLF 350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	6,175.61	1,617.23
26 05 19 16-0336 MLF 400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	6,902.30	1,763.57
26 05 19 16-0337 MLF 500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	7,810.02	2,023.90
26 05 19 16-0338 MLF 600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	8,809.54	2,129.90
26 05 19 16-0339 MLF 700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	9,636.59	2,245.51
26 05 19 16-0340 MLF 750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	10,029.96	2,386.43
26 05 19 16-0341 MLF 1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	14,411.21	3,344.50
26 05 19 16-0342 MLF #6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,593.94	505.97
26 05 19 16-0343 MLF #4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,978.73	622.34
26 05 19 16-0344 MLF #2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,455.32	764.02
26 05 19 16-0345 MLF #1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,013.02	893.18
26 05 19 16-0346 MLF 1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,402.68	1,007.65
26 05 19 16-0347 MLF 2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,827.67	1,117.44
26 05 19 16-0348 MLF 3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,364.14	1,226.74
26 05 19 16-0349 MLF 4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,730.33	1,305.54
26 05 19 16-0350 MLF 250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	5,276.04	1,395.98
26 05 19 16-0351 MLF 300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	6,191.41	1,498.95
26 05 19 16-0352 MLF 350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	6,586.55	1,619.37
26 05 19 16-0353 MLF 400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	7,256.62	1,759.52
26 05 19 16-0354 MLF 500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	8,349.82	2,023.90
26 05 19 16-0355 MLF 600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	9,352.55	2,124.20
26 05 19 16-0356 MLF 700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	10,257.61	2,245.51
26 05 19 16-0357 MLF 750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	10,704.64	2,379.22
26 05 19 16-0358 Non-Metallic Sheathed Cable (26 05 19 16-0012)		
26 05 19 16-0359 Indoor Installation (26 05 19 16-0358)		
Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0360 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	2,655.47	961.23
For Installation In Wood Stud Wall (Includes Drilling), Add	360.45	
26 05 19 16-0361 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	3,255.58	1,163.74
For Installation In Wood Stud Wall (Includes Drilling), Add	436.42	
26 05 19 16-0362 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	4,026.43	1,287.70
For Installation In Wood Stud Wall (Includes Drilling), Add	482.89	
26 05 19 16-0363 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	3,028.90	1,092.91
For Installation In Wood Stud Wall (Includes Drilling), Add	388.97	
26 05 19 16-0364 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	3,858.83	1,214.09
For Installation In Wood Stud Wall (Includes Drilling), Add	455.30	
26 05 19 16-0365 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	4,663.62	1,356.01
For Installation In Wood Stud Wall (Includes Drilling), Add	508.50	
26 05 19 16-0366 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	3,638.12	1,214.72
For Installation In Wood Stud Wall (Includes Drilling), Add	455.53	
26 05 19 16-0367 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	4,854.29	1,416.98
For Installation In Wood Stud Wall (Includes Drilling), Add	531.36	
26 05 19 16-0368 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	5,661.26	1,619.12
For Installation In Wood Stud Wall (Includes Drilling), Add	607.17	
26 05 19 16-0369 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	5,222.05	1,454.67
For Installation In Wood Stud Wall (Includes Drilling), Add	517.99	
26 05 19 16-0370 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	6,500.11	1,758.26
For Installation In Wood Stud Wall (Includes Drilling), Add	626.14	
26 05 19 16-0371 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable.....	6,410.68	1,657.06
For Installation In Wood Stud Wall (Includes Drilling), Add	588.19	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0372 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	8,206.58 711.53	1,998.60
26 05 19 16-0373 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	14,849.63 782.68	2,200.99
26 05 19 16-0374 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	17,040.68 853.83	2,390.73
26 05 19 16-0375 Direct Burial Cable (26 05 19 16-0358) Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0376 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,981.92	
26 05 19 16-0377 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,937.09	
26 05 19 16-0378 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,814.57	
26 05 19 16-0379 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,054.78	
26 05 19 16-0380 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,230.89	
26 05 19 16-0381 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,283.65	
26 05 19 16-0382 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	6,983.87	
26 05 19 16-0383 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	9,029.19	
26 05 19 16-0384 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	8,919.57	
26 05 19 16-0385 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	11,946.06	
26 05 19 16-0386 SEU Cable Copper, 3 Conductor (26 05 19 16-0358)		
26 05 19 16-0387 MLF 12-12-12 Cable SEU Copper	4,130.47	1,218.72
26 05 19 16-0388 MLF 10-10-10 Cable SEU Copper	5,398.42	1,384.44
26 05 19 16-0389 MLF 8-8-8 Cable SEU Copper	6,972.45	1,550.29
26 05 19 16-0390 MLF 6-6-8 Cable SEU Copper	8,732.44	1,662.02
26 05 19 16-0391 MLF 6-6-6 Cable SEU Copper	9,497.93	1,717.67
26 05 19 16-0392 MLF 4-4-6 Cable SEU Copper	11,891.09	1,883.53
26 05 19 16-0393 MLF 4-4-4 Cable SEU Copper	12,947.75	1,939.04
26 05 19 16-0394 MLF 3-3-5 Cable SEU Copper	15,304.75	2,104.07
26 05 19 16-0395 MLF 3-3-3 Cable SEU Copper	16,285.73	2,215.11
26 05 19 16-0396 MLF 2-2-4 Cable SEU Copper	17,456.68	2,326.82
26 05 19 16-0397 MLF 2-2-2 Cable SEU Copper	18,738.88	2,437.45
26 05 19 16-0398 MLF 1-1-1 Cable SEU Copper	23,259.12	2,768.88
26 05 19 16-0399 MLF 1/0-1/0-1/0 Cable SEU Copper	27,966.97	3,104.19
26 05 19 16-0400 MLF 2/0-2/0-2/0 Cable SEU Copper	34,041.18	3,496.13
26 05 19 16-0401 MLF 3/0-3/0-3/0 Cable SEU Copper	41,432.76	3,888.89
26 05 19 16-0402 MLF 4/0-4/0-4/0 Cable SEU Copper	46,312.54	4,339.94
26 05 19 16-0403 SEU Cable Aluminum, 3 Conductor (26 05 19 16-0358)		
26 05 19 16-0404 MLF 8-8-8 Cable SEU Aluminum	4,433.65	1,555.56
26 05 19 16-0405 MLF 6-6-6 Cable SEU Aluminum	4,973.37	1,709.23
26 05 19 16-0406 MLF 4-4-6 Cable SEU Aluminum	5,523.99	1,870.93
26 05 19 16-0407 MLF 4-4-4 Cable SEU Aluminum	5,772.78	1,949.98
26 05 19 16-0408 MLF 2-2-4 Cable SEU Aluminum	6,874.66	2,307.45
26 05 19 16-0409 MLF 2-2-2 Cable SEU Aluminum	7,271.78	2,428.86
26 05 19 16-0410 MLF 1-1-1 Cable SEU Aluminum	8,547.94	2,768.88
26 05 19 16-0411 MLF 1/0-1/0-2 Cable SEU Aluminum	9,027.83	2,914.66
26 05 19 16-0412 MLF 1/0-1/0-1/0 Cable SEU Aluminum	10,386.87	3,076.50
26 05 19 16-0413 MLF 2/0-2/0-1 Cable SEU Aluminum	10,199.89	3,296.35
26 05 19 16-0414 MLF 2/0-2/0-2/0 Cable SEU Aluminum	10,748.65	3,461.10
26 05 19 16-0415 MLF 3/0-3/0-1/0 Cable SEU Aluminum	11,525.37	3,624.18
26 05 19 16-0416 MLF 3/0-3/0-3/0 Cable SEU Aluminum	12,290.51	3,845.69
26 05 19 16-0417 MLF 4/0-4/0-2/0 Cable SEU Aluminum	13,098.26	4,157.48
26 05 19 16-0418 MLF 4/0-4/0-4/0 Cable SEU Aluminum	13,752.50	4,326.37
26 05 19 16-0419 SER Cable Copper, 4 Conductor (26 05 19 16-0358)		
26 05 19 16-0420 MLF 6-6-6-6 Cable SER Copper	13,776.35	1,994.84
26 05 19 16-0421 MLF 4-4-4-6 Cable SER Copper	15,127.22	2,159.86
26 05 19 16-0422 MLF 3-3-3-5 Cable SER Copper	18,924.69	2,437.45
26 05 19 16-0423 MLF 2-2-2-4 Cable SER Copper	21,764.74	2,657.29
26 05 19 16-0424 MLF 1-1-1-3 Cable SER Copper	25,408.21	3,042.72
26 05 19 16-0425 MLF 1/0-1/0-1/0-2 Cable SER Copper	31,109.20	3,487.27
26 05 19 16-0426 MLF 2/0-2/0-2/0-1 Cable SER Copper	39,430.06	3,762.07
26 05 19 16-0427 MLF 3/0-3/0-3/0-1/0 Cable SER Copper	45,646.26	4,208.00
26 05 19 16-0428 SER Cable Aluminum, 4 Conductor (26 05 19 16-0358)		
26 05 19 16-0429 MLF 8-8-8-8 Cable SER Aluminum	5,751.68	1,861.93
26 05 19 16-0430 MLF 6-6-6-6 Cable SER Aluminum	6,244.23	1,994.84
26 05 19 16-0431 MLF 4-4-4-6 Cable SER Aluminum	6,934.42	2,159.86
26 05 19 16-0432 MLF 2-2-2-4 Cable SER Aluminum	8,687.36	2,657.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0433 MLF 1-1-1-3 Cable SER Aluminum.....	10,340.99	3,042.72
26 05 19 16-0434 MLF 1/0-1/0-1/0-2 Cable SER Aluminum.....	11,720.04	3,487.27
26 05 19 16-0435 MLF 2/0-2/0-2/0-1 Cable SER Aluminum.....	13,007.90	3,762.07
26 05 19 16-0436 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum.....	14,752.71	4,208.00
26 05 19 16-0437 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum.....	16,685.47	4,688.95
26 05 19 16-0438 Control Tray Cable, Low Voltage ^(26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0439 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,221.41	613.62
For Work In Restricted Working Space, Add	306.81	
26 05 19 16-0440 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,399.48	686.41
For Work In Restricted Working Space, Add	343.20	
26 05 19 16-0441 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,451.53	686.36
For Work In Restricted Working Space, Add	343.20	
26 05 19 16-0442 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,818.05	860.89
For Work In Restricted Working Space, Add	430.45	
26 05 19 16-0443 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,273.62	1,049.07
For Work In Restricted Working Space, Add	524.54	
26 05 19 16-0444 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,575.61	1,153.62
For Work In Restricted Working Space, Add	576.81	
26 05 19 16-0445 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,036.29	1,310.80
For Work In Restricted Working Space, Add	655.40	
26 05 19 16-0446 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,815.23	1,602.17
For Work In Restricted Working Space, Add	801.08	
26 05 19 16-0447 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,323.05	1,747.89
For Work In Restricted Working Space, Add	873.95	
26 05 19 16-0448 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,000.79	1,802.54
For Work In Restricted Working Space, Add	901.27	
26 05 19 16-0449 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,151.78	2,251.84
For Work In Restricted Working Space, Add	1,125.92	
26 05 19 16-0450 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	7,347.90	2,631.70
For Work In Restricted Working Space, Add	1,315.85	
26 05 19 16-0451 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,324.85	646.39
For Work In Restricted Working Space, Add	322.94	
26 05 19 16-0452 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,523.58	722.54
For Work In Restricted Working Space, Add	361.27	
26 05 19 16-0453 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,770.78	831.82
For Work In Restricted Working Space, Add	415.91	
26 05 19 16-0454 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,989.37	906.20
For Work In Restricted Working Space, Add	453.10	
26 05 19 16-0455 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,496.93	1,104.29
For Work In Restricted Working Space, Add	552.14	
26 05 19 16-0456 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,840.03	1,214.34
For Work In Restricted Working Space, Add	607.17	
26 05 19 16-0457 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,364.17	1,379.79
For Work In Restricted Working Space, Add	689.90	
26 05 19 16-0458 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,241.88	1,686.41
For Work In Restricted Working Space, Add	843.21	
26 05 19 16-0459 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,828.58	1,839.72
For Work In Restricted Working Space, Add	919.86	
26 05 19 16-0460 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable.....	5,658.05	1,897.41
For Work In Restricted Working Space, Add	948.70	
26 05 19 16-0461 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable.....	6,948.79	2,370.24
For Work In Restricted Working Space, Add	1,185.12	
26 05 19 16-0462 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable.....	8,319.17	2,770.21
For Work In Restricted Working Space, Add	1,385.10	
26 05 19 16-0463 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,426.14	674.72
For Work In Restricted Working Space, Add	337.36	
26 05 19 16-0464 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,684.82	758.96
For Work In Restricted Working Space, Add	379.48	
26 05 19 16-0465 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,966.25	867.49
For Work In Restricted Working Space, Add	433.75	
26 05 19 16-0466 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,195.84	934.28
For Work In Restricted Working Space, Add	467.14	
26 05 19 16-0467 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,884.60	1,145.28
For Work In Restricted Working Space, Add	572.64	
26 05 19 16-0468 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,303.28	1,264.93
For Work In Restricted Working Space, Add	632.60	
26 05 19 16-0469 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,996.87	1,411.67
For Work In Restricted Working Space, Add	705.83	
26 05 19 16-0470 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable.....	4,774.14	1,686.16
For Work In Restricted Working Space, Add	843.21	
26 05 19 16-0471 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable.....	7,712.13	1,959.39
For Work In Restricted Working Space, Add	979.44	
26 05 19 16-0472 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable.....	7,059.71	2,290.80
For Work In Restricted Working Space, Add	1,145.65	
26 05 19 16-0473 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable.....	8,164.55	2,559.98
For Work In Restricted Working Space, Add	1,279.99	
26 05 19 16-0474 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable.....	9,799.19	2,991.83
For Work In Restricted Working Space, Add	1,495.91	
26 05 19 16-0475 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable.....	1,635.94	722.54
For Work In Restricted Working Space, Add	361.27	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0476 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,929.29 399.59	799.44
26 05 19 16-0477 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,325.58 459.93	919.87
26 05 19 16-0478 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,607.58 489.53	979.06
26 05 19 16-0479 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,388.50 583.64	1,167.29
26 05 19 16-0480 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,156.65 689.90	1,379.79
26 05 19 16-0481 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,007.30 778.32	1,556.63
26 05 19 16-0482 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,933.40 892.92	1,785.84
26 05 19 16-0483 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,981.12 1,012.07	2,024.15
26 05 19 16-0484 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,851.43 1,182.84	2,365.68
26 05 19 16-0485 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,260.14 1,382.45	2,764.90
26 05 19 16-0486 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,364.67 1,615.83	3,231.65
26 05 19 16-0487 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,909.56 379.48	758.96
26 05 19 16-0488 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,338.52 415.91	832.33
26 05 19 16-0489 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,823.12 474.35	948.70
26 05 19 16-0490 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,252.89 514.58	1,029.15
26 05 19 16-0491 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,364.77 645.88	1,291.75
26 05 19 16-0492 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,141.98 722.91	1,445.82
26 05 19 16-0493 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,992.42 843.21	1,686.41
26 05 19 16-0494 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,058.31 964.26	1,928.52
26 05 19 16-0495 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,332.82 1,092.91	2,185.81
26 05 19 16-0496 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,638.99 1,277.33	2,554.67
26 05 19 16-0497 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,323.83 1,492.88	2,985.76
26 05 19 16-0498 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	14,889.59 1,745.23	3,490.47
26 05 19 16-0499 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011) Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0500 ACSR Cable (26 05 19 16-0499)		
26 05 19 16-0501 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,711.77	621.33
26 05 19 16-0502 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,791.70	645.16
26 05 19 16-0503 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,886.48	670.00
26 05 19 16-0504 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,967.23	694.26
26 05 19 16-0505 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,090.67	717.80
26 05 19 16-0506 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,394.89	813.70
26 05 19 16-0507 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,708.72	907.44
26 05 19 16-0508 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,040.70	1,002.48
26 05 19 16-0509 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	3,768.88	1,288.31
26 05 19 16-0510 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	4,309.39	1,477.82
26 05 19 16-0511 All Aluminum Conductors (26 05 19 16-0499)		
26 05 19 16-0512 MLF 795.0 ACSR Conductor Aluminum.....	32,388.41	12,104.86
26 05 19 16-0513 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0514 Bare Stranded Conductor (26 05 19 16-0513)		
26 05 19 16-0515 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,566.99	526.43
26 05 19 16-0516 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,836.31	573.81
26 05 19 16-0517 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,107.16	621.76
26 05 19 16-0518 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,582.23	670.00
26 05 19 16-0519 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,140.50	718.38
26 05 19 16-0520 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,499.24	861.65
26 05 19 16-0521 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,170.59	957.12
26 05 19 16-0522 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,900.83	1,050.86
26 05 19 16-0523 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,915.01	1,246.39
26 05 19 16-0524 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,605.44	1,433.02
26 05 19 16-0525 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,309.10	1,624.10
26 05 19 16-0526 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	13,050.44	1,914.10



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0527	MLF	300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	13,349.25	2,014.87
26 05 19 16-0528	MLF	350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,669.96	2,110.05
26 05 19 16-0529	MLF	400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	18,422.99	2,196.62
26 05 19 16-0530	MLF	500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	21,479.71	2,290.36
26 05 19 16-0531 Insulated Stranded Conductor (26 05 19 16-0513)				
26 05 19 16-0532	MLF	#12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,694.55	526.43
26 05 19 16-0533	MLF	#10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,000.90	573.81
26 05 19 16-0534	MLF	#8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,432.07	621.76
26 05 19 16-0535	MLF	#6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,643.74	670.00
26 05 19 16-0536	MLF	#4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,234.33	718.38
26 05 19 16-0537	MLF	#2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,363.73	861.65
26 05 19 16-0538	MLF	#1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,157.06	957.12
26 05 19 16-0539	MLF	1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,089.51	1,050.86
26 05 19 16-0540	MLF	2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	7,335.60	1,246.39
26 05 19 16-0541	MLF	3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,797.80	1,433.02
26 05 19 16-0542	MLF	4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	10,372.10	1,624.10
26 05 19 16-0543	MLF	250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	12,664.94	1,914.10
26 05 19 16-0544	MLF	300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	14,369.66	2,014.87
26 05 19 16-0545	MLF	350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	15,759.71	2,110.05
26 05 19 16-0546	MLF	400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	17,668.27	2,196.62
26 05 19 16-0547	MLF	500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	19,874.46	2,290.36
26 05 19 16-0548 Bare Solid Conductor (26 05 19 16-0513)				
26 05 19 16-0549	MLF	#12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,566.99	526.43
26 05 19 16-0550	MLF	#8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,107.16	621.76
26 05 19 16-0551	MLF	#6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,582.23	670.00
26 05 19 16-0552	MLF	#4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	3,101.73	718.38
26 05 19 16-0553 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)				
26 05 19 16-0554 Multi-Conductor Cords (26 05 19 16-0553)				
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.				
26 05 19 16-0555 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0554)				
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.				
26 05 19 16-0556 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0555)				
26 05 19 16-0557 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)				
26 05 19 16-0558	LF	2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.50	0.55
26 05 19 16-0559	LF	3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.58	0.55
26 05 19 16-0560	LF	4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.80	0.55
26 05 19 16-0561 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)				
26 05 19 16-0562	LF	2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.74	0.55
26 05 19 16-0563	LF	3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.88	0.55
26 05 19 16-0564	LF	4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.07	0.55
26 05 19 16-0565 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)				
26 05 19 16-0566	LF	2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.99	0.55
26 05 19 16-0567	LF	3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.21	0.55
26 05 19 16-0568	LF	4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.63	0.55
26 05 19 16-0569 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)				
26 05 19 16-0570	LF	2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.35	0.55
26 05 19 16-0571	LF	3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.61	0.55
26 05 19 16-0572	LF	4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.98	0.55
26 05 19 16-0573 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)				
26 05 19 16-0574	LF	2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.13	0.69
26 05 19 16-0575	LF	3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.31	0.69
26 05 19 16-0576	LF	4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.58	0.69
26 05 19 16-0577 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0556)				
26 05 19 16-0578 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)				
26 05 19 16-0579	LF	2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.58	0.55
26 05 19 16-0580	LF	3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.73	0.55
26 05 19 16-0581	LF	4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.94	0.55

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0582 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.48	0.75
26 05 19 16-0583 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.83	0.77
26 05 19 16-0584 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.08	0.79
26 05 19 16-0585 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.52	0.81
26 05 19 16-0586 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.23	0.85
26 05 19 16-0587 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.00	0.87
26 05 19 16-0588 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.05	0.89
26 05 19 16-0589 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.19	0.91
26 05 19 16-0590 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.41	0.93
26 05 19 16-0591 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.40	0.95
26 05 19 16-0592 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.96	0.97
26 05 19 16-0593 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.47	1.04
26 05 19 16-0594 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0595 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.87	0.55
26 05 19 16-0596 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.01	0.55
26 05 19 16-0597 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.28	0.55
26 05 19 16-0598 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.66	0.75
26 05 19 16-0599 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.07	0.77
26 05 19 16-0600 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.46	0.79
26 05 19 16-0601 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.98	0.81
26 05 19 16-0602 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.18	0.83
26 05 19 16-0603 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.79	0.85
26 05 19 16-0604 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.81	0.87
26 05 19 16-0605 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.34	0.89
26 05 19 16-0606 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.33	0.91
26 05 19 16-0607 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.68	0.93
26 05 19 16-0608 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.91	0.95
26 05 19 16-0609 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	13.26	0.97
26 05 19 16-0610 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.62	0.99
26 05 19 16-0611 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	17.09	1.04
26 05 19 16-0612 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0613 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.25	0.55
26 05 19 16-0614 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.40	0.55
26 05 19 16-0615 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.78	0.55
26 05 19 16-0616 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.85	0.75
26 05 19 16-0617 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.89	0.77
26 05 19 16-0618 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.22	0.79
26 05 19 16-0619 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.05	0.81
26 05 19 16-0620 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.59	0.83
26 05 19 16-0621 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.52	0.85
26 05 19 16-0622 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.40	0.87
26 05 19 16-0623 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.41	0.89
26 05 19 16-0624 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.59	0.91
26 05 19 16-0625 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.17	0.95
26 05 19 16-0626 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	16.77	0.97
26 05 19 16-0627 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	19.90	1.04
26 05 19 16-0628 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0629 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.63	0.55
26 05 19 16-0630 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.92	0.55
26 05 19 16-0631 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	3.21	0.55
26 05 19 16-0632 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.61	0.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0633 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.56	0.77
26 05 19 16-0634 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.52	0.79
26 05 19 16-0635 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.58	0.81
26 05 19 16-0636 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.31	0.83
26 05 19 16-0637 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.59	0.85
26 05 19 16-0638 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.10	0.87
26 05 19 16-0639 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.51	0.89
26 05 19 16-0640 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.92	0.91
26 05 19 16-0641 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.58	0.93
26 05 19 16-0642 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	18.02	0.95
26 05 19 16-0643 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	20.52	0.97
26 05 19 16-0644 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	23.04	0.99
26 05 19 16-0645 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	23.83	1.02
26 05 19 16-0646 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	24.71	1.04
26 05 19 16-0647 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0648 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.05	0.69
26 05 19 16-0649 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.30	0.69
26 05 19 16-0650 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.56	0.69
26 05 19 16-0651 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.81	0.75
26 05 19 16-0652 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.11	0.77
26 05 19 16-0653 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.59	0.79
26 05 19 16-0654 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.43	0.85
26 05 19 16-0655 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.29	0.87
26 05 19 16-0656 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	18.33	0.91
26 05 19 16-0657 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	26.85	0.95
26 05 19 16-0658 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0659 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.31	0.83
26 05 19 16-0660 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.89	0.97
26 05 19 16-0661 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.55	0.97
26 05 19 16-0662 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0663 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.22	0.97
26 05 19 16-0664 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.15	1.11
26 05 19 16-0665 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.39	1.38
26 05 19 16-0666 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0667 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	14.83	1.38
26 05 19 16-0668 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	16.31	1.52
26 05 19 16-0669 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.75	1.66
26 05 19 16-0670 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0671 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	21.89	2.77
26 05 19 16-0672 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	27.89	3.46
26 05 19 16-0673 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	33.53	4.57
26 05 19 16-0674 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0655)		
26 05 19 16-0675 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)		
26 05 19 16-0676 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.07	0.55
26 05 19 16-0677 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.31	0.55
26 05 19 16-0678 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.80	0.55
26 05 19 16-0679 #16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)		

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26 05 19 16-0680	LF	2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.22	0.55
26 05 19 16-0681	LF	3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.61	0.55
26 05 19 16-0682	LF	4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.78	0.55
26 05 19 16-0683		#14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)		
26 05 19 16-0684	LF	2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.18	0.55
26 05 19 16-0685	LF	3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	4.74	0.55
26 05 19 16-0686	LF	4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	6.14	0.69
26 05 19 16-0687		600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0555)		
26 05 19 16-0688		#18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0689	LF	2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.06	0.55
26 05 19 16-0690	LF	3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.72	0.55
26 05 19 16-0691	LF	4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.41	0.55
26 05 19 16-0692		#16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0693	LF	2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.30	0.55
26 05 19 16-0694	LF	3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.97	0.55
26 05 19 16-0695	LF	4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.03	0.55
26 05 19 16-0696	LF	5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.44	0.69
26 05 19 16-0697		#14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0698	LF	3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.12	0.55
26 05 19 16-0699	LF	4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.99	0.55
26 05 19 16-0700	LF	5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.59	0.69
26 05 19 16-0701		#12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0702	LF	3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.94	0.55
26 05 19 16-0703	LF	4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.70	0.55
26 05 19 16-0704	LF	5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.38	0.69
26 05 19 16-0705		#10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0706	LF	3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.68	0.69
26 05 19 16-0707	LF	4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.36	0.69
26 05 19 16-0708	LF	5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	7.03	0.69
26 05 19 16-0709		Multi-Conductor Type SEOW Cord (26 05 19 16-0554) Note: includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0710		600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0709)		
26 05 19 16-0711		#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0712	LF	3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.25	0.55
26 05 19 16-0713	LF	4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.51	0.55
26 05 19 16-0714	LF	5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.94	0.69
26 05 19 16-0715		#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0716	LF	3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.05	0.55
26 05 19 16-0717	LF	4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.55	0.55
26 05 19 16-0718	LF	5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.20	0.69



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26 05 19 16-0719	#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0720	LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.87	0.55
26 05 19 16-0721	LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.51	0.55
26 05 19 16-0722	LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.73	0.69
26 05 19 16-0723	#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0724	LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.95	0.69
26 05 19 16-0725	LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.73	0.69
26 05 19 16-0726	LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	6.15	0.69
26 05 19 16-0727	Multi-Conductor Type W Cord (26 05 19 16-0554) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0728	2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0727)		
26 05 19 16-0729	#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0730	LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.97	0.83
26 05 19 16-0731	LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.50	0.97
26 05 19 16-0732	LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.93	0.97
26 05 19 16-0733	#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0734	LF 3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.46	0.97
26 05 19 16-0735	LF 4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.91	1.11
26 05 19 16-0736	LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	11.11	1.38
26 05 19 16-0737	#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0738	LF 3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.33	0.97
26 05 19 16-0739	LF 4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	12.22	1.11
26 05 19 16-0740	LF 5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	15.76	1.38
26 05 19 16-0741	Cord Grips, Cable Reels, Extension Cords, And Accessories (26 05 19 16-0553)		
26 05 19 16-0742	Cord Grips (26 05 19 16-0741)		
26 05 19 16-0743	EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	86.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.17	
26 05 19 16-0744	EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	87.19	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.17	
26 05 19 16-0745	Cable Reels (26 05 19 16-0741)		
	Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0746	EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	830.40	69.22
26 05 19 16-0747	EA 50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	2,317.11	69.22
26 05 19 16-0748	EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,729.42	69.22
26 05 19 16-0749	Extension Cords For Cable Reel (26 05 19 16-0741)		
26 05 19 16-0750	EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	177.91	
26 05 19 16-0751	EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	248.52	
26 05 19 16-0752	Plugs And Connector Bodies (26 05 19 16-0741)		
	Note: Up to 277 volt		
26 05 19 16-0753	NEMA Twist-Lock Plugs (26 05 19 16-0752)		
26 05 19 16-0754	EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	97.13	
26 05 19 16-0755	EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	99.28	
26 05 19 16-0756	EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	90.24	
26 05 19 16-0757	EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	96.86	
26 05 19 16-0758	EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	127.91	
26 05 19 16-0759	EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	136.32	
26 05 19 16-0760	EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	144.55	
26 05 19 16-0761	EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	129.16	
26 05 19 16-0762	EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	149.38	
26 05 19 16-0763	EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	153.31	
26 05 19 16-0764	EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	158.32	
26 05 19 16-0765	NEMA Twist-Lock Connector Bodies (26 05 19 16-0752)		
26 05 19 16-0766	EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	103.21	
26 05 19 16-0767	EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	110.82	
26 05 19 16-0768	EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	94.81	
26 05 19 16-0769	EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	129.16	

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26 05 19 16-0770 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK)	151.34	
26 05 19 16-0771 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443)	162.08	
26 05 19 16-0772 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK)	198.22	
26 05 19 16-0773 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK)	189.10	
26 05 19 16-0774 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK)	234.36	
26 05 19 16-0775 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753)	246.35	
26 05 19 16-0776 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK)	233.29	
26 05 19 16-0777 Watertight Pin And Sleeve Plug (26 05 19 16-0752)		
26 05 19 16-0778 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W)	258.67	41.53
26 05 19 16-0779 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W)	261.22	41.53
26 05 19 16-0780 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W)	280.99	41.53
26 05 19 16-0781 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W)	283.34	45.69
26 05 19 16-0782 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W)	279.51	45.69
26 05 19 16-0783 EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W)	280.65	45.69
26 05 19 16-0784 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W)	388.91	51.09
26 05 19 16-0785 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W)	379.35	51.09
26 05 19 16-0786 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W)	420.39	51.09
26 05 19 16-0787 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W)	415.75	56.07
26 05 19 16-0788 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W)	399.15	56.07
26 05 19 16-0789 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W)	410.57	56.07
26 05 19 16-0790 EA 60 Amperes, 3 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W)	527.06	66.45
26 05 19 16-0791 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W)	536.15	66.45
26 05 19 16-0792 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W)	514.58	66.45
26 05 19 16-0793 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W)	585.22	73.93
26 05 19 16-0794 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W)	571.06	73.93
26 05 19 16-0795 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W)	577.18	73.93
26 05 19 16-0796 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W)	719.54	83.07
26 05 19 16-0797 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W)	754.68	83.07
26 05 19 16-0798 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W)	740.57	91.38
26 05 19 16-0799 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W)	728.57	91.38
26 05 19 16-0800 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W)	735.05	91.38
26 05 19 16-0801 Watertight Pin And Sleeve Connector (26 05 19 16-0752)		
26 05 19 16-0802 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	273.32	41.53
26 05 19 16-0803 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	275.08	41.53
26 05 19 16-0804 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	320.62	41.53
26 05 19 16-0805 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	320.25	45.69
26 05 19 16-0806 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	315.63	45.69
26 05 19 16-0807 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	319.81	45.69
26 05 19 16-0808 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	397.66	51.09
26 05 19 16-0809 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	397.56	51.09
26 05 19 16-0810 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	413.27	51.09
26 05 19 16-0811 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	411.48	56.07
26 05 19 16-0812 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	414.72	56.07
26 05 19 16-0813 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	411.30	56.07
26 05 19 16-0814 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	616.82	66.45
26 05 19 16-0815 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	597.58	66.45
26 05 19 16-0816 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	586.12	66.45
26 05 19 16-0817 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	638.64	73.93
26 05 19 16-0818 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	655.37	73.93
26 05 19 16-0819 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	656.59	73.93
26 05 19 16-0820 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	818.00	83.07
26 05 19 16-0821 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	840.06	83.07
26 05 19 16-0822 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	908.50	91.38
26 05 19 16-0823 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	878.19	91.38
26 05 19 16-0824 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	888.53	91.38
26 05 19 16-0825 Accessories (26 05 19 16-0741)		
26 05 19 16-0826 EA 1/2" Straight Steel Cord Connector	58.58	13.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 19 16-0827 EA 1/2" Straight Nylon Cord Connector	36.22	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0828 EA 1/2" 90 Degree Steel Cord Connector	67.81	17.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	
26 05 19 16-0829 EA 1/2" 90 Degree Nylon Cord Connector	44.29	13.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 19 16-0830 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh	67.04	17.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	
26 05 19 16-0831 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh	111.25	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 05 19 16-0832 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh	43.70	13.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 19 16-0833 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh	70.63	17.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 19 16-0834 EA 3/4" Straight Steel Cord Connector	60.74	13.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.30	



Electrical		26
Common Work Results for Electrical		26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0835	EA		3/4" Straight Nylon Cord Connector.....	37.30	10.38
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0836	EA		3/4" 90 Degree Steel Cord Connector	74.60	17.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	
26 05 19 16-0837	EA		3/4" 90 Degree Nylon Cord Connector	47.69	13.85
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 19 16-0838	EA		3/4" Straight Steel Cord Connector With Strain Relief Mesh	76.25	20.77
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 05 19 16-0839	EA		3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh	90.45	24.23
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.54	
26 05 19 16-0840	EA		3/4" Straight Nylon Cord Connector With Strain Relief Mesh	52.91	17.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 19 16-0841	EA		3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh	63.83	20.77
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 05 19 16-0842	EA		1" Straight Steel Cord Connector.....	74.69	13.85
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.30	
26 05 19 16-0843	EA		1" Straight Nylon Cord Connector.....	44.28	10.38
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0844	EA		1" 90 Degree Steel Cord Connector	83.82	17.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	
26 05 19 16-0845	EA		1" 90 Degree Nylon Cord Connector	52.29	13.85
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 19 16-0846	EA		1" Straight Steel Cord Connector With Strain Relief Mesh	90.90	20.77
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 05 19 16-0847	EA		1" 90 Degree Steel Cord Connector With Strain Relief Mesh	100.12	24.23
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.54	
26 05 19 16-0848	EA		1" Straight Nylon Cord Connector With Strain Relief Mesh	60.34	17.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 19 16-0849	EA		1" 90 Degree Nylon Cord Connector With Strain Relief Mesh	70.12	20.77
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	

26 05 23 Control-Voltage Electrical Power Cables (26 05)

26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)

26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)

Note: For surface or conduit installation.

26 05 23 00-0003	MLF	#20/2 Conductor, Low Volt Thermostat Cable	543.99	161.28
26 05 23 00-0004	MLF	#20/3 Conductor, Low Volt Thermostat Cable	620.01	169.88
26 05 23 00-0005	MLF	#20/4 Conductor, Low Volt Thermostat Cable	671.66	179.62
26 05 23 00-0006	MLF	#20/5 Conductor, Low Volt Thermostat Cable	802.70	187.21
26 05 23 00-0007	MLF	#20/6 Conductor, Low Volt Thermostat Cable	841.29	196.07
26 05 23 00-0008	MLF	#20/7 Conductor, Low Volt Thermostat Cable	925.11	204.22
26 05 23 00-0009	MLF	#20/8 Conductor, Low Volt Thermostat Cable	997.99	212.38
26 05 23 00-0010	MLF	#20/9 Conductor, Low Volt Thermostat Cable	1,082.82	220.86
26 05 23 00-0011	MLF	#20/10 Conductor, Low Volt Thermostat Cable	1,164.21	227.49
26 05 23 00-0012	MLF	#18/2 Conductor, Low Volt Thermostat Cable	589.78	161.28
26 05 23 00-0013	MLF	#18/3 Conductor, Low Volt Thermostat Cable	701.70	169.88
26 05 23 00-0014	MLF	#18/4 Conductor, Low Volt Thermostat Cable	801.26	179.62
26 05 23 00-0015	MLF	#18/5 Conductor, Low Volt Thermostat Cable	856.20	187.21
26 05 23 00-0016	MLF	#18/6 Conductor, Low Volt Thermostat Cable	948.76	196.07
26 05 23 00-0017	MLF	#18/7 Conductor, Low Volt Thermostat Cable	974.46	204.22
26 05 23 00-0018	MLF	#18/8 Conductor, Low Volt Thermostat Cable	1,073.30	212.38
26 05 23 00-0019	MLF	#18/9 Conductor, Low Volt Thermostat Cable	1,263.50	220.86
26 05 23 00-0020	MLF	#18/10 Conductor, Low Volt Thermostat Cable	1,387.07	227.49

26 05 29 Hangers and Supports for Electrical Systems (26 05)

26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)

26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001)

Note: Excludes fasteners and accessories.

26 05 29 00-0003 14 Gauge Metal Framing Channels (26 05 29 00-0002)

26 05 29 00-0004 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)

26 05 29 00-0005	EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	22.62	7.59
26 05 29 00-0006	EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	23.72	7.59
26 05 29 00-0007	LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	10.61	2.86

26 05 29 00-0008 14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)

26 05 29 00-0009	EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	40.62	7.59
26 05 29 00-0010	EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	44.82	7.59
26 05 29 00-0011	EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	59.72	7.59
26 05 29 00-0012	EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	68.14	7.59
26 05 29 00-0013	LF	>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	28.61	2.86
26 05 29 00-0014	LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	32.81	2.86

26 05 29 00-0015 14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0016	EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	58.77	7.59	
26 05 29 00-0017	EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	96.04	7.59	
26 05 29 00-0018	LF	>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	46.76	2.86	
26 05 29 00-0019		12 Gauge Metal Framing Channels (26 05 29 00-0002)			
26 05 29 00-0020		12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)			
26 05 29 00-0021	EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	23.81	7.59	
26 05 29 00-0022	EA	Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	23.41	7.59	
26 05 29 00-0023	EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	23.14	7.59	
26 05 29 00-0024	EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	26.11	7.59	
26 05 29 00-0025	EA	>1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	25.30	7.59	
26 05 29 00-0026	EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	24.78	7.59	
26 05 29 00-0027	LF	>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	11.80	2.86	
26 05 29 00-0028	LF	>2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	11.40	2.86	
26 05 29 00-0029	LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	11.13	2.86	
26 05 29 00-0030		12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)			
26 05 29 00-0031	EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	46.21	7.59	
26 05 29 00-0032	EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	53.47	7.59	
26 05 29 00-0033	EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	70.92	7.59	
26 05 29 00-0034	EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	85.43	7.59	
26 05 29 00-0035	LF	>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	34.20	2.86	
26 05 29 00-0036	LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	41.46	2.86	
26 05 29 00-0037		Metal Framing Channel Fittings (26 05 29 00-0001)			
26 05 29 00-0038		Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)			
26 05 29 00-0039		Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)			
26 05 29 00-0040	LF	Steel Raceway Closure Strip, Unistrut Channel Fittings	5.47	0.69	
26 05 29 00-0041	EA	Steel End Cap, Unistrut Channel Fittings.....	15.48	6.93	
26 05 29 00-0042		Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)			
26 05 29 00-0043	EA	Stainless Steel End Cap For Unistrut Channel	24.73	6.93	
26 05 29 00-0044		Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0037)			
26 05 29 00-0045		Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)			
26 05 29 00-0046	EA	2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	5.83		
26 05 29 00-0047	EA	2-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	5.80		
26 05 29 00-0048	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	6.85		
26 05 29 00-0049		Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)			
26 05 29 00-0050	EA	2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	20.37		
26 05 29 00-0051	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	30.23		
26 05 29 00-0052	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	38.58		
26 05 29 00-0053		90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)			
26 05 29 00-0054		Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)			
26 05 29 00-0055	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	5.67		
26 05 29 00-0056	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting	4.90		
26 05 29 00-0057	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.78		
26 05 29 00-0058	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.69		
26 05 29 00-0059		Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)			
26 05 29 00-0060	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	11.72		
26 05 29 00-0061	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	14.62		
26 05 29 00-0062	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	12.42		
26 05 29 00-0063	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	17.58		
26 05 29 00-0064	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	16.08		
26 05 29 00-0065	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	29.55		
26 05 29 00-0066	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	16.90		
26 05 29 00-0067	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	24.44		
26 05 29 00-0068		60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)			
26 05 29 00-0069		Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)			
26 05 29 00-0070	EA	2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	10.74		



Electrical		26
Common Work Results for Electrical		26 05
Hangers and Supports for Electrical Systems		26 05 29

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 29 00-0071	U-Connector, Unistrut Channel Fittings (26 05 29 00-0037)				
26 05 29 00-0072	Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)				
26 05 29 00-0073	EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	4.39			
26 05 29 00-0074	EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	4.79			
26 05 29 00-0075	Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)				
26 05 29 00-0076	EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting	24.27			
26 05 29 00-0077	Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0037)				
26 05 29 00-0078	Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)				
26 05 29 00-0079	EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	10.99			
26 05 29 00-0080	Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)				
26 05 29 00-0081	EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting	47.07			
26 05 29 00-0082	Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0037)				
Note: Includes hex screw and nut.					
26 05 29 00-0083	Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)				
Note: Includes hex screw and nut.					
26 05 29 00-0084	EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.30		2.08	
26 05 29 00-0085	EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.31		2.08	
26 05 29 00-0086	EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.40		2.08	
26 05 29 00-0087	EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.92		2.77	
26 05 29 00-0088	EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	7.38		2.77	
26 05 29 00-0089	EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	7.43		2.77	
26 05 29 00-0090	EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.14		3.46	
26 05 29 00-0091	EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.55		3.46	
26 05 29 00-0092	EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.94		3.46	
26 05 29 00-0093	EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.09		3.46	
26 05 29 00-0094	304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)				
Note: Includes hex screw and nut.					
26 05 29 00-0095	EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.45		2.08	
26 05 29 00-0096	EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.55		2.08	
26 05 29 00-0097	EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	11.65		2.08	
26 05 29 00-0098	EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	14.49		2.77	
26 05 29 00-0099	EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	17.55		2.77	
26 05 29 00-0100	EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	18.35		2.77	
26 05 29 00-0101	EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	22.02		3.46	
26 05 29 00-0102	EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	24.74		3.46	
26 05 29 00-0103	EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	25.91		3.46	
26 05 29 00-0104	EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	30.23		3.46	
26 05 29 00-0105	316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)				
Note: Includes hex screw and nut.					
26 05 29 00-0106	EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.12		2.08	
26 05 29 00-0107	EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	11.68		2.08	
26 05 29 00-0108	EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	12.12		2.08	
26 05 29 00-0109	EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	14.71		2.77	
26 05 29 00-0110	EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	20.05		2.77	
26 05 29 00-0111	EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	20.32		2.77	
26 05 29 00-0112	EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	24.09		3.46	
26 05 29 00-0113	EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	25.47		3.46	
26 05 29 00-0114	EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	35.32		3.46	
26 05 29 00-0115	EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	41.34		3.46	
26 05 29 00-0116	Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0037)				
26 05 29 00-0117	Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)				
26 05 29 00-0118	EA Set Screw Beam Clamp, Steel Unistrut Channel Fitting	37.26		12.65	
26 05 29 00-0119	EA "C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	28.07		12.65	
26 05 29 00-0120	EA "U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	36.32		12.65	
26 05 29 00-0121	304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)				
26 05 29 00-0122	EA "U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting	57.89		12.65	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST	
26 05 29 00-0123		Square Washers For Unistrut Channel (26 05 29 00-0037)				
26 05 29 00-0124		Steel Square Washers For Unistrut Channel (26 05 29 00-0123)				
26 05 29 00-0125	EA	1/2" Bolt Size, Steel, Square Washer For Unistrut Channel.....	4.23			
26 05 29 00-0126		Stainless Steel Square Washers For Unistrut Channel (26 05 29 00-0123)				
26 05 29 00-0127	EA	1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel.....	5.86			
26 05 29 00-0128	EA	1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel.....	7.36			
26 05 29 00-0129		Strut Braces, Unistrut Channel Fittings (26 05 29 00-0037)				
26 05 29 00-0130	EA	16" Diagonal Steel Bar Brace For Unistrut Channel.....	28.58			
26 05 29 00-0131		Trolley Hangers, Unistrut Channel Fittings (26 05 29 00-0037)				
26 05 29 00-0132	EA	Steel Trolley Track Hanger For Unistrut Channel.....	35.89			
26 05 29 00-0133		Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0037)				
		Note: Includes hex bolt.				
26 05 29 00-0134		Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133)				
		Note: Includes hex bolt.				
26 05 29 00-0135	EA	1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	8.51			
26 05 29 00-0136	EA	3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	9.07			
26 05 29 00-0137	EA	1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	9.49			
26 05 29 00-0138	EA	5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	11.76			
26 05 29 00-0139		Stainless Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133)				
		Note: Includes hex bolt.				
26 05 29 00-0140	EA	1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	15.76			
26 05 29 00-0141	EA	3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	16.78			
26 05 29 00-0142	EA	1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	23.82			
26 05 29 00-0143	EA	5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	40.87			
26 05 29 00-0144		Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0037)				
		Note: Includes hex bolt.				
26 05 29 00-0145		Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144)				
		Note: Includes hex bolt.				
26 05 29 00-0146	EA	1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	8.53			
26 05 29 00-0147	EA	3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	9.15			
26 05 29 00-0148	EA	1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	9.52			
26 05 29 00-0149	EA	5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	12.42			
26 05 29 00-0150		Stainless Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144)				
		Note: Includes hex bolt.				
26 05 29 00-0151	EA	1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	11.24			
26 05 29 00-0152	EA	3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	13.59			
26 05 29 00-0153	EA	1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	14.83			
26 05 29 00-0154	EA	5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	39.81			
26 05 29 00-0155		Mounting Assemblies (26 05 29)				
26 05 29 00-0156		Galvanized Steel Mounting Assemblies (26 05 29 00-0155)				
26 05 29 00-0157		Galvanized Steel Back Plate (26 05 29 00-0156)				
26 05 29 00-0158	EA	1/4" x 4' x 4', Galvanized Steel Back Plate, Painted.....	452.23		83.07	
26 05 29 00-0159	EA	3/8" x 14" x 16", Galvanized Steel Back Plate, Painted.....	115.68		27.69	
26 05 29 00-0160	EA	3/16" x 30" x 48", Galvanized Steel Back Plate, Painted.....	292.33		69.22	
26 05 29 00-0161		Aluminum Mounting Assemblies (26 05 29 00-0155)				
26 05 29 00-0162		Aluminum Back Plate (26 05 29 00-0161)				
26 05 29 00-0163	EA	3/16" x 2' x 2' Aluminum Back Plate.....	354.15		103.83	
26 05 29 00-0164	EA	3/16" x 4' x 4' Aluminum Back Plate.....	891.59		103.83	
26 05 29 00-0165		Supports (26 05 29)				
26 05 29 00-0166		One Hole Steel Conduit Straps (26 05 29 00-0165)				



Electrical		26
Common Work Results for Electrical		26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0167	EA	1/2"	One Hole Steel Conduit Strap 4.87		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.37	
26 05 29 00-0168	EA	3/4"	One Hole Steel Conduit Strap 4.92		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.38	
26 05 29 00-0169	EA	1"	One Hole Steel Conduit Strap 5.13		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.40	
26 05 29 00-0170	EA	1-1/4"	One Hole Steel Conduit Strap 5.30		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.42	
26 05 29 00-0171	EA	1-1/2"	One Hole Steel Conduit Strap 5.40		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.43	
26 05 29 00-0172	EA	2"	One Hole Steel Conduit Strap 6.07		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.49	
26 05 29 00-0173	EA	2-1/2"	One Hole Steel Conduit Strap 6.74		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.06	
			For >500, Deduct	-1.56	
26 05 29 00-0174	EA	3"	One Hole Steel Conduit Strap 6.97		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.08	
			For >500, Deduct	-1.58	
26 05 29 00-0175	EA	3-1/2"	One Hole Steel Conduit Strap 8.08		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-1.16	
			For >500, Deduct	-1.69	
26 05 29 00-0176	EA	4"	One Hole Steel Conduit Strap 8.97		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.23	
			For >500, Deduct	-1.78	
26 05 29 00-0177	One Hole Iron Conduit Straps (26 05 29 00-0165)				
26 05 29 00-0178	EA	1/2"	One Hole Iron Conduit Strap 4.98		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0179	EA	3/4"	One Hole Iron Conduit Strap 5.09		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.40	
26 05 29 00-0180	EA	1"	One Hole Iron Conduit Strap 5.28		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.41	
26 05 29 00-0181	EA	1-1/4"	One Hole Iron Conduit Strap 5.74		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.98	
			For >500, Deduct	-1.46	
26 05 29 00-0182	EA	1-1/2"	One Hole Iron Conduit Strap 5.92		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-1.00	
			For >500, Deduct	-1.48	
26 05 29 00-0183	EA	2"	One Hole Iron Conduit Strap 7.10		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-1.09	
			For >500, Deduct	-1.60	
26 05 29 00-0184	EA	2-1/2"	One Hole Iron Conduit Strap 9.61		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.35	
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.27	
			For >500, Deduct	-1.85	
26 05 29 00-0185	EA	3"	One Hole Iron Conduit Strap 11.71		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.81	
			For >250 To 500, Deduct	-1.43	
			For >500, Deduct	-2.06	
26 05 29 00-0186	EA	3-1/2"	One Hole Iron Conduit Strap 14.78		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.66	
			For >500, Deduct	-2.36	
26 05 29 00-0187	EA	4"	One Hole Iron Conduit Strap 27.06		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.79	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.59	
26 05 29 00-0188	EA	5"	One Hole Iron Conduit Strap 33.67		
			For Work In Restricted Working Space, Add	1.33	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.95	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-3.08	
			For >500, Deduct	-4.25	
26 05 29 00-0189			Two Hole Steel Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0190	EA	1/2"	Two Hole Steel Conduit Strap 5.61		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.04	
			For >500, Deduct	-1.56	
26 05 29 00-0191	EA	3/4"	Two Hole Steel Conduit Strap 5.68		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.05	
			For >500, Deduct	-1.56	



		Electrical	26
		Common Work Results for Electrical	26 05
		Hangers and Supports for Electrical Systems	26 05 29

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0192	EA	1"	Two Hole Steel Conduit Strap 5.71		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.05	
			For >500, Deduct	-1.57	
26 05 29 00-0193	EA	1-1/4"	Two Hole Steel Conduit Strap 5.77		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.06	
			For >500, Deduct	-1.57	
26 05 29 00-0194	EA	1-1/2"	Two Hole Steel Conduit Strap 5.80		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.06	
			For >500, Deduct	-1.58	
26 05 29 00-0195	EA	2"	Two Hole Steel Conduit Strap 5.89		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.06	
			For >500, Deduct	-1.59	
26 05 29 00-0196	EA	2-1/2"	Two Hole Steel Conduit Strap 6.40		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.10	
			For >500, Deduct	-1.64	
26 05 29 00-0197	EA	3"	Two Hole Steel Conduit Strap 6.51		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.11	
			For >500, Deduct	-1.65	
26 05 29 00-0198	EA	3-1/2"	Two Hole Steel Conduit Strap 6.91		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-1.14	
			For >500, Deduct	-1.69	
26 05 29 00-0199	EA	4"	Two Hole Steel Conduit Strap 7.18		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.16	
			For >500, Deduct	-1.71	
26 05 29 00-0200	EA	5"	Two Hole Steel Conduit Strap 7.54		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.45	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-1.19	
			For >500, Deduct	-1.75	
26 05 29 00-0201	Clamp Back Spacers (26 05 29 00-0165)				
26 05 29 00-0202	EA	1/2"	Conduit, Clamp Back Spacer.....4.24		
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.75	
			For >500, Deduct	-1.12	
26 05 29 00-0203	EA	3/4"	Conduit, Clamp Back Spacer.....4.49		
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.77	
			For >500, Deduct	-1.14	
26 05 29 00-0204	EA	1"	Conduit, Clamp Back Spacer.....4.72		
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.79	
			For >500, Deduct	-1.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0205	EA		1-1/4" Conduit, Clamp Back Spacer	5.61	
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.25	
26 05 29 00-0206	EA		1-1/2" Conduit, Clamp Back Spacer	6.33	
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.91	
			For >500, Deduct	-1.33	
26 05 29 00-0207	EA		2" Conduit, Clamp Back Spacer	7.08	
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.40	
26 05 29 00-0208	EA		2-1/2" Conduit, Clamp Back Spacer	10.15	
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.19	
			For >500, Deduct	-1.71	
26 05 29 00-0209	EA		3" Conduit, Clamp Back Spacer	13.82	
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.43	
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-2.07	
26 05 29 00-0210	EA		3-1/2" Conduit, Clamp Back Spacer	17.37	
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.52	
			For >100 To 250, Deduct	-1.04	
			For >250 To 500, Deduct	-1.74	
			For >500, Deduct	-2.43	
26 05 29 00-0211	EA		4" Conduit, Clamp Back Spacer	34.08	
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-0.94	
			For >100 To 250, Deduct	-1.88	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-4.10	
26 05 29 00-0212	EA		5" Conduit, Clamp Back Spacer	62.28	
			For Work In Restricted Working Space, Add	1.04	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
			For >50 To 100, Deduct	-1.64	
			For >100 To 250, Deduct	-3.29	
			For >250 To 500, Deduct	-5.10	
			For >500, Deduct	-6.92	
26 05 29 00-0213			Conduit Clips (26 05 29 00-0165)		
			Note: Push in or clip.		
26 05 29 00-0214	EA		1/2" Conduit Clip	5.37	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.42	
26 05 29 00-0215	EA		3/4" Conduit Clip	5.37	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.42	
26 05 29 00-0216	EA		1" Conduit Clip	5.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.42	
26 05 29 00-0217	EA		1-1/4" Conduit Clip	5.48	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.21	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.43	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0218			Bolt And Nut Conduit Clips (26 05 29 00-0165)		
26 05 29 00-0219	EA		3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	6.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.49	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.19	
			For >500, Deduct	-1.78	
26 05 29 00-0220	EA		1" Bolt And Nut Conduit Clip (Minerallac 2B).....	6.86	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.49	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.21	
			For >500, Deduct	-1.79	
26 05 29 00-0221	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	7.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.57	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.28	
			For >500, Deduct	-1.91	
26 05 29 00-0222	EA		1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	7.41	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.57	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.29	
			For >500, Deduct	-1.92	
26 05 29 00-0223	EA		2" Bolt And Nut Conduit Clip (Minerallac 5B).....	8.10	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.57	
			For >50 To 100, Deduct	-0.35	
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.34	
			For >500, Deduct	-1.99	
26 05 29 00-0224	EA		2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	8.75	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.66	
			For >50 To 100, Deduct	-0.37	
			For >100 To 250, Deduct	-0.75	
			For >250 To 500, Deduct	-1.44	
			For >500, Deduct	-2.12	
26 05 29 00-0225	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	9.36	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.66	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.48	
			For >500, Deduct	-2.18	
26 05 29 00-0226	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	15.87	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.83	
			For >50 To 100, Deduct	-0.57	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.97	
26 05 29 00-0227			Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0165)		
			Note: Bat wing.		
26 05 29 00-0228	EA		1/2", Conduit Hanger From Flange, Wire Or Rod.....	3.92	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.06	
26 05 29 00-0229	EA		3/4", Conduit Hanger From Flange, Wire Or Rod.....	3.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.06	
26 05 29 00-0230	EA		1", Conduit Hanger From Flange, Wire Or Rod.....	4.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.72	
			For >500, Deduct	-1.08	
26 05 29 00-0231	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod.....	4.45	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.75	
			For >500, Deduct	-1.11	
26 05 29 00-0232			Beam Flange Clamps (26 05 29 00-0165)		
			Note: For threaded rod, nut not required.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0233 EA 1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24)	5.41	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.84	
For >500, Deduct	-1.23	
26 05 29 00-0234 EA 5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58)	5.32	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.22	
26 05 29 00-0235 EA 9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912)	5.86	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.87	
For >500, Deduct	-1.28	
26 05 29 00-0236 T-Bar Support Clips (26 05 29 00-0165)		
26 05 29 00-0237 EA 9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95)	9.28	
For >50 To 100, Deduct	-0.41	
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-2.31	
26 05 29 00-0238 EA 15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS)	8.87	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.79	
For >250 To 500, Deduct	-1.53	
For >500, Deduct	-2.27	
26 05 29 00-0239 EA 15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16)	3.18	
For >50 To 100, Deduct	-0.12	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.45	
For >500, Deduct	-0.66	
26 05 29 00-0240 EA 24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512)	23.61	
For >50 To 100, Deduct	-0.66	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.92	
26 05 29 00-0241 Switch And Outlet Box Type Supports (26 05 29 00-0165)		
26 05 29 00-0242 EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS)	6.33	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.82	
For >500, Deduct	-1.19	
26 05 29 00-0243 EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500)	5.45	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.76	
For >500, Deduct	-1.10	
26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO)	6.21	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.18	
26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF)	4.20	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.66	
For >500, Deduct	-0.97	
26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI)	4.36	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.67	
For >500, Deduct	-0.99	
26 05 29 00-0247 Lighting Fixture Hanger (26 05 29 00-0165)		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	6.39	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.17	
For >500, Deduct	-1.75	
26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	19.41	
For >50 To 100, Deduct	-0.62	
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-3.05	
26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	26.24	
For >50 To 100, Deduct	-0.79	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-2.66	
For >500, Deduct	-3.73	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0251			Rigid Steel Conduit Clamps For Unistrut Channel ^(26 05 29 00-0165)		
26 05 29 00-0252	EA		1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.30	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.36	
			For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0253	EA		3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.31	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.36	
			For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0254	EA		1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.40	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.37	
			For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0255	EA		1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	6.91	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.21	
			For >500, Deduct	-1.80	
			For Work In Restricted Working Space, Add	1.66	
26 05 29 00-0256	EA		1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	7.37	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.25	
			For >500, Deduct	-1.85	
			For Work In Restricted Working Space, Add	1.66	
26 05 29 00-0257	EA		2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	7.42	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.25	
			For >500, Deduct	-1.85	
			For Work In Restricted Working Space, Add	1.66	
26 05 29 00-0258	EA		2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.13	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-2.30	
			For Work In Restricted Working Space, Add	2.08	
26 05 29 00-0259	EA		3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.54	
			For >50 To 100, Deduct	-0.41	
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-2.34	
			For Work In Restricted Working Space, Add	2.08	
26 05 29 00-0260	EA		3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.93	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.61	
			For >500, Deduct	-2.38	
			For Work In Restricted Working Space, Add	2.08	
26 05 29 00-0261	EA		4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	10.08	
			For >50 To 100, Deduct	-0.43	
			For >100 To 250, Deduct	-0.85	
			For >250 To 500, Deduct	-1.62	
			For >500, Deduct	-2.39	
			For Work In Restricted Working Space, Add	2.08	
26 05 29 00-0262			Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel ^(26 05 29 00-0165)		
26 05 29 00-0263	EA		1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.60	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.39	
			For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0264	EA		3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.56	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.39	
			For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0265	EA		1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.51	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.38	
			For Work In Restricted Working Space, Add	1.25	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0266	EA		1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	7.28	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.24	
			For >500, Deduct	-1.84	
			For Work In Restricted Working Space, Add	1.66	
26 05 29 00-0267	EA		1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.08	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.30	
			For >500, Deduct	-1.92	
			For Work In Restricted Working Space, Add	1.66	
26 05 29 00-0268	EA		2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.13	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.30	
			For >500, Deduct	-1.92	
			For Work In Restricted Working Space, Add	1.66	
26 05 29 00-0269 "J" Type Conduit Hangers (26 05 29 00-0165)					
26 05 29 00-0270	EA		1/2", "J" Type Conduit Hanger (Unistrut J1205).....	24.04	
			For >50 To 100, Deduct	-0.84	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-3.01	
			For >500, Deduct	-4.34	
			For Work In Restricted Working Space, Add	2.91	
26 05 29 00-0271	EA		3/4", "J" Type Conduit Hanger (Unistrut J1207).....	24.29	
			For >50 To 100, Deduct	-0.85	
			For >100 To 250, Deduct	-1.70	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-4.37	
			For Work In Restricted Working Space, Add	2.91	
26 05 29 00-0272	EA		1", "J" Type Conduit Hanger (Unistrut J1210).....	25.90	
			For >50 To 100, Deduct	-0.92	
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-3.33	
			For >500, Deduct	-4.80	
			For Work In Restricted Working Space, Add	3.32	
26 05 29 00-0273	EA		1-1/4", "J" Type Conduit Hanger (Unistrut J1212).....	26.17	
			For >50 To 100, Deduct	-0.93	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.83	
			For Work In Restricted Working Space, Add	3.32	
26 05 29 00-0274	EA		1-1/2", "J" Type Conduit Hanger (Unistrut J1215).....	27.74	
			For >50 To 100, Deduct	-1.01	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-3.64	
			For >500, Deduct	-5.27	
			For Work In Restricted Working Space, Add	3.74	
26 05 29 00-0275	EA		2", "J" Type Conduit Hanger (Unistrut J1220).....	28.76	
			For >50 To 100, Deduct	-1.03	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-3.71	
			For >500, Deduct	-5.37	
			For Work In Restricted Working Space, Add	3.74	
26 05 29 00-0276	EA		2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	44.71	
			For >50 To 100, Deduct	-1.46	
			For >100 To 250, Deduct	-2.93	
			For >250 To 500, Deduct	-5.08	
			For >500, Deduct	-7.24	
			For Work In Restricted Working Space, Add	4.16	
26 05 29 00-0277	EA		3", "J" Type Conduit Hanger (Unistrut J1230).....	47.63	
			For >50 To 100, Deduct	-1.57	
			For >100 To 250, Deduct	-3.14	
			For >250 To 500, Deduct	-5.48	
			For >500, Deduct	-7.81	
			For Work In Restricted Working Space, Add	4.57	
26 05 29 00-0278	EA		3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	51.32	
			For >50 To 100, Deduct	-1.70	
			For >100 To 250, Deduct	-3.40	
			For >250 To 500, Deduct	-5.93	
			For >500, Deduct	-8.45	
			For Work In Restricted Working Space, Add	4.98	
26 05 29 00-0279	EA		4", "J" Type Conduit Hanger (Unistrut J1240).....	67.12	
			For >50 To 100, Deduct	-2.09	
			For >100 To 250, Deduct	-4.19	
			For >250 To 500, Deduct	-7.11	
			For >500, Deduct	-10.03	
			For Work In Restricted Working Space, Add	4.98	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0280	EA	5", "J" Type Conduit Hanger (Unistrut J1250).....	73.69		
		For >50 To 100, Deduct	-2.29		
		For >100 To 250, Deduct	-4.58		
		For >250 To 500, Deduct	-7.78		
		For >500, Deduct	-10.97		
		For Work In Restricted Working Space, Add	5.40		
26 05 29 00-0281	EA	6", "J" Type Conduit Hanger (Unistrut J1260).....	102.95		
		For >50 To 100, Deduct	-3.09		
		For >100 To 250, Deduct	-6.19		
		For >250 To 500, Deduct	-10.32		
		For >500, Deduct	-14.45		
		For Work In Restricted Working Space, Add	6.23		
26 05 29 00-0282 Between Studs Box Brackets (26 05 29 00-0165)					
26 05 29 00-0283	EA	16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	8.81		
		For >50 To 100, Deduct	-0.32		
		For >100 To 250, Deduct	-0.65		
		For >250 To 500, Deduct	-1.18		
		For >500, Deduct	-1.71		
		For Work In Restricted Working Space, Add	1.25		
26 05 29 00-0284	EA	24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	10.42		
		For >50 To 100, Deduct	-0.36		
		For >100 To 250, Deduct	-0.73		
		For >250 To 500, Deduct	-1.30		
		For >500, Deduct	-1.87		
		For Work In Restricted Working Space, Add	1.25		
26 05 29 00-0285 Hangers And Brackets (26 05 29 00-0165)					
26 05 29 00-0286	EA	Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	3.38		
		For >50 To 100, Deduct	-0.15		
		For >100 To 250, Deduct	-0.31		
		For >250 To 500, Deduct	-0.60		
		For >500, Deduct	-0.89		
26 05 29 00-0287	EA	Angle Bracket Only With 1/4" Hole (Caddy AB)	3.29		
		For >50 To 100, Deduct	-0.15		
		For >100 To 250, Deduct	-0.30		
		For >250 To 500, Deduct	-0.59		
		For >500, Deduct	-0.88		
26 05 29 00-0288	EA	Offset Bracket Only With 1/4" Hole (Caddy AO)	3.29		
		For >50 To 100, Deduct	-0.15		
		For >100 To 250, Deduct	-0.30		
		For >250 To 500, Deduct	-0.59		
		For >500, Deduct	-0.88		
26 05 29 00-0289	EA	Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	4.25		
		For >50 To 100, Deduct	-0.18		
		For >100 To 250, Deduct	-0.35		
		For >250 To 500, Deduct	-0.67		
		For >500, Deduct	-0.98		
26 05 29 00-0290	EA	Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	4.27		
		For >50 To 100, Deduct	-0.18		
		For >100 To 250, Deduct	-0.35		
		For >250 To 500, Deduct	-0.67		
		For >500, Deduct	-0.98		
26 05 29 00-0291	EA	Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	4.17		
		For >50 To 100, Deduct	-0.17		
		For >100 To 250, Deduct	-0.35		
		For >250 To 500, Deduct	-0.66		
		For >500, Deduct	-0.97		
26 05 29 00-0292	EA	Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	4.25		
		For >50 To 100, Deduct	-0.18		
		For >100 To 250, Deduct	-0.35		
		For >250 To 500, Deduct	-0.67		
		For >500, Deduct	-0.98		
26 05 29 00-0293	EA	Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	4.27		
		For >50 To 100, Deduct	-0.18		
		For >100 To 250, Deduct	-0.35		
		For >250 To 500, Deduct	-0.67		
		For >500, Deduct	-0.98		
26 05 29 00-0294 Clips And Accessories (26 05 29 00-0165)					
26 05 29 00-0295	EA	1/2" Diameter Center, Bridle Ring (Caddy 2BR)	2.27		
		For >50 To 100, Deduct	-0.10		
		For >100 To 250, Deduct	-0.20		
		For >250 To 500, Deduct	-0.39		
		For >500, Deduct	-0.57		
26 05 29 00-0296	EA	3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	2.30		
		For >50 To 100, Deduct	-0.10		
		For >100 To 250, Deduct	-0.20		
		For >250 To 500, Deduct	-0.39		
		For >500, Deduct	-0.58		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0297 EA 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	2.45	
For >50 To 100, Deduct	-0.10	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.40	
For >500, Deduct	-0.59	
26 05 29 00-0298 EA 2" Diameter Center, Bridle Ring (Caddy 2BR32)	2.75	
For >50 To 100, Deduct	-0.11	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.42	
For >500, Deduct	-0.62	
26 05 29 00-0299 Wire Ties (26 05 29 00-0165) Note: Per hundred (C).		
26 05 29 00-0300 C 3" Length, 18 LB Tensile Strength, Nylon Cable Ties	33.51	
For Up To 0.1, Add	28.89	
For >0.1 To 0.25, Add	14.45	
For >0.25 To 0.75, Add	7.22	
For >2.0, Deduct	-2.89	
For UV Black, Add	0.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.67	
26 05 29 00-0301 C 4" Length, 18 LB Tensile Strength, Nylon Cable Ties	33.69	
For Up To 0.1, Add	28.89	
For >0.1 To 0.25, Add	14.45	
For >0.25 To 0.75, Add	7.22	
For >2.0, Deduct	-2.89	
For UV Black, Add	0.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.67	
26 05 29 00-0302 C 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties	33.81	
For Up To 0.1, Add	28.89	
For >0.1 To 0.25, Add	14.45	
For >0.25 To 0.75, Add	7.22	
For >2.0, Deduct	-2.89	
For UV Black, Add	0.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.67	
26 05 29 00-0303 C 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties	33.86	
For Up To 0.1, Add	28.89	
For >0.1 To 0.25, Add	14.45	
For >0.25 To 0.75, Add	7.22	
For >2.0, Deduct	-2.89	
For UV Black, Add	0.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.67	
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties	35.17	
For Up To 0.1, Add	30.14	
For >0.1 To 0.25, Add	15.07	
For >0.25 To 0.75, Add	7.54	
For >2.0, Deduct	-3.01	
For UV Black, Add	0.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.04	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties	40.44	
For Up To 0.1, Add	31.51	
For >0.1 To 0.25, Add	15.76	
For >0.25 To 0.75, Add	7.88	
For >2.0, Deduct	-3.15	
For UV Black, Add	1.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.45	
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties	38.46	
For Up To 0.1, Add	28.89	
For >0.1 To 0.25, Add	14.45	
For >0.25 To 0.75, Add	7.22	
For >2.0, Deduct	-2.89	
For UV Black, Add	1.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.67	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties	39.78	
For Up To 0.1, Add	30.14	
For >0.1 To 0.25, Add	15.07	
For >0.25 To 0.75, Add	7.54	
For >2.0, Deduct	-3.01	
For UV Black, Add	1.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.04	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties	41.21	
For Up To 0.1, Add	31.51	
For >0.1 To 0.25, Add	15.76	
For >0.25 To 0.75, Add	7.88	
For >2.0, Deduct	-3.15	
For UV Black, Add	1.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.45	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties	56.34	
For Up To 0.1, Add	33.98	
For >0.1 To 0.25, Add	16.99	
For >0.25 To 0.75, Add	8.50	
For >2.0, Deduct	-3.40	
For UV Black, Add	3.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.19	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0310	C		11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	58.37	
			For Up To 0.1, Add	33.98	
			For >0.1 To 0.25, Add	16.99	
			For >0.25 To 0.75, Add	8.50	
			For >2.0, Deduct	-3.40	
			For UV Black, Add	3.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.19	
26 05 29 00-0311	C		7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	42.62	
			For Up To 0.1, Add	31.51	
			For >0.1 To 0.25, Add	15.76	
			For >0.25 To 0.75, Add	7.88	
			For >2.0, Deduct	-3.15	
			For UV Black, Add	1.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.45	
26 05 29 00-0312	C		8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	40.83	
			For Up To 0.1, Add	31.51	
			For >0.1 To 0.25, Add	15.76	
			For >0.25 To 0.75, Add	7.88	
			For >2.0, Deduct	-3.15	
			For UV Black, Add	1.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.45	
26 05 29 00-0313	C		11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	56.90	
			For Up To 0.1, Add	33.98	
			For >0.1 To 0.25, Add	16.99	
			For >0.25 To 0.75, Add	8.50	
			For >2.0, Deduct	-3.40	
			For UV Black, Add	3.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.19	
26 05 29 00-0314	C		14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	64.28	
			For Up To 0.1, Add	36.10	
			For >0.1 To 0.25, Add	18.05	
			For >0.25 To 0.75, Add	9.03	
			For >2.0, Deduct	-3.61	
			For UV Black, Add	4.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.83	
26 05 29 00-0315	C		8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	61.75	
			For Up To 0.1, Add	31.51	
			For >0.1 To 0.25, Add	15.76	
			For >0.25 To 0.75, Add	7.88	
			For >2.0, Deduct	-3.15	
			For UV Black, Add	4.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.45	
26 05 29 00-0316	C		11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	67.46	
			For Up To 0.1, Add	33.98	
			For >0.1 To 0.25, Add	16.99	
			For >0.25 To 0.75, Add	8.50	
			For >2.0, Deduct	-3.40	
			For UV Black, Add	5.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.19	
26 05 29 00-0317	C		15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	80.13	
			For Up To 0.1, Add	36.10	
			For >0.1 To 0.25, Add	18.05	
			For >0.25 To 0.75, Add	9.03	
			For >2.0, Deduct	-3.61	
			For UV Black, Add	6.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.83	
26 05 29 00-0318	C		17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	110.65	
			For Up To 0.1, Add	38.51	
			For >0.1 To 0.25, Add	19.26	
			For >0.25 To 0.75, Add	9.63	
			For >2.0, Deduct	-3.85	
			For UV Black, Add	10.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.55	
26 05 29 00-0319	C		17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	107.57	
			For Up To 0.1, Add	38.51	
			For >0.1 To 0.25, Add	19.26	
			For >0.25 To 0.75, Add	9.63	
			For >2.0, Deduct	-3.85	
			For UV Black, Add	10.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.55	
26 05 29 00-0320	C		21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	129.05	
			For Up To 0.1, Add	40.31	
			For >0.1 To 0.25, Add	20.16	
			For >0.25 To 0.75, Add	10.08	
			For >2.0, Deduct	-4.03	
			For UV Black, Add	13.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.09	
26 05 29 00-0321	C		30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	148.05	
			For Up To 0.1, Add	42.27	
			For >0.1 To 0.25, Add	21.14	
			For >0.25 To 0.75, Add	10.57	
			For >2.0, Deduct	-4.23	
			For UV Black, Add	15.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0322 C 46" Length, 175 LB Tensile Strength, Nylon Cable Ties	199.29	
For Up To 0.1, Add	45.60	
For >0.1 To 0.25, Add	22.80	
For >0.25 To 0.75, Add	11.40	
For >2.0, Deduct	-4.56	
For UV Black, Add	23.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.68	
26 05 29 00-0323 C 3/4" x 3/4" Self Adhesive Tie Mounts	45.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 29 00-0324 C 1.1" x 1.1" Tie Mounts With Screw	90.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.00	
26 05 29 00-0325 EA 6" Length x 1/2" Width, Velcro Grip Cable Tie	2.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.21	
26 05 29 00-0326 EA 8" Length x 1/2" Width, Velcro Grip Cable Tie	2.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0327 EA 12" Length x 1/2" Width, Velcro Grip Cable Tie	2.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0328 EA 15" Length x 3/4" Width, Velcro Grip Cable Tie	3.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0329 EA 180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	87.62	
Note: Cut to length.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.30	
26 05 29 00-0330 Fastening Devices For Wireway And Conduit (26 05 29)		
Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0331 Toggle Bolts (26 05 29 00-0330)		
Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332 EA 1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	10.69	
For >50 To 100, Deduct	-1.03	
For >100 To 250, Deduct	-2.05	
For >250 To 500, Deduct	-3.58	
For >500, Deduct	-5.12	
26 05 29 00-0333 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	10.98	
For >50 To 100, Deduct	-1.05	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-3.68	
For >500, Deduct	-5.25	
26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	11.54	
For >50 To 100, Deduct	-1.09	
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-3.79	
For >500, Deduct	-5.40	
26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	11.82	
For >50 To 100, Deduct	-1.11	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-3.88	
For >500, Deduct	-5.53	
26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	12.10	
For >50 To 100, Deduct	-1.14	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-3.97	
For >500, Deduct	-5.66	
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	13.58	
For >50 To 100, Deduct	-1.19	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-4.15	
For >500, Deduct	-5.91	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	14.11	
For >50 To 100, Deduct	-1.23	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-4.26	
For >500, Deduct	-6.07	
26 05 29 00-0339 Machine Screws (26 05 29 00-0330)		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.17	
For >50 To 100, Deduct	-0.31	
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.08	
For >500, Deduct	-1.55	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.21	
For >50 To 100, Deduct	-0.31	
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.09	
For >500, Deduct	-1.55	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.03	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.36	
For >500, Deduct	-1.94	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0343	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.19	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.37	
			For >500, Deduct	-1.96	
26 05 29 00-0344	EA		3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	5.15	
			For >50 To 100, Deduct	-0.47	
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.65	
			For >500, Deduct	-2.36	
26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors (26 05 29 00-0330)					
Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.					
26 05 29 00-0346	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.05	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.44	
			For >500, Deduct	-2.05	
26 05 29 00-0347	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.99	
			For >50 To 100, Deduct	-0.41	
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.43	
			For >500, Deduct	-2.04	
26 05 29 00-0348	EA		3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	6.98	
			For >50 To 100, Deduct	-0.52	
			For >100 To 250, Deduct	-1.04	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.54	
26 05 29 00-0349	EA		1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	8.86	
			For >50 To 100, Deduct	-0.62	
			For >100 To 250, Deduct	-1.25	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-3.03	
26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts (26 05 29 00-0330)					
Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.					
26 05 29 00-0351	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	3.79	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.13	
			For >500, Deduct	-1.61	
26 05 29 00-0352	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	3.85	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.13	
			For >500, Deduct	-1.61	
26 05 29 00-0353	EA		3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	4.54	
			For >50 To 100, Deduct	-0.37	
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.28	
			For >500, Deduct	-1.83	
26 05 29 00-0354 Hollow Wall Screw Anchors (26 05 29 00-0330)					
26 05 29 00-0355	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.33	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.67	
			For >500, Deduct	-0.96	
26 05 29 00-0356	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.30	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.68	
			For >500, Deduct	-0.97	
26 05 29 00-0357	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.40	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.69	
			For >500, Deduct	-0.98	
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.02	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.16	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.16	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.17	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0360	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.20	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.18	
26 05 29 00-0361	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.22	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.18	
26 05 29 00-0362	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.42	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.20	
26 05 29 00-0363	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.50	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.21	
26 05 29 00-0364			Lead Screw Anchors (26 05 29 00-0330) Note: Includes screw.		
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw.....	5.24	
			For >50 To 100, Deduct	-0.49	
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.69	
			For >500, Deduct	-2.41	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	6.22	
			For >50 To 100, Deduct	-0.57	
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-1.97	
			For >500, Deduct	-2.81	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	8.37	
			For >50 To 100, Deduct	-0.73	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-2.54	
			For >500, Deduct	-3.61	
26 05 29 00-0368			Acoustical T-Bar Clips (26 05 29 00-0330) Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA		1/2" Conduit, Push-In Acoustical T-Bar Clip.....	7.66	
			For >50 To 100, Deduct	-0.63	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-2.19	
			For >500, Deduct	-3.12	
26 05 29 00-0370	EA		3/4" Conduit, Push-In Acoustical T-Bar Clip.....	8.04	
			For >50 To 100, Deduct	-0.67	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-2.31	
			For >500, Deduct	-3.28	
26 05 29 00-0371	EA		1" Conduit, Push-In Acoustical T-Bar Clip.....	8.69	
			For >50 To 100, Deduct	-0.71	
			For >100 To 250, Deduct	-1.42	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-3.49	
26 05 29 00-0372			Threaded Rod, Accessories And Attachments (26 05 29)		
26 05 29 00-0373			Threaded Rod And Rod Accessories (26 05 29 00-0372)		
26 05 29 00-0374			Carbon Steel Threaded Rod (26 05 29 00-0373) Note: Includes plain finish.		
26 05 29 00-0375	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	3.46	0.87
			For Galvanized, Add	0.69	
			For Zinc Coated, Add	0.49	
26 05 29 00-0376	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	4.59	0.93
			For Galvanized, Add	1.10	
			For Zinc Coated, Add	0.78	
26 05 29 00-0377	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	6.16	0.95
			For Galvanized, Add	1.70	
			For Zinc Coated, Add	1.21	
26 05 29 00-0378	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	9.67	0.98
			For Galvanized, Add	3.08	
			For Zinc Coated, Add	2.19	
26 05 29 00-0379	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	10.51	1.02
			For Galvanized, Add	3.39	
			For Zinc Coated, Add	2.41	
26 05 29 00-0380	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	14.20	1.15
			For Galvanized, Add	4.76	
			For Zinc Coated, Add	3.39	



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MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 29 00-0381	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.56		1.28
		For Galvanized, Add	6.00		
		For Zinc Coated, Add	4.27		
26 05 29 00-0382 Threaded Rod Couplings (26 05 29 00-0373)					
26 05 29 00-0383	EA	3/8" Diameter, Threaded Rod Coupling Nut	10.91		
26 05 29 00-0384	EA	1/2" Diameter, Threaded Rod Coupling Nut	12.35		
26 05 29 00-0385	EA	5/8" Diameter, Threaded Rod Coupling Nut	15.26		
26 05 29 00-0386	EA	3/4" Diameter, Threaded Rod Coupling Nut	18.41		
26 05 29 00-0387	EA	7/8" Diameter, Threaded Rod Coupling Nut	26.39		
26 05 29 00-0388	EA	1" Diameter, Threaded Rod Coupling Nut	31.27		
26 05 29 00-0389	EA	1-1/8" Diameter, Threaded Rod Coupling Nut	58.13		
26 05 29 00-0390 Flat Washers (26 05 29 00-0373)					
26 05 29 00-0391	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.94		0.35
		For Galvanized, Add	0.04		
26 05 29 00-0392	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.18		0.35
		For Galvanized, Add	0.08		
26 05 29 00-0393	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.52		0.35
		For Galvanized, Add	0.15		
26 05 29 00-0394	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.84		0.69
		For Galvanized, Add	0.22		
26 05 29 00-0395	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.07		0.69
		For Galvanized, Add	0.26		
26 05 29 00-0396	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.44		0.69
		For Galvanized, Add	0.32		
26 05 29 00-0397	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.73		0.69
		For Galvanized, Add	0.36		
26 05 29 00-0398 Malleable Iron Eye Sockets (26 05 29 00-0373)					
		Note: Type 16.			
26 05 29 00-0399	EA	3/8" Rod Size, Malleable Iron Eye Socket	10.68		
26 05 29 00-0400	EA	1/2" Rod Size, Malleable Iron Eye Socket	12.63		
26 05 29 00-0401	EA	5/8" Rod Size, Malleable Iron Eye Socket	21.13		
26 05 29 00-0402	EA	3/4" Rod Size, Malleable Iron Eye Socket	29.65		
26 05 29 00-0403	EA	7/8" Rod Size, Malleable Iron Eye Socket	31.68		
26 05 29 00-0404 Hex Nuts (26 05 29 00-0373)					
26 05 29 00-0405	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.91		0.35
		For Galvanized, Add	0.03		
26 05 29 00-0406	EA	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.13		0.35
		For Galvanized, Add	0.07		
26 05 29 00-0407	EA	5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.52		0.35
		For Galvanized, Add	0.15		
26 05 29 00-0408	EA	3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.79		0.69
		For Galvanized, Add	0.21		
26 05 29 00-0409	EA	7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.57		0.69
		For Galvanized, Add	0.39		
26 05 29 00-0410	EA	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	3.25		0.69
		For Galvanized, Add	0.53		
26 05 29 00-0411	EA	1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.26		0.69
		For Galvanized, Add	1.00		
26 05 29 00-0412 Forged Steel Turnbuckles (26 05 29 00-0373)					
		Note: Type 13.			
26 05 29 00-0413	EA	3/8" Thread Diameter, Forged Steel Turnbuckle Body	26.89		
26 05 29 00-0414	EA	1/2" Thread Diameter, Forged Steel Turnbuckle Body	32.70		
26 05 29 00-0415	EA	5/8" Thread Diameter, Forged Steel Turnbuckle Body	42.82		
26 05 29 00-0416	EA	3/4" Thread Diameter, Forged Steel Turnbuckle Body	52.50		
26 05 29 00-0417	EA	7/8" Thread Diameter, Forged Steel Turnbuckle Body	121.62		
26 05 29 00-0418	EA	1" Thread Diameter, Forged Steel Turnbuckle Body	84.61		
26 05 29 00-0419	EA	1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	163.87		
26 05 29 00-0420 Attachments (26 05 29 00-0372)					
26 05 29 00-0421 Welded Beam Attachments (26 05 29 00-0420)					
		Note: Type 22.			
26 05 29 00-0422	EA	3/8" Rod Size, Welded Beam Attachment	50.04		13.85
26 05 29 00-0423	EA	1/2" Rod Size, Welded Beam Attachment	53.25		14.54
26 05 29 00-0424	EA	5/8" Rod Size, Welded Beam Attachment	56.61		15.37
26 05 29 00-0425	EA	3/4" Rod Size, Welded Beam Attachment	69.99		16.33
26 05 29 00-0426	EA	7/8" Rod Size, Welded Beam Attachment	82.50		17.30
26 05 29 00-0427	EA	1" Rod Size, Welded Beam Attachment	112.67		19.80
26 05 29 00-0428	EA	1-1/8" Rod Size, Welded Beam Attachment	154.73		20.77

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0429	C-Clamp Style Beam Clamps (26 05 29 00-0420)			
Note: Type 23. Top or bottom flange mount.				
26 05 29 00-0430	EA	3/8" Rod Size, C-Clamp Style Beam Clamp	20.06	10.40
26 05 29 00-0431	EA	1/2" Rod Size, C-Clamp Style Beam Clamp	23.21	11.09
26 05 29 00-0432	EA	5/8" Rod Size, C-Clamp Style Beam Clamp	25.96	11.88
26 05 29 00-0433	EA	3/4" Rod Size, C-Clamp Style Beam Clamp	32.01	12.79
26 05 29 00-0434	EA	7/8" Rod Size, C-Clamp Style Beam Clamp	43.85	13.87
26 05 29 00-0435	Bottom Mount I-Beam Clamps (26 05 29 00-0420)			
Note: Type 21. For attaching threaded rod centered under beam flanges.				
26 05 29 00-0436	EA	3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	47.11	13.87
26 05 29 00-0437	EA	1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	66.32	15.12
26 05 29 00-0438	EA	5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	92.03	16.64
26 05 29 00-0439	EA	3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	109.36	18.48
26 05 29 00-0440	EA	1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	251.55	20.80
26 05 29 00-0441	Steel U-Bolts (26 05 29 00-0420)			
Note: Type 24. Includes plate and nuts.				
26 05 29 00-0442	EA	1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	16.27	8.32
26 05 29 00-0443	EA	3/4" Pipe Size, Zinc Plated Steel, U-Bolt.....	17.50	8.76
26 05 29 00-0444	EA	1" Pipe Size, Zinc Plated Steel, U-Bolt.....	18.73	9.24
26 05 29 00-0445	EA	1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	20.90	9.78
26 05 29 00-0446	EA	1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	21.75	10.40
26 05 29 00-0447	EA	2" Pipe Size, Zinc Plated Steel, U-Bolt.....	23.25	11.09
26 05 29 00-0448	EA	2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	31.24	11.88
26 05 29 00-0449	EA	3" Pipe Size, Zinc Plated Steel, U-Bolt.....	34.27	12.79
26 05 29 00-0450	EA	4" Pipe Size, Zinc Plated Steel, U-Bolt.....	40.52	13.87
26 05 29 00-0451	Stainless Steel Threaded Rod (26 05 29 00-0372)			
26 05 29 00-0452	LF	1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	3.72	0.69
For 316 Stainless Steel, Add			0.95	
26 05 29 00-0453	LF	5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	5.52	0.76
For 316 Stainless Steel, Add			1.62	
26 05 29 00-0454	LF	3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	7.07	0.87
For 316 Stainless Steel, Add			2.16	
26 05 29 00-0455	LF	7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	9.72	0.89
For 316 Stainless Steel, Add			3.21	
26 05 29 00-0456	LF	1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	11.62	0.93
For 316 Stainless Steel, Add			3.96	
26 05 29 00-0457	LF	5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	17.27	0.94
For 316 Stainless Steel, Add			6.23	
26 05 29 00-0458	LF	3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	24.07	0.95
For 316 Stainless Steel, Add			8.97	
26 05 29 00-0459	LF	7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	33.00	0.98
For 316 Stainless Steel, Add			12.57	
26 05 29 00-0460	LF	1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	42.38	1.15
For 316 Stainless Steel, Add			16.23	
26 05 29 00-0461	LF	1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	89.40	1.38
For 316 Stainless Steel, Add			35.04	
26 05 29 00-0462	Polyvinyl Chloride (PVC) Coated Supports (26 05 29)			
Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.				
26 05 29 00-0463	Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0462)			
26 05 29 00-0464	Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)			
26 05 29 00-0465	EA	1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	62.53	27.69
26 05 29 00-0466	EA	3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	68.03	30.18
26 05 29 00-0467	EA	1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	73.28	33.22
26 05 29 00-0468	EA	1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	85.86	36.96
26 05 29 00-0469	EA	1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	98.41	41.53
26 05 29 00-0470	EA	2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	114.95	45.69
26 05 29 00-0471	EA	2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	125.63	49.84
26 05 29 00-0472	EA	3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	137.73	53.99
26 05 29 00-0473	EA	3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	146.24	58.14
26 05 29 00-0474	EA	4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	157.68	62.30
26 05 29 00-0475	Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)			
26 05 29 00-0476	EA	1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	65.69	27.69
26 05 29 00-0477	EA	3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	70.18	30.18
26 05 29 00-0478	EA	1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	79.69	33.22
26 05 29 00-0479	EA	1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	88.14	36.96
26 05 29 00-0480	EA	1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	99.30	41.53
26 05 29 00-0481	EA	2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	113.45	45.69
26 05 29 00-0482	EA	2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	128.48	49.84
26 05 29 00-0483	EA	3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	141.51	53.99
26 05 29 00-0484	EA	3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	151.00	58.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0485 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	158.31	62.30
26 05 29 00-0486 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
26 05 29 00-0487 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	62.92	27.41
26 05 29 00-0488 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	67.95	29.91
26 05 29 00-0489 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	76.50	33.22
26 05 29 00-0490 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	88.06	36.55
26 05 29 00-0491 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	110.50	41.53
26 05 29 00-0492 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	121.26	45.69
26 05 29 00-0493 Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)		
26 05 29 00-0494 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0495 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	5.88	0.83
26 05 29 00-0496 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	6.34	0.83
26 05 29 00-0497 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	9.04	0.83
26 05 29 00-0498 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	10.87	0.83
26 05 29 00-0499 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	14.12	0.83
26 05 29 00-0500 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	20.92	0.83
26 05 29 00-0501 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	27.67	0.83
26 05 29 00-0502 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	36.87	0.83
26 05 29 00-0503 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	64.80	0.83
26 05 29 00-0504 EA 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	68.83	0.83
26 05 29 00-0505 Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0506 EA 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	11.62	1.66
26 05 29 00-0507 EA 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	11.67	1.66
26 05 29 00-0508 EA 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	11.94	1.66
26 05 29 00-0509 EA 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	14.72	1.66
26 05 29 00-0510 EA 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	15.10	1.66
26 05 29 00-0511 EA 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	17.15	1.66
26 05 29 00-0512 EA 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	19.15	1.66
26 05 29 00-0513 EA 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	19.97	1.66
26 05 29 00-0514 EA 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	21.24	1.66
26 05 29 00-0515 EA 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	22.95	1.66
26 05 29 00-0516 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)		
26 05 29 00-0517 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
26 05 29 00-0518 EA 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	10.65	1.66
26 05 29 00-0519 EA 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	12.20	1.66
26 05 29 00-0520 EA 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	15.04	1.66
26 05 29 00-0521 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	17.40	1.66
26 05 29 00-0522 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	22.90	1.66
26 05 29 00-0523 EA 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	48.66	1.66
26 05 29 00-0524 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	54.56	1.66
26 05 29 00-0525 EA 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	74.08	1.66
26 05 29 00-0526 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	128.81	1.66
26 05 29 00-0527 EA 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	128.81	1.66
26 05 29 00-0528 Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		
26 05 29 00-0529 Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)		
26 05 29 00-0530 LF 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	7.27	1.11
26 05 29 00-0531 LF 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	8.88	1.24
26 05 29 00-0532 Attachments (26 05 29 00-0462)		
26 05 29 00-0533 Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)		
26 05 29 00-0534 EA 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	18.55	8.32
26 05 29 00-0535 EA 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	19.27	8.74
26 05 29 00-0536 EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	20.31	9.29
26 05 29 00-0537 EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	21.59	9.84
26 05 29 00-0538 EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	22.97	10.40
26 05 29 00-0539 EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	25.40	11.09
26 05 29 00-0540 EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	33.78	11.92
26 05 29 00-0541 EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	35.67	12.75
26 05 29 00-0542 EA 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	38.18	13.87
26 05 29 00-0543 EA 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	57.51	15.80
26 05 29 00-0544 EA 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	70.37	18.30
26 05 29 00-0545 Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)		
26 05 29 00-0546 EA 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	63.39	27.41
26 05 29 00-0547 EA 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	70.92	27.41

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0548 EA 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	74.02	27.41
26 05 29 00-0549 EA 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	80.84	29.08
26 05 29 00-0550 EA 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	94.09	33.22
26 05 29 00-0551 Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532) Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0552 EA 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	24.43	9.14
26 05 29 00-0553 EA 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	25.83	9.97
26 05 29 00-0554 EA 1" Polyvinyl Chloride (PVC) Coated Pipe Strap	28.11	10.80
26 05 29 00-0555 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	31.77	12.46
26 05 29 00-0556 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	36.31	14.12
26 05 29 00-0557 EA 2" Polyvinyl Chloride (PVC) Coated Pipe Strap	40.07	14.95
26 05 29 00-0558 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	44.32	16.61
26 05 29 00-0559 EA 3" Polyvinyl Chloride (PVC) Coated Pipe Strap	52.11	18.28
26 05 29 00-0560 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	56.63	19.11
26 05 29 00-0561 EA 4" Polyvinyl Chloride (PVC) Coated Pipe Strap	59.77	20.77
26 05 29 00-0562 EA 5" Polyvinyl Chloride (PVC) Coated Pipe Strap	64.31	23.25
26 05 29 00-0563 Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)		
26 05 29 00-0564 LF A12, Polyvinyl Chloride (PVC) Coated Channel	23.17	4.16
26 05 29 00-0565 LF A12A, Polyvinyl Chloride (PVC) Coated Channel	40.41	5.81
26 05 29 00-0566 LF A12P, Polyvinyl Chloride (PVC) Coated Channel	24.63	4.16
26 05 29 00-0567 LF C14, Polyvinyl Chloride (PVC) Coated Channel	18.70	4.16
26 05 29 00-0568 LF C14P, Polyvinyl Chloride (PVC) Coated Channel	19.60	4.16
26 05 29 00-0569 Polymer Concrete Pads (26 05 29) Note: Excludes excavation and backfill.		
26 05 29 00-0570 Polymer Concrete, Box Pads (26 05 29 00-0569)		
26 05 29 00-0571 EA 24" x 36", 18" Depth, Polymer Concrete, Box Pad	1,132.14	113.44
26 05 29 00-0572 EA 25" x 25", 24" Depth, Polymer Concrete, Box Pad	1,169.55	113.44
26 05 29 00-0573 EA 40" x 44", 15" Depth, Polymer Concrete, Box Pad	1,513.29	113.44
26 05 29 00-0574 EA 40" x 44", 24" Depth, Polymer Concrete, Box Pad	1,570.29	113.44
26 05 29 00-0575 EA 52" x 36", 18" Depth, Polymer Concrete, Box Pad	1,460.24	113.44
26 05 29 00-0576 EA 44" x 44", 32" Depth, Polymer Concrete, Box Pad	1,729.39	113.44
26 05 29 00-0577 EA 40" x 58", 24" Depth, Polymer Concrete, Box Pad	1,935.77	113.44
26 05 29 00-0578 EA 52" x 50", 18" Depth, Polymer Concrete, Box Pad	1,857.52	141.80
26 05 29 00-0579 EA 74" x 76", 36" Depth, Polymer Concrete, Box Pad	2,821.79	141.80
26 05 29 00-0580 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad	3,790.83	141.80
26 05 29 00-0581 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0582 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	541.41	59.11
26 05 29 00-0583 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	643.60	59.11
26 05 29 00-0584 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	840.06	85.07
26 05 29 00-0585 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	878.04	85.07
26 05 29 00-0586 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,264.66	85.07
26 05 29 00-0587 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,318.39	85.07
26 05 29 00-0588 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,418.51	85.07
26 05 29 00-0589 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,418.51	85.07
26 05 29 00-0590 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	2,676.37	85.07
26 05 29 00-0591 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	3,035.28	85.07
26 05 29 00-0592 Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0593 EA 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad	324.98	59.11
26 05 29 00-0594 EA 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad	351.25	59.11
26 05 29 00-0595 EA 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad	375.18	59.11
26 05 29 00-0596 EA 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad	454.67	59.11
26 05 29 00-0597 EA 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad	419.20	59.11
26 05 29 00-0598 EA 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad	435.91	59.11
26 05 29 00-0599 EA 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad	479.25	59.11
26 05 29 00-0600 EA 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad	504.52	59.11
26 05 29 00-0601 EA 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	588.94	59.11
26 05 29 00-0602 EA 56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad	728.00	59.11
26 05 29 00-0603 EA 64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,078.40	85.07
26 05 29 00-0604 EA 66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,129.22	85.07
26 05 29 00-0605 EA 75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,145.26	85.07
26 05 29 00-0606 EA 90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,252.10	85.07
26 05 29 00-0607 EA 84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad	2,681.19	85.07
26 05 29 00-0608 EA 96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad	3,159.87	85.07

26 05 33 Raceway and Boxes for Electrical Systems (26 05)**26 05 33 13 Conduit for Electrical Systems (26 05 33)**



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-0001	Conduit Assemblies ^(26 05 33 13)	Note: Includes conduit, fittings and wire. Excludes hangers or supports.		
26 05 33 13-0002	Electrical Metallic Tubing (EMT) Conduit Assemblies ^(26 05 33 13-0001)	Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0250 for larger copper conductor, 26 05 33 13-0598 for larger EMT conduit.		
26 05 33 13-0003	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,046.96		309.15
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	265.03		
	For 2 #12 THWN Conductor Instead Of THHN, Add	2.39		
26 05 33 13-0004	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,146.78		335.72
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	287.80		
	For 3 #12 THWN Conductor Instead Of THHN, Add	3.59		
26 05 33 13-0005	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,246.61		362.28
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	310.57		
	For 4 #12 THWN Conductor Instead Of THHN, Add	4.79		
26 05 33 13-0006	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,108.95		322.44
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	276.41		
	For 2 #10 THWN Conductor Instead Of THHN, Add	3.59		
26 05 33 13-0007	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,233.45		353.43
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	302.98		
	For 3 #10 THWN Conductor Instead Of THHN, Add	5.38		
26 05 33 13-0008	CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	1,250.11		349.00
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	299.18		
	For 2 #8 THWN Conductor Instead Of THHN, Add	6.26		
26 05 33 13-0009	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,165.04		333.31
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	285.68		
	For 2 #12 THWN Conductor Instead Of THHN, Add	2.39		
26 05 33 13-0010	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,264.86		359.87
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	308.44		
	For 3 #12 THWN Conductor Instead Of THHN, Add	3.59		
26 05 33 13-0011	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,364.68		386.44
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	331.21		
26 05 33 13-0012	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,464.51		413.00
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	353.98		
	For 5 #12 THWN Conductor Instead Of THHN, Add	5.98		
26 05 33 13-0013	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,227.02		346.59
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	297.06		
	For 2 #10 THWN Conductor Instead Of THHN, Add	3.59		
26 05 33 13-0014	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,351.52		377.58
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	323.62		
	For 3 #10 THWN Conductor Instead Of THHN, Add	5.38		
26 05 33 13-0015	CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,476.02		408.58
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	For Work In Restricted Working Space, Add	350.19		
	For 4 #10 THWN Conductor Instead Of THHN, Add	7.17		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0016	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,600.51 376.75 8.97	439.57
26 05 33 13-0017	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,544.60 353.98 9.39	413.00
26 05 33 13-0018	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	1,721.02 388.13 12.51	452.85
26 05 33 13-0019	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,552.48 342.60 10.35	399.72
26 05 33 13-0020	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,795.07 384.34 15.52	448.42
26 05 33 13-0021	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,330.12 307.53 2.39	358.74
26 05 33 13-0022	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,429.94 330.30 3.59	385.30
26 05 33 13-0023	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	1,529.77 353.07	411.87
26 05 33 13-0024	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,629.60 375.84 5.98	438.42
26 05 33 13-0025	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,392.10 318.92 3.59	372.02
26 05 33 13-0026	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,516.60 345.48 5.38	403.01
26 05 33 13-0027	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,641.10 372.05 7.17	433.99
26 05 33 13-0028	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,765.59 398.61 8.97	464.99
26 05 33 13-0029	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,709.69 375.84 9.39	438.42



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0030	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,960.15 406.20 15.52	473.84
26 05 33 13-0031	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,202.74 447.94 20.69	522.54
26 05 33 13-0032		Rigid Galvanized Steel (RGS) Conduit Assemblies (26 05 33 13-0001) Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0250 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.		
26 05 33 13-0033	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,376.35 301.61 2.39	351.90
26 05 33 13-0034	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,476.16 324.38 3.59	378.47
26 05 33 13-0035	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,438.33 313.00 3.59	365.19
26 05 33 13-0036	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,562.83 339.56 5.38	396.18
26 05 33 13-0037	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,579.50 335.77 6.26	391.75
26 05 33 13-0038	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,513.20 321.65 2.39	375.30
26 05 33 13-0039	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,613.02 344.42 3.59	401.87
26 05 33 13-0040	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,712.85 367.19	428.43
26 05 33 13-0041	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,575.19 333.03 3.59	388.58
26 05 33 13-0042	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,699.68 359.60 5.38	419.58
26 05 33 13-0043	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,824.18 386.16 7.17	450.57
26 05 33 13-0044	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,892.77 389.96 9.39	455.00
26 05 33 13-0045	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	2,069.18 424.11 12.51	494.84
26 05 33 13-0046	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,900.64 378.57 10.35	441.71

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0047	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,143.23 420.31 15.52	490.42
26 05 33 13-0048	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,947.47 384.15 3.59	448.17
26 05 33 13-0049	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	2,047.30 406.92	474.74
26 05 33 13-0050	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	2,147.11 429.68 5.98	501.29
26 05 33 13-0051	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	2,034.12 399.33 5.38	465.88
26 05 33 13-0052	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	2,158.62 425.89 7.17	496.86
26 05 33 13-0053	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	2,283.11 452.45 8.97	527.85
26 05 33 13-0054	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	2,227.20 429.68 9.39	501.29
26 05 33 13-0055	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,477.67 460.04 15.52	536.71
26 05 33 13-0056	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,720.27 501.79 20.69	585.41
26 05 33 13-0057		Conduit (26 05 33 13) Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058		Conduit Installed Above Grade (26 05 33 13-0057)		
26 05 33 13-0059		Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit (26 05 33 13-0058) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0060		Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling (26 05 33 13-0059) Note: Includes field bending for conduit up to 1".		
26 05 33 13-0061	LF	1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	9.85 -0.14 -0.56 -0.81 0.70 1.74 1.04 2.09 0.70 1.39 1.74 2.44 2.78 3.48 3.83	2.79



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0062	LF		3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	11.66	3.04
			For >250 To 500, Deduct	-0.18	
			For >500 To 1,000, Deduct	-0.67	
			For >1,000, Deduct	-0.96	
			For Installation In Metal Stud Wall, Add	0.81	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.03	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.22	
			For Work In Restricted Working Space, Add	2.43	
			For Elevated Installation >10' To 15', Add	0.81	
			For Elevated Installation >15' To 20', Add	1.62	
			For Elevated Installation >20' To 25', Add	2.03	
			For Elevated Installation >25' To 30', Add	2.84	
			For Elevated Installation >30' To 35', Add	3.24	
			For Elevated Installation >35' To 40', Add	4.05	
			For Elevated Installation >40', Add	4.46	
26 05 33 13-0063	LF		1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	16.38	3.54
			For >250 To 500, Deduct	-0.28	
			For >500 To 1,000, Deduct	-0.96	
			For >1,000, Deduct	-1.37	
			For Installation In Metal Stud Wall, Add	1.09	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.72	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.63	
			For Work In Restricted Working Space, Add	3.26	
			For Elevated Installation >10' To 15', Add	1.09	
			For Elevated Installation >15' To 20', Add	2.17	
			For Elevated Installation >20' To 25', Add	2.72	
			For Elevated Installation >25' To 30', Add	3.80	
			For Elevated Installation >30' To 35', Add	4.35	
			For Elevated Installation >35' To 40', Add	5.44	
			For Elevated Installation >40', Add	5.98	
26 05 33 13-0064	LF		1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	18.87	4.05
			For >250 To 500, Deduct	-0.37	
			For >500 To 1,000, Deduct	-1.13	
			For >1,000, Deduct	-1.60	
			For Installation In Metal Stud Wall, Add	1.15	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.88	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.73	
			For Work In Restricted Working Space, Add	3.46	
			For Elevated Installation >10' To 15', Add	1.15	
			For Elevated Installation >15' To 20', Add	2.30	
			For Elevated Installation >20' To 25', Add	2.88	
			For Elevated Installation >25' To 30', Add	4.03	
			For Elevated Installation >30' To 35', Add	4.61	
			For Elevated Installation >35' To 40', Add	5.76	
			For Elevated Installation >40', Add	6.34	
26 05 33 13-0065	LF		1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	21.65	4.55
			For >250 To 500, Deduct	-0.45	
			For >500 To 1,000, Deduct	-1.31	
			For >1,000, Deduct	-1.85	
			For Installation In Metal Stud Wall, Add	1.27	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.16	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.90	
			For Work In Restricted Working Space, Add	3.80	
			For Elevated Installation >10' To 15', Add	1.27	
			For Elevated Installation >15' To 20', Add	2.53	
			For Elevated Installation >20' To 25', Add	3.16	
			For Elevated Installation >25' To 30', Add	4.43	
			For Elevated Installation >30' To 35', Add	5.06	
			For Elevated Installation >35' To 40', Add	6.33	
			For Elevated Installation >40', Add	6.96	
26 05 33 13-0066	LF		2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	27.58	5.56
			For >250 To 500, Deduct	-0.60	
			For >500 To 1,000, Deduct	-1.68	
			For >1,000, Deduct	-2.37	
			For Installation In Metal Stud Wall, Add	1.56	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.89	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.33	
			For Work In Restricted Working Space, Add	4.67	
			For Elevated Installation >10' To 15', Add	1.56	
			For Elevated Installation >15' To 20', Add	3.11	
			For Elevated Installation >20' To 25', Add	3.89	
			For Elevated Installation >25' To 30', Add	5.44	
			For Elevated Installation >30' To 35', Add	6.22	
			For Elevated Installation >35' To 40', Add	7.78	
			For Elevated Installation >40', Add	8.55	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0067	LF		2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	41.07	7.59
			For >250 To 500, Deduct	-1.00	
			For >500 To 1,000, Deduct	-2.55	
			For >1,000, Deduct	-3.58	
			For Installation In Metal Stud Wall, Add	2.11	
			For Installation In Wood Stud Wall (Includes Drilling), Add	5.28	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.17	
			For Work In Restricted Working Space, Add	6.34	
			For Elevated Installation >10' To 15', Add	2.11	
			For Elevated Installation >15' To 20', Add	4.23	
			For Elevated Installation >20' To 25', Add	5.28	
			For Elevated Installation >25' To 30', Add	7.40	
			For Elevated Installation >30' To 35', Add	8.45	
			For Elevated Installation >35' To 40', Add	10.57	
			For Elevated Installation >40', Add	11.62	
26 05 33 13-0068	LF		3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	53.84	10.12
			For >250 To 500, Deduct	-1.27	
			For >500 To 1,000, Deduct	-3.33	
			For >1,000, Deduct	-4.67	
			For Installation In Metal Stud Wall, Add	2.85	
			For Installation In Wood Stud Wall (Includes Drilling), Add	7.12	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.27	
			For Work In Restricted Working Space, Add	8.54	
			For Elevated Installation >10' To 15', Add	2.85	
			For Elevated Installation >15' To 20', Add	5.69	
			For Elevated Installation >20' To 25', Add	7.12	
			For Elevated Installation >25' To 30', Add	9.96	
			For Elevated Installation >30' To 35', Add	11.38	
			For Elevated Installation >35' To 40', Add	14.23	
			For Elevated Installation >40', Add	15.65	
26 05 33 13-0069	LF		3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	64.74	12.65
			For >250 To 500, Deduct	-1.55	
			For >500 To 1,000, Deduct	-4.01	
			For >1,000, Deduct	-5.63	
			For Installation In Metal Stud Wall, Add	3.38	
			For Installation In Wood Stud Wall (Includes Drilling), Add	8.45	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.07	
			For Work In Restricted Working Space, Add	10.13	
			For Elevated Installation >10' To 15', Add	3.38	
			For Elevated Installation >15' To 20', Add	6.76	
			For Elevated Installation >20' To 25', Add	8.45	
			For Elevated Installation >25' To 30', Add	11.82	
			For Elevated Installation >30' To 35', Add	13.51	
			For Elevated Installation >35' To 40', Add	16.89	
			For Elevated Installation >40', Add	18.58	
26 05 33 13-0070	LF		4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	76.78	15.18
			For >250 To 500, Deduct	-1.89	
			For >500 To 1,000, Deduct	-4.78	
			For >1,000, Deduct	-6.70	
			For Installation In Metal Stud Wall, Add	3.90	
			For Installation In Wood Stud Wall (Includes Drilling), Add	9.74	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.84	
			For Work In Restricted Working Space, Add	11.69	
			For Elevated Installation >10' To 15', Add	3.90	
			For Elevated Installation >15' To 20', Add	7.79	
			For Elevated Installation >20' To 25', Add	9.74	
			For Elevated Installation >25' To 30', Add	13.64	
			For Elevated Installation >30' To 35', Add	15.58	
			For Elevated Installation >35' To 40', Add	19.48	
			For Elevated Installation >40', Add	21.43	
26 05 33 13-0071	LF		5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	121.09	19.22
			For >250 To 500, Deduct	-3.65	
			For >500 To 1,000, Deduct	-7.88	
			For >1,000, Deduct	-10.91	
			For Installation In Metal Stud Wall, Add	4.81	
			For Installation In Wood Stud Wall (Includes Drilling), Add	12.02	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	7.21	
			For Work In Restricted Working Space, Add	14.42	
			For Elevated Installation >10' To 15', Add	4.81	
			For Elevated Installation >15' To 20', Add	9.61	
			For Elevated Installation >20' To 25', Add	12.02	
			For Elevated Installation >25' To 30', Add	16.82	
			For Elevated Installation >30' To 35', Add	19.23	
			For Elevated Installation >35' To 40', Add	24.04	
			For Elevated Installation >40', Add	26.44	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0072	LF		6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	163.35	24.28
			For >250 To 500, Deduct	-5.13	
			For >500 To 1,000, Deduct	-10.73	
			For >1,000, Deduct	-14.82	
			For Installation In Metal Stud Wall, Add	6.07	
			For Installation In Wood Stud Wall (Includes Drilling), Add	15.18	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	9.11	
			For Work In Restricted Working Space, Add	18.22	
			For Elevated Installation >10' To 15', Add	6.07	
			For Elevated Installation >15' To 20', Add	12.14	
			For Elevated Installation >20' To 25', Add	15.18	
			For Elevated Installation >25' To 30', Add	21.25	
			For Elevated Installation >30' To 35', Add	24.29	
			For Elevated Installation >35' To 40', Add	30.36	
			For Elevated Installation >40', Add	33.40	
26 05 33 13-0073			Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0074	EA		1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	34.88	12.53
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15', Add	3.14	
			For Elevated Installation >15' To 20', Add	6.28	
			For Elevated Installation >20' To 25', Add	7.85	
			For Elevated Installation >25' To 30', Add	10.99	
			For Elevated Installation >30' To 35', Add	12.56	
			For Elevated Installation >35' To 40', Add	15.71	
			For Elevated Installation >40', Add	17.28	
26 05 33 13-0075	EA		3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	43.63	15.55
			For Work In Restricted Working Space, Add	11.72	
			For Elevated Installation >10' To 15', Add	3.91	
			For Elevated Installation >15' To 20', Add	7.81	
			For Elevated Installation >20' To 25', Add	9.76	
			For Elevated Installation >25' To 30', Add	13.67	
			For Elevated Installation >30' To 35', Add	15.62	
			For Elevated Installation >35' To 40', Add	19.53	
			For Elevated Installation >40', Add	21.48	
26 05 33 13-0076	EA		1" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	54.66	19.10
			For Work In Restricted Working Space, Add	14.29	
			For Elevated Installation >10' To 15', Add	4.76	
			For Elevated Installation >15' To 20', Add	9.52	
			For Elevated Installation >20' To 25', Add	11.91	
			For Elevated Installation >25' To 30', Add	16.67	
			For Elevated Installation >30' To 35', Add	19.05	
			For Elevated Installation >35' To 40', Add	23.81	
			For Elevated Installation >40', Add	26.19	
26 05 33 13-0077	EA		1-1/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	67.34	22.14
			For Work In Restricted Working Space, Add	16.59	
			For Elevated Installation >10' To 15', Add	5.53	
			For Elevated Installation >15' To 20', Add	11.06	
			For Elevated Installation >20' To 25', Add	13.82	
			For Elevated Installation >25' To 30', Add	19.35	
			For Elevated Installation >30' To 35', Add	22.12	
			For Elevated Installation >35' To 40', Add	27.65	
			For Elevated Installation >40', Add	30.41	
26 05 33 13-0078	EA		1-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	77.83	25.43
			For Work In Restricted Working Space, Add	19.04	
			For Elevated Installation >10' To 15', Add	6.35	
			For Elevated Installation >15' To 20', Add	12.69	
			For Elevated Installation >20' To 25', Add	15.87	
			For Elevated Installation >25' To 30', Add	22.21	
			For Elevated Installation >30' To 35', Add	25.38	
			For Elevated Installation >35' To 40', Add	31.73	
			For Elevated Installation >40', Add	34.90	
26 05 33 13-0079	EA		2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	89.58	27.95
			For Work In Restricted Working Space, Add	20.95	
			For Elevated Installation >10' To 15', Add	6.98	
			For Elevated Installation >15' To 20', Add	13.96	
			For Elevated Installation >20' To 25', Add	17.46	
			For Elevated Installation >25' To 30', Add	24.44	
			For Elevated Installation >30' To 35', Add	27.93	
			For Elevated Installation >35' To 40', Add	34.91	
			For Elevated Installation >40', Add	38.40	
26 05 33 13-0080	EA		2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	122.48	34.91
			For Work In Restricted Working Space, Add	26.18	
			For Elevated Installation >10' To 15', Add	8.73	
			For Elevated Installation >15' To 20', Add	17.45	
			For Elevated Installation >20' To 25', Add	21.82	
			For Elevated Installation >25' To 30', Add	30.54	
			For Elevated Installation >30' To 35', Add	34.91	
			For Elevated Installation >35' To 40', Add	43.64	
			For Elevated Installation >40', Add	48.00	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0081 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 171.31		47.57
For Work In Restricted Working Space, Add	35.67	
For Elevated Installation >10' To 15', Add	11.89	
For Elevated Installation >15' To 20', Add	23.78	
For Elevated Installation >20' To 25', Add	29.72	
For Elevated Installation >25' To 30', Add	41.61	
For Elevated Installation >30' To 35', Add	47.56	
For Elevated Installation >35' To 40', Add	59.45	
For Elevated Installation >40', Add	65.39	
26 05 33 13-0082 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 216.05		53.63
For Work In Restricted Working Space, Add	40.23	
For Elevated Installation >10' To 15', Add	13.41	
For Elevated Installation >15' To 20', Add	26.82	
For Elevated Installation >20' To 25', Add	33.53	
For Elevated Installation >25' To 30', Add	46.94	
For Elevated Installation >30' To 35', Add	53.64	
For Elevated Installation >35' To 40', Add	67.05	
For Elevated Installation >40', Add	73.76	
26 05 33 13-0083 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 268.97		69.83
For Work In Restricted Working Space, Add	52.36	
For Elevated Installation >10' To 15', Add	17.45	
For Elevated Installation >15' To 20', Add	34.91	
For Elevated Installation >20' To 25', Add	43.63	
For Elevated Installation >25' To 30', Add	61.09	
For Elevated Installation >30' To 35', Add	69.81	
For Elevated Installation >35' To 40', Add	87.27	
For Elevated Installation >40', Add	95.99	
26 05 33 13-0084 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 439.58		113.84
For Work In Restricted Working Space, Add	85.39	
For Elevated Installation >10' To 15', Add	28.46	
For Elevated Installation >15' To 20', Add	56.92	
For Elevated Installation >20' To 25', Add	71.16	
For Elevated Installation >25' To 30', Add	99.62	
For Elevated Installation >30' To 35', Add	113.85	
For Elevated Installation >35' To 40', Add	142.31	
For Elevated Installation >40', Add	156.54	
26 05 33 13-0085 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 660.68		171.02
For Work In Restricted Working Space, Add	128.26	
For Elevated Installation >10' To 15', Add	42.75	
For Elevated Installation >15' To 20', Add	85.50	
For Elevated Installation >20' To 25', Add	106.88	
For Elevated Installation >25' To 30', Add	149.63	
For Elevated Installation >30' To 35', Add	171.01	
For Elevated Installation >35' To 40', Add	213.76	
For Elevated Installation >40', Add	235.14	
26 05 33 13-0086 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0087 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 34.88		12.53
For Work In Restricted Working Space, Add	9.42	
For Elevated Installation >10' To 15', Add	3.14	
For Elevated Installation >15' To 20', Add	6.28	
For Elevated Installation >20' To 25', Add	7.85	
For Elevated Installation >25' To 30', Add	10.99	
For Elevated Installation >30' To 35', Add	12.56	
For Elevated Installation >35' To 40', Add	15.71	
For Elevated Installation >40', Add	17.28	
26 05 33 13-0088 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 43.63		15.55
For Work In Restricted Working Space, Add	11.72	
For Elevated Installation >10' To 15', Add	3.91	
For Elevated Installation >15' To 20', Add	7.81	
For Elevated Installation >20' To 25', Add	9.76	
For Elevated Installation >25' To 30', Add	13.67	
For Elevated Installation >30' To 35', Add	15.62	
For Elevated Installation >35' To 40', Add	19.53	
For Elevated Installation >40', Add	21.48	
26 05 33 13-0089 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 54.66		19.10
For Work In Restricted Working Space, Add	14.29	
For Elevated Installation >10' To 15', Add	4.76	
For Elevated Installation >15' To 20', Add	9.52	
For Elevated Installation >20' To 25', Add	11.91	
For Elevated Installation >25' To 30', Add	16.67	
For Elevated Installation >30' To 35', Add	19.05	
For Elevated Installation >35' To 40', Add	23.81	
For Elevated Installation >40', Add	26.19	
26 05 33 13-0090 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 67.34		22.14
For Work In Restricted Working Space, Add	16.59	
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.06	
For Elevated Installation >20' To 25', Add	13.82	
For Elevated Installation >25' To 30', Add	19.35	
For Elevated Installation >30' To 35', Add	22.12	
For Elevated Installation >35' To 40', Add	27.65	
For Elevated Installation >40', Add	30.41	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0091	EA		1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	77.83	25.43
			For Work In Restricted Working Space, Add	19.04	
			For Elevated Installation >10' To 15', Add	6.35	
			For Elevated Installation >15' To 20', Add	12.69	
			For Elevated Installation >20' To 25', Add	15.87	
			For Elevated Installation >25' To 30', Add	22.21	
			For Elevated Installation >30' To 35', Add	25.38	
			For Elevated Installation >35' To 40', Add	31.73	
			For Elevated Installation >40', Add	34.90	
26 05 33 13-0092	EA		2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	89.58	27.95
			For Work In Restricted Working Space, Add	20.95	
			For Elevated Installation >10' To 15', Add	6.98	
			For Elevated Installation >15' To 20', Add	13.96	
			For Elevated Installation >20' To 25', Add	17.46	
			For Elevated Installation >25' To 30', Add	24.44	
			For Elevated Installation >30' To 35', Add	27.93	
			For Elevated Installation >35' To 40', Add	34.91	
			For Elevated Installation >40', Add	38.40	
26 05 33 13-0093	EA		2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	121.05	34.91
			For Work In Restricted Working Space, Add	26.18	
			For Elevated Installation >10' To 15', Add	8.73	
			For Elevated Installation >15' To 20', Add	17.45	
			For Elevated Installation >20' To 25', Add	21.82	
			For Elevated Installation >25' To 30', Add	30.54	
			For Elevated Installation >30' To 35', Add	34.91	
			For Elevated Installation >35' To 40', Add	43.64	
			For Elevated Installation >40', Add	48.00	
26 05 33 13-0094	EA		3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	165.74	47.57
			For Work In Restricted Working Space, Add	35.67	
			For Elevated Installation >10' To 15', Add	11.89	
			For Elevated Installation >15' To 20', Add	23.78	
			For Elevated Installation >20' To 25', Add	29.72	
			For Elevated Installation >25' To 30', Add	41.61	
			For Elevated Installation >30' To 35', Add	47.56	
			For Elevated Installation >35' To 40', Add	59.45	
			For Elevated Installation >40', Add	65.39	
26 05 33 13-0095	EA		3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	208.22	53.63
			For Work In Restricted Working Space, Add	40.23	
			For Elevated Installation >10' To 15', Add	13.41	
			For Elevated Installation >15' To 20', Add	26.82	
			For Elevated Installation >20' To 25', Add	33.53	
			For Elevated Installation >25' To 30', Add	46.94	
			For Elevated Installation >30' To 35', Add	53.64	
			For Elevated Installation >35' To 40', Add	67.05	
			For Elevated Installation >40', Add	73.76	
26 05 33 13-0096	EA		4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	258.55	69.83
			For Work In Restricted Working Space, Add	52.36	
			For Elevated Installation >10' To 15', Add	17.45	
			For Elevated Installation >15' To 20', Add	34.91	
			For Elevated Installation >20' To 25', Add	43.63	
			For Elevated Installation >25' To 30', Add	61.09	
			For Elevated Installation >30' To 35', Add	69.81	
			For Elevated Installation >35' To 40', Add	87.27	
			For Elevated Installation >40', Add	95.99	
26 05 33 13-0097	EA		5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	439.58	113.84
			For Work In Restricted Working Space, Add	85.39	
			For Elevated Installation >10' To 15', Add	28.46	
			For Elevated Installation >15' To 20', Add	56.92	
			For Elevated Installation >20' To 25', Add	71.16	
			For Elevated Installation >25' To 30', Add	99.62	
			For Elevated Installation >30' To 35', Add	113.85	
			For Elevated Installation >35' To 40', Add	142.31	
			For Elevated Installation >40', Add	156.54	
26 05 33 13-0098	EA		6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	660.68	171.02
			For Work In Restricted Working Space, Add	128.26	
			For Elevated Installation >10' To 15', Add	42.75	
			For Elevated Installation >15' To 20', Add	85.50	
			For Elevated Installation >20' To 25', Add	106.88	
			For Elevated Installation >25' To 30', Add	149.63	
			For Elevated Installation >30' To 35', Add	171.01	
			For Elevated Installation >35' To 40', Add	213.76	
			For Elevated Installation >40', Add	235.14	
26 05 33 13-0099			Rigid Galvanized Steel (RGS) 12" Large Radius Elbow (26 05 33 13-0059)		
			See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0100	EA		1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	79.27	31.24
			For Work In Restricted Working Space, Add	18.75	
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0101 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow 91.50		36.18
For Work In Restricted Working Space, Add	21.71	
For Elevated Installation >10' To 15', Add	7.24	
For Elevated Installation >15' To 20', Add	14.47	
For Elevated Installation >20' To 25', Add	18.09	
For Elevated Installation >25' To 30', Add	25.32	
For Elevated Installation >30' To 35', Add	28.94	
For Elevated Installation >35' To 40', Add	36.18	
For Elevated Installation >40', Add	39.79	
26 05 33 13-0102 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow 105.17		41.11
For Work In Restricted Working Space, Add	24.67	
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.56	
For Elevated Installation >25' To 30', Add	28.78	
For Elevated Installation >30' To 35', Add	32.89	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
26 05 33 13-0103 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow 117.48		45.22
For Work In Restricted Working Space, Add	27.13	
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
26 05 33 13-0104 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0105 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 83.62		31.24
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
26 05 33 13-0106 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 97.10		36.18
For Work In Restricted Working Space, Add	21.71	
For Elevated Installation >10' To 15', Add	7.24	
For Elevated Installation >15' To 20', Add	14.47	
For Elevated Installation >20' To 25', Add	18.09	
For Elevated Installation >25' To 30', Add	25.32	
For Elevated Installation >30' To 35', Add	28.94	
For Elevated Installation >35' To 40', Add	36.18	
For Elevated Installation >40', Add	39.79	
26 05 33 13-0107 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 107.72		41.11
For Work In Restricted Working Space, Add	24.67	
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.56	
For Elevated Installation >25' To 30', Add	28.78	
For Elevated Installation >30' To 35', Add	32.89	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
26 05 33 13-0108 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 120.32		45.22
For Work In Restricted Working Space, Add	27.13	
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
26 05 33 13-0109 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 156.83		56.74
For Work In Restricted Working Space, Add	34.04	
For Elevated Installation >10' To 15', Add	11.35	
For Elevated Installation >15' To 20', Add	22.69	
For Elevated Installation >20' To 25', Add	28.37	
For Elevated Installation >25' To 30', Add	39.71	
For Elevated Installation >30' To 35', Add	45.38	
For Elevated Installation >35' To 40', Add	56.73	
For Elevated Installation >40', Add	62.40	
26 05 33 13-0110 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 211.93		77.29
For Work In Restricted Working Space, Add	46.37	
For Elevated Installation >10' To 15', Add	15.46	
For Elevated Installation >15' To 20', Add	30.91	
For Elevated Installation >20' To 25', Add	38.64	
For Elevated Installation >25' To 30', Add	54.10	
For Elevated Installation >30' To 35', Add	61.83	
For Elevated Installation >35' To 40', Add	77.29	
For Elevated Installation >40', Add	85.01	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-0111 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow (26 05 33 13-0059)				
See CSI section 26 05 33 13-2224 for conduit field bending.				
26 05 33 13-0112	EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	83.83		31.24
	For Work In Restricted Working Space, Add	18.75		
	For Elevated Installation >10' To 15', Add	6.25		
	For Elevated Installation >15' To 20', Add	12.50		
	For Elevated Installation >20' To 25', Add	15.62		
	For Elevated Installation >25' To 30', Add	21.87		
	For Elevated Installation >30' To 35', Add	25.00		
	For Elevated Installation >35' To 40', Add	31.25		
	For Elevated Installation >40', Add	34.37		
26 05 33 13-0113	EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	96.55		36.18
	For Work In Restricted Working Space, Add	21.71		
	For Elevated Installation >10' To 15', Add	7.24		
	For Elevated Installation >15' To 20', Add	14.47		
	For Elevated Installation >20' To 25', Add	18.09		
	For Elevated Installation >25' To 30', Add	25.32		
	For Elevated Installation >30' To 35', Add	28.94		
	For Elevated Installation >35' To 40', Add	36.18		
	For Elevated Installation >40', Add	39.79		
26 05 33 13-0114	EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	110.47		41.11
	For Work In Restricted Working Space, Add	24.67		
	For Elevated Installation >10' To 15', Add	8.22		
	For Elevated Installation >15' To 20', Add	16.44		
	For Elevated Installation >20' To 25', Add	20.56		
	For Elevated Installation >25' To 30', Add	28.78		
	For Elevated Installation >30' To 35', Add	32.89		
	For Elevated Installation >35' To 40', Add	41.11		
	For Elevated Installation >40', Add	45.22		
26 05 33 13-0115	EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	126.49		45.22
	For Work In Restricted Working Space, Add	27.13		
	For Elevated Installation >10' To 15', Add	9.04		
	For Elevated Installation >15' To 20', Add	18.09		
	For Elevated Installation >20' To 25', Add	22.61		
	For Elevated Installation >25' To 30', Add	31.65		
	For Elevated Installation >30' To 35', Add	36.18		
	For Elevated Installation >35' To 40', Add	45.22		
	For Elevated Installation >40', Add	49.74		
26 05 33 13-0116	EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	162.57		56.74
	For Work In Restricted Working Space, Add	34.04		
	For Elevated Installation >10' To 15', Add	11.35		
	For Elevated Installation >15' To 20', Add	22.69		
	For Elevated Installation >20' To 25', Add	28.37		
	For Elevated Installation >25' To 30', Add	39.71		
	For Elevated Installation >30' To 35', Add	45.38		
	For Elevated Installation >35' To 40', Add	56.73		
	For Elevated Installation >40', Add	62.40		
26 05 33 13-0117	EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	216.56		77.29
	For Work In Restricted Working Space, Add	46.37		
	For Elevated Installation >10' To 15', Add	15.46		
	For Elevated Installation >15' To 20', Add	30.91		
	For Elevated Installation >20' To 25', Add	38.64		
	For Elevated Installation >25' To 30', Add	54.10		
	For Elevated Installation >30' To 35', Add	61.83		
	For Elevated Installation >35' To 40', Add	77.29		
	For Elevated Installation >40', Add	85.01		
26 05 33 13-0118	EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	261.94		87.15
	For Work In Restricted Working Space, Add	52.29		
	For Elevated Installation >10' To 15', Add	17.43		
	For Elevated Installation >15' To 20', Add	34.86		
	For Elevated Installation >20' To 25', Add	43.58		
	For Elevated Installation >25' To 30', Add	61.01		
	For Elevated Installation >30' To 35', Add	69.72		
	For Elevated Installation >35' To 40', Add	87.16		
	For Elevated Installation >40', Add	95.87		
26 05 33 13-0119	EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	324.84		113.46
	For Work In Restricted Working Space, Add	68.08		
	For Elevated Installation >10' To 15', Add	22.69		
	For Elevated Installation >15' To 20', Add	45.39		
	For Elevated Installation >20' To 25', Add	56.73		
	For Elevated Installation >25' To 30', Add	79.43		
	For Elevated Installation >30' To 35', Add	90.77		
	For Elevated Installation >35' To 40', Add	113.47		
	For Elevated Installation >40', Add	124.81		

26 05 33 13-0120 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow (26 05 33 13-0059)
See CSI section 26 05 33 13-2224 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0121 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	90.77	31.24
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
26 05 33 13-0122 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	103.36	36.18
For Work In Restricted Working Space, Add	21.71	
For Elevated Installation >10' To 15', Add	7.24	
For Elevated Installation >15' To 20', Add	14.47	
For Elevated Installation >20' To 25', Add	18.09	
For Elevated Installation >25' To 30', Add	25.32	
For Elevated Installation >30' To 35', Add	28.94	
For Elevated Installation >35' To 40', Add	36.18	
For Elevated Installation >40', Add	39.79	
26 05 33 13-0123 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	115.57	41.11
For Work In Restricted Working Space, Add	24.67	
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.56	
For Elevated Installation >25' To 30', Add	28.78	
For Elevated Installation >30' To 35', Add	32.89	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
26 05 33 13-0124 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	134.01	45.22
For Work In Restricted Working Space, Add	27.13	
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
26 05 33 13-0125 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	172.83	56.74
For Work In Restricted Working Space, Add	34.04	
For Elevated Installation >10' To 15', Add	11.35	
For Elevated Installation >15' To 20', Add	22.69	
For Elevated Installation >20' To 25', Add	28.37	
For Elevated Installation >25' To 30', Add	39.71	
For Elevated Installation >30' To 35', Add	45.38	
For Elevated Installation >35' To 40', Add	56.73	
For Elevated Installation >40', Add	62.40	
26 05 33 13-0126 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	232.63	77.29
For Work In Restricted Working Space, Add	46.37	
For Elevated Installation >10' To 15', Add	15.46	
For Elevated Installation >15' To 20', Add	30.91	
For Elevated Installation >20' To 25', Add	38.64	
For Elevated Installation >25' To 30', Add	54.10	
For Elevated Installation >30' To 35', Add	61.83	
For Elevated Installation >35' To 40', Add	77.29	
For Elevated Installation >40', Add	85.01	
26 05 33 13-0127 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	277.56	87.15
For Work In Restricted Working Space, Add	52.29	
For Elevated Installation >10' To 15', Add	17.43	
For Elevated Installation >15' To 20', Add	34.86	
For Elevated Installation >20' To 25', Add	43.58	
For Elevated Installation >25' To 30', Add	61.01	
For Elevated Installation >30' To 35', Add	69.72	
For Elevated Installation >35' To 40', Add	87.16	
For Elevated Installation >40', Add	95.87	
26 05 33 13-0128 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	337.30	113.46
For Work In Restricted Working Space, Add	68.08	
For Elevated Installation >10' To 15', Add	22.69	
For Elevated Installation >15' To 20', Add	45.39	
For Elevated Installation >20' To 25', Add	56.73	
For Elevated Installation >25' To 30', Add	79.43	
For Elevated Installation >30' To 35', Add	90.77	
For Elevated Installation >35' To 40', Add	113.47	
For Elevated Installation >40', Add	124.81	
26 05 33 13-0129 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0130 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	90.35	31.24
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0131	EA	1-1/4"	Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	108.42	36.18
			For Work In Restricted Working Space, Add	21.71	
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
26 05 33 13-0132	EA	1-1/2"	Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	121.05	41.11
			For Work In Restricted Working Space, Add	24.67	
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
26 05 33 13-0133	EA	2"	Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	141.17	45.22
			For Work In Restricted Working Space, Add	27.13	
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
26 05 33 13-0134	EA	2-1/2"	Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	182.66	56.74
			For Work In Restricted Working Space, Add	34.04	
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
26 05 33 13-0135	EA	3"	Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	245.33	77.29
			For Work In Restricted Working Space, Add	46.37	
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.91	
			For Elevated Installation >20' To 25', Add	38.64	
			For Elevated Installation >25' To 30', Add	54.10	
			For Elevated Installation >30' To 35', Add	61.83	
			For Elevated Installation >35' To 40', Add	77.29	
			For Elevated Installation >40', Add	85.01	
26 05 33 13-0136	EA	3-1/2"	Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	293.01	87.15
			For Work In Restricted Working Space, Add	52.29	
			For Elevated Installation >10' To 15', Add	17.43	
			For Elevated Installation >15' To 20', Add	34.86	
			For Elevated Installation >20' To 25', Add	43.58	
			For Elevated Installation >25' To 30', Add	61.01	
			For Elevated Installation >30' To 35', Add	69.72	
			For Elevated Installation >35' To 40', Add	87.16	
			For Elevated Installation >40', Add	95.87	
26 05 33 13-0137	EA	4"	Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	360.16	113.46
			For Work In Restricted Working Space, Add	68.08	
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.39	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.43	
			For Elevated Installation >30' To 35', Add	90.77	
			For Elevated Installation >35' To 40', Add	113.47	
			For Elevated Installation >40', Add	124.81	
26 05 33 13-0138	EA	5"	Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	541.12	185.00
			For Work In Restricted Working Space, Add	111.00	
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
26 05 33 13-0139			Rigid Galvanized Steel (RGS) 36" Large Radius Elbow (26 05 33 13-0059)		
			See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0140	EA	1"	Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	94.06	31.24
			For Work In Restricted Working Space, Add	18.75	
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0141	EA		1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 110.91		36.18
			For Work In Restricted Working Space, Add	21.71	
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
26 05 33 13-0142	EA		1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 130.65		41.11
			For Work In Restricted Working Space, Add	24.67	
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
26 05 33 13-0143	EA		2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 146.76		45.22
			For Work In Restricted Working Space, Add	27.13	
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
26 05 33 13-0144	EA		2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 194.33		56.74
			For Work In Restricted Working Space, Add	34.04	
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
26 05 33 13-0145	EA		3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 256.18		77.29
			For Work In Restricted Working Space, Add	46.37	
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.91	
			For Elevated Installation >20' To 25', Add	38.64	
			For Elevated Installation >25' To 30', Add	54.10	
			For Elevated Installation >30' To 35', Add	61.83	
			For Elevated Installation >35' To 40', Add	77.29	
			For Elevated Installation >40', Add	85.01	
26 05 33 13-0146	EA		3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 312.96		87.15
			For Work In Restricted Working Space, Add	52.29	
			For Elevated Installation >10' To 15', Add	17.43	
			For Elevated Installation >15' To 20', Add	34.86	
			For Elevated Installation >20' To 25', Add	43.58	
			For Elevated Installation >25' To 30', Add	61.01	
			For Elevated Installation >30' To 35', Add	69.72	
			For Elevated Installation >35' To 40', Add	87.16	
			For Elevated Installation >40', Add	95.87	
26 05 33 13-0147	EA		4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 370.92		113.46
			For Work In Restricted Working Space, Add	68.08	
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.39	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.43	
			For Elevated Installation >30' To 35', Add	90.77	
			For Elevated Installation >35' To 40', Add	113.47	
			For Elevated Installation >40', Add	124.81	
26 05 33 13-0148	EA		5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 628.88		185.00
			For Work In Restricted Working Space, Add	111.00	
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
26 05 33 13-0149	EA		6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 840.24		277.91
			For Work In Restricted Working Space, Add	166.75	
			For Elevated Installation >10' To 15', Add	55.58	
			For Elevated Installation >15' To 20', Add	111.16	
			For Elevated Installation >20' To 25', Add	138.96	
			For Elevated Installation >25' To 30', Add	194.54	
			For Elevated Installation >30' To 35', Add	222.33	
			For Elevated Installation >35' To 40', Add	277.91	
			For Elevated Installation >40', Add	305.70	

26 05 33 13-0150 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow (26 05 33 13-0059)
See CSI section 26 05 33 13-2224 for conduit field bending.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0151 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	99.48	31.24
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
26 05 33 13-0152 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	117.54	36.18
For Work In Restricted Working Space, Add	21.71	
For Elevated Installation >10' To 15', Add	7.24	
For Elevated Installation >15' To 20', Add	14.47	
For Elevated Installation >20' To 25', Add	18.09	
For Elevated Installation >25' To 30', Add	25.32	
For Elevated Installation >30' To 35', Add	28.94	
For Elevated Installation >35' To 40', Add	36.18	
For Elevated Installation >40', Add	39.79	
26 05 33 13-0153 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	137.70	41.11
For Work In Restricted Working Space, Add	24.67	
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.56	
For Elevated Installation >25' To 30', Add	28.78	
For Elevated Installation >30' To 35', Add	32.89	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
26 05 33 13-0154 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	154.13	45.22
For Work In Restricted Working Space, Add	27.13	
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
26 05 33 13-0155 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	203.25	56.74
For Work In Restricted Working Space, Add	34.04	
For Elevated Installation >10' To 15', Add	11.35	
For Elevated Installation >15' To 20', Add	22.69	
For Elevated Installation >20' To 25', Add	28.37	
For Elevated Installation >25' To 30', Add	39.71	
For Elevated Installation >30' To 35', Add	45.38	
For Elevated Installation >35' To 40', Add	56.73	
For Elevated Installation >40', Add	62.40	
26 05 33 13-0156 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	272.08	77.29
For Work In Restricted Working Space, Add	46.37	
For Elevated Installation >10' To 15', Add	15.46	
For Elevated Installation >15' To 20', Add	30.91	
For Elevated Installation >20' To 25', Add	38.64	
For Elevated Installation >25' To 30', Add	54.10	
For Elevated Installation >30' To 35', Add	61.83	
For Elevated Installation >35' To 40', Add	77.29	
For Elevated Installation >40', Add	85.01	
26 05 33 13-0157 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	328.91	87.15
For Work In Restricted Working Space, Add	52.29	
For Elevated Installation >10' To 15', Add	17.43	
For Elevated Installation >15' To 20', Add	34.86	
For Elevated Installation >20' To 25', Add	43.58	
For Elevated Installation >25' To 30', Add	61.01	
For Elevated Installation >30' To 35', Add	69.72	
For Elevated Installation >35' To 40', Add	87.16	
For Elevated Installation >40', Add	95.87	
26 05 33 13-0158 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	416.81	113.46
For Work In Restricted Working Space, Add	68.08	
For Elevated Installation >10' To 15', Add	22.69	
For Elevated Installation >15' To 20', Add	45.39	
For Elevated Installation >20' To 25', Add	56.73	
For Elevated Installation >25' To 30', Add	79.43	
For Elevated Installation >30' To 35', Add	90.77	
For Elevated Installation >35' To 40', Add	113.47	
For Elevated Installation >40', Add	124.81	
26 05 33 13-0159 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	692.19	185.00
For Work In Restricted Working Space, Add	111.00	
For Elevated Installation >10' To 15', Add	37.00	
For Elevated Installation >15' To 20', Add	74.00	
For Elevated Installation >20' To 25', Add	92.50	
For Elevated Installation >25' To 30', Add	129.50	
For Elevated Installation >30' To 35', Add	148.00	
For Elevated Installation >35' To 40', Add	185.00	
For Elevated Installation >40', Add	203.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0160	EA	6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	895.06		277.91
		For Work In Restricted Working Space, Add	166.75		
		For Elevated Installation >10' To 15', Add	55.58		
		For Elevated Installation >15' To 20', Add	111.16		
		For Elevated Installation >20' To 25', Add	138.96		
		For Elevated Installation >25' To 30', Add	194.54		
		For Elevated Installation >30' To 35', Add	222.33		
		For Elevated Installation >35' To 40', Add	277.91		
		For Elevated Installation >40', Add	305.70		
26 05 33 13-0161		Rigid Galvanized Steel (RGS) 48" Large Radius Elbow (26 05 33 13-0059)			
		See CSI section 26 05 33 13-2224 for conduit field bending.			
26 05 33 13-0162	EA	1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	104.00		31.24
		For Work In Restricted Working Space, Add	18.75		
		For Elevated Installation >10' To 15', Add	6.25		
		For Elevated Installation >15' To 20', Add	12.50		
		For Elevated Installation >20' To 25', Add	15.62		
		For Elevated Installation >25' To 30', Add	21.87		
		For Elevated Installation >30' To 35', Add	25.00		
		For Elevated Installation >35' To 40', Add	31.25		
		For Elevated Installation >40', Add	34.37		
26 05 33 13-0163	EA	1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	122.65		36.18
		For Work In Restricted Working Space, Add	21.71		
		For Elevated Installation >10' To 15', Add	7.24		
		For Elevated Installation >15' To 20', Add	14.47		
		For Elevated Installation >20' To 25', Add	18.09		
		For Elevated Installation >25' To 30', Add	25.32		
		For Elevated Installation >30' To 35', Add	28.94		
		For Elevated Installation >35' To 40', Add	36.18		
		For Elevated Installation >40', Add	39.79		
26 05 33 13-0164	EA	1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	142.16		41.11
		For Work In Restricted Working Space, Add	24.67		
		For Elevated Installation >10' To 15', Add	8.22		
		For Elevated Installation >15' To 20', Add	16.44		
		For Elevated Installation >20' To 25', Add	20.56		
		For Elevated Installation >25' To 30', Add	28.78		
		For Elevated Installation >30' To 35', Add	32.89		
		For Elevated Installation >35' To 40', Add	41.11		
		For Elevated Installation >40', Add	45.22		
26 05 33 13-0165	EA	2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	167.90		45.22
		For Work In Restricted Working Space, Add	27.13		
		For Elevated Installation >10' To 15', Add	9.04		
		For Elevated Installation >15' To 20', Add	18.09		
		For Elevated Installation >20' To 25', Add	22.61		
		For Elevated Installation >25' To 30', Add	31.65		
		For Elevated Installation >30' To 35', Add	36.18		
		For Elevated Installation >35' To 40', Add	45.22		
		For Elevated Installation >40', Add	49.74		
26 05 33 13-0166	EA	2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	219.70		56.74
		For Work In Restricted Working Space, Add	34.04		
		For Elevated Installation >10' To 15', Add	11.35		
		For Elevated Installation >15' To 20', Add	22.69		
		For Elevated Installation >20' To 25', Add	28.37		
		For Elevated Installation >25' To 30', Add	39.71		
		For Elevated Installation >30' To 35', Add	45.38		
		For Elevated Installation >35' To 40', Add	56.73		
		For Elevated Installation >40', Add	62.40		
26 05 33 13-0167	EA	3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	288.11		77.29
		For Work In Restricted Working Space, Add	46.37		
		For Elevated Installation >10' To 15', Add	15.46		
		For Elevated Installation >15' To 20', Add	30.91		
		For Elevated Installation >20' To 25', Add	38.64		
		For Elevated Installation >25' To 30', Add	54.10		
		For Elevated Installation >30' To 35', Add	61.83		
		For Elevated Installation >35' To 40', Add	77.29		
		For Elevated Installation >40', Add	85.01		
26 05 33 13-0168	EA	3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	348.96		87.15
		For Work In Restricted Working Space, Add	52.29		
		For Elevated Installation >10' To 15', Add	17.43		
		For Elevated Installation >15' To 20', Add	34.86		
		For Elevated Installation >20' To 25', Add	43.58		
		For Elevated Installation >25' To 30', Add	61.01		
		For Elevated Installation >30' To 35', Add	69.72		
		For Elevated Installation >35' To 40', Add	87.16		
		For Elevated Installation >40', Add	95.87		
26 05 33 13-0169	EA	4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	441.17		113.46
		For Work In Restricted Working Space, Add	68.08		
		For Elevated Installation >10' To 15', Add	22.69		
		For Elevated Installation >15' To 20', Add	45.39		
		For Elevated Installation >20' To 25', Add	56.73		
		For Elevated Installation >25' To 30', Add	79.43		
		For Elevated Installation >30' To 35', Add	90.77		
		For Elevated Installation >35' To 40', Add	113.47		
		For Elevated Installation >40', Add	124.81		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0170	EA		5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	712.01	185.00
			For Work In Restricted Working Space, Add	111.00	
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
26 05 33 13-0171	EA		6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	906.15	277.91
			For Work In Restricted Working Space, Add	166.75	
			For Elevated Installation >10' To 15', Add	55.58	
			For Elevated Installation >15' To 20', Add	111.16	
			For Elevated Installation >20' To 25', Add	138.96	
			For Elevated Installation >25' To 30', Add	194.54	
			For Elevated Installation >30' To 35', Add	222.33	
			For Elevated Installation >35' To 40', Add	277.91	
			For Elevated Installation >40', Add	305.70	
26 05 33 13-0172 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0059)					
26 05 33 13-0173	EA		1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	16.37	8.07
			For Work In Restricted Working Space, Add	4.84	
			For Elevated Installation >10' To 15', Add	1.61	
			For Elevated Installation >15' To 20', Add	3.23	
			For Elevated Installation >20' To 25', Add	4.03	
			For Elevated Installation >25' To 30', Add	5.65	
			For Elevated Installation >30' To 35', Add	6.45	
			For Elevated Installation >35' To 40', Add	8.07	
			For Elevated Installation >40', Add	8.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.84	
26 05 33 13-0174	EA		3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	17.52	8.60
			For Work In Restricted Working Space, Add	5.16	
			For Elevated Installation >10' To 15', Add	1.72	
			For Elevated Installation >15' To 20', Add	3.44	
			For Elevated Installation >20' To 25', Add	4.30	
			For Elevated Installation >25' To 30', Add	6.02	
			For Elevated Installation >30' To 35', Add	6.88	
			For Elevated Installation >35' To 40', Add	8.60	
			For Elevated Installation >40', Add	9.46	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.16	
26 05 33 13-0175	EA		1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	19.84	9.68
			For Work In Restricted Working Space, Add	5.81	
			For Elevated Installation >10' To 15', Add	1.94	
			For Elevated Installation >15' To 20', Add	3.87	
			For Elevated Installation >20' To 25', Add	4.84	
			For Elevated Installation >25' To 30', Add	6.77	
			For Elevated Installation >30' To 35', Add	7.74	
			For Elevated Installation >35' To 40', Add	9.68	
			For Elevated Installation >40', Add	10.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.81	
26 05 33 13-0176	EA		1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	22.22	10.75
			For Work In Restricted Working Space, Add	6.45	
			For Elevated Installation >10' To 15', Add	2.15	
			For Elevated Installation >15' To 20', Add	4.30	
			For Elevated Installation >20' To 25', Add	5.38	
			For Elevated Installation >25' To 30', Add	7.53	
			For Elevated Installation >30' To 35', Add	8.60	
			For Elevated Installation >35' To 40', Add	10.76	
			For Elevated Installation >40', Add	11.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.45	
26 05 33 13-0177	EA		1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	27.85	13.44
			For Work In Restricted Working Space, Add	8.06	
			For Elevated Installation >10' To 15', Add	2.69	
			For Elevated Installation >15' To 20', Add	5.38	
			For Elevated Installation >20' To 25', Add	6.72	
			For Elevated Installation >25' To 30', Add	9.41	
			For Elevated Installation >30' To 35', Add	10.75	
			For Elevated Installation >35' To 40', Add	13.44	
			For Elevated Installation >40', Add	14.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.06	
26 05 33 13-0178	EA		2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	34.05	16.13
			For Work In Restricted Working Space, Add	9.68	
			For Elevated Installation >10' To 15', Add	3.23	
			For Elevated Installation >15' To 20', Add	6.45	
			For Elevated Installation >20' To 25', Add	8.06	
			For Elevated Installation >25' To 30', Add	11.29	
			For Elevated Installation >30' To 35', Add	12.90	
			For Elevated Installation >35' To 40', Add	16.13	
			For Elevated Installation >40', Add	17.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0179	EA		2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	41.61	18.81
			For Work In Restricted Working Space, Add	11.29	
			For Elevated Installation >10' To 15', Add	3.76	
			For Elevated Installation >15' To 20', Add	7.53	
			For Elevated Installation >20' To 25', Add	9.41	
			For Elevated Installation >25' To 30', Add	13.17	
			For Elevated Installation >30' To 35', Add	15.05	
			For Elevated Installation >35' To 40', Add	18.82	
			For Elevated Installation >40', Add	20.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.29	
26 05 33 13-0180	EA		3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	47.20	21.51
			For Work In Restricted Working Space, Add	12.90	
			For Elevated Installation >10' To 15', Add	4.30	
			For Elevated Installation >15' To 20', Add	8.60	
			For Elevated Installation >20' To 25', Add	10.75	
			For Elevated Installation >25' To 30', Add	15.05	
			For Elevated Installation >30' To 35', Add	17.20	
			For Elevated Installation >35' To 40', Add	21.51	
			For Elevated Installation >40', Add	23.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90	
26 05 33 13-0181	EA		3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	54.21	20.23
			For Work In Restricted Working Space, Add	14.52	
			For Elevated Installation >10' To 15', Add	4.84	
			For Elevated Installation >15' To 20', Add	9.68	
			For Elevated Installation >20' To 25', Add	12.10	
			For Elevated Installation >25' To 30', Add	16.94	
			For Elevated Installation >30' To 35', Add	19.36	
			For Elevated Installation >35' To 40', Add	24.20	
			For Elevated Installation >40', Add	26.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.52	
26 05 33 13-0182	EA		4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	60.18	26.88
			For Work In Restricted Working Space, Add	16.13	
			For Elevated Installation >10' To 15', Add	5.38	
			For Elevated Installation >15' To 20', Add	10.75	
			For Elevated Installation >20' To 25', Add	13.44	
			For Elevated Installation >25' To 30', Add	18.82	
			For Elevated Installation >30' To 35', Add	21.50	
			For Elevated Installation >35' To 40', Add	26.88	
			For Elevated Installation >40', Add	29.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.13	
26 05 33 13-0183	EA		5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	70.07	29.57
			For Work In Restricted Working Space, Add	17.74	
			For Elevated Installation >10' To 15', Add	5.91	
			For Elevated Installation >15' To 20', Add	11.83	
			For Elevated Installation >20' To 25', Add	14.78	
			For Elevated Installation >25' To 30', Add	20.70	
			For Elevated Installation >30' To 35', Add	23.65	
			For Elevated Installation >35' To 40', Add	29.57	
			For Elevated Installation >40', Add	32.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.74	
26 05 33 13-0184	EA		6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	92.21	32.25
			For Work In Restricted Working Space, Add	19.35	
			For Elevated Installation >10' To 15', Add	6.45	
			For Elevated Installation >15' To 20', Add	12.90	
			For Elevated Installation >20' To 25', Add	16.13	
			For Elevated Installation >25' To 30', Add	22.58	
			For Elevated Installation >30' To 35', Add	25.80	
			For Elevated Installation >35' To 40', Add	32.26	
			For Elevated Installation >40', Add	35.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.35	
26 05 33 13-0185			Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0059)		
26 05 33 13-0186	EA		1/2" Rigid Galvanized Steel (RGS) Steel Bushing	19.58	9.49
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.79	
			For Elevated Installation >20' To 25', Add	4.74	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0187	EA		3/4" Rigid Galvanized Steel (RGS) Steel Bushing	21.12	10.12
			For Work In Restricted Working Space, Add	6.07	
			For Elevated Installation >10' To 15', Add	2.02	
			For Elevated Installation >15' To 20', Add	4.05	
			For Elevated Installation >20' To 25', Add	5.06	
			For Elevated Installation >25' To 30', Add	7.08	
			For Elevated Installation >30' To 35', Add	8.09	
			For Elevated Installation >35' To 40', Add	10.12	
			For Elevated Installation >40', Add	11.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0188	EA		1" Rigid Galvanized Steel (RGS) Steel Bushing.....	24.31	11.39
			For Work In Restricted Working Space, Add	6.83	
			For Elevated Installation >10' To 15', Add	2.28	
			For Elevated Installation >15' To 20', Add	4.55	
			For Elevated Installation >20' To 25', Add	5.69	
			For Elevated Installation >25' To 30', Add	7.97	
			For Elevated Installation >30' To 35', Add	9.11	
			For Elevated Installation >35' To 40', Add	11.39	
			For Elevated Installation >40', Add	12.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0189	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing.....	27.20	12.65
			For Work In Restricted Working Space, Add	7.59	
			For Elevated Installation >10' To 15', Add	2.53	
			For Elevated Installation >15' To 20', Add	5.06	
			For Elevated Installation >20' To 25', Add	6.33	
			For Elevated Installation >25' To 30', Add	8.86	
			For Elevated Installation >30' To 35', Add	10.12	
			For Elevated Installation >35' To 40', Add	12.65	
			For Elevated Installation >40', Add	13.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0190	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	34.44	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-0191	EA		2" Rigid Galvanized Steel (RGS) Steel Bushing.....	40.97	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0192	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	53.79	22.14
			For Work In Restricted Working Space, Add	13.28	
			For Elevated Installation >10' To 15', Add	4.43	
			For Elevated Installation >15' To 20', Add	8.85	
			For Elevated Installation >20' To 25', Add	11.07	
			For Elevated Installation >25' To 30', Add	15.49	
			For Elevated Installation >30' To 35', Add	17.71	
			For Elevated Installation >35' To 40', Add	22.14	
			For Elevated Installation >40', Add	24.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-0193	EA		3" Rigid Galvanized Steel (RGS) Steel Bushing.....	63.09	25.30
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.18	
26 05 33 13-0194	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	86.11	28.46
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.39	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.93	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.47	
			For Elevated Installation >40', Add	31.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-0195	EA		4" Rigid Galvanized Steel (RGS) Steel Bushing.....	110.57	31.62
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0196 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing	141.34	34.79
For Work In Restricted Working Space, Add	20.87	
For Elevated Installation >10' To 15', Add	6.96	
For Elevated Installation >15' To 20', Add	13.91	
For Elevated Installation >20' To 25', Add	17.39	
For Elevated Installation >25' To 30', Add	24.35	
For Elevated Installation >30' To 35', Add	27.83	
For Elevated Installation >35' To 40', Add	34.79	
For Elevated Installation >40', Add	38.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87	
26 05 33 13-0197 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing	197.04	37.94
For Work In Restricted Working Space, Add	22.77	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.98	
For Elevated Installation >25' To 30', Add	26.57	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-0198 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0059)		
26 05 33 13-0199 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	20.30	9.49
For Work In Restricted Working Space, Add	5.69	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.79	
For Elevated Installation >20' To 25', Add	4.74	
For Elevated Installation >25' To 30', Add	6.64	
For Elevated Installation >30' To 35', Add	7.59	
For Elevated Installation >35' To 40', Add	9.49	
For Elevated Installation >40', Add	10.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0200 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	22.20	10.12
For Work In Restricted Working Space, Add	6.07	
For Elevated Installation >10' To 15', Add	2.02	
For Elevated Installation >15' To 20', Add	4.05	
For Elevated Installation >20' To 25', Add	5.06	
For Elevated Installation >25' To 30', Add	7.08	
For Elevated Installation >30' To 35', Add	8.09	
For Elevated Installation >35' To 40', Add	10.12	
For Elevated Installation >40', Add	11.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 05 33 13-0201 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	25.67	11.39
For Work In Restricted Working Space, Add	6.83	
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.55	
For Elevated Installation >20' To 25', Add	5.69	
For Elevated Installation >25' To 30', Add	7.97	
For Elevated Installation >30' To 35', Add	9.11	
For Elevated Installation >35' To 40', Add	11.39	
For Elevated Installation >40', Add	12.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0202 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	29.51	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0203 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	36.83	15.82
For Work In Restricted Working Space, Add	9.49	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.91	
For Elevated Installation >25' To 30', Add	11.07	
For Elevated Installation >30' To 35', Add	12.65	
For Elevated Installation >35' To 40', Add	15.81	
For Elevated Installation >40', Add	17.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-0204 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	45.22	18.97
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.49	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.18	
For Elevated Installation >35' To 40', Add	18.97	
For Elevated Installation >40', Add	20.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	



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		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0205	EA	2-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing	59.55	22.14
			For Work In Restricted Working Space, Add	13.28	
			For Elevated Installation >10' To 15', Add	4.43	
			For Elevated Installation >15' To 20', Add	8.85	
			For Elevated Installation >20' To 25', Add	11.07	
			For Elevated Installation >25' To 30', Add	15.49	
			For Elevated Installation >30' To 35', Add	17.71	
			For Elevated Installation >35' To 40', Add	22.14	
			For Elevated Installation >40', Add	24.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-0206	EA	3"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	69.84	25.30
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.18	
26 05 33 13-0207	EA	3-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing	87.37	28.46
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.39	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.93	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.47	
			For Elevated Installation >40', Add	31.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-0208	EA	4"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	116.20	31.62
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0209	EA	5"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	147.48	34.79
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87	
26 05 33 13-0210	EA	6"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	199.20	37.94
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.98	
			For Elevated Installation >25' To 30', Add	26.57	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-0211			Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0059)		
26 05 33 13-0212	EA	1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	28.12	11.39
			For Work In Restricted Working Space, Add	6.83	
			For Elevated Installation >10' To 15', Add	2.28	
			For Elevated Installation >15' To 20', Add	4.55	
			For Elevated Installation >20' To 25', Add	5.69	
			For Elevated Installation >25' To 30', Add	7.97	
			For Elevated Installation >30' To 35', Add	9.11	
			For Elevated Installation >35' To 40', Add	11.39	
			For Elevated Installation >40', Add	12.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0213	EA	3/4"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	31.40	12.65
			For Work In Restricted Working Space, Add	7.59	
			For Elevated Installation >10' To 15', Add	2.53	
			For Elevated Installation >15' To 20', Add	5.06	
			For Elevated Installation >20' To 25', Add	6.33	
			For Elevated Installation >25' To 30', Add	8.86	
			For Elevated Installation >30' To 35', Add	10.12	
			For Elevated Installation >35' To 40', Add	12.65	
			For Elevated Installation >40', Add	13.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0214	EA	1"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	35.44	13.91
			For Work In Restricted Working Space, Add	8.35	
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.57	
			For Elevated Installation >20' To 25', Add	6.96	
			For Elevated Installation >25' To 30', Add	9.74	
			For Elevated Installation >30' To 35', Add	11.13	
			For Elevated Installation >35' To 40', Add	13.92	
			For Elevated Installation >40', Add	15.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35	
26 05 33 13-0215	EA	1-1/4"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	41.47	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-0216	EA	1-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	50.59	19.60
			For Work In Restricted Working Space, Add	11.77	
			For Elevated Installation >10' To 15', Add	3.92	
			For Elevated Installation >15' To 20', Add	7.84	
			For Elevated Installation >20' To 25', Add	9.81	
			For Elevated Installation >25' To 30', Add	13.73	
			For Elevated Installation >30' To 35', Add	15.69	
			For Elevated Installation >35' To 40', Add	19.61	
			For Elevated Installation >40', Add	21.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.77	
26 05 33 13-0217	EA	2"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	62.59	23.40
			For Work In Restricted Working Space, Add	14.04	
			For Elevated Installation >10' To 15', Add	4.68	
			For Elevated Installation >15' To 20', Add	9.36	
			For Elevated Installation >20' To 25', Add	11.70	
			For Elevated Installation >25' To 30', Add	16.38	
			For Elevated Installation >30' To 35', Add	18.72	
			For Elevated Installation >35' To 40', Add	23.40	
			For Elevated Installation >40', Add	25.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.04	
26 05 33 13-0218	EA	2-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	80.19	27.20
			For Work In Restricted Working Space, Add	16.32	
			For Elevated Installation >10' To 15', Add	5.44	
			For Elevated Installation >15' To 20', Add	10.88	
			For Elevated Installation >20' To 25', Add	13.60	
			For Elevated Installation >25' To 30', Add	19.04	
			For Elevated Installation >30' To 35', Add	21.76	
			For Elevated Installation >35' To 40', Add	27.20	
			For Elevated Installation >40', Add	29.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.32	
26 05 33 13-0219	EA	3"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	89.86	31.62
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0220	EA	3-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	101.32	35.42
			For Work In Restricted Working Space, Add	21.25	
			For Elevated Installation >10' To 15', Add	7.08	
			For Elevated Installation >15' To 20', Add	14.17	
			For Elevated Installation >20' To 25', Add	17.71	
			For Elevated Installation >25' To 30', Add	24.79	
			For Elevated Installation >30' To 35', Add	28.34	
			For Elevated Installation >35' To 40', Add	35.42	
			For Elevated Installation >40', Add	38.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.25	
26 05 33 13-0221	EA	4"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	125.08	39.22
			For Work In Restricted Working Space, Add	23.53	
			For Elevated Installation >10' To 15', Add	7.84	
			For Elevated Installation >15' To 20', Add	15.68	
			For Elevated Installation >20' To 25', Add	19.61	
			For Elevated Installation >25' To 30', Add	27.45	
			For Elevated Installation >30' To 35', Add	31.37	
			For Elevated Installation >35' To 40', Add	39.21	
			For Elevated Installation >40', Add	43.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.53	



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		Common Work Results for Electrical	26 05
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0222	EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	166.32		43.01
	For Work In Restricted Working Space, Add	25.80		
	For Elevated Installation >10' To 15', Add	8.60		
	For Elevated Installation >15' To 20', Add	17.20		
	For Elevated Installation >20' To 25', Add	21.50		
	For Elevated Installation >25' To 30', Add	30.10		
	For Elevated Installation >30' To 35', Add	34.40		
	For Elevated Installation >35' To 40', Add	43.01		
	For Elevated Installation >40', Add	47.31		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.80		
26 05 33 13-0223	EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	218.66		47.44
	For Work In Restricted Working Space, Add	28.46		
	For Elevated Installation >10' To 15', Add	9.49		
	For Elevated Installation >15' To 20', Add	18.97		
	For Elevated Installation >20' To 25', Add	23.72		
	For Elevated Installation >25' To 30', Add	33.20		
	For Elevated Installation >30' To 35', Add	37.95		
	For Elevated Installation >35' To 40', Add	47.44		
	For Elevated Installation >40', Add	52.18		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46		
26 05 33 13-0224 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0059)				
26 05 33 13-0225	EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	19.07		5.82
	For Work In Restricted Working Space, Add	4.33		
	For Elevated Installation >10' To 15', Add	1.44		
	For Elevated Installation >15' To 20', Add	2.89		
	For Elevated Installation >20' To 25', Add	3.61		
	For Elevated Installation >25' To 30', Add	5.05		
	For Elevated Installation >30' To 35', Add	5.78		
	For Elevated Installation >35' To 40', Add	7.22		
	For Elevated Installation >40', Add	7.94		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.33		
26 05 33 13-0226	EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	23.14		6.70
	For Work In Restricted Working Space, Add	5.01		
	For Elevated Installation >10' To 15', Add	1.67		
	For Elevated Installation >15' To 20', Add	3.34		
	For Elevated Installation >20' To 25', Add	4.18		
	For Elevated Installation >25' To 30', Add	5.85		
	For Elevated Installation >30' To 35', Add	6.68		
	For Elevated Installation >35' To 40', Add	8.36		
	For Elevated Installation >40', Add	9.19		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.01		
26 05 33 13-0227	EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	30.41		8.10
	For Work In Restricted Working Space, Add	6.05		
	For Elevated Installation >10' To 15', Add	2.02		
	For Elevated Installation >15' To 20', Add	4.03		
	For Elevated Installation >20' To 25', Add	5.04		
	For Elevated Installation >25' To 30', Add	7.05		
	For Elevated Installation >30' To 35', Add	8.06		
	For Elevated Installation >35' To 40', Add	10.08		
	For Elevated Installation >40', Add	11.08		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.05		
26 05 33 13-0228	EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	45.18		9.99
	For Work In Restricted Working Space, Add	7.52		
	For Elevated Installation >10' To 15', Add	2.51		
	For Elevated Installation >15' To 20', Add	5.01		
	For Elevated Installation >20' To 25', Add	6.27		
	For Elevated Installation >25' To 30', Add	8.77		
	For Elevated Installation >30' To 35', Add	10.03		
	For Elevated Installation >35' To 40', Add	12.54		
	For Elevated Installation >40', Add	13.79		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.52		
26 05 33 13-0229	EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	61.17		13.41
	For Work In Restricted Working Space, Add	10.07		
	For Elevated Installation >10' To 15', Add	3.36		
	For Elevated Installation >15' To 20', Add	6.71		
	For Elevated Installation >20' To 25', Add	8.39		
	For Elevated Installation >25' To 30', Add	11.74		
	For Elevated Installation >30' To 35', Add	13.42		
	For Elevated Installation >35' To 40', Add	16.78		
	For Elevated Installation >40', Add	18.45		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07		
26 05 33 13-0230	EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	104.40		20.11
	For Work In Restricted Working Space, Add	15.08		
	For Elevated Installation >10' To 15', Add	5.03		
	For Elevated Installation >15' To 20', Add	10.05		
	For Elevated Installation >20' To 25', Add	12.56		
	For Elevated Installation >25' To 30', Add	17.59		
	For Elevated Installation >30' To 35', Add	20.10		
	For Elevated Installation >35' To 40', Add	25.13		
	For Elevated Installation >40', Add	27.64		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0231 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	189.66	22.26
For Work In Restricted Working Space, Add	16.70	
For Elevated Installation >10' To 15', Add	5.57	
For Elevated Installation >15' To 20', Add	11.13	
For Elevated Installation >20' To 25', Add	13.91	
For Elevated Installation >25' To 30', Add	19.48	
For Elevated Installation >30' To 35', Add	22.26	
For Elevated Installation >35' To 40', Add	27.83	
For Elevated Installation >40', Add	30.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.70	
26 05 33 13-0232 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	226.03	26.94
For Work In Restricted Working Space, Add	20.22	
For Elevated Installation >10' To 15', Add	6.74	
For Elevated Installation >15' To 20', Add	13.48	
For Elevated Installation >20' To 25', Add	16.85	
For Elevated Installation >25' To 30', Add	23.59	
For Elevated Installation >30' To 35', Add	26.96	
For Elevated Installation >35' To 40', Add	33.71	
For Elevated Installation >40', Add	37.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.22	
26 05 33 13-0233 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	305.91	33.78
For Work In Restricted Working Space, Add	25.32	
For Elevated Installation >10' To 15', Add	8.44	
For Elevated Installation >15' To 20', Add	16.88	
For Elevated Installation >20' To 25', Add	21.10	
For Elevated Installation >25' To 30', Add	29.54	
For Elevated Installation >30' To 35', Add	33.76	
For Elevated Installation >35' To 40', Add	42.20	
For Elevated Installation >40', Add	46.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.32	
26 05 33 13-0234 EA 4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	358.26	40.48
For Work In Restricted Working Space, Add	30.36	
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.60	
For Elevated Installation >40', Add	55.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	
26 05 33 13-0235 EA 5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	632.07	45.03
For Work In Restricted Working Space, Add	33.74	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.36	
For Elevated Installation >30' To 35', Add	44.98	
For Elevated Installation >35' To 40', Add	56.23	
For Elevated Installation >40', Add	61.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.74	
26 05 33 13-0236 EA 6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	755.48	50.59
For Work In Restricted Working Space, Add	37.94	
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.29	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.26	
For Elevated Installation >30' To 35', Add	50.59	
For Elevated Installation >35' To 40', Add	63.24	
For Elevated Installation >40', Add	69.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.94	
26 05 33 13-0237 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0059)		
26 05 33 13-0238 EA 1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	17.91	8.22
For Work In Restricted Working Space, Add	4.94	
For Elevated Installation >10' To 15', Add	1.65	
For Elevated Installation >15' To 20', Add	3.29	
For Elevated Installation >20' To 25', Add	4.11	
For Elevated Installation >25' To 30', Add	5.76	
For Elevated Installation >30' To 35', Add	6.58	
For Elevated Installation >35' To 40', Add	8.23	
For Elevated Installation >40', Add	9.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-0239 EA 3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	20.61	9.49
For Work In Restricted Working Space, Add	5.69	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.79	
For Elevated Installation >20' To 25', Add	4.74	
For Elevated Installation >25' To 30', Add	6.64	
For Elevated Installation >30' To 35', Add	7.59	
For Elevated Installation >35' To 40', Add	9.49	
For Elevated Installation >40', Add	10.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0240	EA	1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple		26.32	12.02
		For Work In Restricted Working Space, Add	.....	7.21	
		For Elevated Installation >10' To 15', Add	.....	2.40	
		For Elevated Installation >15' To 20', Add	.....	4.81	
		For Elevated Installation >20' To 25', Add	.....	6.01	
		For Elevated Installation >25' To 30', Add	.....	8.41	
		For Elevated Installation >30' To 35', Add	.....	9.61	
		For Elevated Installation >35' To 40', Add	.....	12.02	
		For Elevated Installation >40', Add	.....	13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.21	
26 05 33 13-0241	EA	1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	30.74	13.91
		For Work In Restricted Working Space, Add	.....	8.35	
		For Elevated Installation >10' To 15', Add	.....	2.78	
		For Elevated Installation >15' To 20', Add	.....	5.56	
		For Elevated Installation >20' To 25', Add	.....	6.96	
		For Elevated Installation >25' To 30', Add	.....	9.74	
		For Elevated Installation >30' To 35', Add	.....	11.13	
		For Elevated Installation >35' To 40', Add	.....	13.91	
		For Elevated Installation >40', Add	.....	15.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.35	
26 05 33 13-0242	EA	1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	35.08	15.82
		For Work In Restricted Working Space, Add	.....	9.49	
		For Elevated Installation >10' To 15', Add	.....	3.16	
		For Elevated Installation >15' To 20', Add	.....	6.32	
		For Elevated Installation >20' To 25', Add	.....	7.91	
		For Elevated Installation >25' To 30', Add	.....	11.07	
		For Elevated Installation >30' To 35', Add	.....	12.65	
		For Elevated Installation >35' To 40', Add	.....	15.81	
		For Elevated Installation >40', Add	.....	17.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	9.49	
26 05 33 13-0243	EA	1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	18.03	8.22
		For Work In Restricted Working Space, Add	.....	4.94	
		For Elevated Installation >10' To 15', Add	.....	1.65	
		For Elevated Installation >15' To 20', Add	.....	3.29	
		For Elevated Installation >20' To 25', Add	.....	4.11	
		For Elevated Installation >25' To 30', Add	.....	5.76	
		For Elevated Installation >30' To 35', Add	.....	6.58	
		For Elevated Installation >35' To 40', Add	.....	8.23	
		For Elevated Installation >40', Add	.....	9.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	4.94	
26 05 33 13-0244	EA	3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	20.80	9.49
		For Work In Restricted Working Space, Add	.....	5.69	
		For Elevated Installation >10' To 15', Add	.....	1.90	
		For Elevated Installation >15' To 20', Add	.....	3.79	
		For Elevated Installation >20' To 25', Add	.....	4.74	
		For Elevated Installation >25' To 30', Add	.....	6.64	
		For Elevated Installation >30' To 35', Add	.....	7.59	
		For Elevated Installation >35' To 40', Add	.....	9.49	
		For Elevated Installation >40', Add	.....	10.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.69	
26 05 33 13-0245	EA	1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	26.52	12.02
		For Work In Restricted Working Space, Add	.....	7.21	
		For Elevated Installation >10' To 15', Add	.....	2.40	
		For Elevated Installation >15' To 20', Add	.....	4.81	
		For Elevated Installation >20' To 25', Add	.....	6.01	
		For Elevated Installation >25' To 30', Add	.....	8.41	
		For Elevated Installation >30' To 35', Add	.....	9.61	
		For Elevated Installation >35' To 40', Add	.....	12.02	
		For Elevated Installation >40', Add	.....	13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.21	
26 05 33 13-0246	EA	1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	31.01	13.91
		For Work In Restricted Working Space, Add	.....	8.35	
		For Elevated Installation >10' To 15', Add	.....	2.78	
		For Elevated Installation >15' To 20', Add	.....	5.56	
		For Elevated Installation >20' To 25', Add	.....	6.96	
		For Elevated Installation >25' To 30', Add	.....	9.74	
		For Elevated Installation >30' To 35', Add	.....	11.13	
		For Elevated Installation >35' To 40', Add	.....	13.91	
		For Elevated Installation >40', Add	.....	15.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.35	
26 05 33 13-0247	EA	1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	35.52	15.82
		For Work In Restricted Working Space, Add	.....	9.49	
		For Elevated Installation >10' To 15', Add	.....	3.16	
		For Elevated Installation >15' To 20', Add	.....	6.32	
		For Elevated Installation >20' To 25', Add	.....	7.91	
		For Elevated Installation >25' To 30', Add	.....	11.07	
		For Elevated Installation >30' To 35', Add	.....	12.65	
		For Elevated Installation >35' To 40', Add	.....	15.81	
		For Elevated Installation >40', Add	.....	17.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.49	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0248	EA	2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple		40.13	17.71
		For Work In Restricted Working Space, Add		10.63	
		For Elevated Installation >10' To 15', Add		3.54	
		For Elevated Installation >15' To 20', Add		7.08	
		For Elevated Installation >20' To 25', Add		8.86	
		For Elevated Installation >25' To 30', Add		12.40	
		For Elevated Installation >30' To 35', Add		14.17	
		For Elevated Installation >35' To 40', Add		17.71	
		For Elevated Installation >40', Add		19.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.63	
26 05 33 13-0249	EA	1 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	18.15	8.22
		For Work In Restricted Working Space, Add		4.94	
		For Elevated Installation >10' To 15', Add		1.65	
		For Elevated Installation >15' To 20', Add		3.29	
		For Elevated Installation >20' To 25', Add		4.11	
		For Elevated Installation >25' To 30', Add		5.76	
		For Elevated Installation >30' To 35', Add		6.58	
		For Elevated Installation >35' To 40', Add		8.23	
		For Elevated Installation >40', Add		9.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.94	
26 05 33 13-0250	EA	3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	20.96	9.49
		For Work In Restricted Working Space, Add		5.69	
		For Elevated Installation >10' To 15', Add		1.90	
		For Elevated Installation >15' To 20', Add		3.79	
		For Elevated Installation >20' To 25', Add		4.74	
		For Elevated Installation >25' To 30', Add		6.64	
		For Elevated Installation >30' To 35', Add		7.59	
		For Elevated Installation >35' To 40', Add		9.49	
		For Elevated Installation >40', Add		10.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.69	
26 05 33 13-0251	EA	1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	26.81	12.02
		For Work In Restricted Working Space, Add		7.21	
		For Elevated Installation >10' To 15', Add		2.40	
		For Elevated Installation >15' To 20', Add		4.81	
		For Elevated Installation >20' To 25', Add		6.01	
		For Elevated Installation >25' To 30', Add		8.41	
		For Elevated Installation >30' To 35', Add		9.61	
		For Elevated Installation >35' To 40', Add		12.02	
		For Elevated Installation >40', Add		13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.21	
26 05 33 13-0252	EA	1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	31.26	13.91
		For Work In Restricted Working Space, Add		8.35	
		For Elevated Installation >10' To 15', Add		2.78	
		For Elevated Installation >15' To 20', Add		5.56	
		For Elevated Installation >20' To 25', Add		6.96	
		For Elevated Installation >25' To 30', Add		9.74	
		For Elevated Installation >30' To 35', Add		11.13	
		For Elevated Installation >35' To 40', Add		13.91	
		For Elevated Installation >40', Add		15.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.35	
26 05 33 13-0253	EA	1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	35.82	15.82
		For Work In Restricted Working Space, Add		9.49	
		For Elevated Installation >10' To 15', Add		3.16	
		For Elevated Installation >15' To 20', Add		6.32	
		For Elevated Installation >20' To 25', Add		7.91	
		For Elevated Installation >25' To 30', Add		11.07	
		For Elevated Installation >30' To 35', Add		12.65	
		For Elevated Installation >35' To 40', Add		15.81	
		For Elevated Installation >40', Add		17.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.49	
26 05 33 13-0254	EA	2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	40.87	17.71
		For Work In Restricted Working Space, Add		10.63	
		For Elevated Installation >10' To 15', Add		3.54	
		For Elevated Installation >15' To 20', Add		7.08	
		For Elevated Installation >20' To 25', Add		8.86	
		For Elevated Installation >25' To 30', Add		12.40	
		For Elevated Installation >30' To 35', Add		14.17	
		For Elevated Installation >35' To 40', Add		17.71	
		For Elevated Installation >40', Add		19.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.63	
26 05 33 13-0255	EA	2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	54.26	21.51
		For Work In Restricted Working Space, Add		12.90	
		For Elevated Installation >10' To 15', Add		4.30	
		For Elevated Installation >15' To 20', Add		8.60	
		For Elevated Installation >20' To 25', Add		10.75	
		For Elevated Installation >25' To 30', Add		15.05	
		For Elevated Installation >30' To 35', Add		17.20	
		For Elevated Installation >35' To 40', Add		21.51	
		For Elevated Installation >40', Add		23.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.90	



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		Common Work Results for Electrical	26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0256	EA	3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.84	29.73	
		For Work In Restricted Working Space, Add	17.84		
		For Elevated Installation >10' To 15', Add	5.95		
		For Elevated Installation >15' To 20', Add	11.89		
		For Elevated Installation >20' To 25', Add	14.86		
		For Elevated Installation >25' To 30', Add	20.81		
		For Elevated Installation >30' To 35', Add	23.78		
		For Elevated Installation >35' To 40', Add	29.73		
		For Elevated Installation >40', Add	32.70		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84		
26 05 33 13-0257	EA	1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.32	8.22	
		For Work In Restricted Working Space, Add	4.94		
		For Elevated Installation >10' To 15', Add	1.65		
		For Elevated Installation >15' To 20', Add	3.29		
		For Elevated Installation >20' To 25', Add	4.11		
		For Elevated Installation >25' To 30', Add	5.76		
		For Elevated Installation >30' To 35', Add	6.58		
		For Elevated Installation >35' To 40', Add	8.23		
		For Elevated Installation >40', Add	9.05		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94		
26 05 33 13-0258	EA	3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.05	9.49	
		For Work In Restricted Working Space, Add	5.69		
		For Elevated Installation >10' To 15', Add	1.90		
		For Elevated Installation >15' To 20', Add	3.79		
		For Elevated Installation >20' To 25', Add	4.74		
		For Elevated Installation >25' To 30', Add	6.64		
		For Elevated Installation >30' To 35', Add	7.59		
		For Elevated Installation >35' To 40', Add	9.49		
		For Elevated Installation >40', Add	10.43		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69		
26 05 33 13-0259	EA	1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.18	12.02	
		For Work In Restricted Working Space, Add	7.21		
		For Elevated Installation >10' To 15', Add	2.40		
		For Elevated Installation >15' To 20', Add	4.81		
		For Elevated Installation >20' To 25', Add	6.01		
		For Elevated Installation >25' To 30', Add	8.41		
		For Elevated Installation >30' To 35', Add	9.61		
		For Elevated Installation >35' To 40', Add	12.02		
		For Elevated Installation >40', Add	13.22		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21		
26 05 33 13-0260	EA	1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	31.73	13.91	
		For Work In Restricted Working Space, Add	8.35		
		For Elevated Installation >10' To 15', Add	2.78		
		For Elevated Installation >15' To 20', Add	5.56		
		For Elevated Installation >20' To 25', Add	6.96		
		For Elevated Installation >25' To 30', Add	9.74		
		For Elevated Installation >30' To 35', Add	11.13		
		For Elevated Installation >35' To 40', Add	13.91		
		For Elevated Installation >40', Add	15.30		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35		
26 05 33 13-0261	EA	1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.44	15.82	
		For Work In Restricted Working Space, Add	9.49		
		For Elevated Installation >10' To 15', Add	3.16		
		For Elevated Installation >15' To 20', Add	6.32		
		For Elevated Installation >20' To 25', Add	7.91		
		For Elevated Installation >25' To 30', Add	11.07		
		For Elevated Installation >30' To 35', Add	12.65		
		For Elevated Installation >35' To 40', Add	15.81		
		For Elevated Installation >40', Add	17.39		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49		
26 05 33 13-0262	EA	2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple.....	41.62	17.71	
		For Work In Restricted Working Space, Add	10.63		
		For Elevated Installation >10' To 15', Add	3.54		
		For Elevated Installation >15' To 20', Add	7.08		
		For Elevated Installation >20' To 25', Add	8.86		
		For Elevated Installation >25' To 30', Add	12.40		
		For Elevated Installation >30' To 35', Add	14.17		
		For Elevated Installation >35' To 40', Add	17.71		
		For Elevated Installation >40', Add	19.48		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63		
26 05 33 13-0263	EA	2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	56.31	21.51	
		For Work In Restricted Working Space, Add	12.90		
		For Elevated Installation >10' To 15', Add	4.30		
		For Elevated Installation >15' To 20', Add	8.60		
		For Elevated Installation >20' To 25', Add	10.75		
		For Elevated Installation >25' To 30', Add	15.05		
		For Elevated Installation >30' To 35', Add	17.20		
		For Elevated Installation >35' To 40', Add	21.51		
		For Elevated Installation >40', Add	23.66		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0264	EA	3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	75.05	29.73
		For Work In Restricted Working Space, Add	.....	17.84	
		For Elevated Installation >10' To 15', Add	.....	5.95	
		For Elevated Installation >15' To 20', Add	.....	11.89	
		For Elevated Installation >20' To 25', Add	.....	14.86	
		For Elevated Installation >25' To 30', Add	.....	20.81	
		For Elevated Installation >30' To 35', Add	.....	23.78	
		For Elevated Installation >35' To 40', Add	.....	29.73	
		For Elevated Installation >40', Add	.....	32.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	17.84	
26 05 33 13-0265	EA	1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	18.47	8.22
		For Work In Restricted Working Space, Add	.....	4.94	
		For Elevated Installation >10' To 15', Add	.....	1.65	
		For Elevated Installation >15' To 20', Add	.....	3.29	
		For Elevated Installation >20' To 25', Add	.....	4.11	
		For Elevated Installation >25' To 30', Add	.....	5.76	
		For Elevated Installation >30' To 35', Add	.....	6.58	
		For Elevated Installation >35' To 40', Add	.....	8.23	
		For Elevated Installation >40', Add	.....	9.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	4.94	
26 05 33 13-0266	EA	3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	21.33	9.49
		For Work In Restricted Working Space, Add	.....	5.69	
		For Elevated Installation >10' To 15', Add	.....	1.90	
		For Elevated Installation >15' To 20', Add	.....	3.79	
		For Elevated Installation >20' To 25', Add	.....	4.74	
		For Elevated Installation >25' To 30', Add	.....	6.64	
		For Elevated Installation >30' To 35', Add	.....	7.59	
		For Elevated Installation >35' To 40', Add	.....	9.49	
		For Elevated Installation >40', Add	.....	10.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.69	
26 05 33 13-0267	EA	1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	27.41	12.02
		For Work In Restricted Working Space, Add	.....	7.21	
		For Elevated Installation >10' To 15', Add	.....	2.40	
		For Elevated Installation >15' To 20', Add	.....	4.81	
		For Elevated Installation >20' To 25', Add	.....	6.01	
		For Elevated Installation >25' To 30', Add	.....	8.41	
		For Elevated Installation >30' To 35', Add	.....	9.61	
		For Elevated Installation >35' To 40', Add	.....	12.02	
		For Elevated Installation >40', Add	.....	13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.21	
26 05 33 13-0268	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	31.96	13.91
		For Work In Restricted Working Space, Add	.....	8.35	
		For Elevated Installation >10' To 15', Add	.....	2.78	
		For Elevated Installation >15' To 20', Add	.....	5.56	
		For Elevated Installation >20' To 25', Add	.....	6.96	
		For Elevated Installation >25' To 30', Add	.....	9.74	
		For Elevated Installation >30' To 35', Add	.....	11.13	
		For Elevated Installation >35' To 40', Add	.....	13.91	
		For Elevated Installation >40', Add	.....	15.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.35	
26 05 33 13-0269	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	36.87	15.82
		For Work In Restricted Working Space, Add	.....	9.49	
		For Elevated Installation >10' To 15', Add	.....	3.16	
		For Elevated Installation >15' To 20', Add	.....	6.32	
		For Elevated Installation >20' To 25', Add	.....	7.91	
		For Elevated Installation >25' To 30', Add	.....	11.07	
		For Elevated Installation >30' To 35', Add	.....	12.65	
		For Elevated Installation >35' To 40', Add	.....	15.81	
		For Elevated Installation >40', Add	.....	17.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	9.49	
26 05 33 13-0270	EA	2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	42.27	17.71
		For Work In Restricted Working Space, Add	.....	10.63	
		For Elevated Installation >10' To 15', Add	.....	3.54	
		For Elevated Installation >15' To 20', Add	.....	7.08	
		For Elevated Installation >20' To 25', Add	.....	8.86	
		For Elevated Installation >25' To 30', Add	.....	12.40	
		For Elevated Installation >30' To 35', Add	.....	14.17	
		For Elevated Installation >35' To 40', Add	.....	17.71	
		For Elevated Installation >40', Add	.....	19.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	10.63	
26 05 33 13-0271	EA	2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	56.93	21.51
		For Work In Restricted Working Space, Add	.....	12.90	
		For Elevated Installation >10' To 15', Add	.....	4.30	
		For Elevated Installation >15' To 20', Add	.....	8.60	
		For Elevated Installation >20' To 25', Add	.....	10.75	
		For Elevated Installation >25' To 30', Add	.....	15.05	
		For Elevated Installation >30' To 35', Add	.....	17.20	
		For Elevated Installation >35' To 40', Add	.....	21.51	
		For Elevated Installation >40', Add	.....	23.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.90	



Electrical		26
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0272	EA	3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple		76.36	29.73
		For Work In Restricted Working Space, Add	.....	17.84	
		For Elevated Installation >10' To 15', Add	.....	5.95	
		For Elevated Installation >15' To 20', Add	.....	11.89	
		For Elevated Installation >20' To 25', Add	.....	14.86	
		For Elevated Installation >25' To 30', Add	.....	20.81	
		For Elevated Installation >30' To 35', Add	.....	23.78	
		For Elevated Installation >35' To 40', Add	.....	29.73	
		For Elevated Installation >40', Add	.....	32.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	17.84	
26 05 33 13-0273	EA	3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	87.63	33.52
		For Work In Restricted Working Space, Add	.....	20.11	
		For Elevated Installation >10' To 15', Add	.....	6.70	
		For Elevated Installation >15' To 20', Add	.....	13.41	
		For Elevated Installation >20' To 25', Add	.....	16.76	
		For Elevated Installation >25' To 30', Add	.....	23.46	
		For Elevated Installation >30' To 35', Add	.....	26.82	
		For Elevated Installation >35' To 40', Add	.....	33.52	
		For Elevated Installation >40', Add	.....	36.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	20.11	
26 05 33 13-0274	EA	4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	110.38	43.64
		For Work In Restricted Working Space, Add	.....	26.18	
		For Elevated Installation >10' To 15', Add	.....	8.73	
		For Elevated Installation >15' To 20', Add	.....	17.45	
		For Elevated Installation >20' To 25', Add	.....	21.82	
		For Elevated Installation >25' To 30', Add	.....	30.54	
		For Elevated Installation >30' To 35', Add	.....	34.91	
		For Elevated Installation >35' To 40', Add	.....	43.64	
		For Elevated Installation >40', Add	.....	48.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	26.18	
26 05 33 13-0275	EA	1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	.....	18.71	8.22
		For Work In Restricted Working Space, Add	.....	4.94	
		For Elevated Installation >10' To 15', Add	.....	1.65	
		For Elevated Installation >15' To 20', Add	.....	3.29	
		For Elevated Installation >20' To 25', Add	.....	4.11	
		For Elevated Installation >25' To 30', Add	.....	5.76	
		For Elevated Installation >30' To 35', Add	.....	6.58	
		For Elevated Installation >35' To 40', Add	.....	8.23	
		For Elevated Installation >40', Add	.....	9.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	4.94	
26 05 33 13-0276	EA	3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	.....	21.68	9.49
		For Work In Restricted Working Space, Add	.....	5.69	
		For Elevated Installation >10' To 15', Add	.....	1.90	
		For Elevated Installation >15' To 20', Add	.....	3.79	
		For Elevated Installation >20' To 25', Add	.....	4.74	
		For Elevated Installation >25' To 30', Add	.....	6.64	
		For Elevated Installation >30' To 35', Add	.....	7.59	
		For Elevated Installation >35' To 40', Add	.....	9.49	
		For Elevated Installation >40', Add	.....	10.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.69	
26 05 33 13-0277	EA	1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	.....	27.86	12.02
		For Work In Restricted Working Space, Add	.....	7.21	
		For Elevated Installation >10' To 15', Add	.....	2.40	
		For Elevated Installation >15' To 20', Add	.....	4.81	
		For Elevated Installation >20' To 25', Add	.....	6.01	
		For Elevated Installation >25' To 30', Add	.....	8.41	
		For Elevated Installation >30' To 35', Add	.....	9.61	
		For Elevated Installation >35' To 40', Add	.....	12.02	
		For Elevated Installation >40', Add	.....	13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.21	
26 05 33 13-0278	EA	1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	.....	32.62	13.91
		For Work In Restricted Working Space, Add	.....	8.35	
		For Elevated Installation >10' To 15', Add	.....	2.78	
		For Elevated Installation >15' To 20', Add	.....	5.56	
		For Elevated Installation >20' To 25', Add	.....	6.96	
		For Elevated Installation >25' To 30', Add	.....	9.74	
		For Elevated Installation >30' To 35', Add	.....	11.13	
		For Elevated Installation >35' To 40', Add	.....	13.91	
		For Elevated Installation >40', Add	.....	15.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.35	
26 05 33 13-0279	EA	1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	.....	37.51	15.82
		For Work In Restricted Working Space, Add	.....	9.49	
		For Elevated Installation >10' To 15', Add	.....	3.16	
		For Elevated Installation >15' To 20', Add	.....	6.32	
		For Elevated Installation >20' To 25', Add	.....	7.91	
		For Elevated Installation >25' To 30', Add	.....	11.07	
		For Elevated Installation >30' To 35', Add	.....	12.65	
		For Elevated Installation >35' To 40', Add	.....	15.81	
		For Elevated Installation >40', Add	.....	17.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	9.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0280	EA		2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	43.41	17.71
			For Work In Restricted Working Space, Add	10.63	
			For Elevated Installation >10' To 15', Add	3.54	
			For Elevated Installation >15' To 20', Add	7.08	
			For Elevated Installation >20' To 25', Add	8.86	
			For Elevated Installation >25' To 30', Add	12.40	
			For Elevated Installation >30' To 35', Add	14.17	
			For Elevated Installation >35' To 40', Add	17.71	
			For Elevated Installation >40', Add	19.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63	
26 05 33 13-0281	EA		2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	59.47	21.51
			For Work In Restricted Working Space, Add	12.90	
			For Elevated Installation >10' To 15', Add	4.30	
			For Elevated Installation >15' To 20', Add	8.60	
			For Elevated Installation >20' To 25', Add	10.75	
			For Elevated Installation >25' To 30', Add	15.05	
			For Elevated Installation >30' To 35', Add	17.20	
			For Elevated Installation >35' To 40', Add	21.51	
			For Elevated Installation >40', Add	23.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90	
26 05 33 13-0282	EA		3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	79.11	29.73
			For Work In Restricted Working Space, Add	17.84	
			For Elevated Installation >10' To 15', Add	5.95	
			For Elevated Installation >15' To 20', Add	11.89	
			For Elevated Installation >20' To 25', Add	14.86	
			For Elevated Installation >25' To 30', Add	20.81	
			For Elevated Installation >30' To 35', Add	23.78	
			For Elevated Installation >35' To 40', Add	29.73	
			For Elevated Installation >40', Add	32.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84	
26 05 33 13-0283	EA		3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	90.36	33.52
			For Work In Restricted Working Space, Add	20.11	
			For Elevated Installation >10' To 15', Add	6.70	
			For Elevated Installation >15' To 20', Add	13.41	
			For Elevated Installation >20' To 25', Add	16.76	
			For Elevated Installation >25' To 30', Add	23.46	
			For Elevated Installation >30' To 35', Add	26.82	
			For Elevated Installation >35' To 40', Add	33.52	
			For Elevated Installation >40', Add	36.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.11	
26 05 33 13-0284	EA		4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	114.37	43.64
			For Work In Restricted Working Space, Add	26.18	
			For Elevated Installation >10' To 15', Add	8.73	
			For Elevated Installation >15' To 20', Add	17.45	
			For Elevated Installation >20' To 25', Add	21.82	
			For Elevated Installation >25' To 30', Add	30.54	
			For Elevated Installation >30' To 35', Add	34.91	
			For Elevated Installation >35' To 40', Add	43.64	
			For Elevated Installation >40', Add	48.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18	
26 05 33 13-0285	EA		5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	172.76	60.08
			For Work In Restricted Working Space, Add	36.05	
			For Elevated Installation >10' To 15', Add	12.02	
			For Elevated Installation >15' To 20', Add	24.03	
			For Elevated Installation >20' To 25', Add	30.04	
			For Elevated Installation >25' To 30', Add	42.06	
			For Elevated Installation >30' To 35', Add	48.06	
			For Elevated Installation >35' To 40', Add	60.08	
			For Elevated Installation >40', Add	66.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.05	
26 05 33 13-0286	EA		6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	219.73	77.03
			For Work In Restricted Working Space, Add	46.25	
			For Elevated Installation >10' To 15', Add	15.42	
			For Elevated Installation >15' To 20', Add	30.83	
			For Elevated Installation >20' To 25', Add	38.54	
			For Elevated Installation >25' To 30', Add	53.96	
			For Elevated Installation >30' To 35', Add	61.67	
			For Elevated Installation >35' To 40', Add	77.09	
			For Elevated Installation >40', Add	84.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.25	
26 05 33 13-0287	EA		1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	19.15	8.22
			For Work In Restricted Working Space, Add	4.94	
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	



Electrical		26
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Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0288	EA	3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple		22.13	9.49
		For Work In Restricted Working Space, Add		5.69	
		For Elevated Installation >10' To 15', Add		1.90	
		For Elevated Installation >15' To 20', Add		3.79	
		For Elevated Installation >20' To 25', Add		4.74	
		For Elevated Installation >25' To 30', Add		6.64	
		For Elevated Installation >30' To 35', Add		7.59	
		For Elevated Installation >35' To 40', Add		9.49	
		For Elevated Installation >40', Add		10.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.69	
26 05 33 13-0289	EA	1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	28.22	12.02
		For Work In Restricted Working Space, Add		7.21	
		For Elevated Installation >10' To 15', Add		2.40	
		For Elevated Installation >15' To 20', Add		4.81	
		For Elevated Installation >20' To 25', Add		6.01	
		For Elevated Installation >25' To 30', Add		8.41	
		For Elevated Installation >30' To 35', Add		9.61	
		For Elevated Installation >35' To 40', Add		12.02	
		For Elevated Installation >40', Add		13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.21	
26 05 33 13-0290	EA	1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	33.22	13.91
		For Work In Restricted Working Space, Add		8.35	
		For Elevated Installation >10' To 15', Add		2.78	
		For Elevated Installation >15' To 20', Add		5.56	
		For Elevated Installation >20' To 25', Add		6.96	
		For Elevated Installation >25' To 30', Add		9.74	
		For Elevated Installation >30' To 35', Add		11.13	
		For Elevated Installation >35' To 40', Add		13.91	
		For Elevated Installation >40', Add		15.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.35	
26 05 33 13-0291	EA	1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	38.86	15.82
		For Work In Restricted Working Space, Add		9.49	
		For Elevated Installation >10' To 15', Add		3.16	
		For Elevated Installation >15' To 20', Add		6.32	
		For Elevated Installation >20' To 25', Add		7.91	
		For Elevated Installation >25' To 30', Add		11.07	
		For Elevated Installation >30' To 35', Add		12.65	
		For Elevated Installation >35' To 40', Add		15.81	
		For Elevated Installation >40', Add		17.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.49	
26 05 33 13-0292	EA	2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	44.56	17.71
		For Work In Restricted Working Space, Add		10.63	
		For Elevated Installation >10' To 15', Add		3.54	
		For Elevated Installation >15' To 20', Add		7.08	
		For Elevated Installation >20' To 25', Add		8.86	
		For Elevated Installation >25' To 30', Add		12.40	
		For Elevated Installation >30' To 35', Add		14.17	
		For Elevated Installation >35' To 40', Add		17.71	
		For Elevated Installation >40', Add		19.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.63	
26 05 33 13-0293	EA	2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	61.69	21.51
		For Work In Restricted Working Space, Add		12.90	
		For Elevated Installation >10' To 15', Add		4.30	
		For Elevated Installation >15' To 20', Add		8.60	
		For Elevated Installation >20' To 25', Add		10.75	
		For Elevated Installation >25' To 30', Add		15.05	
		For Elevated Installation >30' To 35', Add		17.20	
		For Elevated Installation >35' To 40', Add		21.51	
		For Elevated Installation >40', Add		23.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.90	
26 05 33 13-0294	EA	3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	81.90	29.73
		For Work In Restricted Working Space, Add		17.84	
		For Elevated Installation >10' To 15', Add		5.95	
		For Elevated Installation >15' To 20', Add		11.89	
		For Elevated Installation >20' To 25', Add		14.86	
		For Elevated Installation >25' To 30', Add		20.81	
		For Elevated Installation >30' To 35', Add		23.78	
		For Elevated Installation >35' To 40', Add		29.73	
		For Elevated Installation >40', Add		32.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.84	
26 05 33 13-0295	EA	3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	93.69	33.52
		For Work In Restricted Working Space, Add		20.11	
		For Elevated Installation >10' To 15', Add		6.70	
		For Elevated Installation >15' To 20', Add		13.41	
		For Elevated Installation >20' To 25', Add		16.76	
		For Elevated Installation >25' To 30', Add		23.46	
		For Elevated Installation >30' To 35', Add		26.82	
		For Elevated Installation >35' To 40', Add		33.52	
		For Elevated Installation >40', Add		36.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		20.11	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0296	EA		4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	117.53	43.64
			For Work In Restricted Working Space, Add	26.18	
			For Elevated Installation >10' To 15', Add	8.73	
			For Elevated Installation >15' To 20', Add	17.45	
			For Elevated Installation >20' To 25', Add	21.82	
			For Elevated Installation >25' To 30', Add	30.54	
			For Elevated Installation >30' To 35', Add	34.91	
			For Elevated Installation >35' To 40', Add	43.64	
			For Elevated Installation >40', Add	48.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18	
26 05 33 13-0297	EA		5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	177.40	60.08
			For Work In Restricted Working Space, Add	36.05	
			For Elevated Installation >10' To 15', Add	12.02	
			For Elevated Installation >15' To 20', Add	24.03	
			For Elevated Installation >20' To 25', Add	30.04	
			For Elevated Installation >25' To 30', Add	42.06	
			For Elevated Installation >30' To 35', Add	48.06	
			For Elevated Installation >35' To 40', Add	60.08	
			For Elevated Installation >40', Add	66.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.05	
26 05 33 13-0298	EA		6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	226.51	77.03
			For Work In Restricted Working Space, Add	46.25	
			For Elevated Installation >10' To 15', Add	15.42	
			For Elevated Installation >15' To 20', Add	30.83	
			For Elevated Installation >20' To 25', Add	38.54	
			For Elevated Installation >25' To 30', Add	53.96	
			For Elevated Installation >30' To 35', Add	61.67	
			For Elevated Installation >35' To 40', Add	77.09	
			For Elevated Installation >40', Add	84.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.25	
26 05 33 13-0299	EA		1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	20.76	8.22
			For Work In Restricted Working Space, Add	4.94	
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-0300	EA		3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	24.19	9.49
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.79	
			For Elevated Installation >20' To 25', Add	4.74	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0301	EA		1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	30.63	12.02
			For Work In Restricted Working Space, Add	7.21	
			For Elevated Installation >10' To 15', Add	2.40	
			For Elevated Installation >15' To 20', Add	4.81	
			For Elevated Installation >20' To 25', Add	6.01	
			For Elevated Installation >25' To 30', Add	8.41	
			For Elevated Installation >30' To 35', Add	9.61	
			For Elevated Installation >35' To 40', Add	12.02	
			For Elevated Installation >40', Add	13.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21	
26 05 33 13-0302	EA		1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	36.66	13.91
			For Work In Restricted Working Space, Add	8.35	
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.56	
			For Elevated Installation >20' To 25', Add	6.96	
			For Elevated Installation >25' To 30', Add	9.74	
			For Elevated Installation >30' To 35', Add	11.13	
			For Elevated Installation >35' To 40', Add	13.91	
			For Elevated Installation >40', Add	15.30	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35	
26 05 33 13-0303	EA		1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	42.69	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0304	EA		2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	48.60	17.71
			For Work In Restricted Working Space, Add	10.63	
			For Elevated Installation >10' To 15', Add	3.54	
			For Elevated Installation >15' To 20', Add	7.08	
			For Elevated Installation >20' To 25', Add	8.86	
			For Elevated Installation >25' To 30', Add	12.40	
			For Elevated Installation >30' To 35', Add	14.17	
			For Elevated Installation >35' To 40', Add	17.71	
			For Elevated Installation >40', Add	19.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63	
26 05 33 13-0305	EA		2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	67.58	21.51
			For Work In Restricted Working Space, Add	12.90	
			For Elevated Installation >10' To 15', Add	4.30	
			For Elevated Installation >15' To 20', Add	8.60	
			For Elevated Installation >20' To 25', Add	10.75	
			For Elevated Installation >25' To 30', Add	15.05	
			For Elevated Installation >30' To 35', Add	17.20	
			For Elevated Installation >35' To 40', Add	21.51	
			For Elevated Installation >40', Add	23.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90	
26 05 33 13-0306	EA		3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	88.66	29.73
			For Work In Restricted Working Space, Add	17.84	
			For Elevated Installation >10' To 15', Add	5.95	
			For Elevated Installation >15' To 20', Add	11.89	
			For Elevated Installation >20' To 25', Add	14.86	
			For Elevated Installation >25' To 30', Add	20.81	
			For Elevated Installation >30' To 35', Add	23.78	
			For Elevated Installation >35' To 40', Add	29.73	
			For Elevated Installation >40', Add	32.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84	
26 05 33 13-0307	EA		3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	100.43	33.52
			For Work In Restricted Working Space, Add	20.11	
			For Elevated Installation >10' To 15', Add	6.70	
			For Elevated Installation >15' To 20', Add	13.41	
			For Elevated Installation >20' To 25', Add	16.76	
			For Elevated Installation >25' To 30', Add	23.46	
			For Elevated Installation >30' To 35', Add	26.82	
			For Elevated Installation >35' To 40', Add	33.52	
			For Elevated Installation >40', Add	36.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.11	
26 05 33 13-0308	EA		4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	124.99	43.64
			For Work In Restricted Working Space, Add	26.18	
			For Elevated Installation >10' To 15', Add	8.73	
			For Elevated Installation >15' To 20', Add	17.45	
			For Elevated Installation >20' To 25', Add	21.82	
			For Elevated Installation >25' To 30', Add	30.54	
			For Elevated Installation >30' To 35', Add	34.91	
			For Elevated Installation >35' To 40', Add	43.64	
			For Elevated Installation >40', Add	48.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18	
26 05 33 13-0309	EA		5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	188.14	60.08
			For Work In Restricted Working Space, Add	36.05	
			For Elevated Installation >10' To 15', Add	12.02	
			For Elevated Installation >15' To 20', Add	24.03	
			For Elevated Installation >20' To 25', Add	30.04	
			For Elevated Installation >25' To 30', Add	42.06	
			For Elevated Installation >30' To 35', Add	48.06	
			For Elevated Installation >35' To 40', Add	60.08	
			For Elevated Installation >40', Add	66.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.05	
26 05 33 13-0310	EA		6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	238.58	77.03
			For Work In Restricted Working Space, Add	46.25	
			For Elevated Installation >10' To 15', Add	15.42	
			For Elevated Installation >15' To 20', Add	30.83	
			For Elevated Installation >20' To 25', Add	38.54	
			For Elevated Installation >25' To 30', Add	53.96	
			For Elevated Installation >30' To 35', Add	61.67	
			For Elevated Installation >35' To 40', Add	77.09	
			For Elevated Installation >40', Add	84.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.25	
26 05 33 13-0311	EA		1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.84	8.22
			For Work In Restricted Working Space, Add	4.94	
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0312	EA	3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple		25.23	9.49
		For Work In Restricted Working Space, Add		5.69	
		For Elevated Installation >10' To 15', Add		1.90	
		For Elevated Installation >15' To 20', Add		3.79	
		For Elevated Installation >20' To 25', Add		4.74	
		For Elevated Installation >25' To 30', Add		6.64	
		For Elevated Installation >30' To 35', Add		7.59	
		For Elevated Installation >35' To 40', Add		9.49	
		For Elevated Installation >40', Add		10.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.69	
26 05 33 13-0313	EA	1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	.....	32.55	12.02
		For Work In Restricted Working Space, Add		7.21	
		For Elevated Installation >10' To 15', Add		2.40	
		For Elevated Installation >15' To 20', Add		4.81	
		For Elevated Installation >20' To 25', Add		6.01	
		For Elevated Installation >25' To 30', Add		8.41	
		For Elevated Installation >30' To 35', Add		9.61	
		For Elevated Installation >35' To 40', Add		12.02	
		For Elevated Installation >40', Add		13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.21	
26 05 33 13-0314	EA	1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	.....	38.95	13.91
		For Work In Restricted Working Space, Add		8.35	
		For Elevated Installation >10' To 15', Add		2.78	
		For Elevated Installation >15' To 20', Add		5.56	
		For Elevated Installation >20' To 25', Add		6.96	
		For Elevated Installation >25' To 30', Add		9.74	
		For Elevated Installation >30' To 35', Add		11.13	
		For Elevated Installation >35' To 40', Add		13.91	
		For Elevated Installation >40', Add		15.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.35	
26 05 33 13-0315	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	.....	44.94	15.82
		For Work In Restricted Working Space, Add		9.49	
		For Elevated Installation >10' To 15', Add		3.16	
		For Elevated Installation >15' To 20', Add		6.32	
		For Elevated Installation >20' To 25', Add		7.91	
		For Elevated Installation >25' To 30', Add		11.07	
		For Elevated Installation >30' To 35', Add		12.65	
		For Elevated Installation >35' To 40', Add		15.81	
		For Elevated Installation >40', Add		17.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.49	
26 05 33 13-0316	EA	2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	.....	51.21	17.71
		For Work In Restricted Working Space, Add		10.63	
		For Elevated Installation >10' To 15', Add		3.54	
		For Elevated Installation >15' To 20', Add		7.08	
		For Elevated Installation >20' To 25', Add		8.86	
		For Elevated Installation >25' To 30', Add		12.40	
		For Elevated Installation >30' To 35', Add		14.17	
		For Elevated Installation >35' To 40', Add		17.71	
		For Elevated Installation >40', Add		19.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.63	
26 05 33 13-0317	EA	2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	.....	71.54	21.51
		For Work In Restricted Working Space, Add		12.90	
		For Elevated Installation >10' To 15', Add		4.30	
		For Elevated Installation >15' To 20', Add		8.60	
		For Elevated Installation >20' To 25', Add		10.75	
		For Elevated Installation >25' To 30', Add		15.05	
		For Elevated Installation >30' To 35', Add		17.20	
		For Elevated Installation >35' To 40', Add		21.51	
		For Elevated Installation >40', Add		23.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.90	
26 05 33 13-0318	EA	3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	.....	93.98	29.73
		For Work In Restricted Working Space, Add		17.84	
		For Elevated Installation >10' To 15', Add		5.95	
		For Elevated Installation >15' To 20', Add		11.89	
		For Elevated Installation >20' To 25', Add		14.86	
		For Elevated Installation >25' To 30', Add		20.81	
		For Elevated Installation >30' To 35', Add		23.78	
		For Elevated Installation >35' To 40', Add		29.73	
		For Elevated Installation >40', Add		32.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.84	
26 05 33 13-0319	EA	3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	.....	107.43	33.52
		For Work In Restricted Working Space, Add		20.11	
		For Elevated Installation >10' To 15', Add		6.70	
		For Elevated Installation >15' To 20', Add		13.41	
		For Elevated Installation >20' To 25', Add		16.76	
		For Elevated Installation >25' To 30', Add		23.46	
		For Elevated Installation >30' To 35', Add		26.82	
		For Elevated Installation >35' To 40', Add		33.52	
		For Elevated Installation >40', Add		36.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		20.11	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0320	EA		4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	133.85	43.64
			For Work In Restricted Working Space, Add	26.18	
			For Elevated Installation >10' To 15', Add	8.73	
			For Elevated Installation >15' To 20', Add	17.45	
			For Elevated Installation >20' To 25', Add	21.82	
			For Elevated Installation >25' To 30', Add	30.54	
			For Elevated Installation >30' To 35', Add	34.91	
			For Elevated Installation >35' To 40', Add	43.64	
			For Elevated Installation >40', Add	48.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18	
26 05 33 13-0321	EA		5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	199.86	60.08
			For Work In Restricted Working Space, Add	36.05	
			For Elevated Installation >10' To 15', Add	12.02	
			For Elevated Installation >15' To 20', Add	24.03	
			For Elevated Installation >20' To 25', Add	30.04	
			For Elevated Installation >25' To 30', Add	42.06	
			For Elevated Installation >30' To 35', Add	48.06	
			For Elevated Installation >35' To 40', Add	60.08	
			For Elevated Installation >40', Add	66.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.05	
26 05 33 13-0322	EA		6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	259.66	77.03
			For Work In Restricted Working Space, Add	46.25	
			For Elevated Installation >10' To 15', Add	15.42	
			For Elevated Installation >15' To 20', Add	30.83	
			For Elevated Installation >20' To 25', Add	38.54	
			For Elevated Installation >25' To 30', Add	53.96	
			For Elevated Installation >30' To 35', Add	61.67	
			For Elevated Installation >35' To 40', Add	77.09	
			For Elevated Installation >40', Add	84.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.25	
26 05 33 13-0323	EA		1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	22.67	8.22
			For Work In Restricted Working Space, Add	4.94	
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-0324	EA		3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.01	9.49
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.79	
			For Elevated Installation >20' To 25', Add	4.74	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0325	EA		1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	33.71	12.02
			For Work In Restricted Working Space, Add	7.21	
			For Elevated Installation >10' To 15', Add	2.40	
			For Elevated Installation >15' To 20', Add	4.81	
			For Elevated Installation >20' To 25', Add	6.01	
			For Elevated Installation >25' To 30', Add	8.41	
			For Elevated Installation >30' To 35', Add	9.61	
			For Elevated Installation >35' To 40', Add	12.02	
			For Elevated Installation >40', Add	13.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21	
26 05 33 13-0326	EA		1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	40.77	13.91
			For Work In Restricted Working Space, Add	8.35	
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.56	
			For Elevated Installation >20' To 25', Add	6.96	
			For Elevated Installation >25' To 30', Add	9.74	
			For Elevated Installation >30' To 35', Add	11.13	
			For Elevated Installation >35' To 40', Add	13.91	
			For Elevated Installation >40', Add	15.30	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35	
26 05 33 13-0327	EA		1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	46.07	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0328 EA 2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	53.39	17.71
For Work In Restricted Working Space, Add	10.63	
For Elevated Installation >10' To 15', Add	3.54	
For Elevated Installation >15' To 20', Add	7.08	
For Elevated Installation >20' To 25', Add	8.86	
For Elevated Installation >25' To 30', Add	12.40	
For Elevated Installation >30' To 35', Add	14.17	
For Elevated Installation >35' To 40', Add	17.71	
For Elevated Installation >40', Add	19.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63	
26 05 33 13-0329 EA 2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	76.19	21.51
For Work In Restricted Working Space, Add	12.90	
For Elevated Installation >10' To 15', Add	4.30	
For Elevated Installation >15' To 20', Add	8.60	
For Elevated Installation >20' To 25', Add	10.75	
For Elevated Installation >25' To 30', Add	15.05	
For Elevated Installation >30' To 35', Add	17.20	
For Elevated Installation >35' To 40', Add	21.51	
For Elevated Installation >40', Add	23.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90	
26 05 33 13-0330 EA 3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	101.37	29.73
For Work In Restricted Working Space, Add	17.84	
For Elevated Installation >10' To 15', Add	5.95	
For Elevated Installation >15' To 20', Add	11.89	
For Elevated Installation >20' To 25', Add	14.86	
For Elevated Installation >25' To 30', Add	20.81	
For Elevated Installation >30' To 35', Add	23.78	
For Elevated Installation >35' To 40', Add	29.73	
For Elevated Installation >40', Add	32.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84	
26 05 33 13-0331 EA 3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	114.25	33.52
For Work In Restricted Working Space, Add	20.11	
For Elevated Installation >10' To 15', Add	6.70	
For Elevated Installation >15' To 20', Add	13.41	
For Elevated Installation >20' To 25', Add	16.76	
For Elevated Installation >25' To 30', Add	23.46	
For Elevated Installation >30' To 35', Add	26.82	
For Elevated Installation >35' To 40', Add	33.52	
For Elevated Installation >40', Add	36.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.11	
26 05 33 13-0332 EA 4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	142.73	43.64
For Work In Restricted Working Space, Add	26.18	
For Elevated Installation >10' To 15', Add	8.73	
For Elevated Installation >15' To 20', Add	17.45	
For Elevated Installation >20' To 25', Add	21.82	
For Elevated Installation >25' To 30', Add	30.54	
For Elevated Installation >30' To 35', Add	34.91	
For Elevated Installation >35' To 40', Add	43.64	
For Elevated Installation >40', Add	48.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18	
26 05 33 13-0333 EA 5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	216.71	60.08
For Work In Restricted Working Space, Add	36.05	
For Elevated Installation >10' To 15', Add	12.02	
For Elevated Installation >15' To 20', Add	24.03	
For Elevated Installation >20' To 25', Add	30.04	
For Elevated Installation >25' To 30', Add	42.06	
For Elevated Installation >30' To 35', Add	48.06	
For Elevated Installation >35' To 40', Add	60.08	
For Elevated Installation >40', Add	66.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.05	
26 05 33 13-0334 EA 6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	271.38	77.03
For Work In Restricted Working Space, Add	46.25	
For Elevated Installation >10' To 15', Add	15.42	
For Elevated Installation >15' To 20', Add	30.83	
For Elevated Installation >20' To 25', Add	38.54	
For Elevated Installation >25' To 30', Add	53.96	
For Elevated Installation >30' To 35', Add	61.67	
For Elevated Installation >35' To 40', Add	77.09	
For Elevated Installation >40', Add	84.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.25	
26 05 33 13-0335 Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0059)		
26 05 33 13-0336 EA 1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple	19.04	6.57
For Work In Restricted Working Space, Add	4.97	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.31	
For Elevated Installation >20' To 25', Add	4.14	
For Elevated Installation >25' To 30', Add	5.80	
For Elevated Installation >30' To 35', Add	6.63	
For Elevated Installation >35' To 40', Add	8.29	
For Elevated Installation >40', Add	9.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.97	



Electrical		26
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0337	EA		3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	22.65	7.59
			For Work In Restricted Working Space, Add	5.66	
			For Elevated Installation >10' To 15', Add	1.89	
			For Elevated Installation >15' To 20', Add	3.77	
			For Elevated Installation >20' To 25', Add	4.72	
			For Elevated Installation >25' To 30', Add	6.60	
			For Elevated Installation >30' To 35', Add	7.55	
			For Elevated Installation >35' To 40', Add	9.44	
			For Elevated Installation >40', Add	10.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.66	
26 05 33 13-0338	EA		1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	28.45	9.61
			For Work In Restricted Working Space, Add	7.24	
			For Elevated Installation >10' To 15', Add	2.41	
			For Elevated Installation >15' To 20', Add	4.83	
			For Elevated Installation >20' To 25', Add	6.03	
			For Elevated Installation >25' To 30', Add	8.45	
			For Elevated Installation >30' To 35', Add	9.65	
			For Elevated Installation >35' To 40', Add	12.07	
			For Elevated Installation >40', Add	13.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-0339	EA		1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	35.89	11.52
			For Work In Restricted Working Space, Add	8.68	
			For Elevated Installation >10' To 15', Add	2.89	
			For Elevated Installation >15' To 20', Add	5.78	
			For Elevated Installation >20' To 25', Add	7.23	
			For Elevated Installation >25' To 30', Add	10.12	
			For Elevated Installation >30' To 35', Add	11.57	
			For Elevated Installation >35' To 40', Add	14.46	
			For Elevated Installation >40', Add	15.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.68	
26 05 33 13-0340	EA		1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	39.30	12.65
			For Work In Restricted Working Space, Add	9.50	
			For Elevated Installation >10' To 15', Add	3.17	
			For Elevated Installation >15' To 20', Add	6.33	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.08	
			For Elevated Installation >30' To 35', Add	12.66	
			For Elevated Installation >35' To 40', Add	15.83	
			For Elevated Installation >40', Add	17.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.50	
26 05 33 13-0341	EA		2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	51.13	15.55
			For Work In Restricted Working Space, Add	11.70	
			For Elevated Installation >10' To 15', Add	3.90	
			For Elevated Installation >15' To 20', Add	7.80	
			For Elevated Installation >20' To 25', Add	9.75	
			For Elevated Installation >25' To 30', Add	13.65	
			For Elevated Installation >30' To 35', Add	15.60	
			For Elevated Installation >35' To 40', Add	19.50	
			For Elevated Installation >40', Add	21.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.70	
26 05 33 13-0342	EA		2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	83.48	25.30
			For Work In Restricted Working Space, Add	18.97	
			For Elevated Installation >10' To 15', Add	6.32	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.13	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.62	
			For Elevated Installation >40', Add	34.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.97	
26 05 33 13-0343	EA		3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	133.25	34.91
			For Work In Restricted Working Space, Add	26.18	
			For Elevated Installation >10' To 15', Add	8.73	
			For Elevated Installation >15' To 20', Add	17.46	
			For Elevated Installation >20' To 25', Add	21.82	
			For Elevated Installation >25' To 30', Add	30.55	
			For Elevated Installation >30' To 35', Add	34.91	
			For Elevated Installation >35' To 40', Add	43.64	
			For Elevated Installation >40', Add	48.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18	
26 05 33 13-0344	EA		3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	164.60	41.24
			For Work In Restricted Working Space, Add	30.76	
			For Elevated Installation >10' To 15', Add	10.25	
			For Elevated Installation >15' To 20', Add	20.51	
			For Elevated Installation >20' To 25', Add	25.63	
			For Elevated Installation >25' To 30', Add	35.89	
			For Elevated Installation >30' To 35', Add	41.01	
			For Elevated Installation >35' To 40', Add	51.27	
			For Elevated Installation >40', Add	56.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0345 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	197.01	47.57
For Work In Restricted Working Space, Add	35.68	
For Elevated Installation >10' To 15', Add	11.89	
For Elevated Installation >15' To 20', Add	23.78	
For Elevated Installation >20' To 25', Add	29.73	
For Elevated Installation >25' To 30', Add	41.62	
For Elevated Installation >30' To 35', Add	47.57	
For Elevated Installation >35' To 40', Add	59.46	
For Elevated Installation >40', Add	65.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.68	
26 05 33 13-0346 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0059)		
Note: Erickson fittings.		
26 05 33 13-0347 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	52.33	20.23
For Work In Restricted Working Space, Add	15.20	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.13	
For Elevated Installation >20' To 25', Add	12.67	
For Elevated Installation >25' To 30', Add	17.73	
For Elevated Installation >30' To 35', Add	20.26	
For Elevated Installation >35' To 40', Add	25.33	
For Elevated Installation >40', Add	27.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.20	
26 05 33 13-0348 EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	58.68	22.64
For Work In Restricted Working Space, Add	16.96	
For Elevated Installation >10' To 15', Add	5.65	
For Elevated Installation >15' To 20', Add	11.31	
For Elevated Installation >20' To 25', Add	14.14	
For Elevated Installation >25' To 30', Add	19.79	
For Elevated Installation >30' To 35', Add	22.62	
For Elevated Installation >35' To 40', Add	28.27	
For Elevated Installation >40', Add	31.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.96	
26 05 33 13-0349 EA 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	66.93	25.18
For Work In Restricted Working Space, Add	18.89	
For Elevated Installation >10' To 15', Add	6.30	
For Elevated Installation >15' To 20', Add	12.60	
For Elevated Installation >20' To 25', Add	15.75	
For Elevated Installation >25' To 30', Add	22.04	
For Elevated Installation >30' To 35', Add	25.19	
For Elevated Installation >35' To 40', Add	31.49	
For Elevated Installation >40', Add	34.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.89	
26 05 33 13-0350 EA 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	77.34	27.57
For Work In Restricted Working Space, Add	20.68	
For Elevated Installation >10' To 15', Add	6.89	
For Elevated Installation >15' To 20', Add	13.78	
For Elevated Installation >20' To 25', Add	17.23	
For Elevated Installation >25' To 30', Add	24.12	
For Elevated Installation >30' To 35', Add	27.57	
For Elevated Installation >35' To 40', Add	34.46	
For Elevated Installation >40', Add	37.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.68	
26 05 33 13-0351 EA 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	85.50	30.11
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15', Add	7.54	
For Elevated Installation >15' To 20', Add	15.08	
For Elevated Installation >20' To 25', Add	18.85	
For Elevated Installation >25' To 30', Add	26.39	
For Elevated Installation >30' To 35', Add	30.16	
For Elevated Installation >35' To 40', Add	37.70	
For Elevated Installation >40', Add	41.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.62	
26 05 33 13-0352 EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	101.87	32.63
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15', Add	8.17	
For Elevated Installation >15' To 20', Add	16.33	
For Elevated Installation >20' To 25', Add	20.41	
For Elevated Installation >25' To 30', Add	28.58	
For Elevated Installation >30' To 35', Add	32.66	
For Elevated Installation >35' To 40', Add	40.83	
For Elevated Installation >40', Add	44.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-0353 EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	148.03	40.48
For Work In Restricted Working Space, Add	30.36	
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.60	
For Elevated Installation >40', Add	55.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0354	EA		3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	197.58	50.59
			For Work In Restricted Working Space, Add	37.95	
			For Elevated Installation >10' To 15', Add	12.65	
			For Elevated Installation >15' To 20', Add	25.30	
			For Elevated Installation >20' To 25', Add	31.62	
			For Elevated Installation >25' To 30', Add	44.27	
			For Elevated Installation >30' To 35', Add	50.60	
			For Elevated Installation >35' To 40', Add	63.25	
			For Elevated Installation >40', Add	69.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.95	
26 05 33 13-0355	EA		3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	270.26	60.72
			For Work In Restricted Working Space, Add	45.56	
			For Elevated Installation >10' To 15', Add	15.19	
			For Elevated Installation >15' To 20', Add	30.37	
			For Elevated Installation >20' To 25', Add	37.96	
			For Elevated Installation >25' To 30', Add	53.15	
			For Elevated Installation >30' To 35', Add	60.74	
			For Elevated Installation >35' To 40', Add	75.93	
			For Elevated Installation >40', Add	83.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.56	
26 05 33 13-0356	EA		4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	303.68	65.78
			For Work In Restricted Working Space, Add	49.33	
			For Elevated Installation >10' To 15', Add	16.44	
			For Elevated Installation >15' To 20', Add	32.89	
			For Elevated Installation >20' To 25', Add	41.11	
			For Elevated Installation >25' To 30', Add	57.55	
			For Elevated Installation >30' To 35', Add	65.77	
			For Elevated Installation >35' To 40', Add	82.22	
			For Elevated Installation >40', Add	90.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.33	
26 05 33 13-0357	EA		5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	488.15	80.96
			For Work In Restricted Working Space, Add	60.71	
			For Elevated Installation >10' To 15', Add	20.24	
			For Elevated Installation >15' To 20', Add	40.47	
			For Elevated Installation >20' To 25', Add	50.59	
			For Elevated Installation >25' To 30', Add	70.83	
			For Elevated Installation >30' To 35', Add	80.95	
			For Elevated Installation >35' To 40', Add	101.19	
			For Elevated Installation >40', Add	111.30	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.71	
26 05 33 13-0358	EA		6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	614.91	93.61
			For Work In Restricted Working Space, Add	70.20	
			For Elevated Installation >10' To 15', Add	23.40	
			For Elevated Installation >15' To 20', Add	46.80	
			For Elevated Installation >20' To 25', Add	58.50	
			For Elevated Installation >25' To 30', Add	81.90	
			For Elevated Installation >30' To 35', Add	93.60	
			For Elevated Installation >35' To 40', Add	117.00	
			For Elevated Installation >40', Add	128.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.20	
26 05 33 13-0359			Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT)		
			Connectors (26 05 33 13-0059)		
26 05 33 13-0360	EA		1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	31.93	10.12
			For Work In Restricted Working Space, Add	7.59	
			For Elevated Installation >10' To 15', Add	2.53	
			For Elevated Installation >15' To 20', Add	5.06	
			For Elevated Installation >20' To 25', Add	6.33	
			For Elevated Installation >25' To 30', Add	8.86	
			For Elevated Installation >30' To 35', Add	10.12	
			For Elevated Installation >35' To 40', Add	12.65	
			For Elevated Installation >40', Add	13.92	
26 05 33 13-0361	EA		3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	35.67	11.13
			For Work In Restricted Working Space, Add	8.35	
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.57	
			For Elevated Installation >20' To 25', Add	6.96	
			For Elevated Installation >25' To 30', Add	9.74	
			For Elevated Installation >30' To 35', Add	11.13	
			For Elevated Installation >35' To 40', Add	13.92	
			For Elevated Installation >40', Add	15.31	
26 05 33 13-0362	EA		1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	40.97	12.65
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.33	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.82	
			For Elevated Installation >40', Add	17.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0363 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	46.48	13.66
For Work In Restricted Working Space, Add	10.25	
For Elevated Installation >10' To 15', Add	3.42	
For Elevated Installation >15' To 20', Add	6.83	
For Elevated Installation >20' To 25', Add	8.54	
For Elevated Installation >25' To 30', Add	11.95	
For Elevated Installation >30' To 35', Add	13.66	
For Elevated Installation >35' To 40', Add	17.08	
For Elevated Installation >40', Add	18.78	
26 05 33 13-0364 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	55.13	15.18
For Work In Restricted Working Space, Add	11.39	
For Elevated Installation >10' To 15', Add	3.80	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.49	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.18	
For Elevated Installation >35' To 40', Add	18.98	
For Elevated Installation >40', Add	20.87	
26 05 33 13-0365 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	67.14	16.70
For Work In Restricted Working Space, Add	12.52	
For Elevated Installation >10' To 15', Add	4.17	
For Elevated Installation >15' To 20', Add	8.35	
For Elevated Installation >20' To 25', Add	10.44	
For Elevated Installation >25' To 30', Add	14.61	
For Elevated Installation >30' To 35', Add	16.70	
For Elevated Installation >35' To 40', Add	20.87	
For Elevated Installation >40', Add	22.96	
26 05 33 13-0366 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	91.30	20.23
For Work In Restricted Working Space, Add	15.18	
For Elevated Installation >10' To 15', Add	5.06	
For Elevated Installation >15' To 20', Add	10.12	
For Elevated Installation >20' To 25', Add	12.65	
For Elevated Installation >25' To 30', Add	17.71	
For Elevated Installation >30' To 35', Add	20.24	
For Elevated Installation >35' To 40', Add	25.30	
For Elevated Installation >40', Add	27.82	
26 05 33 13-0367 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	112.93	25.30
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
26 05 33 13-0368 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	135.66	30.36
For Work In Restricted Working Space, Add	22.77	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.98	
For Elevated Installation >25' To 30', Add	26.57	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.75	
26 05 33 13-0369 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	153.19	32.89
For Work In Restricted Working Space, Add	24.67	
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.56	
For Elevated Installation >25' To 30', Add	28.78	
For Elevated Installation >30' To 35', Add	32.89	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
26 05 33 13-0370 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0059)		
26 05 33 13-0371 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	25.71	11.39
For Work In Restricted Working Space, Add	6.83	
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.55	
For Elevated Installation >20' To 25', Add	5.69	
For Elevated Installation >25' To 30', Add	7.97	
For Elevated Installation >30' To 35', Add	9.11	
For Elevated Installation >35' To 40', Add	11.39	
For Elevated Installation >40', Add	12.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0372 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	28.62	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0373	EA		1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	35.51	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-0374	EA		1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	43.23	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0375	EA		1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	56.41	25.30
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.18	
26 05 33 13-0376	EA		2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	64.70	28.46
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.39	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.93	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.47	
			For Elevated Installation >40', Add	31.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-0377	EA		2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	76.44	31.62
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0378	EA		3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	100.37	39.85
			For Work In Restricted Working Space, Add	23.91	
			For Elevated Installation >10' To 15', Add	7.97	
			For Elevated Installation >15' To 20', Add	15.94	
			For Elevated Installation >20' To 25', Add	19.92	
			For Elevated Installation >25' To 30', Add	27.89	
			For Elevated Installation >30' To 35', Add	31.88	
			For Elevated Installation >35' To 40', Add	39.85	
			For Elevated Installation >40', Add	43.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.91	
26 05 33 13-0379	EA		3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	119.88	48.07
			For Work In Restricted Working Space, Add	28.84	
			For Elevated Installation >10' To 15', Add	9.61	
			For Elevated Installation >15' To 20', Add	19.23	
			For Elevated Installation >20' To 25', Add	24.03	
			For Elevated Installation >25' To 30', Add	33.65	
			For Elevated Installation >30' To 35', Add	38.45	
			For Elevated Installation >35' To 40', Add	48.07	
			For Elevated Installation >40', Add	52.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.84	
26 05 33 13-0380	EA		4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	145.15	56.93
			For Work In Restricted Working Space, Add	34.15	
			For Elevated Installation >10' To 15', Add	11.38	
			For Elevated Installation >15' To 20', Add	22.77	
			For Elevated Installation >20' To 25', Add	28.46	
			For Elevated Installation >25' To 30', Add	39.84	
			For Elevated Installation >30' To 35', Add	45.54	
			For Elevated Installation >35' To 40', Add	56.92	
			For Elevated Installation >40', Add	62.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.15	

26 05 33 13-0381 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement_(26 05 33 13-0059)
Note: Type AX

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0382	EA		1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	126.94	20.23
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.83	
26 05 33 13-0383	EA		3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	144.07	22.77
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.38	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.92	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.46	
			For Elevated Installation >40', Add	31.31	
26 05 33 13-0384	EA		1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	170.47	25.30
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
26 05 33 13-0385	EA		1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	208.45	27.83
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
26 05 33 13-0386	EA		1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	261.49	30.36
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.97	
			For Elevated Installation >25' To 30', Add	26.56	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.74	
26 05 33 13-0387	EA		2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	360.61	32.89
			For Work In Restricted Working Space, Add	24.66	
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.55	
			For Elevated Installation >25' To 30', Add	28.77	
			For Elevated Installation >30' To 35', Add	32.88	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
26 05 33 13-0388	EA		2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	551.23	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
26 05 33 13-0389	EA		3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	706.12	50.59
			For Work In Restricted Working Space, Add	37.95	
			For Elevated Installation >10' To 15', Add	12.65	
			For Elevated Installation >15' To 20', Add	25.30	
			For Elevated Installation >20' To 25', Add	31.62	
			For Elevated Installation >25' To 30', Add	44.27	
			For Elevated Installation >30' To 35', Add	50.60	
			For Elevated Installation >35' To 40', Add	63.25	
			For Elevated Installation >40', Add	69.57	
26 05 33 13-0390	EA		3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,029.56	60.72
			For Work In Restricted Working Space, Add	45.54	
			For Elevated Installation >10' To 15', Add	15.18	
			For Elevated Installation >15' To 20', Add	30.36	
			For Elevated Installation >20' To 25', Add	37.95	
			For Elevated Installation >25' To 30', Add	53.13	
			For Elevated Installation >30' To 35', Add	60.72	
			For Elevated Installation >35' To 40', Add	75.91	
			For Elevated Installation >40', Add	83.50	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0391	EA		4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,097.60	65.78
			For Work In Restricted Working Space, Add	49.33	
			For Elevated Installation >10' To 15', Add	16.44	
			For Elevated Installation >15' To 20', Add	32.89	
			For Elevated Installation >20' To 25', Add	41.11	
			For Elevated Installation >25' To 30', Add	57.55	
			For Elevated Installation >30' To 35', Add	65.77	
			For Elevated Installation >35' To 40', Add	82.22	
			For Elevated Installation >40', Add	90.44	
26 05 33 13-0392	EA		5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,679.28	80.96
			For Work In Restricted Working Space, Add	60.72	
			For Elevated Installation >10' To 15', Add	20.24	
			For Elevated Installation >15' To 20', Add	40.48	
			For Elevated Installation >20' To 25', Add	50.60	
			For Elevated Installation >25' To 30', Add	70.84	
			For Elevated Installation >30' To 35', Add	80.96	
			For Elevated Installation >35' To 40', Add	101.20	
			For Elevated Installation >40', Add	111.31	
26 05 33 13-0393	EA		6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	2,061.93	89.81
			For Work In Restricted Working Space, Add	67.40	
			For Elevated Installation >10' To 15', Add	22.47	
			For Elevated Installation >15' To 20', Add	44.93	
			For Elevated Installation >20' To 25', Add	56.16	
			For Elevated Installation >25' To 30', Add	78.63	
			For Elevated Installation >30' To 35', Add	89.86	
			For Elevated Installation >35' To 40', Add	112.33	
			For Elevated Installation >40', Add	123.56	
26 05 33 13-0394 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement _{(26 05}					
33 13-0059)					
Note: Type AX-8					
26 05 33 13-0395	EA		1 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	139.71	20.23
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.83	
26 05 33 13-0396	EA		3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	155.38	22.77
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.38	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.92	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.46	
			For Elevated Installation >40', Add	31.31	
26 05 33 13-0397	EA		1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	188.21	25.30
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
26 05 33 13-0398	EA		1 1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	236.39	27.83
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
26 05 33 13-0399	EA		1 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	317.02	30.36
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.97	
			For Elevated Installation >25' To 30', Add	26.56	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.74	
26 05 33 13-0400	EA		2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	387.14	32.89
			For Work In Restricted Working Space, Add	24.66	
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.55	
			For Elevated Installation >25' To 30', Add	28.77	
			For Elevated Installation >30' To 35', Add	32.88	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0401	EA		2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	723.23	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
26 05 33 13-0402	EA		3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	823.57	50.59
			For Work In Restricted Working Space, Add	37.95	
			For Elevated Installation >10' To 15', Add	12.65	
			For Elevated Installation >15' To 20', Add	25.30	
			For Elevated Installation >20' To 25', Add	31.62	
			For Elevated Installation >25' To 30', Add	44.27	
			For Elevated Installation >30' To 35', Add	50.60	
			For Elevated Installation >35' To 40', Add	63.25	
			For Elevated Installation >40', Add	69.57	
26 05 33 13-0403	EA		3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,261.68	60.72
			For Work In Restricted Working Space, Add	45.54	
			For Elevated Installation >10' To 15', Add	15.18	
			For Elevated Installation >15' To 20', Add	30.36	
			For Elevated Installation >20' To 25', Add	37.95	
			For Elevated Installation >25' To 30', Add	53.13	
			For Elevated Installation >30' To 35', Add	60.72	
			For Elevated Installation >35' To 40', Add	75.91	
			For Elevated Installation >40', Add	83.50	
26 05 33 13-0404	EA		4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,365.89	65.78
			For Work In Restricted Working Space, Add	49.33	
			For Elevated Installation >10' To 15', Add	16.44	
			For Elevated Installation >15' To 20', Add	32.89	
			For Elevated Installation >20' To 25', Add	41.11	
			For Elevated Installation >25' To 30', Add	57.55	
			For Elevated Installation >30' To 35', Add	65.77	
			For Elevated Installation >35' To 40', Add	82.22	
			For Elevated Installation >40', Add	90.44	
26 05 33 13-0405	EA		5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,905.42	80.96
			For Work In Restricted Working Space, Add	60.72	
			For Elevated Installation >10' To 15', Add	20.24	
			For Elevated Installation >15' To 20', Add	40.48	
			For Elevated Installation >20' To 25', Add	50.60	
			For Elevated Installation >25' To 30', Add	70.84	
			For Elevated Installation >30' To 35', Add	80.96	
			For Elevated Installation >35' To 40', Add	101.20	
			For Elevated Installation >40', Add	111.31	
26 05 33 13-0406	EA		6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	2,352.89	89.81
			For Work In Restricted Working Space, Add	67.40	
			For Elevated Installation >10' To 15', Add	22.47	
			For Elevated Installation >15' To 20', Add	44.93	
			For Elevated Installation >20' To 25', Add	56.16	
			For Elevated Installation >25' To 30', Add	78.63	
			For Elevated Installation >30' To 35', Add	89.86	
			For Elevated Installation >35' To 40', Add	112.33	
			For Elevated Installation >40', Add	123.56	
26 05 33 13-0407			Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0059)		
			Note: Type EX		
26 05 33 13-0408	EA		1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	158.39	20.23
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.83	
26 05 33 13-0409	EA		3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	199.42	22.77
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.38	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.92	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.46	
			For Elevated Installation >40', Add	31.31	
26 05 33 13-0410	EA		1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	247.71	25.30
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	



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		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0411	EA	1-1/4"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	300.81	27.83
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
26 05 33 13-0412	EA	1-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	404.25	30.36
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.97	
			For Elevated Installation >25' To 30', Add	26.56	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.74	
26 05 33 13-0413	EA	2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	555.71	32.89
			For Work In Restricted Working Space, Add	24.66	
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.55	
			For Elevated Installation >25' To 30', Add	28.77	
			For Elevated Installation >30' To 35', Add	32.88	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
26 05 33 13-0414	EA	2-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	862.02	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
26 05 33 13-0415	EA	3"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,161.48	50.59
			For Work In Restricted Working Space, Add	37.95	
			For Elevated Installation >10' To 15', Add	12.65	
			For Elevated Installation >15' To 20', Add	25.30	
			For Elevated Installation >20' To 25', Add	31.62	
			For Elevated Installation >25' To 30', Add	44.27	
			For Elevated Installation >30' To 35', Add	50.60	
			For Elevated Installation >35' To 40', Add	63.25	
			For Elevated Installation >40', Add	69.57	
26 05 33 13-0416	EA	3-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,742.29	60.72
			For Work In Restricted Working Space, Add	45.54	
			For Elevated Installation >10' To 15', Add	15.18	
			For Elevated Installation >15' To 20', Add	30.36	
			For Elevated Installation >20' To 25', Add	37.95	
			For Elevated Installation >25' To 30', Add	53.13	
			For Elevated Installation >30' To 35', Add	60.72	
			For Elevated Installation >35' To 40', Add	75.91	
			For Elevated Installation >40', Add	83.50	
26 05 33 13-0417	EA	4"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,803.65	65.78
			For Work In Restricted Working Space, Add	49.33	
			For Elevated Installation >10' To 15', Add	16.44	
			For Elevated Installation >15' To 20', Add	32.89	
			For Elevated Installation >20' To 25', Add	41.11	
			For Elevated Installation >25' To 30', Add	57.55	
			For Elevated Installation >30' To 35', Add	65.77	
			For Elevated Installation >35' To 40', Add	82.22	
			For Elevated Installation >40', Add	90.44	
26 05 33 13-0418	EA	5"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,712.37	80.96
			For Work In Restricted Working Space, Add	60.72	
			For Elevated Installation >10' To 15', Add	20.24	
			For Elevated Installation >15' To 20', Add	40.48	
			For Elevated Installation >20' To 25', Add	50.60	
			For Elevated Installation >25' To 30', Add	70.84	
			For Elevated Installation >30' To 35', Add	80.96	
			For Elevated Installation >35' To 40', Add	101.20	
			For Elevated Installation >40', Add	111.31	
26 05 33 13-0419	EA	6"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	3,361.32	89.81
			For Work In Restricted Working Space, Add	67.40	
			For Elevated Installation >10' To 15', Add	22.47	
			For Elevated Installation >15' To 20', Add	44.93	
			For Elevated Installation >20' To 25', Add	56.16	
			For Elevated Installation >25' To 30', Add	78.63	
			For Elevated Installation >30' To 35', Add	89.86	
			For Elevated Installation >35' To 40', Add	112.33	
			For Elevated Installation >40', Add	123.56	

26 05 33 13-0420 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection
Expansion Fittings (26 05 33 13-0059)
Note: Type DX

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0421 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	273.58	20.23
For Work In Restricted Working Space, Add	15.18	
For Elevated Installation >10' To 15', Add	5.06	
For Elevated Installation >15' To 20', Add	10.12	
For Elevated Installation >20' To 25', Add	12.65	
For Elevated Installation >25' To 30', Add	17.71	
For Elevated Installation >30' To 35', Add	20.24	
For Elevated Installation >35' To 40', Add	25.30	
For Elevated Installation >40', Add	27.83	
26 05 33 13-0422 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	325.74	22.77
For Work In Restricted Working Space, Add	17.08	
For Elevated Installation >10' To 15', Add	5.69	
For Elevated Installation >15' To 20', Add	11.38	
For Elevated Installation >20' To 25', Add	14.23	
For Elevated Installation >25' To 30', Add	19.92	
For Elevated Installation >30' To 35', Add	22.77	
For Elevated Installation >35' To 40', Add	28.46	
For Elevated Installation >40', Add	31.31	
26 05 33 13-0423 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	393.48	25.30
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
26 05 33 13-0424 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	462.34	27.83
For Work In Restricted Working Space, Add	20.87	
For Elevated Installation >10' To 15', Add	6.96	
For Elevated Installation >15' To 20', Add	13.91	
For Elevated Installation >20' To 25', Add	17.39	
For Elevated Installation >25' To 30', Add	24.35	
For Elevated Installation >30' To 35', Add	27.83	
For Elevated Installation >35' To 40', Add	34.79	
For Elevated Installation >40', Add	38.26	
26 05 33 13-0425 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	511.22	30.36
For Work In Restricted Working Space, Add	22.77	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.97	
For Elevated Installation >25' To 30', Add	26.56	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.74	
26 05 33 13-0426 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	631.25	32.89
For Work In Restricted Working Space, Add	24.66	
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.55	
For Elevated Installation >25' To 30', Add	28.77	
For Elevated Installation >30' To 35', Add	32.88	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
26 05 33 13-0427 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	833.97	40.48
For Work In Restricted Working Space, Add	30.36	
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.60	
For Elevated Installation >40', Add	55.65	
26 05 33 13-0428 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,057.55	50.59
For Work In Restricted Working Space, Add	37.95	
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.30	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.27	
For Elevated Installation >30' To 35', Add	50.60	
For Elevated Installation >35' To 40', Add	63.25	
For Elevated Installation >40', Add	69.57	
26 05 33 13-0429 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,190.42	60.72
For Work In Restricted Working Space, Add	45.54	
For Elevated Installation >10' To 15', Add	15.18	
For Elevated Installation >15' To 20', Add	30.36	
For Elevated Installation >20' To 25', Add	37.95	
For Elevated Installation >25' To 30', Add	53.13	
For Elevated Installation >30' To 35', Add	60.72	
For Elevated Installation >35' To 40', Add	75.91	
For Elevated Installation >40', Add	83.50	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0430	EA		4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,442.56	65.78
			For Work In Restricted Working Space, Add	49.33	
			For Elevated Installation >10' To 15', Add	16.44	
			For Elevated Installation >15' To 20', Add	32.89	
			For Elevated Installation >20' To 25', Add	41.11	
			For Elevated Installation >25' To 30', Add	57.55	
			For Elevated Installation >30' To 35', Add	65.77	
			For Elevated Installation >35' To 40', Add	82.22	
			For Elevated Installation >40', Add	90.44	
26 05 33 13-0431	EA		5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	2,463.37	80.96
			For Work In Restricted Working Space, Add	60.72	
			For Elevated Installation >10' To 15', Add	20.24	
			For Elevated Installation >15' To 20', Add	40.48	
			For Elevated Installation >20' To 25', Add	50.60	
			For Elevated Installation >25' To 30', Add	70.84	
			For Elevated Installation >30' To 35', Add	80.96	
			For Elevated Installation >35' To 40', Add	101.20	
			For Elevated Installation >40', Add	111.31	
26 05 33 13-0432	EA		6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	3,911.99	89.81
			For Work In Restricted Working Space, Add	67.40	
			For Elevated Installation >10' To 15', Add	22.47	
			For Elevated Installation >15' To 20', Add	44.93	
			For Elevated Installation >20' To 25', Add	56.16	
			For Elevated Installation >25' To 30', Add	78.63	
			For Elevated Installation >30' To 35', Add	89.86	
			For Elevated Installation >35' To 40', Add	112.33	
			For Elevated Installation >40', Add	123.56	
26 05 33 13-0433 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0059)					
26 05 33 13-0434	EA		1/2" To 3/4" Conduit, 14" Bonding Jumper	71.28	10.12
			For Work In Restricted Working Space, Add	7.59	
			For Elevated Installation >10' To 15', Add	2.53	
			For Elevated Installation >15' To 20', Add	5.06	
			For Elevated Installation >20' To 25', Add	6.33	
			For Elevated Installation >25' To 30', Add	8.86	
			For Elevated Installation >30' To 35', Add	10.12	
			For Elevated Installation >35' To 40', Add	12.66	
			For Elevated Installation >40', Add	13.92	
26 05 33 13-0435	EA		1" To 1-1/4" Conduit, 14" Bonding Jumper	82.25	12.65
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.33	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.82	
			For Elevated Installation >40', Add	17.40	
26 05 33 13-0436	EA		1-1/2" To 2" Conduit, 14" Bonding Jumper	101.33	15.18
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
26 05 33 13-0437	EA		2-1/2" To 3" Conduit, 14" Bonding Jumper	142.19	20.23
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.82	
26 05 33 13-0438	EA		3-1/2" To 4" Conduit, 14" Bonding Jumper	215.40	30.36
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.98	
			For Elevated Installation >25' To 30', Add	26.57	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.75	
26 05 33 13-0439	EA		5" To 6" Conduit, 14" Bonding Jumper	366.24	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0440 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper.....	79.16	10.12
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.66	
For Elevated Installation >40', Add	13.92	
26 05 33 13-0441 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper	92.20	12.65
For Work In Restricted Working Space, Add	9.49	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.33	
For Elevated Installation >20' To 25', Add	7.91	
For Elevated Installation >25' To 30', Add	11.07	
For Elevated Installation >30' To 35', Add	12.65	
For Elevated Installation >35' To 40', Add	15.82	
For Elevated Installation >40', Add	17.40	
26 05 33 13-0442 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper	110.44	15.18
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.49	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.18	
For Elevated Installation >35' To 40', Add	18.97	
For Elevated Installation >40', Add	20.87	
26 05 33 13-0443 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper	154.29	20.23
For Work In Restricted Working Space, Add	15.18	
For Elevated Installation >10' To 15', Add	5.06	
For Elevated Installation >15' To 20', Add	10.12	
For Elevated Installation >20' To 25', Add	12.65	
For Elevated Installation >25' To 30', Add	17.71	
For Elevated Installation >30' To 35', Add	20.24	
For Elevated Installation >35' To 40', Add	25.30	
For Elevated Installation >40', Add	27.82	
26 05 33 13-0444 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper	231.45	30.36
For Work In Restricted Working Space, Add	22.77	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.98	
For Elevated Installation >25' To 30', Add	26.57	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.75	
26 05 33 13-0445 EA 5" To 6" Conduit, 24" Bonding Jumper.....	418.00	40.48
For Work In Restricted Working Space, Add	30.36	
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.60	
For Elevated Installation >40', Add	55.65	
26 05 33 13-0446 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0059)		
26 05 33 13-0447 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	109.24	31.62
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0448 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	129.91	37.94
For Work In Restricted Working Space, Add	22.77	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.98	
For Elevated Installation >25' To 30', Add	26.57	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-0449 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	157.97	44.27
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	30.99	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0450	EA	1-1/4"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.49 30.36 10.12 20.24 25.30 35.42 40.48 50.60 55.65 30.36	50.59
26 05 33 13-0451	EA	1-1/2"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	240.76 34.15 11.38 22.77 28.46 39.84 45.54 56.92 62.61 34.15	56.93
26 05 33 13-0452	EA	2"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	290.93 37.95 12.65 25.30 31.62 44.27 50.60 63.25 69.57 37.95	63.25
26 05 33 13-0453	EA	2-1/2"	Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	407.28 45.54 15.18 30.36 37.95 53.13 60.72 75.90 83.48 45.54	75.90
26 05 33 13-0454	EA	3"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	489.18 53.13 17.71 35.42 44.27 61.98 70.84 88.55 97.40 53.13	88.55
26 05 33 13-0455	EA	3-1/2"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,102.49 60.72 20.24 40.48 50.60 70.84 80.96 101.20 111.31 60.72	101.19
26 05 33 13-0456	EA	4"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,269.42 68.31 22.77 45.54 56.92 79.69 91.08 113.85 125.23 68.31	113.84
26 05 33 13-0457			Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0059)		
26 05 33 13-0458	EA	1/2"	Rigid Galvanized Steel (RGS) Threaded Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	16.06 4.55 1.52 3.04 3.80 5.31 6.07 7.59 8.35	7.59

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0459	EA		3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	22.60	10.75
			For Work In Restricted Working Space, Add	6.45	
			For Elevated Installation >10' To 15', Add	2.15	
			For Elevated Installation >15' To 20', Add	4.30	
			For Elevated Installation >20' To 25', Add	5.38	
			For Elevated Installation >25' To 30', Add	7.53	
			For Elevated Installation >30' To 35', Add	8.60	
			For Elevated Installation >35' To 40', Add	10.76	
			For Elevated Installation >40', Add	11.83	
26 05 33 13-0460	EA		1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	29.50	13.91
			For Work In Restricted Working Space, Add	8.35	
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.57	
			For Elevated Installation >20' To 25', Add	6.96	
			For Elevated Installation >25' To 30', Add	9.74	
			For Elevated Installation >30' To 35', Add	11.13	
			For Elevated Installation >35' To 40', Add	13.92	
			For Elevated Installation >40', Add	15.31	
26 05 33 13-0461	EA		1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	33.73	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
26 05 33 13-0462	EA		1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	40.58	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
26 05 33 13-0463	EA		2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	46.94	21.51
			For Work In Restricted Working Space, Add	12.90	
			For Elevated Installation >10' To 15', Add	4.30	
			For Elevated Installation >15' To 20', Add	8.60	
			For Elevated Installation >20' To 25', Add	10.75	
			For Elevated Installation >25' To 30', Add	15.05	
			For Elevated Installation >30' To 35', Add	17.20	
			For Elevated Installation >35' To 40', Add	21.51	
			For Elevated Installation >40', Add	23.66	
26 05 33 13-0464	EA		2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	56.90	24.03
			For Work In Restricted Working Space, Add	14.42	
			For Elevated Installation >10' To 15', Add	4.81	
			For Elevated Installation >15' To 20', Add	9.61	
			For Elevated Installation >20' To 25', Add	12.02	
			For Elevated Installation >25' To 30', Add	16.82	
			For Elevated Installation >30' To 35', Add	19.23	
			For Elevated Installation >35' To 40', Add	24.04	
			For Elevated Installation >40', Add	26.44	
26 05 33 13-0465	EA		3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	65.87	27.20
			For Work In Restricted Working Space, Add	16.32	
			For Elevated Installation >10' To 15', Add	5.44	
			For Elevated Installation >15' To 20', Add	10.88	
			For Elevated Installation >20' To 25', Add	13.60	
			For Elevated Installation >25' To 30', Add	19.04	
			For Elevated Installation >30' To 35', Add	21.76	
			For Elevated Installation >35' To 40', Add	27.20	
			For Elevated Installation >40', Add	29.91	
26 05 33 13-0466	EA		3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	74.97	29.73
			For Work In Restricted Working Space, Add	17.84	
			For Elevated Installation >10' To 15', Add	5.95	
			For Elevated Installation >15' To 20', Add	11.89	
			For Elevated Installation >20' To 25', Add	14.86	
			For Elevated Installation >25' To 30', Add	20.81	
			For Elevated Installation >30' To 35', Add	23.78	
			For Elevated Installation >35' To 40', Add	29.73	
			For Elevated Installation >40', Add	32.70	
26 05 33 13-0467	EA		4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	79.41	31.62
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
26 05 33 13-0468			Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0059)		
26 05 33 13-0469	EA		1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.30	1.26
26 05 33 13-0470	EA		3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	4.69	1.89
26 05 33 13-0471	EA		1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	7.79	3.17



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0472	EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	11.15		4.43
26 05 33 13-0473	EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	13.15		5.06
26 05 33 13-0474	EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	15.25		5.69
26 05 33 13-0475 Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0059)				
26 05 33 13-0476	EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	221.61		15.35
	For Work In Restricted Working Space, Add	11.51		
	For Elevated Installation >10' To 15', Add	3.84		
	For Elevated Installation >15' To 20', Add	7.68		
	For Elevated Installation >20' To 25', Add	9.60		
	For Elevated Installation >25' To 30', Add	13.43		
	For Elevated Installation >30' To 35', Add	15.35		
	For Elevated Installation >35' To 40', Add	19.19		
	For Elevated Installation >40', Add	21.11		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.51		
26 05 33 13-0477	EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	225.31		16.83
	For Work In Restricted Working Space, Add	12.62		
	For Elevated Installation >10' To 15', Add	4.21		
	For Elevated Installation >15' To 20', Add	8.42		
	For Elevated Installation >20' To 25', Add	10.52		
	For Elevated Installation >25' To 30', Add	14.73		
	For Elevated Installation >30' To 35', Add	16.83		
	For Elevated Installation >35' To 40', Add	21.04		
	For Elevated Installation >40', Add	23.14		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.62		
26 05 33 13-0478	EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	270.34		18.47
	For Work In Restricted Working Space, Add	13.82		
	For Elevated Installation >10' To 15', Add	4.61		
	For Elevated Installation >15' To 20', Add	9.22		
	For Elevated Installation >20' To 25', Add	11.52		
	For Elevated Installation >25' To 30', Add	16.13		
	For Elevated Installation >30' To 35', Add	18.43		
	For Elevated Installation >35' To 40', Add	23.04		
	For Elevated Installation >40', Add	25.34		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82		
26 05 33 13-0479	EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	296.77		20.23
	For Work In Restricted Working Space, Add	15.19		
	For Elevated Installation >10' To 15', Add	5.06		
	For Elevated Installation >15' To 20', Add	10.13		
	For Elevated Installation >20' To 25', Add	12.66		
	For Elevated Installation >25' To 30', Add	17.72		
	For Elevated Installation >30' To 35', Add	20.26		
	For Elevated Installation >35' To 40', Add	25.32		
	For Elevated Installation >40', Add	27.85		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.19		
26 05 33 13-0480	EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	338.62		22.77
	For Work In Restricted Working Space, Add	17.08		
	For Elevated Installation >10' To 15', Add	5.69		
	For Elevated Installation >15' To 20', Add	11.39		
	For Elevated Installation >20' To 25', Add	14.23		
	For Elevated Installation >25' To 30', Add	19.93		
	For Elevated Installation >30' To 35', Add	22.77		
	For Elevated Installation >35' To 40', Add	28.47		
	For Elevated Installation >40', Add	31.31		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08		
26 05 33 13-0481	EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	500.85		25.30
	For Work In Restricted Working Space, Add	18.98		
	For Elevated Installation >10' To 15', Add	6.33		
	For Elevated Installation >15' To 20', Add	12.66		
	For Elevated Installation >20' To 25', Add	15.82		
	For Elevated Installation >25' To 30', Add	22.15		
	For Elevated Installation >30' To 35', Add	25.31		
	For Elevated Installation >35' To 40', Add	31.64		
	For Elevated Installation >40', Add	34.80		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98		
26 05 33 13-0482	EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	576.65		33.78
	For Work In Restricted Working Space, Add	25.31		
	For Elevated Installation >10' To 15', Add	8.44		
	For Elevated Installation >15' To 20', Add	16.88		
	For Elevated Installation >20' To 25', Add	21.10		
	For Elevated Installation >25' To 30', Add	29.53		
	For Elevated Installation >30' To 35', Add	33.75		
	For Elevated Installation >35' To 40', Add	42.19		
	For Elevated Installation >40', Add	46.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.31		
26 05 33 13-0483	EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	639.69		37.06
	For Work In Restricted Working Space, Add	27.82		
	For Elevated Installation >10' To 15', Add	9.27		
	For Elevated Installation >15' To 20', Add	18.54		
	For Elevated Installation >20' To 25', Add	23.18		
	For Elevated Installation >25' To 30', Add	32.45		
	For Elevated Installation >30' To 35', Add	37.09		
	For Elevated Installation >35' To 40', Add	46.36		
	For Elevated Installation >40', Add	51.00		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.82		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0484 EA 3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	743.90	40.48
For Work In Restricted Working Space, Add	30.36	
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.61	
For Elevated Installation >40', Add	55.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	
26 05 33 13-0485 EA 4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	838.57	45.54
For Work In Restricted Working Space, Add	34.15	
For Elevated Installation >10' To 15', Add	11.38	
For Elevated Installation >15' To 20', Add	22.77	
For Elevated Installation >20' To 25', Add	28.46	
For Elevated Installation >25' To 30', Add	39.84	
For Elevated Installation >30' To 35', Add	45.54	
For Elevated Installation >35' To 40', Add	56.92	
For Elevated Installation >40', Add	62.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.15	
26 05 33 13-0486 EA 5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,124.70	50.59
For Work In Restricted Working Space, Add	37.95	
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.30	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.27	
For Elevated Installation >30' To 35', Add	50.60	
For Elevated Installation >35' To 40', Add	63.25	
For Elevated Installation >40', Add	69.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.95	
26 05 33 13-0487 EA 6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,398.43	56.16
For Work In Restricted Working Space, Add	42.12	
For Elevated Installation >10' To 15', Add	14.04	
For Elevated Installation >15' To 20', Add	28.08	
For Elevated Installation >20' To 25', Add	35.10	
For Elevated Installation >25' To 30', Add	49.14	
For Elevated Installation >30' To 35', Add	56.16	
For Elevated Installation >35' To 40', Add	70.21	
For Elevated Installation >40', Add	77.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.12	
26 05 33 13-0488 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0059)		
26 05 33 13-0489 EA 3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	20.20	9.80
For Work In Restricted Working Space, Add	5.88	
For Elevated Installation >10' To 15', Add	1.96	
For Elevated Installation >15' To 20', Add	3.92	
For Elevated Installation >20' To 25', Add	4.90	
For Elevated Installation >25' To 30', Add	6.86	
For Elevated Installation >30' To 35', Add	7.84	
For Elevated Installation >35' To 40', Add	9.80	
For Elevated Installation >40', Add	10.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 05 33 13-0490 EA 1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	21.97	10.43
For Work In Restricted Working Space, Add	6.26	
For Elevated Installation >10' To 15', Add	2.09	
For Elevated Installation >15' To 20', Add	4.17	
For Elevated Installation >20' To 25', Add	5.22	
For Elevated Installation >25' To 30', Add	7.30	
For Elevated Installation >30' To 35', Add	8.35	
For Elevated Installation >35' To 40', Add	10.44	
For Elevated Installation >40', Add	11.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-0491 EA 1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	22.61	10.75
For Work In Restricted Working Space, Add	6.45	
For Elevated Installation >10' To 15', Add	2.15	
For Elevated Installation >15' To 20', Add	4.30	
For Elevated Installation >20' To 25', Add	5.38	
For Elevated Installation >25' To 30', Add	7.53	
For Elevated Installation >30' To 35', Add	8.60	
For Elevated Installation >35' To 40', Add	10.76	
For Elevated Installation >40', Add	11.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.45	
26 05 33 13-0492 EA 1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	24.99	11.06
For Work In Restricted Working Space, Add	6.64	
For Elevated Installation >10' To 15', Add	2.21	
For Elevated Installation >15' To 20', Add	4.43	
For Elevated Installation >20' To 25', Add	5.54	
For Elevated Installation >25' To 30', Add	7.75	
For Elevated Installation >30' To 35', Add	8.86	
For Elevated Installation >35' To 40', Add	11.07	
For Elevated Installation >40', Add	12.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.64	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0493	EA	1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing		25.62	11.39
		For Work In Restricted Working Space, Add		6.83	
		For Elevated Installation >10' To 15', Add		2.28	
		For Elevated Installation >15' To 20', Add		4.55	
		For Elevated Installation >20' To 25', Add		5.69	
		For Elevated Installation >25' To 30', Add		7.97	
		For Elevated Installation >30' To 35', Add		9.11	
		For Elevated Installation >35' To 40', Add		11.39	
		For Elevated Installation >40', Add		12.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.83	
26 05 33 13-0494	EA	1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	26.88	12.02
		For Work In Restricted Working Space, Add		7.21	
		For Elevated Installation >10' To 15', Add		2.40	
		For Elevated Installation >15' To 20', Add		4.81	
		For Elevated Installation >20' To 25', Add		6.01	
		For Elevated Installation >25' To 30', Add		8.41	
		For Elevated Installation >30' To 35', Add		9.61	
		For Elevated Installation >35' To 40', Add		12.02	
		For Elevated Installation >40', Add		13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.21	
26 05 33 13-0495	EA	1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	28.75	12.65
		For Work In Restricted Working Space, Add		7.59	
		For Elevated Installation >10' To 15', Add		2.53	
		For Elevated Installation >15' To 20', Add		5.06	
		For Elevated Installation >20' To 25', Add		6.33	
		For Elevated Installation >25' To 30', Add		8.86	
		For Elevated Installation >30' To 35', Add		10.12	
		For Elevated Installation >35' To 40', Add		12.65	
		For Elevated Installation >40', Add		13.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.59	
26 05 33 13-0496	EA	1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	29.38	12.97
		For Work In Restricted Working Space, Add		7.78	
		For Elevated Installation >10' To 15', Add		2.59	
		For Elevated Installation >15' To 20', Add		5.19	
		For Elevated Installation >20' To 25', Add		6.48	
		For Elevated Installation >25' To 30', Add		9.08	
		For Elevated Installation >30' To 35', Add		10.37	
		For Elevated Installation >35' To 40', Add		12.97	
		For Elevated Installation >40', Add		14.26	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.78	
26 05 33 13-0497	EA	1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	30.65	13.60
		For Work In Restricted Working Space, Add		8.16	
		For Elevated Installation >10' To 15', Add		2.72	
		For Elevated Installation >15' To 20', Add		5.44	
		For Elevated Installation >20' To 25', Add		6.80	
		For Elevated Installation >25' To 30', Add		9.52	
		For Elevated Installation >30' To 35', Add		10.88	
		For Elevated Installation >35' To 40', Add		13.60	
		For Elevated Installation >40', Add		14.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.16	
26 05 33 13-0498	EA	1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	31.91	14.23
		For Work In Restricted Working Space, Add		8.54	
		For Elevated Installation >10' To 15', Add		2.85	
		For Elevated Installation >15' To 20', Add		5.69	
		For Elevated Installation >20' To 25', Add		7.12	
		For Elevated Installation >25' To 30', Add		9.96	
		For Elevated Installation >30' To 35', Add		11.38	
		For Elevated Installation >35' To 40', Add		14.23	
		For Elevated Installation >40', Add		15.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.54	
26 05 33 13-0499	EA	2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	36.03	14.23
		For Work In Restricted Working Space, Add		8.54	
		For Elevated Installation >10' To 15', Add		2.85	
		For Elevated Installation >15' To 20', Add		5.69	
		For Elevated Installation >20' To 25', Add		7.12	
		For Elevated Installation >25' To 30', Add		9.96	
		For Elevated Installation >30' To 35', Add		11.38	
		For Elevated Installation >35' To 40', Add		14.23	
		For Elevated Installation >40', Add		15.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.54	
26 05 33 13-0500	EA	2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	36.66	14.54
		For Work In Restricted Working Space, Add		8.73	
		For Elevated Installation >10' To 15', Add		2.91	
		For Elevated Installation >15' To 20', Add		5.82	
		For Elevated Installation >20' To 25', Add		7.27	
		For Elevated Installation >25' To 30', Add		10.18	
		For Elevated Installation >30' To 35', Add		11.64	
		For Elevated Installation >35' To 40', Add		14.55	
		For Elevated Installation >40', Add		16.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0501	EA		2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	37.93	15.18
			For Work In Restricted Working Space, Add	9.11	
			For Elevated Installation >10' To 15', Add	3.04	
			For Elevated Installation >15' To 20', Add	6.07	
			For Elevated Installation >20' To 25', Add	7.59	
			For Elevated Installation >25' To 30', Add	10.63	
			For Elevated Installation >30' To 35', Add	12.14	
			For Elevated Installation >35' To 40', Add	15.18	
			For Elevated Installation >40', Add	16.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.11	
26 05 33 13-0502	EA		2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	39.19	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-0503	EA		2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	42.36	17.39
			For Work In Restricted Working Space, Add	10.44	
			For Elevated Installation >10' To 15', Add	3.48	
			For Elevated Installation >15' To 20', Add	6.96	
			For Elevated Installation >20' To 25', Add	8.70	
			For Elevated Installation >25' To 30', Add	12.18	
			For Elevated Installation >30' To 35', Add	13.92	
			For Elevated Installation >35' To 40', Add	17.40	
			For Elevated Installation >40', Add	19.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.44	
26 05 33 13-0504	EA		2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	52.33	20.56
			For Work In Restricted Working Space, Add	12.33	
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-0505			Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0059)	2.59	1.26
26 05 33 13-0506	EA		1/2" Rigid Galvanized Steel (RGS) Locknuts	2.59	1.26
			For Work In Restricted Working Space, Add	0.76	
			For Elevated Installation >10' To 15', Add	0.25	
			For Elevated Installation >15' To 20', Add	0.51	
			For Elevated Installation >20' To 25', Add	0.63	
			For Elevated Installation >25' To 30', Add	0.89	
			For Elevated Installation >30' To 35', Add	1.01	
			For Elevated Installation >35' To 40', Add	1.27	
			For Elevated Installation >40', Add	1.39	
26 05 33 13-0507	EA		3/4" Rigid Galvanized Steel (RGS) Locknuts	3.88	1.89
			For Work In Restricted Working Space, Add	1.14	
			For Elevated Installation >10' To 15', Add	0.38	
			For Elevated Installation >15' To 20', Add	0.76	
			For Elevated Installation >20' To 25', Add	0.95	
			For Elevated Installation >25' To 30', Add	1.33	
			For Elevated Installation >30' To 35', Add	1.52	
			For Elevated Installation >35' To 40', Add	1.90	
			For Elevated Installation >40', Add	2.09	
26 05 33 13-0508	EA		1" Rigid Galvanized Steel (RGS) Locknuts	6.45	3.17
			For Work In Restricted Working Space, Add	1.90	
			For Elevated Installation >10' To 15', Add	0.63	
			For Elevated Installation >15' To 20', Add	1.26	
			For Elevated Installation >20' To 25', Add	1.58	
			For Elevated Installation >25' To 30', Add	2.21	
			For Elevated Installation >30' To 35', Add	2.53	
			For Elevated Installation >35' To 40', Add	3.16	
			For Elevated Installation >40', Add	3.48	
26 05 33 13-0509	EA		1-1/4" Rigid Galvanized Steel (RGS) Locknuts	9.06	4.43
			For Work In Restricted Working Space, Add	2.66	
			For Elevated Installation >10' To 15', Add	0.89	
			For Elevated Installation >15' To 20', Add	1.77	
			For Elevated Installation >20' To 25', Add	2.21	
			For Elevated Installation >25' To 30', Add	3.10	
			For Elevated Installation >30' To 35', Add	3.54	
			For Elevated Installation >35' To 40', Add	4.43	
			For Elevated Installation >40', Add	4.87	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
26 05 33 13-0510	EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....		10.39		5.06
	For Work In Restricted Working Space, Add		3.04		
	For Elevated Installation >10' To 15', Add		1.01		
	For Elevated Installation >15' To 20', Add		2.02		
	For Elevated Installation >20' To 25', Add		2.53		
	For Elevated Installation >25' To 30', Add		3.54		
	For Elevated Installation >30' To 35', Add		4.05		
	For Elevated Installation >35' To 40', Add		5.06		
	For Elevated Installation >40', Add		5.57		
26 05 33 13-0511	EA 2" Rigid Galvanized Steel (RGS) Locknuts.....		11.73		5.69
	For Work In Restricted Working Space, Add		3.42		
	For Elevated Installation >10' To 15', Add		1.14		
	For Elevated Installation >15' To 20', Add		2.28		
	For Elevated Installation >20' To 25', Add		2.85		
	For Elevated Installation >25' To 30', Add		3.99		
	For Elevated Installation >30' To 35', Add		4.56		
	For Elevated Installation >35' To 40', Add		5.70		
	For Elevated Installation >40', Add		6.26		
26 05 33 13-0512	EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....		16.08		7.59
	For Work In Restricted Working Space, Add		4.55		
	For Elevated Installation >10' To 15', Add		1.52		
	For Elevated Installation >15' To 20', Add		3.04		
	For Elevated Installation >20' To 25', Add		3.80		
	For Elevated Installation >25' To 30', Add		5.31		
	For Elevated Installation >30' To 35', Add		6.07		
	For Elevated Installation >35' To 40', Add		7.59		
	For Elevated Installation >40', Add		8.35		
26 05 33 13-0513	EA 3" Rigid Galvanized Steel (RGS) Locknuts.....		19.96		9.49
	For Work In Restricted Working Space, Add		5.69		
	For Elevated Installation >10' To 15', Add		1.90		
	For Elevated Installation >15' To 20', Add		3.79		
	For Elevated Installation >20' To 25', Add		4.74		
	For Elevated Installation >25' To 30', Add		6.64		
	For Elevated Installation >30' To 35', Add		7.59		
	For Elevated Installation >35' To 40', Add		9.49		
	For Elevated Installation >40', Add		10.43		
26 05 33 13-0514	EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....		23.16		10.75
	For Work In Restricted Working Space, Add		6.45		
	For Elevated Installation >10' To 15', Add		2.15		
	For Elevated Installation >15' To 20', Add		4.30		
	For Elevated Installation >20' To 25', Add		5.38		
	For Elevated Installation >25' To 30', Add		7.53		
	For Elevated Installation >30' To 35', Add		8.60		
	For Elevated Installation >35' To 40', Add		10.76		
	For Elevated Installation >40', Add		11.83		
26 05 33 13-0515	EA 4" Rigid Galvanized Steel (RGS) Locknuts.....		25.92		12.02
	For Work In Restricted Working Space, Add		7.21		
	For Elevated Installation >10' To 15', Add		2.40		
	For Elevated Installation >15' To 20', Add		4.81		
	For Elevated Installation >20' To 25', Add		6.01		
	For Elevated Installation >25' To 30', Add		8.41		
	For Elevated Installation >30' To 35', Add		9.61		
	For Elevated Installation >35' To 40', Add		12.02		
	For Elevated Installation >40', Add		13.22		
26 05 33 13-0516	Rigid Galvanized Steel (RGS) Grounding Locknuts (26 05 33 13-0059)				
26 05 33 13-0517	EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts		3.35		1.26
	For Work In Restricted Working Space, Add		0.76		
	For Elevated Installation >10' To 15', Add		0.25		
	For Elevated Installation >15' To 20', Add		0.51		
	For Elevated Installation >20' To 25', Add		0.63		
	For Elevated Installation >25' To 30', Add		0.89		
	For Elevated Installation >30' To 35', Add		1.01		
	For Elevated Installation >35' To 40', Add		1.27		
	For Elevated Installation >40', Add		1.39		
26 05 33 13-0518	EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts		4.78		1.89
	For Work In Restricted Working Space, Add		1.14		
	For Elevated Installation >10' To 15', Add		0.38		
	For Elevated Installation >15' To 20', Add		0.76		
	For Elevated Installation >20' To 25', Add		0.95		
	For Elevated Installation >25' To 30', Add		1.33		
	For Elevated Installation >30' To 35', Add		1.52		
	For Elevated Installation >35' To 40', Add		1.90		
	For Elevated Installation >40', Add		2.09		
26 05 33 13-0519	EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts		7.73		3.17
	For Work In Restricted Working Space, Add		1.90		
	For Elevated Installation >10' To 15', Add		0.63		
	For Elevated Installation >15' To 20', Add		1.26		
	For Elevated Installation >20' To 25', Add		1.58		
	For Elevated Installation >25' To 30', Add		2.21		
	For Elevated Installation >30' To 35', Add		2.53		
	For Elevated Installation >35' To 40', Add		3.16		
	For Elevated Installation >40', Add		3.48		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0520	EA		1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	10.81	4.43
			For Work In Restricted Working Space, Add	2.66	
			For Elevated Installation >10' To 15', Add	0.89	
			For Elevated Installation >15' To 20', Add	1.77	
			For Elevated Installation >20' To 25', Add	2.21	
			For Elevated Installation >25' To 30', Add	3.10	
			For Elevated Installation >30' To 35', Add	3.54	
			For Elevated Installation >35' To 40', Add	4.43	
			For Elevated Installation >40', Add	4.87	
26 05 33 13-0521	EA		1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	12.27	5.06
			For Work In Restricted Working Space, Add	3.04	
			For Elevated Installation >10' To 15', Add	1.01	
			For Elevated Installation >15' To 20', Add	2.02	
			For Elevated Installation >20' To 25', Add	2.53	
			For Elevated Installation >25' To 30', Add	3.54	
			For Elevated Installation >30' To 35', Add	4.05	
			For Elevated Installation >35' To 40', Add	5.06	
			For Elevated Installation >40', Add	5.57	
26 05 33 13-0522	EA		2" Rigid Galvanized Steel (RGS) Grounding Locknuts	14.19	5.69
			For Work In Restricted Working Space, Add	3.42	
			For Elevated Installation >10' To 15', Add	1.14	
			For Elevated Installation >15' To 20', Add	2.28	
			For Elevated Installation >20' To 25', Add	2.85	
			For Elevated Installation >25' To 30', Add	3.99	
			For Elevated Installation >30' To 35', Add	4.56	
			For Elevated Installation >35' To 40', Add	5.70	
			For Elevated Installation >40', Add	6.26	
26 05 33 13-0523	EA		2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	20.38	7.59
			For Work In Restricted Working Space, Add	4.55	
			For Elevated Installation >10' To 15', Add	1.52	
			For Elevated Installation >15' To 20', Add	3.04	
			For Elevated Installation >20' To 25', Add	3.80	
			For Elevated Installation >25' To 30', Add	5.31	
			For Elevated Installation >30' To 35', Add	6.07	
			For Elevated Installation >35' To 40', Add	7.59	
			For Elevated Installation >40', Add	8.35	
26 05 33 13-0524	EA		3" Rigid Galvanized Steel (RGS) Grounding Locknuts	25.58	9.49
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.79	
			For Elevated Installation >20' To 25', Add	4.74	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.43	
26 05 33 13-0525	EA		3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	32.23	10.75
			For Work In Restricted Working Space, Add	6.45	
			For Elevated Installation >10' To 15', Add	2.15	
			For Elevated Installation >15' To 20', Add	4.30	
			For Elevated Installation >20' To 25', Add	5.38	
			For Elevated Installation >25' To 30', Add	7.53	
			For Elevated Installation >30' To 35', Add	8.60	
			For Elevated Installation >35' To 40', Add	10.76	
			For Elevated Installation >40', Add	11.83	
26 05 33 13-0526	EA		4" Rigid Galvanized Steel (RGS) Grounding Locknuts	37.86	12.02
			For Work In Restricted Working Space, Add	7.21	
			For Elevated Installation >10' To 15', Add	2.40	
			For Elevated Installation >15' To 20', Add	4.81	
			For Elevated Installation >20' To 25', Add	6.01	
			For Elevated Installation >25' To 30', Add	8.41	
			For Elevated Installation >30' To 35', Add	9.61	
			For Elevated Installation >35' To 40', Add	12.02	
			For Elevated Installation >40', Add	13.22	
26 05 33 13-0527			Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0059)		
26 05 33 13-0528	EA		1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	9.64	3.80
			For Work In Restricted Working Space, Add	2.28	
			For Elevated Installation >10' To 15', Add	0.76	
			For Elevated Installation >15' To 20', Add	1.52	
			For Elevated Installation >20' To 25', Add	1.90	
			For Elevated Installation >25' To 30', Add	2.66	
			For Elevated Installation >30' To 35', Add	3.04	
			For Elevated Installation >35' To 40', Add	3.80	
			For Elevated Installation >40', Add	4.17	
26 05 33 13-0529	EA		3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	12.35	5.06
			For Work In Restricted Working Space, Add	3.04	
			For Elevated Installation >10' To 15', Add	1.01	
			For Elevated Installation >15' To 20', Add	2.02	
			For Elevated Installation >20' To 25', Add	2.53	
			For Elevated Installation >25' To 30', Add	3.54	
			For Elevated Installation >30' To 35', Add	4.05	
			For Elevated Installation >35' To 40', Add	5.06	
			For Elevated Installation >40', Add	5.57	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0530	EA		1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	15.65	6.32
			For Work In Restricted Working Space, Add	3.80	
			For Elevated Installation >10' To 15', Add	1.27	
			For Elevated Installation >15' To 20', Add	2.53	
			For Elevated Installation >20' To 25', Add	3.16	
			For Elevated Installation >25' To 30', Add	4.43	
			For Elevated Installation >30' To 35', Add	5.06	
			For Elevated Installation >35' To 40', Add	6.33	
			For Elevated Installation >40', Add	6.96	
26 05 33 13-0531	EA		1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	23.58	10.12
			For Work In Restricted Working Space, Add	6.07	
			For Elevated Installation >10' To 15', Add	2.02	
			For Elevated Installation >15' To 20', Add	4.05	
			For Elevated Installation >20' To 25', Add	5.06	
			For Elevated Installation >25' To 30', Add	7.08	
			For Elevated Installation >30' To 35', Add	8.09	
			For Elevated Installation >35' To 40', Add	10.12	
			For Elevated Installation >40', Add	11.13	
26 05 33 13-0532	EA		1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	26.56	11.39
			For Work In Restricted Working Space, Add	6.83	
			For Elevated Installation >10' To 15', Add	2.28	
			For Elevated Installation >15' To 20', Add	4.55	
			For Elevated Installation >20' To 25', Add	5.69	
			For Elevated Installation >25' To 30', Add	7.97	
			For Elevated Installation >30' To 35', Add	9.11	
			For Elevated Installation >35' To 40', Add	11.39	
			For Elevated Installation >40', Add	12.52	
26 05 33 13-0533	EA		2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	29.95	12.65
			For Work In Restricted Working Space, Add	7.59	
			For Elevated Installation >10' To 15', Add	2.53	
			For Elevated Installation >15' To 20', Add	5.06	
			For Elevated Installation >20' To 25', Add	6.33	
			For Elevated Installation >25' To 30', Add	8.86	
			For Elevated Installation >30' To 35', Add	10.12	
			For Elevated Installation >35' To 40', Add	12.65	
			For Elevated Installation >40', Add	13.92	
26 05 33 13-0534	EA		2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	39.34	15.18
			For Work In Restricted Working Space, Add	9.11	
			For Elevated Installation >10' To 15', Add	3.04	
			For Elevated Installation >15' To 20', Add	6.07	
			For Elevated Installation >20' To 25', Add	7.59	
			For Elevated Installation >25' To 30', Add	10.63	
			For Elevated Installation >30' To 35', Add	12.14	
			For Elevated Installation >35' To 40', Add	15.18	
			For Elevated Installation >40', Add	16.70	
26 05 33 13-0535	EA		3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	48.23	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
26 05 33 13-0536	EA		3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	61.22	25.30
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.82	
26 05 33 13-0537	EA		4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	75.26	31.62
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
26 05 33 13-0538			Rigid Galvanized Steel (RGS) Threadless Compression Connectors (26 05 33 13-0059)		
26 05 33 13-0539	EA		1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	26.26	11.39
			For Work In Restricted Working Space, Add	6.83	
			For Elevated Installation >10' To 15', Add	2.28	
			For Elevated Installation >15' To 20', Add	4.55	
			For Elevated Installation >20' To 25', Add	5.69	
			For Elevated Installation >25' To 30', Add	7.97	
			For Elevated Installation >30' To 35', Add	9.11	
			For Elevated Installation >35' To 40', Add	11.39	
			For Elevated Installation >40', Add	12.52	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0540	EA		3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	30.92	12.65
			For Work In Restricted Working Space, Add	7.59	
			For Elevated Installation >10' To 15', Add	2.53	
			For Elevated Installation >15' To 20', Add	5.06	
			For Elevated Installation >20' To 25', Add	6.33	
			For Elevated Installation >25' To 30', Add	8.86	
			For Elevated Installation >30' To 35', Add	10.12	
			For Elevated Installation >35' To 40', Add	12.65	
			For Elevated Installation >40', Add	13.92	
26 05 33 13-0541	EA		1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	40.40	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
26 05 33 13-0542	EA		1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	54.46	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
26 05 33 13-0543	EA		1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	73.47	25.30
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.82	
26 05 33 13-0544	EA		2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	107.14	31.62
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
26 05 33 13-0545	EA		2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	177.15	37.94
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.98	
			For Elevated Installation >25' To 30', Add	26.57	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.75	
26 05 33 13-0546	EA		3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	222.79	44.27
			For Work In Restricted Working Space, Add	26.57	
			For Elevated Installation >10' To 15', Add	8.86	
			For Elevated Installation >15' To 20', Add	17.71	
			For Elevated Installation >20' To 25', Add	22.14	
			For Elevated Installation >25' To 30', Add	30.99	
			For Elevated Installation >30' To 35', Add	35.42	
			For Elevated Installation >35' To 40', Add	44.28	
			For Elevated Installation >40', Add	48.70	
26 05 33 13-0547	EA		3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	282.94	53.76
			For Work In Restricted Working Space, Add	32.26	
			For Elevated Installation >10' To 15', Add	10.75	
			For Elevated Installation >15' To 20', Add	21.50	
			For Elevated Installation >20' To 25', Add	26.88	
			For Elevated Installation >25' To 30', Add	37.63	
			For Elevated Installation >30' To 35', Add	43.01	
			For Elevated Installation >35' To 40', Add	53.76	
			For Elevated Installation >40', Add	59.14	
26 05 33 13-0548	EA		4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	341.25	63.25
			For Work In Restricted Working Space, Add	37.95	
			For Elevated Installation >10' To 15', Add	12.65	
			For Elevated Installation >15' To 20', Add	25.30	
			For Elevated Installation >20' To 25', Add	31.62	
			For Elevated Installation >25' To 30', Add	44.27	
			For Elevated Installation >30' To 35', Add	50.60	
			For Elevated Installation >35' To 40', Add	63.25	
			For Elevated Installation >40', Add	69.57	

26 05 33 13-0549 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0059)



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0550 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling	37.25	15.82
For Work In Restricted Working Space, Add	9.49	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.91	
For Elevated Installation >25' To 30', Add	11.07	
For Elevated Installation >30' To 35', Add	12.65	
For Elevated Installation >35' To 40', Add	15.81	
For Elevated Installation >40', Add	17.39	
26 05 33 13-0551 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling	46.97	18.97
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.49	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.18	
For Elevated Installation >35' To 40', Add	18.97	
For Elevated Installation >40', Add	20.87	
26 05 33 13-0552 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling	66.34	25.30
For Work In Restricted Working Space, Add	15.18	
For Elevated Installation >10' To 15', Add	5.06	
For Elevated Installation >15' To 20', Add	10.12	
For Elevated Installation >20' To 25', Add	12.65	
For Elevated Installation >25' To 30', Add	17.71	
For Elevated Installation >30' To 35', Add	20.24	
For Elevated Installation >35' To 40', Add	25.30	
For Elevated Installation >40', Add	27.82	
26 05 33 13-0553 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling	86.56	31.62
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
26 05 33 13-0554 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	106.25	37.94
For Work In Restricted Working Space, Add	22.77	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.98	
For Elevated Installation >25' To 30', Add	26.57	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.75	
26 05 33 13-0555 EA 2" Rigid Galvanized Steel (RGS) Compression Coupling	154.93	44.27
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	30.99	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.70	
26 05 33 13-0556 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	241.01	50.59
For Work In Restricted Working Space, Add	30.36	
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.60	
For Elevated Installation >40', Add	55.65	
26 05 33 13-0557 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling	272.53	43.64
For Work In Restricted Working Space, Add	26.18	
For Elevated Installation >10' To 15', Add	8.73	
For Elevated Installation >15' To 20', Add	17.46	
For Elevated Installation >20' To 25', Add	21.82	
For Elevated Installation >25' To 30', Add	30.55	
For Elevated Installation >30' To 35', Add	34.91	
For Elevated Installation >35' To 40', Add	43.64	
For Elevated Installation >40', Add	48.00	
26 05 33 13-0558 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	376.68	66.41
For Work In Restricted Working Space, Add	39.85	
For Elevated Installation >10' To 15', Add	13.28	
For Elevated Installation >15' To 20', Add	26.56	
For Elevated Installation >20' To 25', Add	33.21	
For Elevated Installation >25' To 30', Add	46.49	
For Elevated Installation >30' To 35', Add	53.13	
For Elevated Installation >35' To 40', Add	66.41	
For Elevated Installation >40', Add	73.05	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0559 EA 4" Rigid Galvanized Steel (RGS) Compression Coupling	463.83	75.90
For Work In Restricted Working Space, Add	45.54	
For Elevated Installation >10' To 15', Add	15.18	
For Elevated Installation >15' To 20', Add	30.36	
For Elevated Installation >20' To 25', Add	37.95	
For Elevated Installation >25' To 30', Add	53.13	
For Elevated Installation >30' To 35', Add	60.72	
For Elevated Installation >35' To 40', Add	75.90	
For Elevated Installation >40', Add	83.48	
26 05 33 13-0560 Zinc Plated Steel Snap-in Knock Out Seal (26 05 33 13-0059)		
26 05 33 13-0561 EA 1/2" Zinc Plated Steel Snap-in Knock Out Seal	6.49	3.17
For Work In Restricted Working Space, Add	1.90	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.26	
For Elevated Installation >20' To 25', Add	1.58	
For Elevated Installation >25' To 30', Add	2.21	
For Elevated Installation >30' To 35', Add	2.53	
For Elevated Installation >35' To 40', Add	3.16	
For Elevated Installation >40', Add	3.48	
26 05 33 13-0562 EA 3/4" Zinc Plated Steel Snap-in Knock Out Seal	7.82	3.80
For Work In Restricted Working Space, Add	2.28	
For Elevated Installation >10' To 15', Add	0.76	
For Elevated Installation >15' To 20', Add	1.52	
For Elevated Installation >20' To 25', Add	1.90	
For Elevated Installation >25' To 30', Add	2.66	
For Elevated Installation >30' To 35', Add	3.04	
For Elevated Installation >35' To 40', Add	3.80	
For Elevated Installation >40', Add	4.17	
26 05 33 13-0563 EA 1" Zinc Plated Steel Snap-in Knock Out Seal	9.21	4.43
For Work In Restricted Working Space, Add	2.66	
For Elevated Installation >10' To 15', Add	0.89	
For Elevated Installation >15' To 20', Add	1.77	
For Elevated Installation >20' To 25', Add	2.21	
For Elevated Installation >25' To 30', Add	3.10	
For Elevated Installation >30' To 35', Add	3.54	
For Elevated Installation >35' To 40', Add	4.43	
For Elevated Installation >40', Add	4.87	
26 05 33 13-0564 EA 1-1/4" Zinc Plated Steel Snap-in Knock Out Seal	11.87	5.69
For Work In Restricted Working Space, Add	3.42	
For Elevated Installation >10' To 15', Add	1.14	
For Elevated Installation >15' To 20', Add	2.28	
For Elevated Installation >20' To 25', Add	2.85	
For Elevated Installation >25' To 30', Add	3.99	
For Elevated Installation >30' To 35', Add	4.56	
For Elevated Installation >35' To 40', Add	5.70	
For Elevated Installation >40', Add	6.26	
26 05 33 13-0565 EA 1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	13.31	6.32
For Work In Restricted Working Space, Add	3.80	
For Elevated Installation >10' To 15', Add	1.27	
For Elevated Installation >15' To 20', Add	2.53	
For Elevated Installation >20' To 25', Add	3.16	
For Elevated Installation >25' To 30', Add	4.43	
For Elevated Installation >30' To 35', Add	5.06	
For Elevated Installation >35' To 40', Add	6.33	
For Elevated Installation >40', Add	6.96	
26 05 33 13-0566 EA 2" Zinc Plated Steel Snap-in Knock Out Seal	16.11	7.59
For Work In Restricted Working Space, Add	4.55	
For Elevated Installation >10' To 15', Add	1.52	
For Elevated Installation >15' To 20', Add	3.04	
For Elevated Installation >20' To 25', Add	3.80	
For Elevated Installation >25' To 30', Add	5.31	
For Elevated Installation >30' To 35', Add	6.07	
For Elevated Installation >35' To 40', Add	7.59	
For Elevated Installation >40', Add	8.35	
26 05 33 13-0567 Zinc Plated Steel 3-Piece Knock Out Seal (26 05 33 13-0059)		
26 05 33 13-0568 EA 1/2" Zinc Plated Steel 3-Piece Knock Out Seal	7.36	3.17
For Work In Restricted Working Space, Add	1.90	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.26	
For Elevated Installation >20' To 25', Add	1.58	
For Elevated Installation >25' To 30', Add	2.21	
For Elevated Installation >30' To 35', Add	2.53	
For Elevated Installation >35' To 40', Add	3.16	
For Elevated Installation >40', Add	3.48	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0569	EA		3/4" Zinc Plated Steel 3-Piece Knock Out Seal	8.80	3.80
			For Work In Restricted Working Space, Add	2.28	
			For Elevated Installation >10' To 15', Add	0.76	
			For Elevated Installation >15' To 20', Add	1.52	
			For Elevated Installation >20' To 25', Add	1.90	
			For Elevated Installation >25' To 30', Add	2.66	
			For Elevated Installation >30' To 35', Add	3.04	
			For Elevated Installation >35' To 40', Add	3.80	
			For Elevated Installation >40', Add	4.17	
26 05 33 13-0570	EA		1" Zinc Plated Steel 3-Piece Knock Out Seal	10.52	4.43
			For Work In Restricted Working Space, Add	2.66	
			For Elevated Installation >10' To 15', Add	0.89	
			For Elevated Installation >15' To 20', Add	1.77	
			For Elevated Installation >20' To 25', Add	2.21	
			For Elevated Installation >25' To 30', Add	3.10	
			For Elevated Installation >30' To 35', Add	3.54	
			For Elevated Installation >35' To 40', Add	4.43	
			For Elevated Installation >40', Add	4.87	
26 05 33 13-0571	EA		1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	13.54	5.69
			For Work In Restricted Working Space, Add	3.42	
			For Elevated Installation >10' To 15', Add	1.14	
			For Elevated Installation >15' To 20', Add	2.28	
			For Elevated Installation >20' To 25', Add	2.85	
			For Elevated Installation >25' To 30', Add	3.99	
			For Elevated Installation >30' To 35', Add	4.56	
			For Elevated Installation >35' To 40', Add	5.70	
			For Elevated Installation >40', Add	6.26	
26 05 33 13-0572	EA		1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	16.09	6.32
			For Work In Restricted Working Space, Add	3.80	
			For Elevated Installation >10' To 15', Add	1.27	
			For Elevated Installation >15' To 20', Add	2.53	
			For Elevated Installation >20' To 25', Add	3.16	
			For Elevated Installation >25' To 30', Add	4.43	
			For Elevated Installation >30' To 35', Add	5.06	
			For Elevated Installation >35' To 40', Add	6.33	
			For Elevated Installation >40', Add	6.96	
26 05 33 13-0573	EA		2" Zinc Plated Steel 3-Piece Knock Out Seal	19.41	7.59
			For Work In Restricted Working Space, Add	4.55	
			For Elevated Installation >10' To 15', Add	1.52	
			For Elevated Installation >15' To 20', Add	3.04	
			For Elevated Installation >20' To 25', Add	3.80	
			For Elevated Installation >25' To 30', Add	5.31	
			For Elevated Installation >30' To 35', Add	6.07	
			For Elevated Installation >35' To 40', Add	7.59	
			For Elevated Installation >40', Add	8.35	
26 05 33 13-0574	EA		2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	23.95	9.49
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.79	
			For Elevated Installation >20' To 25', Add	4.74	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.43	
26 05 33 13-0575	EA		3" Zinc Plated Steel 3-Piece Knock Out Seal	27.72	10.75
			For Work In Restricted Working Space, Add	6.45	
			For Elevated Installation >10' To 15', Add	2.15	
			For Elevated Installation >15' To 20', Add	4.30	
			For Elevated Installation >20' To 25', Add	5.38	
			For Elevated Installation >25' To 30', Add	7.53	
			For Elevated Installation >30' To 35', Add	8.60	
			For Elevated Installation >35' To 40', Add	10.76	
			For Elevated Installation >40', Add	11.83	
26 05 33 13-0576	EA		3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	32.78	12.02
			For Work In Restricted Working Space, Add	7.21	
			For Elevated Installation >10' To 15', Add	2.40	
			For Elevated Installation >15' To 20', Add	4.81	
			For Elevated Installation >20' To 25', Add	6.01	
			For Elevated Installation >25' To 30', Add	8.41	
			For Elevated Installation >30' To 35', Add	9.61	
			For Elevated Installation >35' To 40', Add	12.02	
			For Elevated Installation >40', Add	13.22	
26 05 33 13-0577	EA		4" Zinc Plated Steel 3-Piece Knock Out Seal	37.79	13.28
			For Work In Restricted Working Space, Add	7.97	
			For Elevated Installation >10' To 15', Add	2.66	
			For Elevated Installation >15' To 20', Add	5.31	
			For Elevated Installation >20' To 25', Add	6.64	
			For Elevated Installation >25' To 30', Add	9.30	
			For Elevated Installation >30' To 35', Add	10.62	
			For Elevated Installation >35' To 40', Add	13.28	
			For Elevated Installation >40', Add	14.61	

26 05 33 13-0578 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0059)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0579	EA		1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	15.45	7.59
			For Work In Restricted Working Space, Add	4.55	
			For Elevated Installation >10' To 15', Add	1.52	
			For Elevated Installation >15' To 20', Add	3.04	
			For Elevated Installation >20' To 25', Add	3.80	
			For Elevated Installation >25' To 30', Add	5.31	
			For Elevated Installation >30' To 35', Add	6.07	
			For Elevated Installation >35' To 40', Add	7.59	
			For Elevated Installation >40', Add	8.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-0580	EA		3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	18.16	8.85
			For Work In Restricted Working Space, Add	5.31	
			For Elevated Installation >10' To 15', Add	1.77	
			For Elevated Installation >15' To 20', Add	3.54	
			For Elevated Installation >20' To 25', Add	4.43	
			For Elevated Installation >25' To 30', Add	6.20	
			For Elevated Installation >30' To 35', Add	7.08	
			For Elevated Installation >35' To 40', Add	8.86	
			For Elevated Installation >40', Add	9.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-0581	EA		1" Rigid Galvanized Steel (RGS) Chase Nipple.....	22.48	10.75
			For Work In Restricted Working Space, Add	6.45	
			For Elevated Installation >10' To 15', Add	2.15	
			For Elevated Installation >15' To 20', Add	4.30	
			For Elevated Installation >20' To 25', Add	5.38	
			For Elevated Installation >25' To 30', Add	7.53	
			For Elevated Installation >30' To 35', Add	8.60	
			For Elevated Installation >35' To 40', Add	10.76	
			For Elevated Installation >40', Add	11.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.45	
26 05 33 13-0582	EA		1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	26.99	12.65
			For Work In Restricted Working Space, Add	7.59	
			For Elevated Installation >10' To 15', Add	2.53	
			For Elevated Installation >15' To 20', Add	5.06	
			For Elevated Installation >20' To 25', Add	6.33	
			For Elevated Installation >25' To 30', Add	8.86	
			For Elevated Installation >30' To 35', Add	10.12	
			For Elevated Installation >35' To 40', Add	12.65	
			For Elevated Installation >40', Add	13.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0583	EA		1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	33.79	15.82
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-0584	EA		2" Rigid Galvanized Steel (RGS) Chase Nipple.....	41.46	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0585	EA		2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	50.97	22.14
			For Work In Restricted Working Space, Add	13.28	
			For Elevated Installation >10' To 15', Add	4.43	
			For Elevated Installation >15' To 20', Add	8.85	
			For Elevated Installation >20' To 25', Add	11.07	
			For Elevated Installation >25' To 30', Add	15.49	
			For Elevated Installation >30' To 35', Add	17.71	
			For Elevated Installation >35' To 40', Add	22.14	
			For Elevated Installation >40', Add	24.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-0586	EA		3" Rigid Galvanized Steel (RGS) Chase Nipple.....	57.47	25.30
			For Work In Restricted Working Space, Add	15.18	
			For Elevated Installation >10' To 15', Add	5.06	
			For Elevated Installation >15' To 20', Add	10.12	
			For Elevated Installation >20' To 25', Add	12.65	
			For Elevated Installation >25' To 30', Add	17.71	
			For Elevated Installation >30' To 35', Add	20.24	
			For Elevated Installation >35' To 40', Add	25.30	
			For Elevated Installation >40', Add	27.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.18	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0587	EA		3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	69.08	28.46
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.39	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.93	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.47	
			For Elevated Installation >40', Add	31.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-0588	EA		4" Rigid Galvanized Steel (RGS) Chase Nipple.....	88.72	31.62
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0589 Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0059)					
26 05 33 13-0590	EA		1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	27.39	11.39
			For Work In Restricted Working Space, Add	6.83	
			For Elevated Installation >10' To 15', Add	2.28	
			For Elevated Installation >15' To 20', Add	4.55	
			For Elevated Installation >20' To 25', Add	5.69	
			For Elevated Installation >25' To 30', Add	7.97	
			For Elevated Installation >30' To 35', Add	9.11	
			For Elevated Installation >35' To 40', Add	11.39	
			For Elevated Installation >40', Add	12.52	
26 05 33 13-0591	EA		3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	31.87	13.28
			For Work In Restricted Working Space, Add	7.97	
			For Elevated Installation >10' To 15', Add	2.66	
			For Elevated Installation >15' To 20', Add	5.31	
			For Elevated Installation >20' To 25', Add	6.64	
			For Elevated Installation >25' To 30', Add	9.30	
			For Elevated Installation >30' To 35', Add	10.62	
			For Elevated Installation >35' To 40', Add	13.28	
			For Elevated Installation >40', Add	14.61	
26 05 33 13-0592	EA		1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	39.17	15.18
			For Work In Restricted Working Space, Add	9.11	
			For Elevated Installation >10' To 15', Add	3.04	
			For Elevated Installation >15' To 20', Add	6.07	
			For Elevated Installation >20' To 25', Add	7.59	
			For Elevated Installation >25' To 30', Add	10.63	
			For Elevated Installation >30' To 35', Add	12.14	
			For Elevated Installation >35' To 40', Add	15.18	
			For Elevated Installation >40', Add	16.70	
26 05 33 13-0593	EA		1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	49.80	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
26 05 33 13-0594	EA		1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	64.36	22.77
			For Work In Restricted Working Space, Add	13.66	
			For Elevated Installation >10' To 15', Add	4.55	
			For Elevated Installation >15' To 20', Add	9.11	
			For Elevated Installation >20' To 25', Add	11.39	
			For Elevated Installation >25' To 30', Add	15.94	
			For Elevated Installation >30' To 35', Add	18.22	
			For Elevated Installation >35' To 40', Add	22.77	
			For Elevated Installation >40', Add	25.05	
26 05 33 13-0595	EA		2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	82.92	26.56
			For Work In Restricted Working Space, Add	15.94	
			For Elevated Installation >10' To 15', Add	5.31	
			For Elevated Installation >15' To 20', Add	10.63	
			For Elevated Installation >20' To 25', Add	13.28	
			For Elevated Installation >25' To 30', Add	18.60	
			For Elevated Installation >30' To 35', Add	21.25	
			For Elevated Installation >35' To 40', Add	26.57	
			For Elevated Installation >40', Add	29.22	
26 05 33 13-0596	EA		2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	109.90	30.36
			For Work In Restricted Working Space, Add	18.22	
			For Elevated Installation >10' To 15', Add	6.07	
			For Elevated Installation >15' To 20', Add	12.14	
			For Elevated Installation >20' To 25', Add	15.18	
			For Elevated Installation >25' To 30', Add	21.25	
			For Elevated Installation >30' To 35', Add	24.29	
			For Elevated Installation >35' To 40', Add	30.36	
			For Elevated Installation >40', Add	33.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0597	EA		3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	180.09	37.94
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.98	
			For Elevated Installation >25' To 30', Add	26.57	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.75	
26 05 33 13-0598			Electrical Metallic Tubing (EMT) Thinwall Conduit..... Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0599			Electrical Metallic Tubing (EMT) Thinwall Conduit..... Note: Includes field bending conduit up to and including 1".		
26 05 33 13-0600	LF		1/2" Electrical Metallic Tubing (EMT) Conduit.....	6.53	2.28
			For >250 To 500, Deduct	-0.04	
			For >500 To 1,000, Deduct	-0.35	
			For >1,000, Deduct	-0.51	
			For Installation In Metal Stud Wall, Add	0.57	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.42	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.85	
			For Work In Restricted Working Space, Add	1.71	
			For Elevated Installation >10' To 15', Add	0.57	
			For Elevated Installation >15' To 20', Add	1.14	
			For Elevated Installation >20' To 25', Add	1.42	
			For Elevated Installation >25' To 30', Add	1.99	
			For Elevated Installation >30' To 35', Add	2.28	
			For Elevated Installation >35' To 40', Add	2.85	
			For Elevated Installation >40', Add	3.13	
			For Factory Applied Color Coating, Add	0.25	
26 05 33 13-0601	LF		3/4" Electrical Metallic Tubing (EMT) Conduit.....	7.63	2.53
			For >250 To 500, Deduct	-0.07	
			For >500 To 1,000, Deduct	-0.41	
			For >1,000, Deduct	-0.61	
			For Installation In Metal Stud Wall, Add	0.63	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.58	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.95	
			For Work In Restricted Working Space, Add	1.90	
			For Elevated Installation >10' To 15', Add	0.63	
			For Elevated Installation >15' To 20', Add	1.26	
			For Elevated Installation >20' To 25', Add	1.58	
			For Elevated Installation >25' To 30', Add	2.21	
			For Elevated Installation >30' To 35', Add	2.53	
			For Elevated Installation >35' To 40', Add	3.16	
			For Elevated Installation >40', Add	3.48	
			For Factory Applied Color Coating, Add	0.39	
26 05 33 13-0602	LF		1" Electrical Metallic Tubing (EMT) Conduit.....	9.15	2.79
			For >250 To 500, Deduct	-0.11	
			For >500 To 1,000, Deduct	-0.51	
			For >1,000, Deduct	-0.74	
			For Installation In Metal Stud Wall, Add	0.70	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.74	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.04	
			For Work In Restricted Working Space, Add	2.09	
			For Elevated Installation >10' To 15', Add	0.70	
			For Elevated Installation >15' To 20', Add	1.39	
			For Elevated Installation >20' To 25', Add	1.74	
			For Elevated Installation >25' To 30', Add	2.44	
			For Elevated Installation >30' To 35', Add	2.78	
			For Elevated Installation >35' To 40', Add	3.48	
			For Elevated Installation >40', Add	3.83	
			For Factory Applied Color Coating, Add	0.66	
26 05 33 13-0603	LF		1-1/4" Electrical Metallic Tubing (EMT) Conduit.....	11.30	3.14
			For >250 To 500, Deduct	-0.17	
			For >500 To 1,000, Deduct	-0.65	
			For >1,000, Deduct	-0.93	
			For Installation In Metal Stud Wall, Add	0.79	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.96	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.18	
			For Work In Restricted Working Space, Add	2.36	
			For Elevated Installation >10' To 15', Add	0.79	
			For Elevated Installation >15' To 20', Add	1.57	
			For Elevated Installation >20' To 25', Add	1.96	
			For Elevated Installation >25' To 30', Add	2.75	
			For Elevated Installation >30' To 35', Add	3.14	
			For Elevated Installation >35' To 40', Add	3.93	
			For Elevated Installation >40', Add	4.32	
			For Factory Applied Color Coating, Add	1.04	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0604	LF	1-1/2"	Electrical Metallic Tubing (EMT) Conduit	13.14	3.54
			For >250 To 500, Deduct	-0.21	
			For >500 To 1,000, Deduct	-0.76	
			For >1,000, Deduct	-1.09	
			For Installation In Metal Stud Wall, Add	0.89	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.21	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.33	
			For Work In Restricted Working Space, Add	2.66	
			For Elevated Installation >10' To 15', Add	0.89	
			For Elevated Installation >15' To 20', Add	1.77	
			For Elevated Installation >20' To 25', Add	2.21	
			For Elevated Installation >25' To 30', Add	3.10	
			For Elevated Installation >30' To 35', Add	3.54	
			For Elevated Installation >35' To 40', Add	4.43	
			For Elevated Installation >40', Add	4.87	
			For Factory Applied Color Coating, Add	1.29	
26 05 33 13-0605	LF	2"	Electrical Metallic Tubing (EMT) Conduit.....	15.21	4.05
			For >250 To 500, Deduct	-0.25	
			For >500 To 1,000, Deduct	-0.89	
			For >1,000, Deduct	-1.27	
			For Installation In Metal Stud Wall, Add	1.01	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.53	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.52	
			For Work In Restricted Working Space, Add	3.04	
			For Elevated Installation >10' To 15', Add	1.01	
			For Elevated Installation >15' To 20', Add	2.02	
			For Elevated Installation >20' To 25', Add	2.53	
			For Elevated Installation >25' To 30', Add	3.54	
			For Elevated Installation >30' To 35', Add	4.05	
			For Elevated Installation >35' To 40', Add	5.06	
			For Elevated Installation >40', Add	5.57	
			For Factory Applied Color Coating, Add	1.53	
26 05 33 13-0606	LF	2-1/2"	Electrical Metallic Tubing (EMT) Conduit	19.56	4.81
			For >250 To 500, Deduct	-0.38	
			For >500 To 1,000, Deduct	-1.17	
			For >1,000, Deduct	-1.66	
			For Installation In Metal Stud Wall, Add	1.20	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.01	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.80	
			For Work In Restricted Working Space, Add	3.61	
			For Elevated Installation >10' To 15', Add	1.20	
			For Elevated Installation >15' To 20', Add	2.40	
			For Elevated Installation >20' To 25', Add	3.01	
			For Elevated Installation >25' To 30', Add	4.21	
			For Elevated Installation >30' To 35', Add	4.81	
			For Elevated Installation >35' To 40', Add	6.01	
			For Elevated Installation >40', Add	6.61	
			For Factory Applied Color Coating, Add	2.26	
26 05 33 13-0607	LF	3"	Electrical Metallic Tubing (EMT) Conduit.....	23.35	5.56
			For >250 To 500, Deduct	-0.47	
			For >500 To 1,000, Deduct	-1.40	
			For >1,000, Deduct	-1.99	
			For Installation In Metal Stud Wall, Add	1.39	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.48	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.09	
			For Work In Restricted Working Space, Add	4.17	
			For Elevated Installation >10' To 15', Add	1.39	
			For Elevated Installation >15' To 20', Add	2.78	
			For Elevated Installation >20' To 25', Add	3.48	
			For Elevated Installation >25' To 30', Add	4.87	
			For Elevated Installation >30' To 35', Add	5.56	
			For Elevated Installation >35' To 40', Add	6.96	
			For Elevated Installation >40', Add	7.65	
			For Factory Applied Color Coating, Add	2.83	
26 05 33 13-0608	LF	3-1/2"	Electrical Metallic Tubing (EMT) Conduit	29.07	6.57
			For >250 To 500, Deduct	-0.63	
			For >500 To 1,000, Deduct	-1.77	
			For >1,000, Deduct	-2.50	
			For Installation In Metal Stud Wall, Add	1.65	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.11	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.47	
			For Work In Restricted Working Space, Add	4.94	
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Factory Applied Color Coating, Add	3.79	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0609 LF 4" Electrical Metallic Tubing (EMT) Conduit.....	38.43	9.69
For >250 To 500, Deduct	-0.71	
For >500 To 1,000, Deduct	-2.28	
For >1,000, Deduct	-3.24	
For Installation In Metal Stud Wall, Add	2.42	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.05	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.63	
For Work In Restricted Working Space, Add	7.26	
For Elevated Installation >10' To 15', Add	2.42	
For Elevated Installation >15' To 20', Add	4.84	
For Elevated Installation >20' To 25', Add	6.05	
For Elevated Installation >25' To 30', Add	8.47	
For Elevated Installation >30' To 35', Add	9.68	
For Elevated Installation >35' To 40', Add	12.11	
For Elevated Installation >40', Add	13.32	
For Factory Applied Color Coating, Add	4.27	
 26 05 33 13-0610 Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0598)		
See CSI section 26 05 33 13-2224 for conduit field bending.		
 26 05 33 13-0611 Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0598)		
26 05 33 13-0612 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.57	3.04
For Work In Restricted Working Space, Add	1.90	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.26	
For Elevated Installation >20' To 25', Add	1.58	
For Elevated Installation >25' To 30', Add	2.21	
For Elevated Installation >30' To 35', Add	2.53	
For Elevated Installation >35' To 40', Add	3.16	
For Elevated Installation >40', Add	3.48	
26 05 33 13-0613 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.96	3.04
For Work In Restricted Working Space, Add	2.28	
For Elevated Installation >10' To 15', Add	0.76	
For Elevated Installation >15' To 20', Add	1.52	
For Elevated Installation >20' To 25', Add	1.90	
For Elevated Installation >25' To 30', Add	2.66	
For Elevated Installation >30' To 35', Add	3.04	
For Elevated Installation >35' To 40', Add	3.80	
For Elevated Installation >40', Add	4.17	
26 05 33 13-0614 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	9.41	3.54
For Work In Restricted Working Space, Add	2.66	
For Elevated Installation >10' To 15', Add	0.89	
For Elevated Installation >15' To 20', Add	1.77	
For Elevated Installation >20' To 25', Add	2.21	
For Elevated Installation >25' To 30', Add	3.10	
For Elevated Installation >30' To 35', Add	3.54	
For Elevated Installation >35' To 40', Add	4.43	
For Elevated Installation >40', Add	4.87	
26 05 33 13-0615 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	12.61	4.55
For Work In Restricted Working Space, Add	3.42	
For Elevated Installation >10' To 15', Add	1.14	
For Elevated Installation >15' To 20', Add	2.28	
For Elevated Installation >20' To 25', Add	2.85	
For Elevated Installation >25' To 30', Add	3.99	
For Elevated Installation >30' To 35', Add	4.56	
For Elevated Installation >35' To 40', Add	5.70	
For Elevated Installation >40', Add	6.26	
26 05 33 13-0616 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	15.54	5.56
For Work In Restricted Working Space, Add	4.18	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.78	
For Elevated Installation >20' To 25', Add	3.48	
For Elevated Installation >25' To 30', Add	4.87	
For Elevated Installation >30' To 35', Add	5.57	
For Elevated Installation >35' To 40', Add	6.96	
For Elevated Installation >40', Add	7.66	
26 05 33 13-0617 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	21.12	7.59
For Work In Restricted Working Space, Add	5.69	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.79	
For Elevated Installation >20' To 25', Add	4.74	
For Elevated Installation >25' To 30', Add	6.64	
For Elevated Installation >30' To 35', Add	7.59	
For Elevated Installation >35' To 40', Add	9.49	
For Elevated Installation >40', Add	10.43	
26 05 33 13-0618 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	29.07	10.12
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0619	EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	37.48		11.64
	For Work In Restricted Working Space, Add	9.49		
	For Elevated Installation >10' To 15', Add	3.16		
	For Elevated Installation >15' To 20', Add	6.32		
	For Elevated Installation >20' To 25', Add	7.91		
	For Elevated Installation >25' To 30', Add	11.07		
	For Elevated Installation >30' To 35', Add	12.65		
	For Elevated Installation >35' To 40', Add	15.81		
	For Elevated Installation >40', Add	17.39		
26 05 33 13-0620	EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	42.58		12.65
	For Work In Restricted Working Space, Add	11.38		
	For Elevated Installation >10' To 15', Add	3.79		
	For Elevated Installation >15' To 20', Add	7.59		
	For Elevated Installation >20' To 25', Add	9.49		
	For Elevated Installation >25' To 30', Add	13.28		
	For Elevated Installation >30' To 35', Add	15.18		
	For Elevated Installation >35' To 40', Add	18.97		
	For Elevated Installation >40', Add	20.87		
26 05 33 13-0621	EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	121.91		35.10
	For Work In Restricted Working Space, Add	34.09		
	For Elevated Installation >10' To 15', Add	11.36		
	For Elevated Installation >15' To 20', Add	22.73		
	For Elevated Installation >20' To 25', Add	28.41		
	For Elevated Installation >25' To 30', Add	39.77		
	For Elevated Installation >30' To 35', Add	45.46		
	For Elevated Installation >35' To 40', Add	56.82		
	For Elevated Installation >40', Add	62.50		
26 05 33 13-0622 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0598)				
26 05 33 13-0623	EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling	8.21		3.04
	For Work In Restricted Working Space, Add	2.28		
	For Elevated Installation >10' To 15', Add	0.76		
	For Elevated Installation >15' To 20', Add	1.52		
	For Elevated Installation >20' To 25', Add	1.90		
	For Elevated Installation >25' To 30', Add	2.66		
	For Elevated Installation >30' To 35', Add	3.04		
	For Elevated Installation >35' To 40', Add	3.80		
	For Elevated Installation >40', Add	4.17		
26 05 33 13-0624	EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	9.53		3.54
	For Work In Restricted Working Space, Add	2.66		
	For Elevated Installation >10' To 15', Add	0.89		
	For Elevated Installation >15' To 20', Add	1.77		
	For Elevated Installation >20' To 25', Add	2.21		
	For Elevated Installation >25' To 30', Add	3.10		
	For Elevated Installation >30' To 35', Add	3.54		
	For Elevated Installation >35' To 40', Add	4.43		
	For Elevated Installation >40', Add	4.87		
26 05 33 13-0625	EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	13.60		5.06
	For Work In Restricted Working Space, Add	3.80		
	For Elevated Installation >10' To 15', Add	1.27		
	For Elevated Installation >15' To 20', Add	2.53		
	For Elevated Installation >20' To 25', Add	3.16		
	For Elevated Installation >25' To 30', Add	4.43		
	For Elevated Installation >30' To 35', Add	5.06		
	For Elevated Installation >35' To 40', Add	6.33		
	For Elevated Installation >40', Add	6.96		
26 05 33 13-0626	EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	17.16		6.07
	For Work In Restricted Working Space, Add	4.55		
	For Elevated Installation >10' To 15', Add	1.52		
	For Elevated Installation >15' To 20', Add	3.04		
	For Elevated Installation >20' To 25', Add	3.80		
	For Elevated Installation >25' To 30', Add	5.31		
	For Elevated Installation >30' To 35', Add	6.07		
	For Elevated Installation >35' To 40', Add	7.59		
	For Elevated Installation >40', Add	8.35		
26 05 33 13-0627	EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	20.50		7.09
	For Work In Restricted Working Space, Add	5.31		
	For Elevated Installation >10' To 15', Add	1.77		
	For Elevated Installation >15' To 20', Add	3.54		
	For Elevated Installation >20' To 25', Add	4.43		
	For Elevated Installation >25' To 30', Add	6.20		
	For Elevated Installation >30' To 35', Add	7.08		
	For Elevated Installation >35' To 40', Add	8.86		
	For Elevated Installation >40', Add	9.74		
26 05 33 13-0628	EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	27.15		9.11
	For Work In Restricted Working Space, Add	6.83		
	For Elevated Installation >10' To 15', Add	2.28		
	For Elevated Installation >15' To 20', Add	4.55		
	For Elevated Installation >20' To 25', Add	5.69		
	For Elevated Installation >25' To 30', Add	7.97		
	For Elevated Installation >30' To 35', Add	9.11		
	For Elevated Installation >35' To 40', Add	11.39		
	For Elevated Installation >40', Add	12.52		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0629 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	41.81	12.15
For Work In Restricted Working Space, Add	9.11	
For Elevated Installation >10' To 15', Add	3.04	
For Elevated Installation >15' To 20', Add	6.07	
For Elevated Installation >20' To 25', Add	7.59	
For Elevated Installation >25' To 30', Add	10.63	
For Elevated Installation >30' To 35', Add	12.14	
For Elevated Installation >35' To 40', Add	15.18	
For Elevated Installation >40', Add	16.70	
26 05 33 13-0630 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling.....	48.43	14.17
For Work In Restricted Working Space, Add	10.63	
For Elevated Installation >10' To 15', Add	3.54	
For Elevated Installation >15' To 20', Add	7.08	
For Elevated Installation >20' To 25', Add	8.86	
For Elevated Installation >25' To 30', Add	12.40	
For Elevated Installation >30' To 35', Add	14.17	
For Elevated Installation >35' To 40', Add	17.71	
For Elevated Installation >40', Add	19.48	
26 05 33 13-0631 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	60.55	17.71
For Work In Restricted Working Space, Add	13.28	
For Elevated Installation >10' To 15', Add	4.43	
For Elevated Installation >15' To 20', Add	8.85	
For Elevated Installation >20' To 25', Add	11.07	
For Elevated Installation >25' To 30', Add	15.49	
For Elevated Installation >30' To 35', Add	17.71	
For Elevated Installation >35' To 40', Add	22.14	
For Elevated Installation >40', Add	24.35	
26 05 33 13-0632 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....	77.69	22.77
For Work In Restricted Working Space, Add	17.08	
For Elevated Installation >10' To 15', Add	5.69	
For Elevated Installation >15' To 20', Add	11.39	
For Elevated Installation >20' To 25', Add	14.23	
For Elevated Installation >25' To 30', Add	19.93	
For Elevated Installation >30' To 35', Add	22.77	
For Elevated Installation >35' To 40', Add	28.47	
For Elevated Installation >40', Add	31.31	
26 05 33 13-0633 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw⁽²⁶⁾		
05 33 13-0598		
26 05 33 13-0634 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.52	2.53
For Work In Restricted Working Space, Add	1.90	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.26	
For Elevated Installation >20' To 25', Add	1.58	
For Elevated Installation >25' To 30', Add	2.21	
For Elevated Installation >30' To 35', Add	2.53	
For Elevated Installation >35' To 40', Add	3.16	
For Elevated Installation >40', Add	3.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.90	
26 05 33 13-0635 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.91	3.04
For Work In Restricted Working Space, Add	2.28	
For Elevated Installation >10' To 15', Add	0.76	
For Elevated Installation >15' To 20', Add	1.52	
For Elevated Installation >20' To 25', Add	1.90	
For Elevated Installation >25' To 30', Add	2.66	
For Elevated Installation >30' To 35', Add	3.04	
For Elevated Installation >35' To 40', Add	3.80	
For Elevated Installation >40', Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28	
26 05 33 13-0636 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	9.41	3.54
For Work In Restricted Working Space, Add	2.66	
For Elevated Installation >10' To 15', Add	0.89	
For Elevated Installation >15' To 20', Add	1.77	
For Elevated Installation >20' To 25', Add	2.21	
For Elevated Installation >25' To 30', Add	3.10	
For Elevated Installation >30' To 35', Add	3.54	
For Elevated Installation >35' To 40', Add	4.43	
For Elevated Installation >40', Add	4.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.66	
26 05 33 13-0637 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	13.68	5.06
For Work In Restricted Working Space, Add	3.80	
For Elevated Installation >10' To 15', Add	1.27	
For Elevated Installation >15' To 20', Add	2.53	
For Elevated Installation >20' To 25', Add	3.16	
For Elevated Installation >25' To 30', Add	4.43	
For Elevated Installation >30' To 35', Add	5.06	
For Elevated Installation >35' To 40', Add	6.33	
For Elevated Installation >40', Add	6.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0638	EA	1-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.68 4.55 1.52 3.04 3.80 5.31 6.07 7.59 8.35 4.55	6.07
26 05 33 13-0639	EA	2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.19 5.69 1.90 3.79 4.74 6.64 7.59 9.49 10.43 5.69	7.59
26 05 33 13-0640	EA	2-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.49 7.59 2.53 5.06 6.33 8.86 10.12 12.65 13.92 7.59	10.12
26 05 33 13-0641	EA	3"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.18 9.49 3.16 6.32 7.91 11.07 12.65 15.81 17.39 9.49	12.65
26 05 33 13-0642	EA	3-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.44 11.38 3.79 7.59 9.49 13.28 15.18 18.97 20.87 11.38	15.18
26 05 33 13-0643	EA	4"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.11 13.28 4.43 8.85 11.07 15.49 17.71 22.14 24.35 13.28	17.71
26 05 33 13-0644 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw (26 05 33 13-0598)					
26 05 33 13-0645	EA	1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.81 2.54 0.85 1.70 2.12 2.97 3.39 4.24 4.66 2.54	3.42
26 05 33 13-0646	EA	3/4"	Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.76 2.77 0.92 1.85 2.31 3.23 3.69 4.62 5.08 2.77	3.67

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0647 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	12.19	4.55
For Work In Restricted Working Space, Add	3.38	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.94	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.63	
For Elevated Installation >40', Add	6.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.38	
26 05 33 13-0648 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	15.98	5.82
For Work In Restricted Working Space, Add	4.33	
For Elevated Installation >10' To 15', Add	1.44	
For Elevated Installation >15' To 20', Add	2.88	
For Elevated Installation >20' To 25', Add	3.61	
For Elevated Installation >25' To 30', Add	5.05	
For Elevated Installation >30' To 35', Add	5.77	
For Elevated Installation >35' To 40', Add	7.21	
For Elevated Installation >40', Add	7.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.33	
26 05 33 13-0649 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	18.91	6.70
For Work In Restricted Working Space, Add	5.05	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.21	
For Elevated Installation >25' To 30', Add	5.89	
For Elevated Installation >30' To 35', Add	6.73	
For Elevated Installation >35' To 40', Add	8.42	
For Elevated Installation >40', Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.05	
26 05 33 13-0650 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	23.09	8.10
For Work In Restricted Working Space, Add	6.07	
For Elevated Installation >10' To 15', Add	2.02	
For Elevated Installation >15' To 20', Add	4.05	
For Elevated Installation >20' To 25', Add	5.06	
For Elevated Installation >25' To 30', Add	7.08	
For Elevated Installation >30' To 35', Add	8.09	
For Elevated Installation >35' To 40', Add	10.12	
For Elevated Installation >40', Add	11.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 05 33 13-0651 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	37.45	11.25
For Work In Restricted Working Space, Add	8.42	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.02	
For Elevated Installation >25' To 30', Add	9.83	
For Elevated Installation >30' To 35', Add	11.23	
For Elevated Installation >35' To 40', Add	14.04	
For Elevated Installation >40', Add	15.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.42	
26 05 33 13-0652 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	48.64	14.92
For Work In Restricted Working Space, Add	11.23	
For Elevated Installation >10' To 15', Add	3.74	
For Elevated Installation >15' To 20', Add	7.49	
For Elevated Installation >20' To 25', Add	9.36	
For Elevated Installation >25' To 30', Add	13.10	
For Elevated Installation >30' To 35', Add	14.98	
For Elevated Installation >35' To 40', Add	18.72	
For Elevated Installation >40', Add	20.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.23	
26 05 33 13-0653 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	62.20	19.22
For Work In Restricted Working Space, Add	14.46	
For Elevated Installation >10' To 15', Add	4.82	
For Elevated Installation >15' To 20', Add	9.64	
For Elevated Installation >20' To 25', Add	12.05	
For Elevated Installation >25' To 30', Add	16.87	
For Elevated Installation >30' To 35', Add	19.28	
For Elevated Installation >35' To 40', Add	24.10	
For Elevated Installation >40', Add	26.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.46	
26 05 33 13-0654 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	78.66	25.30
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	

26 05 33 13-0655 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors (26 05 33 13-0598)



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0656	EA	1/2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	7.91	3.04
			For Work In Restricted Working Space, Add	2.28	
			For Elevated Installation >10' To 15', Add	0.76	
			For Elevated Installation >15' To 20', Add	1.52	
			For Elevated Installation >20' To 25', Add	1.90	
			For Elevated Installation >25' To 30', Add	2.66	
			For Elevated Installation >30' To 35', Add	3.04	
			For Elevated Installation >35' To 40', Add	3.80	
			For Elevated Installation >40', Add	4.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28	
26 05 33 13-0657	EA	3/4"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	9.34	3.54
			For Work In Restricted Working Space, Add	2.66	
			For Elevated Installation >10' To 15', Add	0.89	
			For Elevated Installation >15' To 20', Add	1.77	
			For Elevated Installation >20' To 25', Add	2.21	
			For Elevated Installation >25' To 30', Add	3.10	
			For Elevated Installation >30' To 35', Add	3.54	
			For Elevated Installation >35' To 40', Add	4.43	
			For Elevated Installation >40', Add	4.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.66	
26 05 33 13-0658	EA	1"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	13.34	5.06
			For Work In Restricted Working Space, Add	3.80	
			For Elevated Installation >10' To 15', Add	1.27	
			For Elevated Installation >15' To 20', Add	2.53	
			For Elevated Installation >20' To 25', Add	3.16	
			For Elevated Installation >25' To 30', Add	4.43	
			For Elevated Installation >30' To 35', Add	5.06	
			For Elevated Installation >35' To 40', Add	6.33	
			For Elevated Installation >40', Add	6.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	
26 05 33 13-0659	EA	1-1/4"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	16.48	6.07
			For Work In Restricted Working Space, Add	4.55	
			For Elevated Installation >10' To 15', Add	1.52	
			For Elevated Installation >15' To 20', Add	3.04	
			For Elevated Installation >20' To 25', Add	3.80	
			For Elevated Installation >25' To 30', Add	5.31	
			For Elevated Installation >30' To 35', Add	6.07	
			For Elevated Installation >35' To 40', Add	7.59	
			For Elevated Installation >40', Add	8.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-0660	EA	1-1/2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	19.54	7.09
			For Work In Restricted Working Space, Add	5.31	
			For Elevated Installation >10' To 15', Add	1.77	
			For Elevated Installation >15' To 20', Add	3.54	
			For Elevated Installation >20' To 25', Add	4.43	
			For Elevated Installation >25' To 30', Add	6.20	
			For Elevated Installation >30' To 35', Add	7.08	
			For Elevated Installation >35' To 40', Add	8.86	
			For Elevated Installation >40', Add	9.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-0661	EA	2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	25.43	9.11
			For Work In Restricted Working Space, Add	6.83	
			For Elevated Installation >10' To 15', Add	2.28	
			For Elevated Installation >15' To 20', Add	4.55	
			For Elevated Installation >20' To 25', Add	5.69	
			For Elevated Installation >25' To 30', Add	7.97	
			For Elevated Installation >30' To 35', Add	9.11	
			For Elevated Installation >35' To 40', Add	11.39	
			For Elevated Installation >40', Add	12.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0662	EA	2-1/2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	38.37	12.15
			For Work In Restricted Working Space, Add	9.11	
			For Elevated Installation >10' To 15', Add	3.04	
			For Elevated Installation >15' To 20', Add	6.07	
			For Elevated Installation >20' To 25', Add	7.59	
			For Elevated Installation >25' To 30', Add	10.63	
			For Elevated Installation >30' To 35', Add	12.14	
			For Elevated Installation >35' To 40', Add	15.18	
			For Elevated Installation >40', Add	16.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.11	
26 05 33 13-0663	EA	3"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	48.41	15.18
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0664 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	60.41	17.71
For Work In Restricted Working Space, Add	13.28	
For Elevated Installation >10' To 15', Add	4.43	
For Elevated Installation >15' To 20', Add	8.85	
For Elevated Installation >20' To 25', Add	11.07	
For Elevated Installation >25' To 30', Add	15.49	
For Elevated Installation >30' To 35', Add	17.71	
For Elevated Installation >35' To 40', Add	22.14	
For Elevated Installation >40', Add	24.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-0665 EA 4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	68.09	20.23
For Work In Restricted Working Space, Add	15.18	
For Elevated Installation >10' To 15', Add	5.06	
For Elevated Installation >15' To 20', Add	10.12	
For Elevated Installation >20' To 25', Add	12.65	
For Elevated Installation >25' To 30', Add	17.71	
For Elevated Installation >30' To 35', Add	20.24	
For Elevated Installation >35' To 40', Add	25.30	
For Elevated Installation >40', Add	27.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.18	
26 05 33 13-0666 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors (26 05 33 13-0698)		
26 05 33 13-0667 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	9.03	3.42
For Work In Restricted Working Space, Add	2.54	
For Elevated Installation >10' To 15', Add	0.85	
For Elevated Installation >15' To 20', Add	1.70	
For Elevated Installation >20' To 25', Add	2.12	
For Elevated Installation >25' To 30', Add	2.97	
For Elevated Installation >30' To 35', Add	3.39	
For Elevated Installation >35' To 40', Add	4.24	
For Elevated Installation >40', Add	4.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.54	
26 05 33 13-0668 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	9.99	3.67
For Work In Restricted Working Space, Add	2.77	
For Elevated Installation >10' To 15', Add	0.92	
For Elevated Installation >15' To 20', Add	1.85	
For Elevated Installation >20' To 25', Add	2.31	
For Elevated Installation >25' To 30', Add	3.23	
For Elevated Installation >30' To 35', Add	3.69	
For Elevated Installation >35' To 40', Add	4.62	
For Elevated Installation >40', Add	5.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.77	
26 05 33 13-0669 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	12.38	4.55
For Work In Restricted Working Space, Add	3.38	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.94	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.63	
For Elevated Installation >40', Add	6.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.38	
26 05 33 13-0670 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	16.54	5.82
For Work In Restricted Working Space, Add	4.33	
For Elevated Installation >10' To 15', Add	1.44	
For Elevated Installation >15' To 20', Add	2.88	
For Elevated Installation >20' To 25', Add	3.61	
For Elevated Installation >25' To 30', Add	5.05	
For Elevated Installation >30' To 35', Add	5.77	
For Elevated Installation >35' To 40', Add	7.21	
For Elevated Installation >40', Add	7.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.33	
26 05 33 13-0671 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	19.83	6.70
For Work In Restricted Working Space, Add	5.05	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.21	
For Elevated Installation >25' To 30', Add	5.89	
For Elevated Installation >30' To 35', Add	6.73	
For Elevated Installation >35' To 40', Add	8.42	
For Elevated Installation >40', Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.05	
26 05 33 13-0672 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	24.41	8.10
For Work In Restricted Working Space, Add	6.07	
For Elevated Installation >10' To 15', Add	2.02	
For Elevated Installation >15' To 20', Add	4.05	
For Elevated Installation >20' To 25', Add	5.06	
For Elevated Installation >25' To 30', Add	7.08	
For Elevated Installation >30' To 35', Add	8.09	
For Elevated Installation >35' To 40', Add	10.12	
For Elevated Installation >40', Add	11.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0673	EA		2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	42.27	11.25
			For Work In Restricted Working Space, Add	8.42	
			For Elevated Installation >10' To 15', Add	2.81	
			For Elevated Installation >15' To 20', Add	5.62	
			For Elevated Installation >20' To 25', Add	7.02	
			For Elevated Installation >25' To 30', Add	9.83	
			For Elevated Installation >30' To 35', Add	11.23	
			For Elevated Installation >35' To 40', Add	14.04	
			For Elevated Installation >40', Add	15.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.42	
26 05 33 13-0674	EA		3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	56.75	14.92
			For Work In Restricted Working Space, Add	11.23	
			For Elevated Installation >10' To 15', Add	3.74	
			For Elevated Installation >15' To 20', Add	7.49	
			For Elevated Installation >20' To 25', Add	9.36	
			For Elevated Installation >25' To 30', Add	13.10	
			For Elevated Installation >30' To 35', Add	14.98	
			For Elevated Installation >35' To 40', Add	18.72	
			For Elevated Installation >40', Add	20.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.23	
26 05 33 13-0675	EA		3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	76.42	19.22
			For Work In Restricted Working Space, Add	14.46	
			For Elevated Installation >10' To 15', Add	4.82	
			For Elevated Installation >15' To 20', Add	9.64	
			For Elevated Installation >20' To 25', Add	12.05	
			For Elevated Installation >25' To 30', Add	16.87	
			For Elevated Installation >30' To 35', Add	19.28	
			For Elevated Installation >35' To 40', Add	24.10	
			For Elevated Installation >40', Add	26.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.46	
26 05 33 13-0676	EA		4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	96.26	25.30
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0677			Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0598)		
			Note: Excludes jumper.		
26 05 33 13-0678	EA		1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	64.49	16.83
			For Work In Restricted Working Space, Add	12.63	
			For Elevated Installation >10' To 15', Add	4.21	
			For Elevated Installation >15' To 20', Add	8.42	
			For Elevated Installation >20' To 25', Add	10.53	
			For Elevated Installation >25' To 30', Add	14.74	
			For Elevated Installation >30' To 35', Add	16.84	
			For Elevated Installation >35' To 40', Add	21.05	
			For Elevated Installation >40', Add	23.16	
26 05 33 13-0679	EA		3/4" Electrical Metallic Tubing (EMT) Expansion Coupling	77.74	20.37
			For Work In Restricted Working Space, Add	15.31	
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.21	
			For Elevated Installation >20' To 25', Add	12.76	
			For Elevated Installation >25' To 30', Add	17.86	
			For Elevated Installation >30' To 35', Add	20.41	
			For Elevated Installation >35' To 40', Add	25.52	
			For Elevated Installation >40', Add	28.07	
26 05 33 13-0680	EA		1" Electrical Metallic Tubing (EMT) Expansion Coupling	95.68	25.55
			For Work In Restricted Working Space, Add	19.14	
			For Elevated Installation >10' To 15', Add	6.38	
			For Elevated Installation >15' To 20', Add	12.76	
			For Elevated Installation >20' To 25', Add	15.95	
			For Elevated Installation >25' To 30', Add	22.33	
			For Elevated Installation >30' To 35', Add	25.52	
			For Elevated Installation >35' To 40', Add	31.90	
			For Elevated Installation >40', Add	35.08	
26 05 33 13-0681	EA		1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	123.14	31.37
			For Work In Restricted Working Space, Add	23.54	
			For Elevated Installation >10' To 15', Add	7.85	
			For Elevated Installation >15' To 20', Add	15.69	
			For Elevated Installation >20' To 25', Add	19.62	
			For Elevated Installation >25' To 30', Add	27.46	
			For Elevated Installation >30' To 35', Add	31.39	
			For Elevated Installation >35' To 40', Add	39.24	
			For Elevated Installation >40', Add	43.16	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0682 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	152.22	36.81
For Work In Restricted Working Space, Add	27.61	
For Elevated Installation >10' To 15', Add	9.20	
For Elevated Installation >15' To 20', Add	18.40	
For Elevated Installation >20' To 25', Add	23.01	
For Elevated Installation >25' To 30', Add	32.21	
For Elevated Installation >30' To 35', Add	36.81	
For Elevated Installation >35' To 40', Add	46.01	
For Elevated Installation >40', Add	50.61	
26 05 33 13-0683 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling	190.34	44.78
For Work In Restricted Working Space, Add	33.62	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.41	
For Elevated Installation >20' To 25', Add	28.02	
For Elevated Installation >25' To 30', Add	39.22	
For Elevated Installation >30' To 35', Add	44.82	
For Elevated Installation >35' To 40', Add	56.03	
For Elevated Installation >40', Add	61.63	
26 05 33 13-0684 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	353.46	57.56
For Work In Restricted Working Space, Add	43.18	
For Elevated Installation >10' To 15', Add	14.39	
For Elevated Installation >15' To 20', Add	28.78	
For Elevated Installation >20' To 25', Add	35.98	
For Elevated Installation >25' To 30', Add	50.37	
For Elevated Installation >30' To 35', Add	57.57	
For Elevated Installation >35' To 40', Add	71.96	
For Elevated Installation >40', Add	79.16	
26 05 33 13-0685 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling	431.21	67.29
For Work In Restricted Working Space, Add	50.48	
For Elevated Installation >10' To 15', Add	16.83	
For Elevated Installation >15' To 20', Add	33.66	
For Elevated Installation >20' To 25', Add	42.07	
For Elevated Installation >25' To 30', Add	58.90	
For Elevated Installation >30' To 35', Add	67.31	
For Elevated Installation >35' To 40', Add	84.14	
For Elevated Installation >40', Add	92.55	
26 05 33 13-0686 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	526.33	73.36
For Work In Restricted Working Space, Add	55.04	
For Elevated Installation >10' To 15', Add	18.35	
For Elevated Installation >15' To 20', Add	36.69	
For Elevated Installation >20' To 25', Add	45.87	
For Elevated Installation >25' To 30', Add	64.21	
For Elevated Installation >30' To 35', Add	73.39	
For Elevated Installation >35' To 40', Add	91.74	
For Elevated Installation >40', Add	100.91	
26 05 33 13-0687 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling	570.22	80.96
For Work In Restricted Working Space, Add	60.74	
For Elevated Installation >10' To 15', Add	20.25	
For Elevated Installation >15' To 20', Add	40.49	
For Elevated Installation >20' To 25', Add	50.61	
For Elevated Installation >25' To 30', Add	70.86	
For Elevated Installation >30' To 35', Add	80.98	
For Elevated Installation >35' To 40', Add	101.23	
For Elevated Installation >40', Add	111.35	
26 05 33 13-0688 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters		
(26 05 33 13-0598)		
26 05 33 13-0689 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	12.58	4.55
For Work In Restricted Working Space, Add	3.37	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.93	
For Elevated Installation >30' To 35', Add	4.49	
For Elevated Installation >35' To 40', Add	5.62	
For Elevated Installation >40', Add	6.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.37	
26 05 33 13-0690 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	13.31	4.55
For Work In Restricted Working Space, Add	3.37	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.93	
For Elevated Installation >30' To 35', Add	4.49	
For Elevated Installation >35' To 40', Add	5.62	
For Elevated Installation >40', Add	6.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.37	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0691	EA	3/4"	Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	14.87	4.93
			For Work In Restricted Working Space, Add	3.74	
			For Elevated Installation >10' To 15', Add	1.25	
			For Elevated Installation >15' To 20', Add	2.50	
			For Elevated Installation >20' To 25', Add	3.12	
			For Elevated Installation >25' To 30', Add	4.37	
			For Elevated Installation >30' To 35', Add	4.99	
			For Elevated Installation >35' To 40', Add	6.24	
			For Elevated Installation >40', Add	6.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 33 13-0692	EA	1"	Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	17.27	5.69
			For Work In Restricted Working Space, Add	4.26	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.84	
			For Elevated Installation >20' To 25', Add	3.55	
			For Elevated Installation >25' To 30', Add	4.97	
			For Elevated Installation >30' To 35', Add	5.68	
			For Elevated Installation >35' To 40', Add	7.10	
			For Elevated Installation >40', Add	7.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.26	
26 05 33 13-0693	EA	1-1/4"	Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	24.13	6.84
			For Work In Restricted Working Space, Add	5.15	
			For Elevated Installation >10' To 15', Add	1.72	
			For Elevated Installation >15' To 20', Add	3.44	
			For Elevated Installation >20' To 25', Add	4.30	
			For Elevated Installation >25' To 30', Add	6.01	
			For Elevated Installation >30' To 35', Add	6.87	
			For Elevated Installation >35' To 40', Add	8.59	
			For Elevated Installation >40', Add	9.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.15	
26 05 33 13-0694	EA	1-1/2"	Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	29.30	7.85
			For Work In Restricted Working Space, Add	5.89	
			For Elevated Installation >10' To 15', Add	1.96	
			For Elevated Installation >15' To 20', Add	3.93	
			For Elevated Installation >20' To 25', Add	4.91	
			For Elevated Installation >25' To 30', Add	6.87	
			For Elevated Installation >30' To 35', Add	7.85	
			For Elevated Installation >35' To 40', Add	9.82	
			For Elevated Installation >40', Add	10.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.89	
26 05 33 13-0695	EA	2"	Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	38.02	9.86
			For Work In Restricted Working Space, Add	7.36	
			For Elevated Installation >10' To 15', Add	2.45	
			For Elevated Installation >15' To 20', Add	4.91	
			For Elevated Installation >20' To 25', Add	6.13	
			For Elevated Installation >25' To 30', Add	8.59	
			For Elevated Installation >30' To 35', Add	9.81	
			For Elevated Installation >35' To 40', Add	12.27	
			For Elevated Installation >40', Add	13.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.36	
26 05 33 13-0696	Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0598)				
26 05 33 13-0697	EA	1/2"	Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	26.28	11.39
			For Work In Restricted Working Space, Add	6.83	
			For Elevated Installation >15' To 20', Add	4.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0698	EA	3/4"	Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	30.63	13.28
			For Work In Restricted Working Space, Add	7.97	
			For Elevated Installation >15' To 20', Add	5.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-0699	EA	1"	Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	37.63	15.18
			For Work In Restricted Working Space, Add	9.11	
			For Elevated Installation >15' To 20', Add	6.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.11	
26 05 33 13-0700	EA	1-1/4"	Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	47.95	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >15' To 20', Add	7.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0701	Intermediate Metal Conduit (IMC) (26 05 33 13-0058)				
	Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.				
26 05 33 13-0702	Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0701)				
	Note: Includes field bending conduit up to 1".				

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0703 LF 1/2" Intermediate Metal Conduit (IMC) Conduit	8.84	2.53
For >250 To 500, Deduct	-0.11	
For >500 To 1,000, Deduct	-0.17	
For >1,000, Deduct	-0.23	
For Installation In Metal Stud Wall, Add	0.66	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.64	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.99	
For Work In Restricted Working Space, Add	1.97	
For Elevated Installation >10' To 15', Add	0.66	
For Elevated Installation >15' To 20', Add	1.31	
For Elevated Installation >20' To 25', Add	1.64	
For Elevated Installation >25' To 30', Add	2.30	
For Elevated Installation >30' To 35', Add	2.63	
For Elevated Installation >35' To 40', Add	3.29	
For Elevated Installation >40', Add	3.61	
26 05 33 13-0704 LF 3/4" Intermediate Metal Conduit (IMC) Conduit	10.55	2.79
For >250 To 500, Deduct	-0.14	
For >500 To 1,000, Deduct	-0.20	
For >1,000, Deduct	-0.27	
For Installation In Metal Stud Wall, Add	0.79	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.96	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.18	
For Work In Restricted Working Space, Add	2.36	
For Elevated Installation >10' To 15', Add	0.79	
For Elevated Installation >15' To 20', Add	1.57	
For Elevated Installation >20' To 25', Add	1.96	
For Elevated Installation >25' To 30', Add	2.75	
For Elevated Installation >30' To 35', Add	3.14	
For Elevated Installation >35' To 40', Add	3.93	
For Elevated Installation >40', Add	4.32	
26 05 33 13-0705 LF 1" Intermediate Metal Conduit (IMC) Conduit	14.04	3.04
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.31	
For >1,000, Deduct	-0.42	
For Installation In Metal Stud Wall, Add	0.99	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.47	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.48	
For Work In Restricted Working Space, Add	2.96	
For Elevated Installation >10' To 15', Add	0.99	
For Elevated Installation >15' To 20', Add	1.97	
For Elevated Installation >20' To 25', Add	2.47	
For Elevated Installation >25' To 30', Add	3.45	
For Elevated Installation >30' To 35', Add	3.94	
For Elevated Installation >35' To 40', Add	4.93	
For Elevated Installation >40', Add	5.42	
26 05 33 13-0706 LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit	16.16	6.07
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.40	
For >1,000, Deduct	-0.53	
For Installation In Metal Stud Wall, Add	1.09	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.72	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.63	
For Work In Restricted Working Space, Add	3.26	
For Elevated Installation >10' To 15', Add	1.09	
For Elevated Installation >15' To 20', Add	2.17	
For Elevated Installation >20' To 25', Add	2.72	
For Elevated Installation >25' To 30', Add	3.80	
For Elevated Installation >30' To 35', Add	4.35	
For Elevated Installation >35' To 40', Add	5.44	
For Elevated Installation >40', Add	5.98	
26 05 33 13-0707 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	18.14	4.05
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.63	
For Installation In Metal Stud Wall, Add	1.19	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.97	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.78	
For Work In Restricted Working Space, Add	3.57	
For Elevated Installation >10' To 15', Add	1.19	
For Elevated Installation >15' To 20', Add	2.38	
For Elevated Installation >20' To 25', Add	2.97	
For Elevated Installation >25' To 30', Add	4.16	
For Elevated Installation >30' To 35', Add	4.76	
For Elevated Installation >35' To 40', Add	5.95	
For Elevated Installation >40', Add	6.54	



		Electrical	26
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		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0708	LF		2" Intermediate Metal Conduit (IMC) Conduit	22.89	4.55
			For >250 To 500, Deduct	-0.42	
			For >500 To 1,000, Deduct	-0.64	
			For >1,000, Deduct	-0.85	
			For Installation In Metal Stud Wall, Add	1.44	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.61	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.16	
			For Work In Restricted Working Space, Add	4.33	
			For Elevated Installation >10' To 15', Add	1.44	
			For Elevated Installation >15' To 20', Add	2.88	
			For Elevated Installation >20' To 25', Add	3.61	
			For Elevated Installation >25' To 30', Add	5.05	
			For Elevated Installation >30' To 35', Add	5.77	
			For Elevated Installation >35' To 40', Add	7.21	
			For Elevated Installation >40', Add	7.93	
26 05 33 13-0709	LF		2-1/2" Intermediate Metal Conduit (IMC) Conduit	37.88	6.07
			For >250 To 500, Deduct	-0.94	
			For >500 To 1,000, Deduct	-1.41	
			For >1,000, Deduct	-1.88	
			For Installation In Metal Stud Wall, Add	1.91	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.78	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.87	
			For Work In Restricted Working Space, Add	5.73	
			For Elevated Installation >10' To 15', Add	1.91	
			For Elevated Installation >15' To 20', Add	3.82	
			For Elevated Installation >20' To 25', Add	4.78	
			For Elevated Installation >25' To 30', Add	6.69	
			For Elevated Installation >30' To 35', Add	7.64	
			For Elevated Installation >35' To 40', Add	9.55	
			For Elevated Installation >40', Add	10.51	
26 05 33 13-0710	LF		3" Intermediate Metal Conduit (IMC) Conduit	48.41	7.59
			For >250 To 500, Deduct	-1.16	
			For >500 To 1,000, Deduct	-1.73	
			For >1,000, Deduct	-2.31	
			For Installation In Metal Stud Wall, Add	2.53	
			For Installation In Wood Stud Wall (Includes Drilling), Add	6.33	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.80	
			For Work In Restricted Working Space, Add	7.59	
			For Elevated Installation >10' To 15', Add	2.53	
			For Elevated Installation >15' To 20', Add	5.06	
			For Elevated Installation >20' To 25', Add	6.33	
			For Elevated Installation >25' To 30', Add	8.86	
			For Elevated Installation >30' To 35', Add	10.12	
			For Elevated Installation >35' To 40', Add	12.65	
			For Elevated Installation >40', Add	13.92	
26 05 33 13-0711	LF		3-1/2" Intermediate Metal Conduit (IMC) Conduit	55.73	9.11
			For >250 To 500, Deduct	-1.34	
			For >500 To 1,000, Deduct	-2.01	
			For >1,000, Deduct	-2.68	
			For Installation In Metal Stud Wall, Add	2.90	
			For Installation In Wood Stud Wall (Includes Drilling), Add	7.24	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.34	
			For Work In Restricted Working Space, Add	8.69	
			For Elevated Installation >10' To 15', Add	2.90	
			For Elevated Installation >15' To 20', Add	5.79	
			For Elevated Installation >20' To 25', Add	7.24	
			For Elevated Installation >25' To 30', Add	10.14	
			For Elevated Installation >30' To 35', Add	11.58	
			For Elevated Installation >35' To 40', Add	14.48	
			For Elevated Installation >40', Add	15.93	
26 05 33 13-0712	LF		4" Intermediate Metal Conduit (IMC) Conduit	65.28	10.62
			For >250 To 500, Deduct	-1.58	
			For >500 To 1,000, Deduct	-2.36	
			For >1,000, Deduct	-3.15	
			For Installation In Metal Stud Wall, Add	3.38	
			For Installation In Wood Stud Wall (Includes Drilling), Add	8.45	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.07	
			For Work In Restricted Working Space, Add	10.13	
			For Elevated Installation >10' To 15', Add	3.38	
			For Elevated Installation >15' To 20', Add	6.76	
			For Elevated Installation >20' To 25', Add	8.45	
			For Elevated Installation >25' To 30', Add	11.82	
			For Elevated Installation >30' To 35', Add	13.51	
			For Elevated Installation >35' To 40', Add	16.89	
			For Elevated Installation >40', Add	18.58	

26 05 33 13-0713 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0701)
See CSI section 26 05 33 13-2224 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0714 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	66.84	19.10
For Work In Restricted Working Space, Add	14.29	
For Elevated Installation >10' To 15', Add	4.76	
For Elevated Installation >15' To 20', Add	9.52	
For Elevated Installation >20' To 25', Add	11.91	
For Elevated Installation >25' To 30', Add	16.67	
For Elevated Installation >30' To 35', Add	19.05	
For Elevated Installation >35' To 40', Add	23.81	
For Elevated Installation >40', Add	26.19	
26 05 33 13-0715 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	82.24	22.14
For Work In Restricted Working Space, Add	16.59	
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.06	
For Elevated Installation >20' To 25', Add	13.82	
For Elevated Installation >25' To 30', Add	19.35	
For Elevated Installation >30' To 35', Add	22.12	
For Elevated Installation >35' To 40', Add	27.65	
For Elevated Installation >40', Add	30.41	
26 05 33 13-0716 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	97.55	25.43
For Work In Restricted Working Space, Add	19.04	
For Elevated Installation >10' To 15', Add	6.35	
For Elevated Installation >15' To 20', Add	12.69	
For Elevated Installation >20' To 25', Add	15.87	
For Elevated Installation >25' To 30', Add	22.21	
For Elevated Installation >30' To 35', Add	25.38	
For Elevated Installation >35' To 40', Add	31.73	
For Elevated Installation >40', Add	34.90	
26 05 33 13-0717 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	118.89	27.95
For Work In Restricted Working Space, Add	20.95	
For Elevated Installation >10' To 15', Add	6.98	
For Elevated Installation >15' To 20', Add	13.96	
For Elevated Installation >20' To 25', Add	17.46	
For Elevated Installation >25' To 30', Add	24.44	
For Elevated Installation >30' To 35', Add	27.93	
For Elevated Installation >35' To 40', Add	34.91	
For Elevated Installation >40', Add	38.40	
26 05 33 13-0718 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	170.59	34.91
For Work In Restricted Working Space, Add	26.18	
For Elevated Installation >10' To 15', Add	8.73	
For Elevated Installation >15' To 20', Add	17.45	
For Elevated Installation >20' To 25', Add	21.82	
For Elevated Installation >25' To 30', Add	30.54	
For Elevated Installation >30' To 35', Add	34.91	
For Elevated Installation >35' To 40', Add	43.64	
For Elevated Installation >40', Add	48.00	
26 05 33 13-0719 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	246.44	47.57
For Work In Restricted Working Space, Add	35.67	
For Elevated Installation >10' To 15', Add	11.89	
For Elevated Installation >15' To 20', Add	23.78	
For Elevated Installation >20' To 25', Add	29.72	
For Elevated Installation >25' To 30', Add	41.61	
For Elevated Installation >30' To 35', Add	47.56	
For Elevated Installation >35' To 40', Add	59.45	
For Elevated Installation >40', Add	65.39	
26 05 33 13-0720 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	359.28	53.63
For Work In Restricted Working Space, Add	40.23	
For Elevated Installation >10' To 15', Add	13.41	
For Elevated Installation >15' To 20', Add	26.82	
For Elevated Installation >20' To 25', Add	33.53	
For Elevated Installation >25' To 30', Add	46.94	
For Elevated Installation >30' To 35', Add	53.64	
For Elevated Installation >35' To 40', Add	67.05	
For Elevated Installation >40', Add	73.76	
26 05 33 13-0721 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	435.74	69.83
For Work In Restricted Working Space, Add	52.36	
For Elevated Installation >10' To 15', Add	17.45	
For Elevated Installation >15' To 20', Add	34.91	
For Elevated Installation >20' To 25', Add	43.63	
For Elevated Installation >25' To 30', Add	61.09	
For Elevated Installation >30' To 35', Add	69.81	
For Elevated Installation >35' To 40', Add	87.27	
For Elevated Installation >40', Add	95.99	
26 05 33 13-0722 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0701)		
26 05 33 13-0723 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	17.28	6.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-0724 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	20.40	0.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0725 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	26.41	9.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21	
26 05 33 13-0726 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	32.26	11.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.73	
26 05 33 13-0727 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	36.14	12.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0728	EA		2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	46.66	15.68
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.76	
26 05 33 13-0729	EA		2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	86.48	25.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0730	EA		3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	106.67	34.41
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.81	
26 05 33 13-0731	EA		3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	139.81	40.98
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.74	
26 05 33 13-0732	EA		4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	165.08	47.57
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.67	
26 05 33 13-0733 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0701)					
Note: 3-Piece coupling.					
26 05 33 13-0734	EA		1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	57.12	20.23
			For Work In Restricted Working Space, Add	15.20	
			For Elevated Installation >10' To 15', Add	5.07	
			For Elevated Installation >15' To 20', Add	10.13	
			For Elevated Installation >20' To 25', Add	12.67	
			For Elevated Installation >25' To 30', Add	17.73	
			For Elevated Installation >30' To 35', Add	20.26	
			For Elevated Installation >35' To 40', Add	25.33	
			For Elevated Installation >40', Add	27.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.20	
26 05 33 13-0735	EA		3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	64.86	22.64
			For Work In Restricted Working Space, Add	16.96	
			For Elevated Installation >10' To 15', Add	5.65	
			For Elevated Installation >15' To 20', Add	11.31	
			For Elevated Installation >20' To 25', Add	14.14	
			For Elevated Installation >25' To 30', Add	19.79	
			For Elevated Installation >30' To 35', Add	22.62	
			For Elevated Installation >35' To 40', Add	28.27	
			For Elevated Installation >40', Add	31.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.96	
26 05 33 13-0736	EA		1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	79.03	25.18
			For Work In Restricted Working Space, Add	18.89	
			For Elevated Installation >10' To 15', Add	6.30	
			For Elevated Installation >15' To 20', Add	12.60	
			For Elevated Installation >20' To 25', Add	15.75	
			For Elevated Installation >25' To 30', Add	22.04	
			For Elevated Installation >30' To 35', Add	25.19	
			For Elevated Installation >35' To 40', Add	31.49	
			For Elevated Installation >40', Add	34.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.89	
26 05 33 13-0737	EA		1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	98.45	27.57
			For Work In Restricted Working Space, Add	20.68	
			For Elevated Installation >10' To 15', Add	6.89	
			For Elevated Installation >15' To 20', Add	13.78	
			For Elevated Installation >20' To 25', Add	17.23	
			For Elevated Installation >25' To 30', Add	24.12	
			For Elevated Installation >30' To 35', Add	27.57	
			For Elevated Installation >35' To 40', Add	34.46	
			For Elevated Installation >40', Add	37.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.68	
26 05 33 13-0738	EA		1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	112.46	30.11
			For Work In Restricted Working Space, Add	22.62	
			For Elevated Installation >10' To 15', Add	7.54	
			For Elevated Installation >15' To 20', Add	15.08	
			For Elevated Installation >20' To 25', Add	18.85	
			For Elevated Installation >25' To 30', Add	26.39	
			For Elevated Installation >30' To 35', Add	30.16	
			For Elevated Installation >35' To 40', Add	37.70	
			For Elevated Installation >40', Add	41.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.62	
26 05 33 13-0739	EA		2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	155.77	32.63
			For Work In Restricted Working Space, Add	24.50	
			For Elevated Installation >10' To 15', Add	8.17	
			For Elevated Installation >15' To 20', Add	16.33	
			For Elevated Installation >20' To 25', Add	20.41	
			For Elevated Installation >25' To 30', Add	28.58	
			For Elevated Installation >30' To 35', Add	32.66	
			For Elevated Installation >35' To 40', Add	40.83	
			For Elevated Installation >40', Add	44.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-0740	EA		2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	259.74	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0741 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	368.28	50.59
For Work In Restricted Working Space, Add	37.95	
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.30	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.27	
For Elevated Installation >30' To 35', Add	50.60	
For Elevated Installation >35' To 40', Add	63.25	
For Elevated Installation >40', Add	69.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.95	
26 05 33 13-0742 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	540.30	60.72
For Work In Restricted Working Space, Add	45.56	
For Elevated Installation >10' To 15', Add	15.19	
For Elevated Installation >15' To 20', Add	30.37	
For Elevated Installation >20' To 25', Add	37.96	
For Elevated Installation >25' To 30', Add	53.15	
For Elevated Installation >30' To 35', Add	60.74	
For Elevated Installation >35' To 40', Add	75.93	
For Elevated Installation >40', Add	83.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.56	
26 05 33 13-0743 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	624.23	65.78
For Work In Restricted Working Space, Add	49.33	
For Elevated Installation >10' To 15', Add	16.44	
For Elevated Installation >15' To 20', Add	32.89	
For Elevated Installation >20' To 25', Add	41.11	
For Elevated Installation >25' To 30', Add	57.55	
For Elevated Installation >30' To 35', Add	65.77	
For Elevated Installation >35' To 40', Add	82.22	
For Elevated Installation >40', Add	90.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.33	
26 05 33 13-0744 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0701)		
26 05 33 13-0745 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	32.34	10.12
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
26 05 33 13-0746 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	36.15	11.13
For Work In Restricted Working Space, Add	8.35	
For Elevated Installation >10' To 15', Add	2.78	
For Elevated Installation >15' To 20', Add	5.57	
For Elevated Installation >20' To 25', Add	6.96	
For Elevated Installation >25' To 30', Add	9.74	
For Elevated Installation >30' To 35', Add	11.13	
For Elevated Installation >35' To 40', Add	13.92	
For Elevated Installation >40', Add	15.31	
26 05 33 13-0747 EA 1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	41.54	12.65
For Work In Restricted Working Space, Add	9.49	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.33	
For Elevated Installation >20' To 25', Add	7.91	
For Elevated Installation >25' To 30', Add	11.07	
For Elevated Installation >30' To 35', Add	12.65	
For Elevated Installation >35' To 40', Add	15.82	
For Elevated Installation >40', Add	17.40	
26 05 33 13-0748 EA 1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	47.23	13.66
For Work In Restricted Working Space, Add	10.25	
For Elevated Installation >10' To 15', Add	3.42	
For Elevated Installation >15' To 20', Add	6.83	
For Elevated Installation >20' To 25', Add	8.54	
For Elevated Installation >25' To 30', Add	11.95	
For Elevated Installation >30' To 35', Add	13.66	
For Elevated Installation >35' To 40', Add	17.08	
For Elevated Installation >40', Add	18.78	
26 05 33 13-0749 EA 1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	56.18	15.18
For Work In Restricted Working Space, Add	11.39	
For Elevated Installation >10' To 15', Add	3.80	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.49	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.18	
For Elevated Installation >35' To 40', Add	18.98	
For Elevated Installation >40', Add	20.87	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
26 05 33 13-0750	EA 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	68.69		16.70
	For Work In Restricted Working Space, Add	12.52		
	For Elevated Installation >10' To 15', Add	4.17		
	For Elevated Installation >15' To 20', Add	8.35		
	For Elevated Installation >20' To 25', Add	10.44		
	For Elevated Installation >25' To 30', Add	14.61		
	For Elevated Installation >30' To 35', Add	16.70		
	For Elevated Installation >35' To 40', Add	20.87		
	For Elevated Installation >40', Add	22.96		
26 05 33 13-0751	EA 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	93.80		20.23
	For Work In Restricted Working Space, Add	15.18		
	For Elevated Installation >10' To 15', Add	5.06		
	For Elevated Installation >15' To 20', Add	10.12		
	For Elevated Installation >20' To 25', Add	12.65		
	For Elevated Installation >25' To 30', Add	17.71		
	For Elevated Installation >30' To 35', Add	20.24		
	For Elevated Installation >35' To 40', Add	25.30		
	For Elevated Installation >40', Add	27.82		
26 05 33 13-0752	EA 3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	115.97		25.30
	For Work In Restricted Working Space, Add	18.98		
	For Elevated Installation >10' To 15', Add	6.33		
	For Elevated Installation >15' To 20', Add	12.65		
	For Elevated Installation >20' To 25', Add	15.81		
	For Elevated Installation >25' To 30', Add	22.14		
	For Elevated Installation >30' To 35', Add	25.30		
	For Elevated Installation >35' To 40', Add	31.63		
	For Elevated Installation >40', Add	34.79		
26 05 33 13-0753	EA 3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	139.32		30.36
	For Work In Restricted Working Space, Add	22.77		
	For Elevated Installation >10' To 15', Add	7.59		
	For Elevated Installation >15' To 20', Add	15.18		
	For Elevated Installation >20' To 25', Add	18.98		
	For Elevated Installation >25' To 30', Add	26.57		
	For Elevated Installation >30' To 35', Add	30.36		
	For Elevated Installation >35' To 40', Add	37.95		
	For Elevated Installation >40', Add	41.75		
26 05 33 13-0754	EA 4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	157.53		32.89
	For Work In Restricted Working Space, Add	24.67		
	For Elevated Installation >10' To 15', Add	8.22		
	For Elevated Installation >15' To 20', Add	16.44		
	For Elevated Installation >20' To 25', Add	20.56		
	For Elevated Installation >25' To 30', Add	28.78		
	For Elevated Installation >30' To 35', Add	32.89		
	For Elevated Installation >35' To 40', Add	41.11		
	For Elevated Installation >40', Add	45.22		
26 05 33 13-0755 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0701)				
26 05 33 13-0756	EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	28.24		10.12
	For Work In Restricted Working Space, Add	7.59		
	For Elevated Installation >10' To 15', Add	2.53		
	For Elevated Installation >15' To 20', Add	5.06		
	For Elevated Installation >20' To 25', Add	6.33		
	For Elevated Installation >25' To 30', Add	8.86		
	For Elevated Installation >30' To 35', Add	10.12		
	For Elevated Installation >35' To 40', Add	12.66		
	For Elevated Installation >40', Add	13.92		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59		
26 05 33 13-0757	EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	36.02		12.65
	For Work In Restricted Working Space, Add	9.49		
	For Elevated Installation >10' To 15', Add	3.16		
	For Elevated Installation >15' To 20', Add	6.32		
	For Elevated Installation >20' To 25', Add	7.91		
	For Elevated Installation >25' To 30', Add	11.07		
	For Elevated Installation >30' To 35', Add	12.65		
	For Elevated Installation >35' To 40', Add	15.81		
	For Elevated Installation >40', Add	17.39		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49		
26 05 33 13-0758	EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	44.45		15.18
	For Work In Restricted Working Space, Add	11.39		
	For Elevated Installation >10' To 15', Add	3.80		
	For Elevated Installation >15' To 20', Add	7.59		
	For Elevated Installation >20' To 25', Add	9.49		
	For Elevated Installation >25' To 30', Add	13.28		
	For Elevated Installation >30' To 35', Add	15.18		
	For Elevated Installation >35' To 40', Add	18.98		
	For Elevated Installation >40', Add	20.87		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.39		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0759	EA	1-1/4"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.48 13.28 4.43 8.86 11.07 15.50 17.71 22.14 24.35 13.28	17.71
26 05 33 13-0760	EA	1-1/2"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.44 15.18 5.06 10.12 12.65 17.71 20.24 25.30 27.82 15.18	20.23
26 05 33 13-0761	EA	2"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.04 17.08 5.69 11.38 14.23 19.92 22.77 28.46 31.31 17.08	22.77
26 05 33 13-0762	EA	2-1/2"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.95 18.98 6.33 12.65 15.81 22.14 25.30 31.63 34.79 18.98	25.30
26 05 33 13-0763	EA	3"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.21 20.87 6.96 13.91 17.39 24.35 27.82 34.78 38.26 20.87	27.83
26 05 33 13-0764	EA	3-1/2"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.32 24.67 8.22 16.44 20.56 28.78 32.89 41.11 45.22 24.67	32.89
26 05 33 13-0765	EA	4"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.76 26.56 8.85 17.71 22.14 30.99 35.42 44.27 48.70 26.56	35.42
26 05 33 13-0766			Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0701)		
26 05 33 13-0767	EA	1/2"	Intermediate Metal Conduit (IMC) Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	177.44 15.18 5.06 10.12 12.65 17.71 20.24 25.30 27.83	20.23



Electrical		26
Common Work Results for Electrical		26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0768	EA		3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	196.44	22.77
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.38	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.92	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.46	
			For Elevated Installation >40', Add	31.31	
26 05 33 13-0769	EA		1" Intermediate Metal Conduit (IMC) Expansion Fitting	218.31	25.30
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
26 05 33 13-0770	EA		1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting	263.00	27.83
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
26 05 33 13-0771	EA		1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	321.25	30.36
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.97	
			For Elevated Installation >25' To 30', Add	26.56	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.74	
26 05 33 13-0772	EA		2" Intermediate Metal Conduit (IMC) Expansion Fitting	420.56	32.89
			For Work In Restricted Working Space, Add	24.66	
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.55	
			For Elevated Installation >25' To 30', Add	28.77	
			For Elevated Installation >30' To 35', Add	32.88	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
26 05 33 13-0773	EA		2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	632.65	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
26 05 33 13-0774	EA		3" Intermediate Metal Conduit (IMC) Expansion Fitting	761.09	50.59
			For Work In Restricted Working Space, Add	37.95	
			For Elevated Installation >10' To 15', Add	12.65	
			For Elevated Installation >15' To 20', Add	25.30	
			For Elevated Installation >20' To 25', Add	31.62	
			For Elevated Installation >25' To 30', Add	44.27	
			For Elevated Installation >30' To 35', Add	50.60	
			For Elevated Installation >35' To 40', Add	63.25	
			For Elevated Installation >40', Add	69.57	
26 05 33 13-0775	EA		3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	1,058.40	60.72
			For Work In Restricted Working Space, Add	45.54	
			For Elevated Installation >10' To 15', Add	15.18	
			For Elevated Installation >15' To 20', Add	30.36	
			For Elevated Installation >20' To 25', Add	37.95	
			For Elevated Installation >25' To 30', Add	53.13	
			For Elevated Installation >30' To 35', Add	60.72	
			For Elevated Installation >35' To 40', Add	75.91	
			For Elevated Installation >40', Add	83.50	
26 05 33 13-0776	EA		4" Intermediate Metal Conduit (IMC) Expansion Fitting	1,222.92	65.78
			For Work In Restricted Working Space, Add	49.33	
			For Elevated Installation >10' To 15', Add	16.44	
			For Elevated Installation >15' To 20', Add	32.89	
			For Elevated Installation >20' To 25', Add	41.11	
			For Elevated Installation >25' To 30', Add	57.55	
			For Elevated Installation >30' To 35', Add	65.77	
			For Elevated Installation >35' To 40', Add	82.22	
			For Elevated Installation >40', Add	90.44	

26 05 33 13-0777 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0701)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0778 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	112.06	31.62
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0779 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	133.22	37.94
For Work In Restricted Working Space, Add	22.77	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.98	
For Elevated Installation >25' To 30', Add	26.57	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-0780 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	162.22	44.27
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	30.99	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-0781 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	190.65	50.59
For Work In Restricted Working Space, Add	30.36	
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.60	
For Elevated Installation >40', Add	55.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	
26 05 33 13-0782 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	248.53	56.93
For Work In Restricted Working Space, Add	34.15	
For Elevated Installation >10' To 15', Add	11.38	
For Elevated Installation >15' To 20', Add	22.77	
For Elevated Installation >20' To 25', Add	28.46	
For Elevated Installation >25' To 30', Add	39.84	
For Elevated Installation >30' To 35', Add	45.54	
For Elevated Installation >35' To 40', Add	56.92	
For Elevated Installation >40', Add	62.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.15	
26 05 33 13-0783 EA 2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	301.00	63.25
For Work In Restricted Working Space, Add	37.95	
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.30	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.27	
For Elevated Installation >30' To 35', Add	50.60	
For Elevated Installation >35' To 40', Add	63.25	
For Elevated Installation >40', Add	69.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.95	
26 05 33 13-0784 EA 2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	422.92	75.90
For Work In Restricted Working Space, Add	45.54	
For Elevated Installation >10' To 15', Add	15.18	
For Elevated Installation >15' To 20', Add	30.36	
For Elevated Installation >20' To 25', Add	37.95	
For Elevated Installation >25' To 30', Add	53.13	
For Elevated Installation >30' To 35', Add	60.72	
For Elevated Installation >35' To 40', Add	75.90	
For Elevated Installation >40', Add	83.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.54	
26 05 33 13-0785 EA 3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	508.29	88.55
For Work In Restricted Working Space, Add	53.13	
For Elevated Installation >10' To 15', Add	17.71	
For Elevated Installation >15' To 20', Add	35.42	
For Elevated Installation >20' To 25', Add	44.27	
For Elevated Installation >25' To 30', Add	61.98	
For Elevated Installation >30' To 35', Add	70.84	
For Elevated Installation >35' To 40', Add	88.55	
For Elevated Installation >40', Add	97.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.13	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0786	EA		3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,157.60	101.19
			For Work In Restricted Working Space, Add	60.72	
			For Elevated Installation >10' To 15', Add	20.24	
			For Elevated Installation >15' To 20', Add	40.48	
			For Elevated Installation >20' To 25', Add	50.60	
			For Elevated Installation >25' To 30', Add	70.84	
			For Elevated Installation >30' To 35', Add	80.96	
			For Elevated Installation >35' To 40', Add	101.20	
			For Elevated Installation >40', Add	111.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.72	
26 05 33 13-0787	EA		4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,333.20	113.84
			For Work In Restricted Working Space, Add	68.31	
			For Elevated Installation >10' To 15', Add	22.77	
			For Elevated Installation >15' To 20', Add	45.54	
			For Elevated Installation >20' To 25', Add	56.92	
			For Elevated Installation >25' To 30', Add	79.69	
			For Elevated Installation >30' To 35', Add	91.08	
			For Elevated Installation >35' To 40', Add	113.85	
			For Elevated Installation >40', Add	125.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.31	
26 05 33 13-0788 Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0701)					
26 05 33 13-0789	EA		1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	16.84	6.07
			For Work In Restricted Working Space, Add	4.55	
			For Elevated Installation >10' To 15', Add	1.52	
			For Elevated Installation >15' To 20', Add	3.03	
			For Elevated Installation >20' To 25', Add	3.79	
			For Elevated Installation >25' To 30', Add	5.31	
			For Elevated Installation >30' To 35', Add	6.07	
			For Elevated Installation >35' To 40', Add	7.59	
			For Elevated Installation >40', Add	8.34	
26 05 33 13-0790	EA		3/4" Intermediate Metal Conduit (IMC) Threaded Coupling	23.54	8.60
			For Work In Restricted Working Space, Add	6.46	
			For Elevated Installation >10' To 15', Add	2.15	
			For Elevated Installation >15' To 20', Add	4.30	
			For Elevated Installation >20' To 25', Add	5.38	
			For Elevated Installation >25' To 30', Add	7.53	
			For Elevated Installation >30' To 35', Add	8.61	
			For Elevated Installation >35' To 40', Add	10.76	
			For Elevated Installation >40', Add	11.84	
26 05 33 13-0791	EA		1" Intermediate Metal Conduit (IMC) Threaded Coupling	30.82	11.13
			For Work In Restricted Working Space, Add	8.34	
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.56	
			For Elevated Installation >20' To 25', Add	6.95	
			For Elevated Installation >25' To 30', Add	9.73	
			For Elevated Installation >30' To 35', Add	11.12	
			For Elevated Installation >35' To 40', Add	13.91	
			For Elevated Installation >40', Add	15.30	
26 05 33 13-0792	EA		1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	35.40	12.65
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.33	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.82	
			For Elevated Installation >40', Add	17.40	
26 05 33 13-0793	EA		1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	42.68	15.18
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.58	
			For Elevated Installation >20' To 25', Add	9.48	
			For Elevated Installation >25' To 30', Add	13.27	
			For Elevated Installation >30' To 35', Add	15.17	
			For Elevated Installation >35' To 40', Add	18.96	
			For Elevated Installation >40', Add	20.86	
26 05 33 13-0794	EA		2" Intermediate Metal Conduit (IMC) Threaded Coupling	49.29	17.20
			For Work In Restricted Working Space, Add	12.91	
			For Elevated Installation >10' To 15', Add	4.30	
			For Elevated Installation >15' To 20', Add	8.61	
			For Elevated Installation >20' To 25', Add	10.76	
			For Elevated Installation >25' To 30', Add	15.06	
			For Elevated Installation >30' To 35', Add	17.21	
			For Elevated Installation >35' To 40', Add	21.52	
			For Elevated Installation >40', Add	23.67	
26 05 33 13-0795	EA		2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	61.93	19.22
			For Work In Restricted Working Space, Add	14.42	
			For Elevated Installation >10' To 15', Add	4.81	
			For Elevated Installation >15' To 20', Add	9.61	
			For Elevated Installation >20' To 25', Add	12.02	
			For Elevated Installation >25' To 30', Add	16.82	
			For Elevated Installation >30' To 35', Add	19.22	
			For Elevated Installation >35' To 40', Add	24.03	
			For Elevated Installation >40', Add	26.43	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0796 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling	73.35	21.76
For Work In Restricted Working Space, Add	16.32	
For Elevated Installation >10' To 15', Add	5.44	
For Elevated Installation >15' To 20', Add	10.88	
For Elevated Installation >20' To 25', Add	13.60	
For Elevated Installation >25' To 30', Add	19.04	
For Elevated Installation >30' To 35', Add	21.76	
For Elevated Installation >35' To 40', Add	27.20	
For Elevated Installation >40', Add	29.92	
26 05 33 13-0797 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	84.80	23.78
For Work In Restricted Working Space, Add	17.84	
For Elevated Installation >10' To 15', Add	5.95	
For Elevated Installation >15' To 20', Add	11.89	
For Elevated Installation >20' To 25', Add	14.87	
For Elevated Installation >25' To 30', Add	20.81	
For Elevated Installation >30' To 35', Add	23.79	
For Elevated Installation >35' To 40', Add	29.74	
For Elevated Installation >40', Add	32.71	
26 05 33 13-0798 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling	88.76	25.30
For Work In Restricted Working Space, Add	18.97	
For Elevated Installation >10' To 15', Add	6.32	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.13	
For Elevated Installation >30' To 35', Add	25.29	
For Elevated Installation >35' To 40', Add	31.62	
For Elevated Installation >40', Add	34.78	
26 05 33 13-0799 Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0701)		
26 05 33 13-0800 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	8.18	2.53
For Work In Restricted Working Space, Add	1.90	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.26	
For Elevated Installation >20' To 25', Add	1.58	
For Elevated Installation >25' To 30', Add	2.21	
For Elevated Installation >30' To 35', Add	2.53	
For Elevated Installation >35' To 40', Add	3.16	
For Elevated Installation >40', Add	3.48	
26 05 33 13-0801 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	9.25	2.53
For Work In Restricted Working Space, Add	1.90	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.26	
For Elevated Installation >20' To 25', Add	1.58	
For Elevated Installation >25' To 30', Add	2.21	
For Elevated Installation >30' To 35', Add	2.53	
For Elevated Installation >35' To 40', Add	3.16	
For Elevated Installation >40', Add	3.48	
26 05 33 13-0802 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0058)		
Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0803 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0802)		
Note: Includes field bending for conduit up to 1".		
26 05 33 13-0804 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	14.48	3.54
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.23	
For Elevated Installation >10' To 15', Add	0.89	
For Elevated Installation >15' To 20', Add	1.77	
For Elevated Installation >20' To 25', Add	2.21	
For Elevated Installation >25' To 30', Add	3.10	
For Elevated Installation >30' To 35', Add	3.54	
For Elevated Installation >35' To 40', Add	4.43	
For Elevated Installation >40', Add	4.87	
For Work In Restricted Working Space, Add	2.66	
26 05 33 13-0805 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	16.65	4.05
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-1.00	
For >1,000, Deduct	-1.41	
For Elevated Installation >10' To 15', Add	1.01	
For Elevated Installation >15' To 20', Add	2.02	
For Elevated Installation >20' To 25', Add	2.53	
For Elevated Installation >25' To 30', Add	3.54	
For Elevated Installation >30' To 35', Add	4.05	
For Elevated Installation >35' To 40', Add	5.06	
For Elevated Installation >40', Add	5.57	
For Work In Restricted Working Space, Add	3.04	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0806	LF	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	21.10	5.06
			For >250 To 500, Deduct	-0.74	
			For >500 To 1,000, Deduct	-1.27	
			For >1,000, Deduct	-1.79	
			For Elevated Installation >10' To 15', Add	1.27	
			For Elevated Installation >15' To 20', Add	2.53	
			For Elevated Installation >20' To 25', Add	3.16	
			For Elevated Installation >25' To 30', Add	4.43	
			For Elevated Installation >30' To 35', Add	5.06	
			For Elevated Installation >35' To 40', Add	6.33	
			For Elevated Installation >40', Add	6.96	
			For Work In Restricted Working Space, Add	3.80	
26 05 33 13-0807	LF	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	25.89	6.07
			For >250 To 500, Deduct	-0.92	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000, Deduct	-2.21	
			For Elevated Installation >10' To 15', Add	1.52	
			For Elevated Installation >15' To 20', Add	3.04	
			For Elevated Installation >20' To 25', Add	3.80	
			For Elevated Installation >25' To 30', Add	5.31	
			For Elevated Installation >30' To 35', Add	6.07	
			For Elevated Installation >35' To 40', Add	7.59	
			For Elevated Installation >40', Add	8.35	
			For Work In Restricted Working Space, Add	4.55	
26 05 33 13-0808	LF	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	32.00	7.59
			For >250 To 500, Deduct	-1.13	
			For >500 To 1,000, Deduct	-1.93	
			For >1,000, Deduct	-2.73	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.79	
			For Elevated Installation >20' To 25', Add	4.74	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.43	
			For Work In Restricted Working Space, Add	5.69	
26 05 33 13-0809	LF	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	39.75	9.11
			For >250 To 500, Deduct	-1.42	
			For >500 To 1,000, Deduct	-2.41	
			For >1,000, Deduct	-3.41	
			For Elevated Installation >10' To 15', Add	2.28	
			For Elevated Installation >15' To 20', Add	4.55	
			For Elevated Installation >20' To 25', Add	5.69	
			For Elevated Installation >25' To 30', Add	7.97	
			For Elevated Installation >30' To 35', Add	9.11	
			For Elevated Installation >35' To 40', Add	11.39	
			For Elevated Installation >40', Add	12.52	
			For Work In Restricted Working Space, Add	6.83	
26 05 33 13-0810	LF	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	52.30	10.62
			For >250 To 500, Deduct	-1.95	
			For >500 To 1,000, Deduct	-3.26	
			For >1,000, Deduct	-4.57	
			For Elevated Installation >10' To 15', Add	2.66	
			For Elevated Installation >15' To 20', Add	5.31	
			For Elevated Installation >20' To 25', Add	6.64	
			For Elevated Installation >25' To 30', Add	9.30	
			For Elevated Installation >30' To 35', Add	10.62	
			For Elevated Installation >35' To 40', Add	13.28	
			For Elevated Installation >40', Add	14.61	
			For Work In Restricted Working Space, Add	7.97	
26 05 33 13-0811	LF	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	65.35	13.16
			For >250 To 500, Deduct	-2.45	
			For >500 To 1,000, Deduct	-4.08	
			For >1,000, Deduct	-5.71	
			For Elevated Installation >10' To 15', Add	3.29	
			For Elevated Installation >15' To 20', Add	6.58	
			For Elevated Installation >20' To 25', Add	8.22	
			For Elevated Installation >25' To 30', Add	11.51	
			For Elevated Installation >30' To 35', Add	13.16	
			For Elevated Installation >35' To 40', Add	16.45	
			For Elevated Installation >40', Add	18.09	
			For Work In Restricted Working Space, Add	9.87	
26 05 33 13-0812	LF	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	80.19	16.20
			For >250 To 500, Deduct	-3.00	
			For >500 To 1,000, Deduct	-5.00	
			For >1,000, Deduct	-7.01	
			For Elevated Installation >10' To 15', Add	4.05	
			For Elevated Installation >15' To 20', Add	8.10	
			For Elevated Installation >20' To 25', Add	10.12	
			For Elevated Installation >25' To 30', Add	14.17	
			For Elevated Installation >30' To 35', Add	16.19	
			For Elevated Installation >35' To 40', Add	20.24	
			For Elevated Installation >40', Add	22.26	
			For Work In Restricted Working Space, Add	12.14	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0813 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	94.88	19.22
For >250 To 500, Deduct	-3.54	
For >500 To 1,000, Deduct	-5.91	
For >1,000, Deduct	-8.29	
For Elevated Installation >10' To 15', Add	4.81	
For Elevated Installation >15' To 20', Add	9.61	
For Elevated Installation >20' To 25', Add	12.02	
For Elevated Installation >25' To 30', Add	16.82	
For Elevated Installation >30' To 35', Add	19.23	
For Elevated Installation >35' To 40', Add	24.04	
For Elevated Installation >40', Add	26.44	
For Work In Restricted Working Space, Add	14.42	
26 05 33 13-0814 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	139.88	22.77
For >250 To 500, Deduct	-5.57	
For >500 To 1,000, Deduct	-9.07	
For >1,000, Deduct	-12.56	
For Elevated Installation >10' To 15', Add	5.69	
For Elevated Installation >15' To 20', Add	11.39	
For Elevated Installation >20' To 25', Add	14.23	
For Elevated Installation >25' To 30', Add	19.93	
For Elevated Installation >30' To 35', Add	22.77	
For Elevated Installation >35' To 40', Add	28.47	
For Elevated Installation >40', Add	31.31	
For Work In Restricted Working Space, Add	17.08	
26 05 33 13-0815 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	189.57	30.36
For >250 To 500, Deduct	-7.58	
For >500 To 1,000, Deduct	-12.32	
For >1,000, Deduct	-17.06	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.98	
For Elevated Installation >25' To 30', Add	26.57	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.75	
For Work In Restricted Working Space, Add	22.77	
26 05 33 13-0816 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings		
(26 05 33 13-0802)		
26 05 33 13-0817 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	21.13	7.59
For Elevated Installation >10' To 15', Add	1.52	
For Elevated Installation >15' To 20', Add	3.04	
For Elevated Installation >20' To 25', Add	3.80	
For Elevated Installation >25' To 30', Add	5.31	
For Elevated Installation >30' To 35', Add	6.07	
For Elevated Installation >35' To 40', Add	7.59	
For Elevated Installation >40', Add	8.35	
For Work In Restricted Working Space, Add	4.55	
26 05 33 13-0818 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	27.75	10.75
For Elevated Installation >10' To 15', Add	2.15	
For Elevated Installation >15' To 20', Add	4.30	
For Elevated Installation >20' To 25', Add	5.38	
For Elevated Installation >25' To 30', Add	7.53	
For Elevated Installation >30' To 35', Add	8.60	
For Elevated Installation >35' To 40', Add	10.76	
For Elevated Installation >40', Add	11.83	
For Work In Restricted Working Space, Add	6.45	
26 05 33 13-0819 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	35.92	13.91
For Elevated Installation >10' To 15', Add	2.78	
For Elevated Installation >15' To 20', Add	5.57	
For Elevated Installation >20' To 25', Add	6.96	
For Elevated Installation >25' To 30', Add	9.74	
For Elevated Installation >30' To 35', Add	11.13	
For Elevated Installation >35' To 40', Add	13.92	
For Elevated Installation >40', Add	15.31	
For Work In Restricted Working Space, Add	8.35	
26 05 33 13-0820 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	41.06	15.82
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.91	
For Elevated Installation >25' To 30', Add	11.07	
For Elevated Installation >30' To 35', Add	12.65	
For Elevated Installation >35' To 40', Add	15.81	
For Elevated Installation >40', Add	17.39	
For Work In Restricted Working Space, Add	9.49	
26 05 33 13-0821 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	49.16	18.97
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.49	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.18	
For Elevated Installation >35' To 40', Add	18.97	
For Elevated Installation >40', Add	20.87	
For Work In Restricted Working Space, Add	11.38	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0822 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	59.43	21.51
For Elevated Installation >10' To 15', Add	4.30	
For Elevated Installation >15' To 20', Add	8.60	
For Elevated Installation >20' To 25', Add	10.75	
For Elevated Installation >25' To 30', Add	15.05	
For Elevated Installation >30' To 35', Add	17.20	
For Elevated Installation >35' To 40', Add	21.51	
For Elevated Installation >40', Add	23.66	
For Work In Restricted Working Space, Add	12.90	
26 05 33 13-0823 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	88.71	21.51
For Elevated Installation >10' To 15', Add	4.81	
For Elevated Installation >15' To 20', Add	9.61	
For Elevated Installation >20' To 25', Add	12.02	
For Elevated Installation >25' To 30', Add	16.82	
For Elevated Installation >30' To 35', Add	19.23	
For Elevated Installation >35' To 40', Add	24.04	
For Elevated Installation >40', Add	26.44	
For Work In Restricted Working Space, Add	14.42	
26 05 33 13-0824 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	103.75	29.73
For Elevated Installation >10' To 15', Add	5.44	
For Elevated Installation >15' To 20', Add	10.88	
For Elevated Installation >20' To 25', Add	13.60	
For Elevated Installation >25' To 30', Add	19.04	
For Elevated Installation >30' To 35', Add	21.76	
For Elevated Installation >35' To 40', Add	27.20	
For Elevated Installation >40', Add	29.91	
For Work In Restricted Working Space, Add	16.32	
26 05 33 13-0825 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	122.78	29.73
For Elevated Installation >10' To 15', Add	5.95	
For Elevated Installation >15' To 20', Add	11.89	
For Elevated Installation >20' To 25', Add	14.86	
For Elevated Installation >25' To 30', Add	20.81	
For Elevated Installation >30' To 35', Add	23.78	
For Elevated Installation >35' To 40', Add	29.73	
For Elevated Installation >40', Add	32.70	
For Work In Restricted Working Space, Add	17.84	
26 05 33 13-0826 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	137.29	31.62
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
For Work In Restricted Working Space, Add	18.98	
26 05 33 13-0827 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	317.17	37.94
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.18	
For Elevated Installation >20' To 25', Add	18.98	
For Elevated Installation >25' To 30', Add	26.57	
For Elevated Installation >30' To 35', Add	30.36	
For Elevated Installation >35' To 40', Add	37.95	
For Elevated Installation >40', Add	41.75	
For Work In Restricted Working Space, Add	22.77	
26 05 33 13-0828 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	358.06	44.27
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	30.99	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.70	
For Work In Restricted Working Space, Add	26.57	
26 05 33 13-0829 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows (26 05 33 13-0802) Note: 90, 45, or 30 degree.		
26 05 33 13-0830 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	61.96	20.56
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.22	
For Elevated Installation >20' To 25', Add	10.28	
For Elevated Installation >25' To 30', Add	14.39	
For Elevated Installation >30' To 35', Add	16.44	
For Elevated Installation >35' To 40', Add	20.56	
For Elevated Installation >40', Add	22.61	
For Work In Restricted Working Space, Add	12.33	
26 05 33 13-0831 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	72.62	25.49
For Elevated Installation >10' To 15', Add	5.10	
For Elevated Installation >15' To 20', Add	10.19	
For Elevated Installation >20' To 25', Add	12.74	
For Elevated Installation >25' To 30', Add	17.84	
For Elevated Installation >30' To 35', Add	20.39	
For Elevated Installation >35' To 40', Add	25.49	
For Elevated Installation >40', Add	28.03	
For Work In Restricted Working Space, Add	15.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0832	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 87.31		31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
26 05 33 13-0833	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 102.86		36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
26 05 33 13-0834	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 119.71		41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
26 05 33 13-0835	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 142.76		45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-0836	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 212.04		56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
26 05 33 13-0837	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 312.09		77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.91	
			For Elevated Installation >20' To 25', Add	38.64	
			For Elevated Installation >25' To 30', Add	54.10	
			For Elevated Installation >30' To 35', Add	61.83	
			For Elevated Installation >35' To 40', Add	77.29	
			For Elevated Installation >40', Add	85.01	
			For Work In Restricted Working Space, Add	46.37	
26 05 33 13-0838	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 381.00		87.15
			For Elevated Installation >10' To 15', Add	17.43	
			For Elevated Installation >15' To 20', Add	34.86	
			For Elevated Installation >20' To 25', Add	43.58	
			For Elevated Installation >25' To 30', Add	61.01	
			For Elevated Installation >30' To 35', Add	69.72	
			For Elevated Installation >35' To 40', Add	87.16	
			For Elevated Installation >40', Add	95.87	
			For Work In Restricted Working Space, Add	52.29	
26 05 33 13-0839	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 445.42		113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.39	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.43	
			For Elevated Installation >30' To 35', Add	90.77	
			For Elevated Installation >35' To 40', Add	113.47	
			For Elevated Installation >40', Add	124.81	
			For Work In Restricted Working Space, Add	68.08	
26 05 33 13-0840	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 896.51		185.00
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
			For Work In Restricted Working Space, Add	111.00	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0841	EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,402.16		277.91
	For Elevated Installation >10' To 15', Add	55.58		
	For Elevated Installation >15' To 20', Add	111.16		
	For Elevated Installation >20' To 25', Add	138.96		
	For Elevated Installation >25' To 30', Add	194.54		
	For Elevated Installation >30' To 35', Add	222.33		
	For Elevated Installation >35' To 40', Add	277.91		
	For Elevated Installation >40', Add	305.70		
	For Work In Restricted Working Space, Add	166.75		
26 05 33 13-0842	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows (26 05 33 13-0802)			
26 05 33 13-0843	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	136.46		31.24
	For Elevated Installation >10' To 15', Add	6.25		
	For Elevated Installation >15' To 20', Add	12.50		
	For Elevated Installation >20' To 25', Add	15.62		
	For Elevated Installation >25' To 30', Add	21.87		
	For Elevated Installation >30' To 35', Add	25.00		
	For Elevated Installation >35' To 40', Add	31.25		
	For Elevated Installation >40', Add	34.37		
	For Work In Restricted Working Space, Add	18.75		
26 05 33 13-0844	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	154.17		36.18
	For Elevated Installation >10' To 15', Add	7.24		
	For Elevated Installation >15' To 20', Add	14.47		
	For Elevated Installation >20' To 25', Add	18.09		
	For Elevated Installation >25' To 30', Add	25.32		
	For Elevated Installation >30' To 35', Add	28.94		
	For Elevated Installation >35' To 40', Add	36.18		
	For Elevated Installation >40', Add	39.79		
	For Work In Restricted Working Space, Add	21.71		
26 05 33 13-0845	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	175.89		41.11
	For Elevated Installation >10' To 15', Add	8.22		
	For Elevated Installation >15' To 20', Add	16.44		
	For Elevated Installation >20' To 25', Add	20.56		
	For Elevated Installation >25' To 30', Add	28.78		
	For Elevated Installation >30' To 35', Add	32.89		
	For Elevated Installation >35' To 40', Add	41.11		
	For Elevated Installation >40', Add	45.22		
	For Work In Restricted Working Space, Add	24.67		
26 05 33 13-0846	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	207.58		45.22
	For Elevated Installation >10' To 15', Add	9.04		
	For Elevated Installation >15' To 20', Add	18.09		
	For Elevated Installation >20' To 25', Add	22.61		
	For Elevated Installation >25' To 30', Add	31.65		
	For Elevated Installation >30' To 35', Add	36.18		
	For Elevated Installation >35' To 40', Add	45.22		
	For Elevated Installation >40', Add	49.74		
	For Work In Restricted Working Space, Add	27.13		
26 05 33 13-0847	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	285.40		56.74
	For Elevated Installation >10' To 15', Add	11.35		
	For Elevated Installation >15' To 20', Add	22.69		
	For Elevated Installation >20' To 25', Add	28.37		
	For Elevated Installation >25' To 30', Add	39.71		
	For Elevated Installation >30' To 35', Add	45.38		
	For Elevated Installation >35' To 40', Add	56.73		
	For Elevated Installation >40', Add	62.40		
	For Work In Restricted Working Space, Add	34.04		
26 05 33 13-0848	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows (26 05 33 13-0802)			
26 05 33 13-0849	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	149.75		31.24
	For Elevated Installation >10' To 15', Add	6.25		
	For Elevated Installation >15' To 20', Add	12.50		
	For Elevated Installation >20' To 25', Add	15.62		
	For Elevated Installation >25' To 30', Add	21.87		
	For Elevated Installation >30' To 35', Add	25.00		
	For Elevated Installation >35' To 40', Add	31.25		
	For Elevated Installation >40', Add	34.37		
	For Work In Restricted Working Space, Add	18.75		
26 05 33 13-0850	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	176.13		36.18
	For Elevated Installation >10' To 15', Add	7.24		
	For Elevated Installation >15' To 20', Add	14.47		
	For Elevated Installation >20' To 25', Add	18.09		
	For Elevated Installation >25' To 30', Add	25.32		
	For Elevated Installation >30' To 35', Add	28.94		
	For Elevated Installation >35' To 40', Add	36.18		
	For Elevated Installation >40', Add	39.79		
	For Work In Restricted Working Space, Add	21.71		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0851	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	191.63	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
26 05 33 13-0852	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	241.92	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-0853	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	318.51	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
26 05 33 13-0854	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	410.28	77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.91	
			For Elevated Installation >20' To 25', Add	38.64	
			For Elevated Installation >25' To 30', Add	54.10	
			For Elevated Installation >30' To 35', Add	61.83	
			For Elevated Installation >35' To 40', Add	77.29	
			For Elevated Installation >40', Add	85.01	
			For Work In Restricted Working Space, Add	46.37	
26 05 33 13-0855 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel					
(RGS) 18" Large Radius Elbows (26 05 33 13-0802)					
26 05 33 13-0856	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	165.64	31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
26 05 33 13-0857	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	187.57	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
26 05 33 13-0858	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	211.83	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
26 05 33 13-0859	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	253.31	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-0860	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	356.56	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0861	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	454.95	77.29
		For Elevated Installation >10' To 15', Add	15.46	
		For Elevated Installation >15' To 20', Add	30.91	
		For Elevated Installation >20' To 25', Add	38.64	
		For Elevated Installation >25' To 30', Add	54.10	
		For Elevated Installation >30' To 35', Add	61.83	
		For Elevated Installation >35' To 40', Add	77.29	
		For Elevated Installation >40', Add	85.01	
		For Work In Restricted Working Space, Add	46.37	
26 05 33 13-0862	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	568.07	87.15
		For Elevated Installation >10' To 15', Add	17.43	
		For Elevated Installation >15' To 20', Add	34.86	
		For Elevated Installation >20' To 25', Add	43.58	
		For Elevated Installation >25' To 30', Add	61.01	
		For Elevated Installation >30' To 35', Add	69.72	
		For Elevated Installation >35' To 40', Add	87.16	
		For Elevated Installation >40', Add	95.87	
		For Work In Restricted Working Space, Add	52.29	
26 05 33 13-0863	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	649.22	113.46
		For Elevated Installation >10' To 15', Add	22.69	
		For Elevated Installation >15' To 20', Add	45.39	
		For Elevated Installation >20' To 25', Add	56.73	
		For Elevated Installation >25' To 30', Add	79.43	
		For Elevated Installation >30' To 35', Add	90.77	
		For Elevated Installation >35' To 40', Add	113.47	
		For Elevated Installation >40', Add	124.81	
		For Work In Restricted Working Space, Add	68.08	
26 05 33 13-0864 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows				
		(26 05 33 13-0802)		
26 05 33 13-0865	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	193.09	31.24
		For Elevated Installation >10' To 15', Add	6.25	
		For Elevated Installation >15' To 20', Add	12.50	
		For Elevated Installation >20' To 25', Add	15.62	
		For Elevated Installation >25' To 30', Add	21.87	
		For Elevated Installation >30' To 35', Add	25.00	
		For Elevated Installation >35' To 40', Add	31.25	
		For Elevated Installation >40', Add	34.37	
		For Work In Restricted Working Space, Add	18.75	
26 05 33 13-0866	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	214.41	36.18
		For Elevated Installation >10' To 15', Add	7.24	
		For Elevated Installation >15' To 20', Add	14.47	
		For Elevated Installation >20' To 25', Add	18.09	
		For Elevated Installation >25' To 30', Add	25.32	
		For Elevated Installation >30' To 35', Add	28.94	
		For Elevated Installation >35' To 40', Add	36.18	
		For Elevated Installation >40', Add	39.79	
		For Work In Restricted Working Space, Add	21.71	
26 05 33 13-0867	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	242.32	41.11
		For Elevated Installation >10' To 15', Add	8.22	
		For Elevated Installation >15' To 20', Add	16.44	
		For Elevated Installation >20' To 25', Add	20.56	
		For Elevated Installation >25' To 30', Add	28.78	
		For Elevated Installation >30' To 35', Add	32.89	
		For Elevated Installation >35' To 40', Add	41.11	
		For Elevated Installation >40', Add	45.22	
		For Work In Restricted Working Space, Add	24.67	
26 05 33 13-0868	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	297.20	45.22
		For Elevated Installation >10' To 15', Add	9.04	
		For Elevated Installation >15' To 20', Add	18.09	
		For Elevated Installation >20' To 25', Add	22.61	
		For Elevated Installation >25' To 30', Add	31.65	
		For Elevated Installation >30' To 35', Add	36.18	
		For Elevated Installation >35' To 40', Add	45.22	
		For Elevated Installation >40', Add	49.74	
		For Work In Restricted Working Space, Add	27.13	
26 05 33 13-0869	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	424.65	56.74
		For Elevated Installation >10' To 15', Add	11.35	
		For Elevated Installation >15' To 20', Add	22.69	
		For Elevated Installation >20' To 25', Add	28.37	
		For Elevated Installation >25' To 30', Add	39.71	
		For Elevated Installation >30' To 35', Add	45.38	
		For Elevated Installation >35' To 40', Add	56.73	
		For Elevated Installation >40', Add	62.40	
		For Work In Restricted Working Space, Add	34.04	
26 05 33 13-0870	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	530.63	77.29
		For Elevated Installation >10' To 15', Add	15.46	
		For Elevated Installation >15' To 20', Add	30.91	
		For Elevated Installation >20' To 25', Add	38.64	
		For Elevated Installation >25' To 30', Add	54.10	
		For Elevated Installation >30' To 35', Add	61.83	
		For Elevated Installation >35' To 40', Add	77.29	
		For Elevated Installation >40', Add	85.01	
		For Work In Restricted Working Space, Add	46.37	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0871 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	614.27	87.15
For Elevated Installation >10' To 15', Add	17.43	
For Elevated Installation >15' To 20', Add	34.86	
For Elevated Installation >20' To 25', Add	43.58	
For Elevated Installation >25' To 30', Add	61.01	
For Elevated Installation >30' To 35', Add	69.72	
For Elevated Installation >35' To 40', Add	87.16	
For Elevated Installation >40', Add	95.87	
For Work In Restricted Working Space, Add	52.29	
26 05 33 13-0872 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	734.05	113.46
For Elevated Installation >10' To 15', Add	22.69	
For Elevated Installation >15' To 20', Add	45.39	
For Elevated Installation >20' To 25', Add	56.73	
For Elevated Installation >25' To 30', Add	79.43	
For Elevated Installation >30' To 35', Add	90.77	
For Elevated Installation >35' To 40', Add	113.47	
For Elevated Installation >40', Add	124.81	
For Work In Restricted Working Space, Add	68.08	
26 05 33 13-0873 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows (26 05 33 13-0802)		
26 05 33 13-0874 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	214.45	31.24
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
For Work In Restricted Working Space, Add	18.75	
26 05 33 13-0875 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	239.41	36.18
For Elevated Installation >10' To 15', Add	7.24	
For Elevated Installation >15' To 20', Add	14.47	
For Elevated Installation >20' To 25', Add	18.09	
For Elevated Installation >25' To 30', Add	25.32	
For Elevated Installation >30' To 35', Add	28.94	
For Elevated Installation >35' To 40', Add	36.18	
For Elevated Installation >40', Add	39.79	
For Work In Restricted Working Space, Add	21.71	
26 05 33 13-0876 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	272.32	41.11
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.56	
For Elevated Installation >25' To 30', Add	28.78	
For Elevated Installation >30' To 35', Add	32.89	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
For Work In Restricted Working Space, Add	24.67	
26 05 33 13-0877 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	335.41	45.22
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
For Work In Restricted Working Space, Add	27.13	
26 05 33 13-0878 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	461.80	56.74
For Elevated Installation >10' To 15', Add	11.35	
For Elevated Installation >15' To 20', Add	22.69	
For Elevated Installation >20' To 25', Add	28.37	
For Elevated Installation >25' To 30', Add	39.71	
For Elevated Installation >30' To 35', Add	45.38	
For Elevated Installation >35' To 40', Add	56.73	
For Elevated Installation >40', Add	62.40	
For Work In Restricted Working Space, Add	34.04	
26 05 33 13-0879 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	591.16	77.29
For Elevated Installation >10' To 15', Add	15.46	
For Elevated Installation >15' To 20', Add	30.91	
For Elevated Installation >20' To 25', Add	38.64	
For Elevated Installation >25' To 30', Add	54.10	
For Elevated Installation >30' To 35', Add	61.83	
For Elevated Installation >35' To 40', Add	77.29	
For Elevated Installation >40', Add	85.01	
For Work In Restricted Working Space, Add	46.37	
26 05 33 13-0880 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	726.62	87.15
For Elevated Installation >10' To 15', Add	17.43	
For Elevated Installation >15' To 20', Add	34.86	
For Elevated Installation >20' To 25', Add	43.58	
For Elevated Installation >25' To 30', Add	61.01	
For Elevated Installation >30' To 35', Add	69.72	
For Elevated Installation >35' To 40', Add	87.16	
For Elevated Installation >40', Add	95.87	
For Work In Restricted Working Space, Add	52.29	



Electrical		26
Common Work Results for Electrical		26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0881	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	811.92 22.69 45.39 56.73 79.43 90.77 113.47 124.81 68.08	113.46
26 05 33 13-0882	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	1,351.12 37.00 74.00 92.50 129.50 148.00 185.00 203.49 111.00	185.00
26 05 33 13-0883 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows (26 05 33 13-0802)					
26 05 33 13-0884	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	242.38 6.25 12.50 15.62 21.87 25.00 31.25 34.37 18.75	31.24
26 05 33 13-0885	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	269.60 7.24 14.47 18.09 25.32 28.94 36.18 39.79 21.71	36.18
26 05 33 13-0886	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	305.21 8.22 16.44 20.56 28.78 32.89 41.11 45.22 24.67	41.11
26 05 33 13-0887	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	377.79 9.04 18.09 22.61 31.65 36.18 45.22 49.74 27.13	45.22
26 05 33 13-0888	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	523.71 11.35 22.69 28.37 39.71 45.38 56.73 62.40 34.04	56.74
26 05 33 13-0889	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	668.29 15.46 30.91 38.64 54.10 61.83 77.29 85.01 46.37	77.29
26 05 33 13-0890	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	782.92 17.43 34.86 43.58 61.01 69.72 87.16 95.87 52.29	87.15

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0891 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	912.45	113.46
For Elevated Installation >10' To 15', Add	22.69	
For Elevated Installation >15' To 20', Add	45.39	
For Elevated Installation >20' To 25', Add	56.73	
For Elevated Installation >25' To 30', Add	79.43	
For Elevated Installation >30' To 35', Add	90.77	
For Elevated Installation >35' To 40', Add	113.47	
For Elevated Installation >40', Add	124.81	
For Work In Restricted Working Space, Add	68.08	
26 05 33 13-0892 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,421.57	185.00
For Elevated Installation >10' To 15', Add	37.00	
For Elevated Installation >15' To 20', Add	74.00	
For Elevated Installation >20' To 25', Add	92.50	
For Elevated Installation >25' To 30', Add	129.50	
For Elevated Installation >30' To 35', Add	148.00	
For Elevated Installation >35' To 40', Add	185.00	
For Elevated Installation >40', Add	203.49	
For Work In Restricted Working Space, Add	111.00	
26 05 33 13-0893 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,958.85	277.91
For Elevated Installation >10' To 15', Add	55.58	
For Elevated Installation >15' To 20', Add	111.16	
For Elevated Installation >20' To 25', Add	138.96	
For Elevated Installation >25' To 30', Add	194.54	
For Elevated Installation >30' To 35', Add	222.33	
For Elevated Installation >35' To 40', Add	277.91	
For Elevated Installation >40', Add	305.70	
For Work In Restricted Working Space, Add	166.75	
26 05 33 13-0894 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows (26 05 33 13-0802)		
26 05 33 13-0895 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	281.27	31.24
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
For Work In Restricted Working Space, Add	18.75	
26 05 33 13-0896 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	296.52	36.18
For Elevated Installation >10' To 15', Add	7.24	
For Elevated Installation >15' To 20', Add	14.47	
For Elevated Installation >20' To 25', Add	18.09	
For Elevated Installation >25' To 30', Add	25.32	
For Elevated Installation >30' To 35', Add	28.94	
For Elevated Installation >35' To 40', Add	36.18	
For Elevated Installation >40', Add	39.79	
For Work In Restricted Working Space, Add	21.71	
26 05 33 13-0897 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	349.23	41.11
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.56	
For Elevated Installation >25' To 30', Add	28.78	
For Elevated Installation >30' To 35', Add	32.89	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
For Work In Restricted Working Space, Add	24.67	
26 05 33 13-0898 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	436.79	45.22
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
For Work In Restricted Working Space, Add	27.13	
26 05 33 13-0899 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	607.19	56.74
For Elevated Installation >10' To 15', Add	11.35	
For Elevated Installation >15' To 20', Add	22.69	
For Elevated Installation >20' To 25', Add	28.37	
For Elevated Installation >25' To 30', Add	39.71	
For Elevated Installation >30' To 35', Add	45.38	
For Elevated Installation >35' To 40', Add	56.73	
For Elevated Installation >40', Add	62.40	
For Work In Restricted Working Space, Add	34.04	
26 05 33 13-0900 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	772.26	77.29
For Elevated Installation >10' To 15', Add	15.46	
For Elevated Installation >15' To 20', Add	30.91	
For Elevated Installation >20' To 25', Add	38.64	
For Elevated Installation >25' To 30', Add	54.10	
For Elevated Installation >30' To 35', Add	61.83	
For Elevated Installation >35' To 40', Add	77.29	
For Elevated Installation >40', Add	85.01	
For Work In Restricted Working Space, Add	46.37	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0901	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	939.43	87.15
		For Elevated Installation >10' To 15', Add	17.43	
		For Elevated Installation >15' To 20', Add	34.86	
		For Elevated Installation >20' To 25', Add	43.58	
		For Elevated Installation >25' To 30', Add	61.01	
		For Elevated Installation >30' To 35', Add	69.72	
		For Elevated Installation >35' To 40', Add	87.16	
		For Elevated Installation >40', Add	95.87	
		For Work In Restricted Working Space, Add	52.29	
26 05 33 13-0902	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,108.01	113.46
		For Elevated Installation >10' To 15', Add	22.69	
		For Elevated Installation >15' To 20', Add	45.39	
		For Elevated Installation >20' To 25', Add	56.73	
		For Elevated Installation >25' To 30', Add	79.43	
		For Elevated Installation >30' To 35', Add	90.77	
		For Elevated Installation >35' To 40', Add	113.47	
		For Elevated Installation >40', Add	124.81	
		For Work In Restricted Working Space, Add	68.08	
26 05 33 13-0903	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,651.38	185.00
		For Elevated Installation >10' To 15', Add	37.00	
		For Elevated Installation >15' To 20', Add	74.00	
		For Elevated Installation >20' To 25', Add	92.50	
		For Elevated Installation >25' To 30', Add	129.50	
		For Elevated Installation >30' To 35', Add	148.00	
		For Elevated Installation >35' To 40', Add	185.00	
		For Elevated Installation >40', Add	203.49	
		For Work In Restricted Working Space, Add	111.00	
26 05 33 13-0904	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	2,064.34	277.91
		For Elevated Installation >10' To 15', Add	55.58	
		For Elevated Installation >15' To 20', Add	111.16	
		For Elevated Installation >20' To 25', Add	138.96	
		For Elevated Installation >25' To 30', Add	194.54	
		For Elevated Installation >30' To 35', Add	222.33	
		For Elevated Installation >35' To 40', Add	277.91	
		For Elevated Installation >40', Add	305.70	
		For Work In Restricted Working Space, Add	166.75	
26 05 33 13-0905		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0902)		
26 05 33 13-0906	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	290.63	31.24
		For Elevated Installation >10' To 15', Add	6.25	
		For Elevated Installation >15' To 20', Add	12.50	
		For Elevated Installation >20' To 25', Add	15.62	
		For Elevated Installation >25' To 30', Add	21.87	
		For Elevated Installation >30' To 35', Add	25.00	
		For Elevated Installation >35' To 40', Add	31.25	
		For Elevated Installation >40', Add	34.37	
		For Work In Restricted Working Space, Add	18.75	
26 05 33 13-0907	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	342.05	36.18
		For Elevated Installation >10' To 15', Add	7.24	
		For Elevated Installation >15' To 20', Add	14.47	
		For Elevated Installation >20' To 25', Add	18.09	
		For Elevated Installation >25' To 30', Add	25.32	
		For Elevated Installation >30' To 35', Add	28.94	
		For Elevated Installation >35' To 40', Add	36.18	
		For Elevated Installation >40', Add	39.79	
		For Work In Restricted Working Space, Add	21.71	
26 05 33 13-0908	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	387.29	41.11
		For Elevated Installation >10' To 15', Add	8.22	
		For Elevated Installation >15' To 20', Add	16.44	
		For Elevated Installation >20' To 25', Add	20.56	
		For Elevated Installation >25' To 30', Add	28.78	
		For Elevated Installation >30' To 35', Add	32.89	
		For Elevated Installation >35' To 40', Add	41.11	
		For Elevated Installation >40', Add	45.22	
		For Work In Restricted Working Space, Add	24.67	
26 05 33 13-0909	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	454.53	45.22
		For Elevated Installation >10' To 15', Add	9.04	
		For Elevated Installation >15' To 20', Add	18.09	
		For Elevated Installation >20' To 25', Add	22.61	
		For Elevated Installation >25' To 30', Add	31.65	
		For Elevated Installation >30' To 35', Add	36.18	
		For Elevated Installation >35' To 40', Add	45.22	
		For Elevated Installation >40', Add	49.74	
		For Work In Restricted Working Space, Add	27.13	
26 05 33 13-0910	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	628.04	56.74
		For Elevated Installation >10' To 15', Add	11.35	
		For Elevated Installation >15' To 20', Add	22.69	
		For Elevated Installation >20' To 25', Add	28.37	
		For Elevated Installation >25' To 30', Add	39.71	
		For Elevated Installation >30' To 35', Add	45.38	
		For Elevated Installation >35' To 40', Add	56.73	
		For Elevated Installation >40', Add	62.40	
		For Work In Restricted Working Space, Add	34.04	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0911 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	804.23	77.29
For Elevated Installation >10' To 15', Add	15.46	
For Elevated Installation >15' To 20', Add	30.91	
For Elevated Installation >20' To 25', Add	38.64	
For Elevated Installation >25' To 30', Add	54.10	
For Elevated Installation >30' To 35', Add	61.83	
For Elevated Installation >35' To 40', Add	77.29	
For Elevated Installation >40', Add	85.01	
For Work In Restricted Working Space, Add	46.37	
26 05 33 13-0912 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,024.67	87.15
For Elevated Installation >10' To 15', Add	17.43	
For Elevated Installation >15' To 20', Add	34.86	
For Elevated Installation >20' To 25', Add	43.58	
For Elevated Installation >25' To 30', Add	61.01	
For Elevated Installation >30' To 35', Add	69.72	
For Elevated Installation >35' To 40', Add	87.16	
For Elevated Installation >40', Add	95.87	
For Work In Restricted Working Space, Add	52.29	
26 05 33 13-0913 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,152.36	113.46
For Elevated Installation >10' To 15', Add	22.69	
For Elevated Installation >15' To 20', Add	45.39	
For Elevated Installation >20' To 25', Add	56.73	
For Elevated Installation >25' To 30', Add	79.43	
For Elevated Installation >30' To 35', Add	90.77	
For Elevated Installation >35' To 40', Add	113.47	
For Elevated Installation >40', Add	124.81	
For Work In Restricted Working Space, Add	68.08	
26 05 33 13-0914 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,713.11	185.00
For Elevated Installation >10' To 15', Add	37.00	
For Elevated Installation >15' To 20', Add	74.00	
For Elevated Installation >20' To 25', Add	92.50	
For Elevated Installation >25' To 30', Add	129.50	
For Elevated Installation >30' To 35', Add	148.00	
For Elevated Installation >35' To 40', Add	185.00	
For Elevated Installation >40', Add	203.49	
For Work In Restricted Working Space, Add	111.00	
26 05 33 13-0915 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	2,117.94	277.91
For Elevated Installation >10' To 15', Add	55.58	
For Elevated Installation >15' To 20', Add	111.16	
For Elevated Installation >20' To 25', Add	138.96	
For Elevated Installation >25' To 30', Add	194.54	
For Elevated Installation >30' To 35', Add	222.33	
For Elevated Installation >35' To 40', Add	277.91	
For Elevated Installation >40', Add	305.70	
For Work In Restricted Working Space, Add	166.75	
26 05 33 13-0916 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fittings (26 05 33 13-0802)		
26 05 33 13-0917 EA 1 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	111.23	20.56
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.22	
For Elevated Installation >20' To 25', Add	10.28	
For Elevated Installation >25' To 30', Add	14.39	
For Elevated Installation >30' To 35', Add	16.44	
For Elevated Installation >35' To 40', Add	20.56	
For Elevated Installation >40', Add	22.61	
For Work In Restricted Working Space, Add	12.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-0918 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	136.96	27.13
For Elevated Installation >10' To 15', Add	5.43	
For Elevated Installation >15' To 20', Add	10.85	
For Elevated Installation >20' To 25', Add	13.57	
For Elevated Installation >25' To 30', Add	18.99	
For Elevated Installation >30' To 35', Add	21.71	
For Elevated Installation >35' To 40', Add	27.14	
For Elevated Installation >40', Add	29.85	
For Work In Restricted Working Space, Add	16.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 05 33 13-0919 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	180.57	31.24
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
For Work In Restricted Working Space, Add	18.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	



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		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0920	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	290.38	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.71	
26 05 33 13-0921	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	321.10	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.67	
26 05 33 13-0922	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	402.98	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-0923	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,070.85	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-0924	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,282.02	77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.92	
			For Elevated Installation >20' To 25', Add	38.65	
			For Elevated Installation >25' To 30', Add	54.11	
			For Elevated Installation >30' To 35', Add	61.84	
			For Elevated Installation >35' To 40', Add	77.30	
			For Elevated Installation >40', Add	85.02	
			For Work In Restricted Working Space, Add	46.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.38	
26 05 33 13-0925	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,707.79	113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.38	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.42	
			For Elevated Installation >30' To 35', Add	90.76	
			For Elevated Installation >35' To 40', Add	113.46	
			For Elevated Installation >40', Add	124.80	
			For Work In Restricted Working Space, Add	68.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.07	
26 05 33 13-0926			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings (26 05 33 13-0802)		
26 05 33 13-0927	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	106.96	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-0928	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	132.14	27.13
			For Elevated Installation >10' To 15', Add	5.43	
			For Elevated Installation >15' To 20', Add	10.85	
			For Elevated Installation >20' To 25', Add	13.57	
			For Elevated Installation >25' To 30', Add	18.99	
			For Elevated Installation >30' To 35', Add	21.71	
			For Elevated Installation >35' To 40', Add	27.14	
			For Elevated Installation >40', Add	29.85	
			For Work In Restricted Working Space, Add	16.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0929	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	180.57	31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0930	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	287.90	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.71	
26 05 33 13-0931	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	311.11	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.67	
26 05 33 13-0932	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	403.10	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-0933	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,028.20	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-0934	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,250.91	77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.92	
			For Elevated Installation >20' To 25', Add	38.65	
			For Elevated Installation >25' To 30', Add	54.11	
			For Elevated Installation >30' To 35', Add	61.84	
			For Elevated Installation >35' To 40', Add	77.30	
			For Elevated Installation >40', Add	85.02	
			For Work In Restricted Working Space, Add	46.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.38	
26 05 33 13-0935	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,707.71	113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.38	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.42	
			For Elevated Installation >30' To 35', Add	90.76	
			For Elevated Installation >35' To 40', Add	113.46	
			For Elevated Installation >40', Add	124.80	
			For Work In Restricted Working Space, Add	68.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.07	
26 05 33 13-0936			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings (26 05 33 13-0802)		
26 05 33 13-0937	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	97.53	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0938	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 117.81		27.13
			For Elevated Installation >10' To 15', Add	5.43	
			For Elevated Installation >15' To 20', Add	10.85	
			For Elevated Installation >20' To 25', Add	13.57	
			For Elevated Installation >25' To 30', Add	18.99	
			For Elevated Installation >30' To 35', Add	21.71	
			For Elevated Installation >35' To 40', Add	27.14	
			For Elevated Installation >40', Add	29.85	
			For Work In Restricted Working Space, Add	16.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 05 33 13-0939	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 138.70		31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0940	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 193.68		36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.71	
26 05 33 13-0941	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 225.78		41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.67	
26 05 33 13-0942	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 341.43		45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-0943	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 909.45		56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-0944	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 1,029.10		77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.92	
			For Elevated Installation >20' To 25', Add	38.65	
			For Elevated Installation >25' To 30', Add	54.11	
			For Elevated Installation >30' To 35', Add	61.84	
			For Elevated Installation >35' To 40', Add	77.30	
			For Elevated Installation >40', Add	85.02	
			For Work In Restricted Working Space, Add	46.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.38	
26 05 33 13-0945	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 1,320.15		113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.38	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.42	
			For Elevated Installation >30' To 35', Add	90.76	
			For Elevated Installation >35' To 40', Add	113.46	
			For Elevated Installation >40', Add	124.80	
			For Work In Restricted Working Space, Add	68.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.07	

26 05 33 13-0946 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel
(RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0902)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-0947	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting	160.66		20.56
		For Elevated Installation >10' To 15', Add	4.11		
		For Elevated Installation >15' To 20', Add	8.22		
		For Elevated Installation >20' To 25', Add	10.28		
		For Elevated Installation >25' To 30', Add	14.39		
		For Elevated Installation >30' To 35', Add	16.44		
		For Elevated Installation >35' To 40', Add	20.56		
		For Elevated Installation >40', Add	22.61		
		For Work In Restricted Working Space, Add	12.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33		
26 05 33 13-0948	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting	240.59		27.13
		For Elevated Installation >10' To 15', Add	5.43		
		For Elevated Installation >15' To 20', Add	10.85		
		For Elevated Installation >20' To 25', Add	13.57		
		For Elevated Installation >25' To 30', Add	18.99		
		For Elevated Installation >30' To 35', Add	21.71		
		For Elevated Installation >35' To 40', Add	27.14		
		For Elevated Installation >40', Add	29.85		
		For Work In Restricted Working Space, Add	16.28		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28		
26 05 33 13-0949	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting	301.30		31.24
		For Elevated Installation >10' To 15', Add	6.25		
		For Elevated Installation >15' To 20', Add	12.50		
		For Elevated Installation >20' To 25', Add	15.62		
		For Elevated Installation >25' To 30', Add	21.87		
		For Elevated Installation >30' To 35', Add	25.00		
		For Elevated Installation >35' To 40', Add	31.25		
		For Elevated Installation >40', Add	34.37		
		For Work In Restricted Working Space, Add	18.75		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75		
26 05 33 13-0950	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting	347.83		36.18
		For Elevated Installation >10' To 15', Add	7.24		
		For Elevated Installation >15' To 20', Add	14.47		
		For Elevated Installation >20' To 25', Add	18.09		
		For Elevated Installation >25' To 30', Add	25.32		
		For Elevated Installation >30' To 35', Add	28.94		
		For Elevated Installation >35' To 40', Add	36.18		
		For Elevated Installation >40', Add	39.79		
		For Work In Restricted Working Space, Add	21.71		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.71		
26 05 33 13-0951	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting	395.05		41.11
		For Elevated Installation >10' To 15', Add	8.22		
		For Elevated Installation >15' To 20', Add	16.44		
		For Elevated Installation >20' To 25', Add	20.56		
		For Elevated Installation >25' To 30', Add	28.78		
		For Elevated Installation >30' To 35', Add	32.89		
		For Elevated Installation >35' To 40', Add	41.11		
		For Elevated Installation >40', Add	45.22		
		For Work In Restricted Working Space, Add	24.67		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.67		
26 05 33 13-0952	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting	516.29		45.22
		For Elevated Installation >10' To 15', Add	9.04		
		For Elevated Installation >15' To 20', Add	18.09		
		For Elevated Installation >20' To 25', Add	22.61		
		For Elevated Installation >25' To 30', Add	31.65		
		For Elevated Installation >30' To 35', Add	36.18		
		For Elevated Installation >35' To 40', Add	45.22		
		For Elevated Installation >40', Add	49.74		
		For Work In Restricted Working Space, Add	27.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13		
26 05 33 13-0953	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting	1,589.93		56.74
		For Elevated Installation >10' To 15', Add	11.35		
		For Elevated Installation >15' To 20', Add	22.69		
		For Elevated Installation >20' To 25', Add	28.37		
		For Elevated Installation >25' To 30', Add	39.71		
		For Elevated Installation >30' To 35', Add	45.38		
		For Elevated Installation >35' To 40', Add	56.73		
		For Elevated Installation >40', Add	62.40		
		For Work In Restricted Working Space, Add	34.04		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04		



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0954	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,860.94	77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.92	
			For Elevated Installation >20' To 25', Add	38.65	
			For Elevated Installation >25' To 30', Add	54.11	
			For Elevated Installation >30' To 35', Add	61.84	
			For Elevated Installation >35' To 40', Add	77.30	
			For Elevated Installation >40', Add	85.02	
			For Work In Restricted Working Space, Add	46.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.38	
26 05 33 13-0955	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	2,295.52	113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.38	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.42	
			For Elevated Installation >30' To 35', Add	90.76	
			For Elevated Installation >35' To 40', Add	113.46	
			For Elevated Installation >40', Add	124.80	
			For Work In Restricted Working Space, Add	68.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.07	
26 05 33 13-0956 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings (26 05 33 13-0802)					
26 05 33 13-0957	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	177.42	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-0958	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	256.41	27.13
			For Elevated Installation >10' To 15', Add	5.43	
			For Elevated Installation >15' To 20', Add	10.85	
			For Elevated Installation >20' To 25', Add	13.57	
			For Elevated Installation >25' To 30', Add	18.99	
			For Elevated Installation >30' To 35', Add	21.71	
			For Elevated Installation >35' To 40', Add	27.14	
			For Elevated Installation >40', Add	29.85	
			For Work In Restricted Working Space, Add	16.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 05 33 13-0959	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	304.31	31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0960	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	352.79	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.71	
26 05 33 13-0961	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	408.65	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.67	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0962	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	635.87	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-0963	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,770.35	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-0964	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,490.83	77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.92	
			For Elevated Installation >20' To 25', Add	38.65	
			For Elevated Installation >25' To 30', Add	54.11	
			For Elevated Installation >30' To 35', Add	61.84	
			For Elevated Installation >35' To 40', Add	77.30	
			For Elevated Installation >40', Add	85.02	
			For Work In Restricted Working Space, Add	46.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.38	
26 05 33 13-0965	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,614.39	113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.38	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.42	
			For Elevated Installation >30' To 35', Add	90.76	
			For Elevated Installation >35' To 40', Add	113.46	
			For Elevated Installation >40', Add	124.80	
			For Work In Restricted Working Space, Add	68.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.07	
26 05 33 13-0966			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0802)		
26 05 33 13-0967	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	142.19	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-0968	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	179.91	27.13
			For Elevated Installation >10' To 15', Add	5.43	
			For Elevated Installation >15' To 20', Add	10.85	
			For Elevated Installation >20' To 25', Add	13.57	
			For Elevated Installation >25' To 30', Add	18.99	
			For Elevated Installation >30' To 35', Add	21.71	
			For Elevated Installation >35' To 40', Add	27.14	
			For Elevated Installation >40', Add	29.85	
			For Work In Restricted Working Space, Add	16.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 05 33 13-0969	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	215.03	31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0970	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	238.90	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.71	
26 05 33 13-0971	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	318.60	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.67	
26 05 33 13-0972	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	445.02	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-0973	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,440.50	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-0974	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,627.28	77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.92	
			For Elevated Installation >20' To 25', Add	38.65	
			For Elevated Installation >25' To 30', Add	54.11	
			For Elevated Installation >30' To 35', Add	61.84	
			For Elevated Installation >35' To 40', Add	77.30	
			For Elevated Installation >40', Add	85.02	
			For Work In Restricted Working Space, Add	46.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.38	
26 05 33 13-0975	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,942.72	113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.38	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.42	
			For Elevated Installation >30' To 35', Add	90.76	
			For Elevated Installation >35' To 40', Add	113.46	
			For Elevated Installation >40', Add	124.80	
			For Work In Restricted Working Space, Add	68.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.07	
26 05 33 13-0976			Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0802)		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0977	EA		1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	137.33	39.47
			For Elevated Installation >10' To 15', Add	7.89	
			For Elevated Installation >15' To 20', Add	15.79	
			For Elevated Installation >20' To 25', Add	19.74	
			For Elevated Installation >25' To 30', Add	27.63	
			For Elevated Installation >30' To 35', Add	31.58	
			For Elevated Installation >35' To 40', Add	39.47	
			For Elevated Installation >40', Add	43.42	
			For Work In Restricted Working Space, Add	23.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0978	EA		3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	155.19	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-0979	EA		1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	190.23	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.08	
26 05 33 13-0980	EA		1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	245.80	60.02
			For Elevated Installation >10' To 15', Add	12.00	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.01	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.02	
			For Elevated Installation >40', Add	66.02	
			For Work In Restricted Working Space, Add	36.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.01	
26 05 33 13-0981	EA		1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	285.12	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.47	
26 05 33 13-0982	EA		2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	384.28	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.36	
26 05 33 13-0983	EA		2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	637.50	111.00
			For Elevated Installation >10' To 15', Add	22.20	
			For Elevated Installation >15' To 20', Add	44.40	
			For Elevated Installation >20' To 25', Add	55.50	
			For Elevated Installation >25' To 30', Add	77.70	
			For Elevated Installation >30' To 35', Add	88.80	
			For Elevated Installation >35' To 40', Add	111.00	
			For Elevated Installation >40', Add	122.10	
			For Work In Restricted Working Space, Add	66.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.60	
26 05 33 13-0984	EA		3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	818.68	148.00
			For Elevated Installation >10' To 15', Add	29.60	
			For Elevated Installation >15' To 20', Add	59.20	
			For Elevated Installation >20' To 25', Add	74.00	
			For Elevated Installation >25' To 30', Add	103.60	
			For Elevated Installation >30' To 35', Add	118.40	
			For Elevated Installation >35' To 40', Add	148.01	
			For Elevated Installation >40', Add	162.81	
			For Work In Restricted Working Space, Add	88.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.80	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-0985	EA 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,129.38		185.00
	For Elevated Installation >10' To 15', Add	37.00		
	For Elevated Installation >15' To 20', Add	74.00		
	For Elevated Installation >20' To 25', Add	92.50		
	For Elevated Installation >25' To 30', Add	129.50		
	For Elevated Installation >30' To 35', Add	148.00		
	For Elevated Installation >35' To 40', Add	185.00		
	For Elevated Installation >40', Add	203.49		
	For Work In Restricted Working Space, Add	111.00		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.00		
26 05 33 13-0986	EA 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,301.80		225.28
	For Elevated Installation >10' To 15', Add	45.06		
	For Elevated Installation >15' To 20', Add	90.12		
	For Elevated Installation >20' To 25', Add	112.65		
	For Elevated Installation >25' To 30', Add	157.70		
	For Elevated Installation >30' To 35', Add	180.23		
	For Elevated Installation >35' To 40', Add	225.29		
	For Elevated Installation >40', Add	247.82		
	For Work In Restricted Working Space, Add	135.17		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.17		
26 05 33 13-0987	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0802)			
	Note: Suitable for use in hazardous locations. Class I, Div 2.			
26 05 33 13-0988	EA 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	179.51		51.80
	For Elevated Installation >10' To 15', Add	10.36		
	For Elevated Installation >15' To 20', Add	20.72		
	For Elevated Installation >20' To 25', Add	25.90		
	For Elevated Installation >25' To 30', Add	36.26		
	For Elevated Installation >30' To 35', Add	41.44		
	For Elevated Installation >35' To 40', Add	51.80		
	For Elevated Installation >40', Add	56.97		
	For Work In Restricted Working Space, Add	31.08		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.08		
26 05 33 13-0989	EA 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	204.01		57.56
	For Elevated Installation >10' To 15', Add	11.51		
	For Elevated Installation >15' To 20', Add	23.02		
	For Elevated Installation >20' To 25', Add	28.78		
	For Elevated Installation >25' To 30', Add	40.29		
	For Elevated Installation >30' To 35', Add	46.04		
	For Elevated Installation >35' To 40', Add	57.56		
	For Elevated Installation >40', Add	63.31		
	For Work In Restricted Working Space, Add	34.53		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.53		
26 05 33 13-0990	EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	246.36		63.31
	For Elevated Installation >10' To 15', Add	12.66		
	For Elevated Installation >15' To 20', Add	25.32		
	For Elevated Installation >20' To 25', Add	31.66		
	For Elevated Installation >25' To 30', Add	44.32		
	For Elevated Installation >30' To 35', Add	50.65		
	For Elevated Installation >35' To 40', Add	63.31		
	For Elevated Installation >40', Add	69.64		
	For Work In Restricted Working Space, Add	37.99		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.99		
26 05 33 13-0991	EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	326.13		72.35
	For Elevated Installation >10' To 15', Add	14.47		
	For Elevated Installation >15' To 20', Add	28.94		
	For Elevated Installation >20' To 25', Add	36.18		
	For Elevated Installation >25' To 30', Add	50.65		
	For Elevated Installation >30' To 35', Add	57.88		
	For Elevated Installation >35' To 40', Add	72.35		
	For Elevated Installation >40', Add	79.59		
	For Work In Restricted Working Space, Add	43.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.41		
26 05 33 13-0992	EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	382.76		78.94
	For Elevated Installation >10' To 15', Add	15.79		
	For Elevated Installation >15' To 20', Add	31.57		
	For Elevated Installation >20' To 25', Add	39.47		
	For Elevated Installation >25' To 30', Add	55.25		
	For Elevated Installation >30' To 35', Add	63.15		
	For Elevated Installation >35' To 40', Add	78.94		
	For Elevated Installation >40', Add	86.83		
	For Work In Restricted Working Space, Add	47.36		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.36		
26 05 33 13-0993	EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	517.08		97.02
	For Elevated Installation >10' To 15', Add	19.40		
	For Elevated Installation >15' To 20', Add	38.81		
	For Elevated Installation >20' To 25', Add	48.51		
	For Elevated Installation >25' To 30', Add	67.91		
	For Elevated Installation >30' To 35', Add	77.62		
	For Elevated Installation >35' To 40', Add	97.02		
	For Elevated Installation >40', Add	106.72		
	For Work In Restricted Working Space, Add	58.21		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.21		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0994	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0802) Note: Suitable for use in hazardous locations. Class I, Div 2.			
26 05 33 13-0995	EA 1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	157.85		45.22
	For Elevated Installation >10' To 15', Add	9.05		
	For Elevated Installation >15' To 20', Add	18.09		
	For Elevated Installation >20' To 25', Add	22.61		
	For Elevated Installation >25' To 30', Add	31.66		
	For Elevated Installation >30' To 35', Add	36.18		
	For Elevated Installation >35' To 40', Add	45.23		
	For Elevated Installation >40', Add	49.75		
	For Work In Restricted Working Space, Add	27.14		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.14		
26 05 33 13-0996	EA 3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	180.51		52.62
	For Elevated Installation >10' To 15', Add	10.52		
	For Elevated Installation >15' To 20', Add	21.05		
	For Elevated Installation >20' To 25', Add	26.31		
	For Elevated Installation >25' To 30', Add	36.83		
	For Elevated Installation >30' To 35', Add	42.10		
	For Elevated Installation >35' To 40', Add	52.62		
	For Elevated Installation >40', Add	57.88		
	For Work In Restricted Working Space, Add	31.57		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.57		
26 05 33 13-0997	EA 1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	215.95		57.56
	For Elevated Installation >10' To 15', Add	11.51		
	For Elevated Installation >15' To 20', Add	23.02		
	For Elevated Installation >20' To 25', Add	28.78		
	For Elevated Installation >25' To 30', Add	40.29		
	For Elevated Installation >30' To 35', Add	46.04		
	For Elevated Installation >35' To 40', Add	57.56		
	For Elevated Installation >40', Add	63.31		
	For Work In Restricted Working Space, Add	34.53		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.53		
26 05 33 13-0998	EA 1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	273.52		65.78
	For Elevated Installation >10' To 15', Add	13.16		
	For Elevated Installation >15' To 20', Add	26.31		
	For Elevated Installation >20' To 25', Add	32.89		
	For Elevated Installation >25' To 30', Add	46.04		
	For Elevated Installation >30' To 35', Add	52.62		
	For Elevated Installation >35' To 40', Add	65.78		
	For Elevated Installation >40', Add	72.35		
	For Work In Restricted Working Space, Add	39.47		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.47		
26 05 33 13-0999	EA 1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	322.00		72.35
	For Elevated Installation >10' To 15', Add	14.47		
	For Elevated Installation >15' To 20', Add	28.94		
	For Elevated Installation >20' To 25', Add	36.18		
	For Elevated Installation >25' To 30', Add	50.65		
	For Elevated Installation >30' To 35', Add	57.88		
	For Elevated Installation >35' To 40', Add	72.36		
	For Elevated Installation >40', Add	79.59		
	For Work In Restricted Working Space, Add	43.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.41		
26 05 33 13-1000	EA 2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	426.83		84.69
	For Elevated Installation >10' To 15', Add	16.94		
	For Elevated Installation >15' To 20', Add	33.88		
	For Elevated Installation >20' To 25', Add	42.35		
	For Elevated Installation >25' To 30', Add	59.28		
	For Elevated Installation >30' To 35', Add	67.75		
	For Elevated Installation >35' To 40', Add	84.69		
	For Elevated Installation >40', Add	93.16		
	For Work In Restricted Working Space, Add	50.81		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.81		
26 05 33 13-1001	EA 2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	681.55		123.33
	For Elevated Installation >10' To 15', Add	24.67		
	For Elevated Installation >15' To 20', Add	49.33		
	For Elevated Installation >20' To 25', Add	61.67		
	For Elevated Installation >25' To 30', Add	86.33		
	For Elevated Installation >30' To 35', Add	98.67		
	For Elevated Installation >35' To 40', Add	123.34		
	For Elevated Installation >40', Add	135.67		
	For Work In Restricted Working Space, Add	74.00		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.00		



		Electrical	26
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-1002	EA 3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	900.97		160.33
	For Elevated Installation >10' To 15', Add	32.07		
	For Elevated Installation >15' To 20', Add	64.13		
	For Elevated Installation >20' To 25', Add	80.16		
	For Elevated Installation >25' To 30', Add	112.23		
	For Elevated Installation >30' To 35', Add	128.26		
	For Elevated Installation >35' To 40', Add	160.33		
	For Elevated Installation >40', Add	176.36		
	For Work In Restricted Working Space, Add	96.20		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.20		
26 05 33 13-1003	EA 3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,228.76		197.33
	For Elevated Installation >10' To 15', Add	39.47		
	For Elevated Installation >15' To 20', Add	78.93		
	For Elevated Installation >20' To 25', Add	98.67		
	For Elevated Installation >25' To 30', Add	138.13		
	For Elevated Installation >30' To 35', Add	157.86		
	For Elevated Installation >35' To 40', Add	197.33		
	For Elevated Installation >40', Add	217.06		
	For Work In Restricted Working Space, Add	118.40		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.40		
26 05 33 13-1004	EA 4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,380.15		237.62
	For Elevated Installation >10' To 15', Add	47.53		
	For Elevated Installation >15' To 20', Add	95.05		
	For Elevated Installation >20' To 25', Add	118.82		
	For Elevated Installation >25' To 30', Add	166.34		
	For Elevated Installation >30' To 35', Add	190.10		
	For Elevated Installation >35' To 40', Add	237.63		
	For Elevated Installation >40', Add	261.39		
	For Work In Restricted Working Space, Add	142.58		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.58		
26 05 33 13-1005 Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined (26 05 33 13-0802)				
26 05 33 13-1006	EA 1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	30.57		4.93
	For Elevated Installation >10' To 15', Add	0.99		
	For Elevated Installation >15' To 20', Add	1.97		
	For Elevated Installation >20' To 25', Add	2.47		
	For Elevated Installation >25' To 30', Add	3.45		
	For Elevated Installation >30' To 35', Add	3.94		
	For Elevated Installation >35' To 40', Add	4.93		
	For Elevated Installation >40', Add	5.42		
	For Work In Restricted Working Space, Add	2.96		
26 05 33 13-1007	EA 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	34.39		5.75
	For Elevated Installation >10' To 15', Add	1.15		
	For Elevated Installation >15' To 20', Add	2.30		
	For Elevated Installation >20' To 25', Add	2.88		
	For Elevated Installation >25' To 30', Add	4.03		
	For Elevated Installation >30' To 35', Add	4.61		
	For Elevated Installation >35' To 40', Add	5.76		
	For Elevated Installation >40', Add	6.34		
	For Work In Restricted Working Space, Add	3.46		
26 05 33 13-1008	EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	44.80		7.40
	For Elevated Installation >10' To 15', Add	1.48		
	For Elevated Installation >15' To 20', Add	2.96		
	For Elevated Installation >20' To 25', Add	3.70		
	For Elevated Installation >25' To 30', Add	5.18		
	For Elevated Installation >30' To 35', Add	5.92		
	For Elevated Installation >35' To 40', Add	7.40		
	For Elevated Installation >40', Add	8.14		
	For Work In Restricted Working Space, Add	4.44		
26 05 33 13-1009	EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	57.43		9.04
	For Elevated Installation >10' To 15', Add	1.81		
	For Elevated Installation >15' To 20', Add	3.62		
	For Elevated Installation >20' To 25', Add	4.52		
	For Elevated Installation >25' To 30', Add	6.33		
	For Elevated Installation >30' To 35', Add	7.24		
	For Elevated Installation >35' To 40', Add	9.05		
	For Elevated Installation >40', Add	9.95		
	For Work In Restricted Working Space, Add	5.43		
26 05 33 13-1010	EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	64.53		10.68
	For Elevated Installation >10' To 15', Add	2.14		
	For Elevated Installation >15' To 20', Add	4.28		
	For Elevated Installation >20' To 25', Add	5.35		
	For Elevated Installation >25' To 30', Add	7.48		
	For Elevated Installation >30' To 35', Add	8.55		
	For Elevated Installation >35' To 40', Add	10.69		
	For Elevated Installation >40', Add	11.76		
	For Work In Restricted Working Space, Add	6.41		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1011 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	79.51	12.34
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.17	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Work In Restricted Working Space, Add	7.40	
26 05 33 13-1012 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	102.11	13.98
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.59	
For Elevated Installation >20' To 25', Add	6.99	
For Elevated Installation >25' To 30', Add	9.78	
For Elevated Installation >30' To 35', Add	11.18	
For Elevated Installation >35' To 40', Add	13.98	
For Elevated Installation >40', Add	15.37	
For Work In Restricted Working Space, Add	8.39	
26 05 33 13-1013 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	113.63	19.73
For Elevated Installation >10' To 15', Add	3.95	
For Elevated Installation >15' To 20', Add	7.89	
For Elevated Installation >20' To 25', Add	9.87	
For Elevated Installation >25' To 30', Add	13.81	
For Elevated Installation >30' To 35', Add	15.79	
For Elevated Installation >35' To 40', Add	19.74	
For Elevated Installation >40', Add	21.71	
For Work In Restricted Working Space, Add	11.84	
26 05 33 13-1014 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	137.39	22.20
For Elevated Installation >10' To 15', Add	4.44	
For Elevated Installation >15' To 20', Add	8.88	
For Elevated Installation >20' To 25', Add	11.10	
For Elevated Installation >25' To 30', Add	15.54	
For Elevated Installation >30' To 35', Add	17.76	
For Elevated Installation >35' To 40', Add	22.20	
For Elevated Installation >40', Add	24.42	
For Work In Restricted Working Space, Add	13.32	
26 05 33 13-1015 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	148.90	27.95
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.18	
For Elevated Installation >20' To 25', Add	13.98	
For Elevated Installation >25' To 30', Add	19.57	
For Elevated Installation >30' To 35', Add	22.36	
For Elevated Installation >35' To 40', Add	27.96	
For Elevated Installation >40', Add	30.75	
For Work In Restricted Working Space, Add	16.77	
26 05 33 13-1016 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies (26 05 33 13-0802)		
26 05 33 13-1017 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	153.03	39.47
For Elevated Installation >10' To 15', Add	7.89	
For Elevated Installation >15' To 20', Add	15.79	
For Elevated Installation >20' To 25', Add	19.74	
For Elevated Installation >25' To 30', Add	27.63	
For Elevated Installation >30' To 35', Add	31.58	
For Elevated Installation >35' To 40', Add	39.47	
For Elevated Installation >40', Add	43.42	
For Work In Restricted Working Space, Add	23.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.68	
26 05 33 13-1018 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	170.12	45.22
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
For Work In Restricted Working Space, Add	27.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-1019 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	198.25	51.80
For Elevated Installation >10' To 15', Add	10.36	
For Elevated Installation >15' To 20', Add	20.72	
For Elevated Installation >20' To 25', Add	25.90	
For Elevated Installation >25' To 30', Add	36.26	
For Elevated Installation >30' To 35', Add	41.44	
For Elevated Installation >35' To 40', Add	51.80	
For Elevated Installation >40', Add	56.98	
For Work In Restricted Working Space, Add	31.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1020	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	234.69	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.02	
26 05 33 13-1021	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	288.25	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.47	
26 05 33 13-1022	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	349.01	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.36	
26 05 33 13-1023	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	503.98	111.00
			For Elevated Installation >10' To 15', Add	22.20	
			For Elevated Installation >15' To 20', Add	44.40	
			For Elevated Installation >20' To 25', Add	55.50	
			For Elevated Installation >25' To 30', Add	77.70	
			For Elevated Installation >30' To 35', Add	88.80	
			For Elevated Installation >35' To 40', Add	111.00	
			For Elevated Installation >40', Add	122.10	
			For Work In Restricted Working Space, Add	66.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.60	
26 05 33 13-1024	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	648.68	148.00
			For Elevated Installation >10' To 15', Add	29.60	
			For Elevated Installation >15' To 20', Add	59.20	
			For Elevated Installation >20' To 25', Add	74.00	
			For Elevated Installation >25' To 30', Add	103.60	
			For Elevated Installation >30' To 35', Add	118.40	
			For Elevated Installation >35' To 40', Add	148.00	
			For Elevated Installation >40', Add	162.80	
			For Work In Restricted Working Space, Add	88.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.80	
26 05 33 13-1025	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	1,249.77	185.00
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
			For Work In Restricted Working Space, Add	111.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.00	
26 05 33 13-1026	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	1,810.53	225.28
			For Elevated Installation >10' To 15', Add	45.06	
			For Elevated Installation >15' To 20', Add	90.12	
			For Elevated Installation >20' To 25', Add	112.65	
			For Elevated Installation >25' To 30', Add	157.70	
			For Elevated Installation >30' To 35', Add	180.23	
			For Elevated Installation >35' To 40', Add	225.29	
			For Elevated Installation >40', Add	247.82	
			For Work In Restricted Working Space, Add	135.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.17	

26 05 33 13-1027 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel
(RGS) EYD Sealing Conduit Bodies (26 05 33 13-0802)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1028	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	249.46	39.47
			For Elevated Installation >10' To 15', Add	7.89	
			For Elevated Installation >15' To 20', Add	15.79	
			For Elevated Installation >20' To 25', Add	19.74	
			For Elevated Installation >25' To 30', Add	27.63	
			For Elevated Installation >30' To 35', Add	31.58	
			For Elevated Installation >35' To 40', Add	39.47	
			For Elevated Installation >40', Add	43.42	
			For Work In Restricted Working Space, Add	23.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.68	
26 05 33 13-1029	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	269.82	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-1030	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	308.20	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.08	
26 05 33 13-1031	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	345.88	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.02	
26 05 33 13-1032	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	416.25	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.47	
26 05 33 13-1033	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	470.77	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.36	
26 05 33 13-1034	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	662.30	111.00
			For Elevated Installation >10' To 15', Add	22.20	
			For Elevated Installation >15' To 20', Add	44.40	
			For Elevated Installation >20' To 25', Add	55.50	
			For Elevated Installation >25' To 30', Add	77.70	
			For Elevated Installation >30' To 35', Add	88.80	
			For Elevated Installation >35' To 40', Add	111.00	
			For Elevated Installation >40', Add	122.10	
			For Work In Restricted Working Space, Add	66.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.60	
26 05 33 13-1035	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	919.80	148.00
			For Elevated Installation >10' To 15', Add	29.60	
			For Elevated Installation >15' To 20', Add	59.20	
			For Elevated Installation >20' To 25', Add	74.00	
			For Elevated Installation >25' To 30', Add	103.60	
			For Elevated Installation >30' To 35', Add	118.40	
			For Elevated Installation >35' To 40', Add	148.00	
			For Elevated Installation >40', Add	162.80	
			For Work In Restricted Working Space, Add	88.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.80	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1036	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,328.51	185.00
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
			For Work In Restricted Working Space, Add	111.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.00	
26 05 33 13-1037	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,913.57	225.28
			For Elevated Installation >10' To 15', Add	45.06	
			For Elevated Installation >15' To 20', Add	90.12	
			For Elevated Installation >20' To 25', Add	112.65	
			For Elevated Installation >25' To 30', Add	157.70	
			For Elevated Installation >30' To 35', Add	180.23	
			For Elevated Installation >35' To 40', Add	225.29	
			For Elevated Installation >40', Add	247.82	
			For Work In Restricted Working Space, Add	135.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.17	
26 05 33 13-1038 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies (26 05 33 13-0802)					
26 05 33 13-1039	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	203.04	39.47
			For Elevated Installation >10' To 15', Add	7.89	
			For Elevated Installation >15' To 20', Add	15.79	
			For Elevated Installation >20' To 25', Add	19.74	
			For Elevated Installation >25' To 30', Add	27.63	
			For Elevated Installation >30' To 35', Add	31.58	
			For Elevated Installation >35' To 40', Add	39.47	
			For Elevated Installation >40', Add	43.42	
			For Work In Restricted Working Space, Add	23.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.68	
26 05 33 13-1040	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	217.84	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-1041	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	250.21	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.08	
26 05 33 13-1042	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	280.12	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.02	
26 05 33 13-1043	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	377.97	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.47	
26 05 33 13-1044	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	473.08	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1045	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	729.62	111.00
			For Elevated Installation >10' To 15', Add	22.20	
			For Elevated Installation >15' To 20', Add	44.40	
			For Elevated Installation >20' To 25', Add	55.50	
			For Elevated Installation >25' To 30', Add	77.70	
			For Elevated Installation >30' To 35', Add	88.80	
			For Elevated Installation >35' To 40', Add	111.00	
			For Elevated Installation >40', Add	122.10	
			For Work In Restricted Working Space, Add	66.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.60	
26 05 33 13-1046	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,056.78	148.00
			For Elevated Installation >10' To 15', Add	29.60	
			For Elevated Installation >15' To 20', Add	59.20	
			For Elevated Installation >20' To 25', Add	74.00	
			For Elevated Installation >25' To 30', Add	103.60	
			For Elevated Installation >30' To 35', Add	118.40	
			For Elevated Installation >35' To 40', Add	148.00	
			For Elevated Installation >40', Add	162.80	
			For Work In Restricted Working Space, Add	88.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.80	
26 05 33 13-1047	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,328.51	185.00
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
			For Work In Restricted Working Space, Add	111.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.00	
26 05 33 13-1048 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies (26 05 33 13-0802)					
26 05 33 13-1049	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	263.09	39.47
			For Elevated Installation >10' To 15', Add	7.89	
			For Elevated Installation >15' To 20', Add	15.79	
			For Elevated Installation >20' To 25', Add	19.74	
			For Elevated Installation >25' To 30', Add	27.63	
			For Elevated Installation >30' To 35', Add	31.58	
			For Elevated Installation >35' To 40', Add	39.47	
			For Elevated Installation >40', Add	43.42	
			For Work In Restricted Working Space, Add	23.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.68	
26 05 33 13-1050	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	292.56	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13	
26 05 33 13-1051	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	360.78	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.08	
26 05 33 13-1052	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	443.14	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.02	



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MINOR		DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM		UNIT COST	UNIT COST	
26 05 33 13-1053	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	608.28		65.78
		For Elevated Installation >10' To 15', Add	13.16		
		For Elevated Installation >15' To 20', Add	26.31		
		For Elevated Installation >20' To 25', Add	32.89		
		For Elevated Installation >25' To 30', Add	46.04		
		For Elevated Installation >30' To 35', Add	52.62		
		For Elevated Installation >35' To 40', Add	65.78		
		For Elevated Installation >40', Add	72.35		
		For Work In Restricted Working Space, Add	39.47		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.47		
26 05 33 13-1054	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	729.06		78.94
		For Elevated Installation >10' To 15', Add	15.79		
		For Elevated Installation >15' To 20', Add	31.57		
		For Elevated Installation >20' To 25', Add	39.47		
		For Elevated Installation >25' To 30', Add	55.25		
		For Elevated Installation >30' To 35', Add	63.15		
		For Elevated Installation >35' To 40', Add	78.94		
		For Elevated Installation >40', Add	86.83		
		For Work In Restricted Working Space, Add	47.36		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.36		
26 05 33 13-1055 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0802)					
26 05 33 13-1056	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	54.18		15.82
		For Elevated Installation >10' To 15', Add	3.16		
		For Elevated Installation >15' To 20', Add	6.32		
		For Elevated Installation >20' To 25', Add	7.91		
		For Elevated Installation >25' To 30', Add	11.07		
		For Elevated Installation >30' To 35', Add	12.65		
		For Elevated Installation >35' To 40', Add	15.81		
		For Elevated Installation >40', Add	17.39		
		For Work In Restricted Working Space, Add	9.49		
26 05 33 13-1057	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	71.00		18.97
		For Elevated Installation >10' To 15', Add	3.79		
		For Elevated Installation >15' To 20', Add	7.59		
		For Elevated Installation >20' To 25', Add	9.49		
		For Elevated Installation >25' To 30', Add	13.28		
		For Elevated Installation >30' To 35', Add	15.18		
		For Elevated Installation >35' To 40', Add	18.97		
		For Elevated Installation >40', Add	20.87		
		For Work In Restricted Working Space, Add	11.38		
26 05 33 13-1058	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	90.73		25.30
		For Elevated Installation >10' To 15', Add	5.06		
		For Elevated Installation >15' To 20', Add	10.12		
		For Elevated Installation >20' To 25', Add	12.65		
		For Elevated Installation >25' To 30', Add	17.71		
		For Elevated Installation >30' To 35', Add	20.24		
		For Elevated Installation >35' To 40', Add	25.30		
		For Elevated Installation >40', Add	27.82		
		For Work In Restricted Working Space, Add	15.18		
26 05 33 13-1059	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	123.49		31.62
		For Elevated Installation >10' To 15', Add	6.33		
		For Elevated Installation >15' To 20', Add	12.65		
		For Elevated Installation >20' To 25', Add	15.81		
		For Elevated Installation >25' To 30', Add	22.14		
		For Elevated Installation >30' To 35', Add	25.30		
		For Elevated Installation >35' To 40', Add	31.63		
		For Elevated Installation >40', Add	34.79		
		For Work In Restricted Working Space, Add	18.98		
26 05 33 13-1060	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	160.54		37.94
		For Elevated Installation >10' To 15', Add	7.59		
		For Elevated Installation >15' To 20', Add	15.18		
		For Elevated Installation >20' To 25', Add	18.98		
		For Elevated Installation >25' To 30', Add	26.57		
		For Elevated Installation >30' To 35', Add	30.36		
		For Elevated Installation >35' To 40', Add	37.95		
		For Elevated Installation >40', Add	41.75		
		For Work In Restricted Working Space, Add	22.77		
26 05 33 13-1061	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	267.50		44.27
		For Elevated Installation >10' To 15', Add	8.86		
		For Elevated Installation >15' To 20', Add	17.71		
		For Elevated Installation >20' To 25', Add	22.14		
		For Elevated Installation >25' To 30', Add	30.99		
		For Elevated Installation >30' To 35', Add	35.42		
		For Elevated Installation >35' To 40', Add	44.28		
		For Elevated Installation >40', Add	48.70		
		For Work In Restricted Working Space, Add	26.57		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1062 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	382.93	50.59
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.60	
For Elevated Installation >40', Add	55.65	
For Work In Restricted Working Space, Add	30.36	
26 05 33 13-1063 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	475.14	56.93
For Elevated Installation >10' To 15', Add	11.38	
For Elevated Installation >15' To 20', Add	22.77	
For Elevated Installation >20' To 25', Add	28.46	
For Elevated Installation >25' To 30', Add	39.84	
For Elevated Installation >30' To 35', Add	45.54	
For Elevated Installation >35' To 40', Add	56.92	
For Elevated Installation >40', Add	62.61	
For Work In Restricted Working Space, Add	34.15	
26 05 33 13-1064 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	655.97	66.41
For Elevated Installation >10' To 15', Add	13.28	
For Elevated Installation >15' To 20', Add	26.56	
For Elevated Installation >20' To 25', Add	33.21	
For Elevated Installation >25' To 30', Add	46.49	
For Elevated Installation >30' To 35', Add	53.13	
For Elevated Installation >35' To 40', Add	66.41	
For Elevated Installation >40', Add	73.05	
For Work In Restricted Working Space, Add	39.85	
26 05 33 13-1065 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	794.47	75.90
For Elevated Installation >10' To 15', Add	15.18	
For Elevated Installation >15' To 20', Add	30.36	
For Elevated Installation >20' To 25', Add	37.95	
For Elevated Installation >25' To 30', Add	53.13	
For Elevated Installation >30' To 35', Add	60.72	
For Elevated Installation >35' To 40', Add	75.90	
For Elevated Installation >40', Add	83.48	
For Work In Restricted Working Space, Add	45.54	
26 05 33 13-1066 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,271.01	120.17
For Elevated Installation >10' To 15', Add	24.03	
For Elevated Installation >15' To 20', Add	48.07	
For Elevated Installation >20' To 25', Add	60.08	
For Elevated Installation >25' To 30', Add	84.12	
For Elevated Installation >30' To 35', Add	96.13	
For Elevated Installation >35' To 40', Add	120.17	
For Elevated Installation >40', Add	132.18	
For Work In Restricted Working Space, Add	72.10	
26 05 33 13-1067 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,745.53	183.42
For Elevated Installation >10' To 15', Add	36.68	
For Elevated Installation >15' To 20', Add	73.37	
For Elevated Installation >20' To 25', Add	91.71	
For Elevated Installation >25' To 30', Add	128.39	
For Elevated Installation >30' To 35', Add	146.74	
For Elevated Installation >35' To 40', Add	183.42	
For Elevated Installation >40', Add	201.76	
For Work In Restricted Working Space, Add	110.05	
26 05 33 13-1068 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows (26 05 33 13-0802)		
26 05 33 13-1069 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	192.45	39.47
For Elevated Installation >10' To 15', Add	7.89	
For Elevated Installation >15' To 20', Add	15.79	
For Elevated Installation >20' To 25', Add	19.74	
For Elevated Installation >25' To 30', Add	27.63	
For Elevated Installation >30' To 35', Add	31.58	
For Elevated Installation >35' To 40', Add	39.47	
For Elevated Installation >40', Add	43.42	
For Work In Restricted Working Space, Add	23.68	
26 05 33 13-1070 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	226.20	43.58
For Elevated Installation >10' To 15', Add	8.72	
For Elevated Installation >15' To 20', Add	17.43	
For Elevated Installation >20' To 25', Add	21.79	
For Elevated Installation >25' To 30', Add	30.50	
For Elevated Installation >30' To 35', Add	34.86	
For Elevated Installation >35' To 40', Add	43.58	
For Elevated Installation >40', Add	47.93	
For Work In Restricted Working Space, Add	26.15	
26 05 33 13-1071 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	251.18	51.80
For Elevated Installation >10' To 15', Add	10.36	
For Elevated Installation >15' To 20', Add	20.72	
For Elevated Installation >20' To 25', Add	25.90	
For Elevated Installation >25' To 30', Add	36.26	
For Elevated Installation >30' To 35', Add	41.44	
For Elevated Installation >35' To 40', Add	51.80	
For Elevated Installation >40', Add	56.98	
For Work In Restricted Working Space, Add	31.08	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1072	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	354.89	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
26 05 33 13-1073	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	462.46	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
26 05 33 13-1074	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	502.53	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
26 05 33 13-1075	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,154.45	109.35
			For Elevated Installation >10' To 15', Add	21.87	
			For Elevated Installation >15' To 20', Add	43.74	
			For Elevated Installation >20' To 25', Add	54.68	
			For Elevated Installation >25' To 30', Add	76.55	
			For Elevated Installation >30' To 35', Add	87.48	
			For Elevated Installation >35' To 40', Add	109.36	
			For Elevated Installation >40', Add	120.29	
			For Work In Restricted Working Space, Add	65.61	
26 05 33 13-1076	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,231.97	148.00
			For Elevated Installation >10' To 15', Add	29.60	
			For Elevated Installation >15' To 20', Add	59.20	
			For Elevated Installation >20' To 25', Add	74.00	
			For Elevated Installation >25' To 30', Add	103.60	
			For Elevated Installation >30' To 35', Add	118.40	
			For Elevated Installation >35' To 40', Add	148.01	
			For Elevated Installation >40', Add	162.81	
			For Work In Restricted Working Space, Add	88.80	
26 05 33 13-1077	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,991.24	185.00
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.01	
			For Elevated Installation >40', Add	203.51	
			For Work In Restricted Working Space, Add	111.00	
26 05 33 13-1078	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	2,087.55	225.28
			For Elevated Installation >10' To 15', Add	45.06	
			For Elevated Installation >15' To 20', Add	90.12	
			For Elevated Installation >20' To 25', Add	112.65	
			For Elevated Installation >25' To 30', Add	157.71	
			For Elevated Installation >30' To 35', Add	180.24	
			For Elevated Installation >35' To 40', Add	225.30	
			For Elevated Installation >40', Add	247.83	
			For Work In Restricted Working Space, Add	135.18	
26 05 33 13-1079			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0802)		
26 05 33 13-1080	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	273.23	39.47
			For Elevated Installation >10' To 15', Add	7.89	
			For Elevated Installation >15' To 20', Add	15.79	
			For Elevated Installation >20' To 25', Add	19.74	
			For Elevated Installation >25' To 30', Add	27.63	
			For Elevated Installation >30' To 35', Add	31.58	
			For Elevated Installation >35' To 40', Add	39.47	
			For Elevated Installation >40', Add	43.42	
			For Work In Restricted Working Space, Add	23.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1081	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	311.36	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1082	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	598.70	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
26 05 33 13-1083	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	630.44	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
26 05 33 13-1084	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	854.99	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
26 05 33 13-1085	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	915.62	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
26 05 33 13-1086	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,743.55	111.00
			For Elevated Installation >10' To 15', Add	22.20	
			For Elevated Installation >15' To 20', Add	44.40	
			For Elevated Installation >20' To 25', Add	55.50	
			For Elevated Installation >25' To 30', Add	77.70	
			For Elevated Installation >30' To 35', Add	88.80	
			For Elevated Installation >35' To 40', Add	111.00	
			For Elevated Installation >40', Add	122.10	
			For Work In Restricted Working Space, Add	66.60	
26 05 33 13-1087	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,847.62	148.00
			For Elevated Installation >10' To 15', Add	29.60	
			For Elevated Installation >15' To 20', Add	59.20	
			For Elevated Installation >20' To 25', Add	74.00	
			For Elevated Installation >25' To 30', Add	103.60	
			For Elevated Installation >30' To 35', Add	118.40	
			For Elevated Installation >35' To 40', Add	148.00	
			For Elevated Installation >40', Add	162.80	
			For Work In Restricted Working Space, Add	88.80	
26 05 33 13-1088	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	2,693.49	185.00
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
			For Work In Restricted Working Space, Add	111.00	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1089	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	3,056.53	225.28
			For Elevated Installation >10' To 15', Add	45.06	
			For Elevated Installation >15' To 20', Add	90.12	
			For Elevated Installation >20' To 25', Add	112.65	
			For Elevated Installation >25' To 30', Add	157.70	
			For Elevated Installation >30' To 35', Add	180.23	
			For Elevated Installation >35' To 40', Add	225.29	
			For Elevated Installation >40', Add	247.82	
			For Work In Restricted Working Space, Add	135.17	
26 05 33 13-1090 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows (26 05 33 13-0802)					
26 05 33 13-1091	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	107.06	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
26 05 33 13-1092	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	125.23	25.49
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.19	
			For Elevated Installation >20' To 25', Add	12.74	
			For Elevated Installation >25' To 30', Add	17.84	
			For Elevated Installation >30' To 35', Add	20.39	
			For Elevated Installation >35' To 40', Add	25.49	
			For Elevated Installation >40', Add	28.03	
			For Work In Restricted Working Space, Add	15.29	
26 05 33 13-1093	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	149.56	31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
26 05 33 13-1094	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	176.25	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
26 05 33 13-1095 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0802)					
26 05 33 13-1096	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	86.02	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
26 05 33 13-1097	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	99.97	25.49
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.19	
			For Elevated Installation >20' To 25', Add	12.74	
			For Elevated Installation >25' To 30', Add	17.84	
			For Elevated Installation >30' To 35', Add	20.39	
			For Elevated Installation >35' To 40', Add	25.49	
			For Elevated Installation >40', Add	28.03	
			For Work In Restricted Working Space, Add	15.29	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1098	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	137.25	31.24
		For Elevated Installation >10' To 15', Add	6.25	
		For Elevated Installation >15' To 20', Add	12.50	
		For Elevated Installation >20' To 25', Add	15.62	
		For Elevated Installation >25' To 30', Add	21.87	
		For Elevated Installation >30' To 35', Add	25.00	
		For Elevated Installation >35' To 40', Add	31.25	
		For Elevated Installation >40', Add	34.37	
		For Work In Restricted Working Space, Add	18.75	
26 05 33 13-1099	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	176.35	36.18
		For Elevated Installation >10' To 15', Add	7.24	
		For Elevated Installation >15' To 20', Add	14.47	
		For Elevated Installation >20' To 25', Add	18.09	
		For Elevated Installation >25' To 30', Add	25.32	
		For Elevated Installation >30' To 35', Add	28.94	
		For Elevated Installation >35' To 40', Add	36.18	
		For Elevated Installation >40', Add	39.79	
		For Work In Restricted Working Space, Add	21.71	
26 05 33 13-1100	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	213.74	41.11
		For Elevated Installation >10' To 15', Add	8.22	
		For Elevated Installation >15' To 20', Add	16.44	
		For Elevated Installation >20' To 25', Add	20.56	
		For Elevated Installation >25' To 30', Add	28.78	
		For Elevated Installation >30' To 35', Add	32.89	
		For Elevated Installation >35' To 40', Add	41.11	
		For Elevated Installation >40', Add	45.22	
		For Work In Restricted Working Space, Add	24.67	
26 05 33 13-1101	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	301.90	45.22
		For Elevated Installation >10' To 15', Add	9.04	
		For Elevated Installation >15' To 20', Add	18.09	
		For Elevated Installation >20' To 25', Add	22.61	
		For Elevated Installation >25' To 30', Add	31.65	
		For Elevated Installation >30' To 35', Add	36.18	
		For Elevated Installation >35' To 40', Add	45.22	
		For Elevated Installation >40', Add	49.74	
		For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1102	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	410.59	56.74
		For Elevated Installation >10' To 15', Add	11.35	
		For Elevated Installation >15' To 20', Add	22.69	
		For Elevated Installation >20' To 25', Add	28.37	
		For Elevated Installation >25' To 30', Add	39.71	
		For Elevated Installation >30' To 35', Add	45.38	
		For Elevated Installation >35' To 40', Add	56.73	
		For Elevated Installation >40', Add	62.40	
		For Work In Restricted Working Space, Add	34.04	
26 05 33 13-1103		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows (26 05 33 13-0802)		
26 05 33 13-1104	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	107.11	20.56
		For Elevated Installation >10' To 15', Add	4.11	
		For Elevated Installation >15' To 20', Add	8.22	
		For Elevated Installation >20' To 25', Add	10.28	
		For Elevated Installation >25' To 30', Add	14.39	
		For Elevated Installation >30' To 35', Add	16.44	
		For Elevated Installation >35' To 40', Add	20.56	
		For Elevated Installation >40', Add	22.61	
		For Work In Restricted Working Space, Add	12.33	
26 05 33 13-1105	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	128.14	25.49
		For Elevated Installation >10' To 15', Add	5.10	
		For Elevated Installation >15' To 20', Add	10.19	
		For Elevated Installation >20' To 25', Add	12.74	
		For Elevated Installation >25' To 30', Add	17.84	
		For Elevated Installation >30' To 35', Add	20.39	
		For Elevated Installation >35' To 40', Add	25.49	
		For Elevated Installation >40', Add	28.03	
		For Work In Restricted Working Space, Add	15.29	
26 05 33 13-1106	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	149.58	31.24
		For Elevated Installation >10' To 15', Add	6.25	
		For Elevated Installation >15' To 20', Add	12.50	
		For Elevated Installation >20' To 25', Add	15.62	
		For Elevated Installation >25' To 30', Add	21.87	
		For Elevated Installation >30' To 35', Add	25.00	
		For Elevated Installation >35' To 40', Add	31.25	
		For Elevated Installation >40', Add	34.37	
		For Work In Restricted Working Space, Add	18.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1107	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	176.30	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
26 05 33 13-1108			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0802)		
26 05 33 13-1109	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	86.09	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
26 05 33 13-1110	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	99.97	25.49
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.19	
			For Elevated Installation >20' To 25', Add	12.74	
			For Elevated Installation >25' To 30', Add	17.84	
			For Elevated Installation >30' To 35', Add	20.39	
			For Elevated Installation >35' To 40', Add	25.49	
			For Elevated Installation >40', Add	28.03	
			For Work In Restricted Working Space, Add	15.29	
26 05 33 13-1111	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	128.54	31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
26 05 33 13-1112	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	159.42	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
26 05 33 13-1113	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	186.17	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
26 05 33 13-1114	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	213.60	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1115	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	388.08	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1116	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	449.58	77.29	
		For Elevated Installation >10' To 15', Add	15.46		
		For Elevated Installation >15' To 20', Add	30.91		
		For Elevated Installation >20' To 25', Add	38.64		
		For Elevated Installation >25' To 30', Add	54.10		
		For Elevated Installation >30' To 35', Add	61.83		
		For Elevated Installation >35' To 40', Add	77.29		
		For Elevated Installation >40', Add	85.01		
		For Work In Restricted Working Space, Add	46.37		
26 05 33 13-1117	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	486.54	87.15	
		For Elevated Installation >10' To 15', Add	17.43		
		For Elevated Installation >15' To 20', Add	34.86		
		For Elevated Installation >20' To 25', Add	43.58		
		For Elevated Installation >25' To 30', Add	61.01		
		For Elevated Installation >30' To 35', Add	69.72		
		For Elevated Installation >35' To 40', Add	87.16		
		For Elevated Installation >40', Add	95.87		
		For Work In Restricted Working Space, Add	52.29		
26 05 33 13-1118	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	602.58	113.46	
		For Elevated Installation >10' To 15', Add	22.69		
		For Elevated Installation >15' To 20', Add	45.39		
		For Elevated Installation >20' To 25', Add	56.73		
		For Elevated Installation >25' To 30', Add	79.43		
		For Elevated Installation >30' To 35', Add	90.77		
		For Elevated Installation >35' To 40', Add	113.47		
		For Elevated Installation >40', Add	124.81		
		For Work In Restricted Working Space, Add	68.08		
26 05 33 13-1119 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows (26 05 33 13-0802)					
26 05 33 13-1120	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	178.82	39.47	
		For Elevated Installation >10' To 15', Add	7.89		
		For Elevated Installation >15' To 20', Add	15.79		
		For Elevated Installation >20' To 25', Add	19.74		
		For Elevated Installation >25' To 30', Add	27.63		
		For Elevated Installation >30' To 35', Add	31.58		
		For Elevated Installation >35' To 40', Add	39.47		
		For Elevated Installation >40', Add	43.42		
		For Work In Restricted Working Space, Add	23.68		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.68		
26 05 33 13-1121	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	194.24	45.22	
		For Elevated Installation >10' To 15', Add	9.04		
		For Elevated Installation >15' To 20', Add	18.09		
		For Elevated Installation >20' To 25', Add	22.61		
		For Elevated Installation >25' To 30', Add	31.65		
		For Elevated Installation >30' To 35', Add	36.18		
		For Elevated Installation >35' To 40', Add	45.22		
		For Elevated Installation >40', Add	49.74		
		For Work In Restricted Working Space, Add	27.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13		
26 05 33 13-1122	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	213.54	51.80	
		For Elevated Installation >10' To 15', Add	10.36		
		For Elevated Installation >15' To 20', Add	20.72		
		For Elevated Installation >20' To 25', Add	25.90		
		For Elevated Installation >25' To 30', Add	36.26		
		For Elevated Installation >30' To 35', Add	41.44		
		For Elevated Installation >35' To 40', Add	51.80		
		For Elevated Installation >40', Add	56.98		
		For Work In Restricted Working Space, Add	31.08		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.08		
26 05 33 13-1123	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	283.06	60.02	
		For Elevated Installation >10' To 15', Add	12.01		
		For Elevated Installation >15' To 20', Add	24.01		
		For Elevated Installation >20' To 25', Add	30.01		
		For Elevated Installation >25' To 30', Add	42.02		
		For Elevated Installation >30' To 35', Add	48.02		
		For Elevated Installation >35' To 40', Add	60.03		
		For Elevated Installation >40', Add	66.03		
		For Work In Restricted Working Space, Add	36.02		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.02		
26 05 33 13-1124	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	355.99	65.78	
		For Elevated Installation >10' To 15', Add	13.16		
		For Elevated Installation >15' To 20', Add	26.31		
		For Elevated Installation >20' To 25', Add	32.89		
		For Elevated Installation >25' To 30', Add	46.04		
		For Elevated Installation >30' To 35', Add	52.62		
		For Elevated Installation >35' To 40', Add	65.78		
		For Elevated Installation >40', Add	72.35		
		For Work In Restricted Working Space, Add	39.47		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.47		



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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-1125 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover (26 05 33 13-0802)				
26 05 33 13-1126	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	212.17		39.47
	For Elevated Installation >10' To 15', Add	7.89		
	For Elevated Installation >15' To 20', Add	15.79		
	For Elevated Installation >20' To 25', Add	19.74		
	For Elevated Installation >25' To 30', Add	27.63		
	For Elevated Installation >30' To 35', Add	31.58		
	For Elevated Installation >35' To 40', Add	39.47		
	For Elevated Installation >40', Add	43.42		
	For Work In Restricted Working Space, Add	23.68		
26 05 33 13-1127	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	229.64		45.22
	For Elevated Installation >10' To 15', Add	9.04		
	For Elevated Installation >15' To 20', Add	18.09		
	For Elevated Installation >20' To 25', Add	22.61		
	For Elevated Installation >25' To 30', Add	31.65		
	For Elevated Installation >30' To 35', Add	36.18		
	For Elevated Installation >35' To 40', Add	45.22		
	For Elevated Installation >40', Add	49.74		
	For Work In Restricted Working Space, Add	27.13		
26 05 33 13-1128	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	268.01		51.80
	For Elevated Installation >10' To 15', Add	10.36		
	For Elevated Installation >15' To 20', Add	20.72		
	For Elevated Installation >20' To 25', Add	25.90		
	For Elevated Installation >25' To 30', Add	36.26		
	For Elevated Installation >30' To 35', Add	41.44		
	For Elevated Installation >35' To 40', Add	51.80		
	For Elevated Installation >40', Add	56.98		
	For Work In Restricted Working Space, Add	31.08		
26 05 33 13-1129	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	377.59		60.02
	For Elevated Installation >10' To 15', Add	12.01		
	For Elevated Installation >15' To 20', Add	24.01		
	For Elevated Installation >20' To 25', Add	30.01		
	For Elevated Installation >25' To 30', Add	42.02		
	For Elevated Installation >30' To 35', Add	48.02		
	For Elevated Installation >35' To 40', Add	60.03		
	For Elevated Installation >40', Add	66.03		
	For Work In Restricted Working Space, Add	36.02		
26 05 33 13-1130	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	600.94		65.78
	For Elevated Installation >10' To 15', Add	13.16		
	For Elevated Installation >15' To 20', Add	26.31		
	For Elevated Installation >20' To 25', Add	32.89		
	For Elevated Installation >25' To 30', Add	46.04		
	For Elevated Installation >30' To 35', Add	52.62		
	For Elevated Installation >35' To 40', Add	65.78		
	For Elevated Installation >40', Add	72.35		
	For Work In Restricted Working Space, Add	39.47		
26 05 33 13-1131	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	652.42		78.94
	For Elevated Installation >10' To 15', Add	15.79		
	For Elevated Installation >15' To 20', Add	31.57		
	For Elevated Installation >20' To 25', Add	39.47		
	For Elevated Installation >25' To 30', Add	55.25		
	For Elevated Installation >30' To 35', Add	63.15		
	For Elevated Installation >35' To 40', Add	78.94		
	For Elevated Installation >40', Add	86.83		
	For Work In Restricted Working Space, Add	47.36		
26 05 33 13-1132 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover (26 05 33 13-0802)				
26 05 33 13-1133	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	231.09		39.47
	For Elevated Installation >10' To 15', Add	7.89		
	For Elevated Installation >15' To 20', Add	15.79		
	For Elevated Installation >20' To 25', Add	19.74		
	For Elevated Installation >25' To 30', Add	27.63		
	For Elevated Installation >30' To 35', Add	31.58		
	For Elevated Installation >35' To 40', Add	39.47		
	For Elevated Installation >40', Add	43.42		
	For Work In Restricted Working Space, Add	23.68		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1134	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	261.20	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1135	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	286.02	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
26 05 33 13-1136	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	395.89	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
26 05 33 13-1137	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	644.59	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
26 05 33 13-1138	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	692.49	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
26 05 33 13-1139			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover (26 05 33 13-0802)		
26 05 33 13-1140	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	231.24	39.47
			For Elevated Installation >10' To 15', Add	7.89	
			For Elevated Installation >15' To 20', Add	15.79	
			For Elevated Installation >20' To 25', Add	19.74	
			For Elevated Installation >25' To 30', Add	27.63	
			For Elevated Installation >30' To 35', Add	31.58	
			For Elevated Installation >35' To 40', Add	39.47	
			For Elevated Installation >40', Add	43.42	
			For Work In Restricted Working Space, Add	23.68	
26 05 33 13-1141	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	255.62	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1142	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	303.40	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1143	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	409.83	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
26 05 33 13-1144	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	665.39	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
26 05 33 13-1145	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	718.13	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
26 05 33 13-1146 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover (26 05 33 13-0802)					
26 05 33 13-1147	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	283.63	39.47
			For Elevated Installation >10' To 15', Add	7.89	
			For Elevated Installation >15' To 20', Add	15.79	
			For Elevated Installation >20' To 25', Add	19.74	
			For Elevated Installation >25' To 30', Add	27.63	
			For Elevated Installation >30' To 35', Add	31.58	
			For Elevated Installation >35' To 40', Add	39.47	
			For Elevated Installation >40', Add	43.42	
			For Work In Restricted Working Space, Add	23.68	
26 05 33 13-1148	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	313.86	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1149	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	341.28	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
26 05 33 13-1150	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	833.28	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	

26 05 33 13-1151 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0802)
Note: Excludes cover.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1152 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 143.93	143.93	39.47
For Elevated Installation >10' To 15', Add	7.89	
For Elevated Installation >15' To 20', Add	15.79	
For Elevated Installation >20' To 25', Add	19.74	
For Elevated Installation >25' To 30', Add	27.63	
For Elevated Installation >30' To 35', Add	31.58	
For Elevated Installation >35' To 40', Add	39.47	
For Elevated Installation >40', Add	43.42	
For Work In Restricted Working Space, Add	23.68	
26 05 33 13-1153 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 158.94	158.94	45.22
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1154 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 177.98	177.98	51.80
For Elevated Installation >10' To 15', Add	10.36	
For Elevated Installation >15' To 20', Add	20.72	
For Elevated Installation >20' To 25', Add	25.90	
For Elevated Installation >25' To 30', Add	36.26	
For Elevated Installation >30' To 35', Add	41.44	
For Elevated Installation >35' To 40', Add	51.80	
For Elevated Installation >40', Add	56.98	
For Work In Restricted Working Space, Add	31.08	
26 05 33 13-1155 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 158.13	158.13	39.47
For Elevated Installation >10' To 15', Add	7.89	
For Elevated Installation >15' To 20', Add	15.79	
For Elevated Installation >20' To 25', Add	19.74	
For Elevated Installation >25' To 30', Add	27.63	
For Elevated Installation >30' To 35', Add	31.58	
For Elevated Installation >35' To 40', Add	39.47	
For Elevated Installation >40', Add	43.42	
For Work In Restricted Working Space, Add	23.68	
26 05 33 13-1156 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 171.37	171.37	45.22
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1157 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 195.24	195.24	51.80
For Elevated Installation >10' To 15', Add	10.36	
For Elevated Installation >15' To 20', Add	20.72	
For Elevated Installation >20' To 25', Add	25.90	
For Elevated Installation >25' To 30', Add	36.26	
For Elevated Installation >30' To 35', Add	41.44	
For Elevated Installation >35' To 40', Add	51.80	
For Elevated Installation >40', Add	56.98	
For Work In Restricted Working Space, Add	31.08	
26 05 33 13-1158 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0802)		
Note: Excludes cover.		
26 05 33 13-1159 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 150.65	150.65	39.47
For Elevated Installation >10' To 15', Add	7.89	
For Elevated Installation >15' To 20', Add	15.79	
For Elevated Installation >20' To 25', Add	19.74	
For Elevated Installation >25' To 30', Add	27.63	
For Elevated Installation >30' To 35', Add	31.58	
For Elevated Installation >35' To 40', Add	39.47	
For Elevated Installation >40', Add	43.42	
For Work In Restricted Working Space, Add	23.68	
26 05 33 13-1160 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 166.50	166.50	45.22
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1161 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 183.20	183.20	51.80
For Elevated Installation >10' To 15', Add	10.36	
For Elevated Installation >15' To 20', Add	20.72	
For Elevated Installation >20' To 25', Add	25.90	
For Elevated Installation >25' To 30', Add	36.26	
For Elevated Installation >30' To 35', Add	41.44	
For Elevated Installation >35' To 40', Add	51.80	
For Elevated Installation >40', Add	56.98	
For Work In Restricted Working Space, Add	31.08	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1162	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	167.74	39.47
			For Elevated Installation >10' To 15', Add	7.89	
			For Elevated Installation >15' To 20', Add	15.79	
			For Elevated Installation >20' To 25', Add	19.74	
			For Elevated Installation >25' To 30', Add	27.63	
			For Elevated Installation >30' To 35', Add	31.58	
			For Elevated Installation >35' To 40', Add	39.47	
			For Elevated Installation >40', Add	43.42	
			For Work In Restricted Working Space, Add	23.68	
26 05 33 13-1163	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	183.77	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1164	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	208.00	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
26 05 33 13-1165 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers (26 05 33 13-0802)					
26 05 33 13-1166	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	50.07	4.93
			For Elevated Installation >10' To 15', Add	0.99	
			For Elevated Installation >15' To 20', Add	1.97	
			For Elevated Installation >20' To 25', Add	2.47	
			For Elevated Installation >25' To 30', Add	3.45	
			For Elevated Installation >30' To 35', Add	3.94	
			For Elevated Installation >35' To 40', Add	4.93	
			For Elevated Installation >40', Add	5.42	
			For Work In Restricted Working Space, Add	2.96	
26 05 33 13-1167	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	67.77	5.75
			For Elevated Installation >10' To 15', Add	1.15	
			For Elevated Installation >15' To 20', Add	2.30	
			For Elevated Installation >20' To 25', Add	2.88	
			For Elevated Installation >25' To 30', Add	4.03	
			For Elevated Installation >30' To 35', Add	4.61	
			For Elevated Installation >35' To 40', Add	5.76	
			For Elevated Installation >40', Add	6.34	
			For Work In Restricted Working Space, Add	3.46	
26 05 33 13-1168	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	64.08	5.75
			For Elevated Installation >10' To 15', Add	1.15	
			For Elevated Installation >15' To 20', Add	2.30	
			For Elevated Installation >20' To 25', Add	2.88	
			For Elevated Installation >25' To 30', Add	4.03	
			For Elevated Installation >30' To 35', Add	4.61	
			For Elevated Installation >35' To 40', Add	5.76	
			For Elevated Installation >40', Add	6.34	
			For Work In Restricted Working Space, Add	3.46	
26 05 33 13-1169	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	57.20	5.75
			For Elevated Installation >10' To 15', Add	1.15	
			For Elevated Installation >15' To 20', Add	2.30	
			For Elevated Installation >20' To 25', Add	2.88	
			For Elevated Installation >25' To 30', Add	4.03	
			For Elevated Installation >30' To 35', Add	4.61	
			For Elevated Installation >35' To 40', Add	5.76	
			For Elevated Installation >40', Add	6.34	
			For Work In Restricted Working Space, Add	3.46	
26 05 33 13-1170	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover.....	271.68	8.22
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Work In Restricted Working Space, Add	4.94	
26 05 33 13-1171	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover	241.82	8.22
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Work In Restricted Working Space, Add	4.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1172 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies (26 05 33 13-0802)					
Note: Includes covers.					
26 05 33 13-1173	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	299.55	51.80	
		For Elevated Installation >10' To 15', Add	10.36		
		For Elevated Installation >15' To 20', Add	20.72		
		For Elevated Installation >20' To 25', Add	25.90		
		For Elevated Installation >25' To 30', Add	36.26		
		For Elevated Installation >30' To 35', Add	41.44		
		For Elevated Installation >35' To 40', Add	51.80		
		For Elevated Installation >40', Add	56.98		
		For Work In Restricted Working Space, Add	31.08		
26 05 33 13-1174	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	337.14	60.02	
		For Elevated Installation >10' To 15', Add	12.01		
		For Elevated Installation >15' To 20', Add	24.01		
		For Elevated Installation >20' To 25', Add	30.01		
		For Elevated Installation >25' To 30', Add	42.02		
		For Elevated Installation >30' To 35', Add	48.02		
		For Elevated Installation >35' To 40', Add	60.03		
		For Elevated Installation >40', Add	66.03		
		For Work In Restricted Working Space, Add	36.02		
26 05 33 13-1175	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	459.28	65.78	
		For Elevated Installation >10' To 15', Add	13.16		
		For Elevated Installation >15' To 20', Add	26.31		
		For Elevated Installation >20' To 25', Add	32.89		
		For Elevated Installation >25' To 30', Add	46.04		
		For Elevated Installation >30' To 35', Add	52.62		
		For Elevated Installation >35' To 40', Add	65.78		
		For Elevated Installation >40', Add	72.35		
		For Work In Restricted Working Space, Add	39.47		
26 05 33 13-1176	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	547.48	78.94	
		For Elevated Installation >10' To 15', Add	15.79		
		For Elevated Installation >15' To 20', Add	31.57		
		For Elevated Installation >20' To 25', Add	39.47		
		For Elevated Installation >25' To 30', Add	55.25		
		For Elevated Installation >30' To 35', Add	63.15		
		For Elevated Installation >35' To 40', Add	78.94		
		For Elevated Installation >40', Add	86.83		
		For Work In Restricted Working Space, Add	47.36		
26 05 33 13-1177	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	789.82	111.00	
		For Elevated Installation >10' To 15', Add	22.20		
		For Elevated Installation >15' To 20', Add	44.40		
		For Elevated Installation >20' To 25', Add	55.50		
		For Elevated Installation >25' To 30', Add	77.70		
		For Elevated Installation >30' To 35', Add	88.80		
		For Elevated Installation >35' To 40', Add	111.00		
		For Elevated Installation >40', Add	122.10		
		For Work In Restricted Working Space, Add	66.60		
26 05 33 13-1178	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	999.48	148.00	
		For Elevated Installation >10' To 15', Add	29.60		
		For Elevated Installation >15' To 20', Add	59.20		
		For Elevated Installation >20' To 25', Add	74.00		
		For Elevated Installation >25' To 30', Add	103.60		
		For Elevated Installation >30' To 35', Add	118.40		
		For Elevated Installation >35' To 40', Add	148.00		
		For Elevated Installation >40', Add	162.80		
		For Work In Restricted Working Space, Add	88.80		
26 05 33 13-1179	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,453.43	185.00	
		For Elevated Installation >10' To 15', Add	37.00		
		For Elevated Installation >15' To 20', Add	74.00		
		For Elevated Installation >20' To 25', Add	92.50		
		For Elevated Installation >25' To 30', Add	129.50		
		For Elevated Installation >30' To 35', Add	148.00		
		For Elevated Installation >35' To 40', Add	185.00		
		For Elevated Installation >40', Add	203.49		
		For Work In Restricted Working Space, Add	111.00		
26 05 33 13-1180	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,801.89	225.28	
		For Elevated Installation >10' To 15', Add	45.06		
		For Elevated Installation >15' To 20', Add	90.12		
		For Elevated Installation >20' To 25', Add	112.65		
		For Elevated Installation >25' To 30', Add	157.70		
		For Elevated Installation >30' To 35', Add	180.23		
		For Elevated Installation >35' To 40', Add	225.29		
		For Elevated Installation >40', Add	247.82		
		For Work In Restricted Working Space, Add	135.17		
26 05 33 13-1181	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	299.55	51.80	
		For Elevated Installation >10' To 15', Add	10.36		
		For Elevated Installation >15' To 20', Add	20.72		
		For Elevated Installation >20' To 25', Add	25.90		
		For Elevated Installation >25' To 30', Add	36.26		
		For Elevated Installation >30' To 35', Add	41.44		
		For Elevated Installation >35' To 40', Add	51.80		
		For Elevated Installation >40', Add	56.98		
		For Work In Restricted Working Space, Add	31.08		



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1182	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	337.14	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	
26 05 33 13-1183	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	458.08	65.78
			For Elevated Installation >10' To 15', Add	13.16	
			For Elevated Installation >15' To 20', Add	26.31	
			For Elevated Installation >20' To 25', Add	32.89	
			For Elevated Installation >25' To 30', Add	46.04	
			For Elevated Installation >30' To 35', Add	52.62	
			For Elevated Installation >35' To 40', Add	65.78	
			For Elevated Installation >40', Add	72.35	
			For Work In Restricted Working Space, Add	39.47	
26 05 33 13-1184	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	535.32	78.94
			For Elevated Installation >10' To 15', Add	15.79	
			For Elevated Installation >15' To 20', Add	31.57	
			For Elevated Installation >20' To 25', Add	39.47	
			For Elevated Installation >25' To 30', Add	55.25	
			For Elevated Installation >30' To 35', Add	63.15	
			For Elevated Installation >35' To 40', Add	78.94	
			For Elevated Installation >40', Add	86.83	
			For Work In Restricted Working Space, Add	47.36	
26 05 33 13-1185	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	801.02	111.00
			For Elevated Installation >10' To 15', Add	22.20	
			For Elevated Installation >15' To 20', Add	44.40	
			For Elevated Installation >20' To 25', Add	55.50	
			For Elevated Installation >25' To 30', Add	77.70	
			For Elevated Installation >30' To 35', Add	88.80	
			For Elevated Installation >35' To 40', Add	111.00	
			For Elevated Installation >40', Add	122.10	
			For Work In Restricted Working Space, Add	66.60	
26 05 33 13-1186	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,049.71	148.00
			For Elevated Installation >10' To 15', Add	29.60	
			For Elevated Installation >15' To 20', Add	59.20	
			For Elevated Installation >20' To 25', Add	74.00	
			For Elevated Installation >25' To 30', Add	103.60	
			For Elevated Installation >30' To 35', Add	118.40	
			For Elevated Installation >35' To 40', Add	148.00	
			For Elevated Installation >40', Add	162.80	
			For Work In Restricted Working Space, Add	88.80	
26 05 33 13-1187	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	1,514.06	185.00
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
			For Work In Restricted Working Space, Add	111.00	
26 05 33 13-1188	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,839.65	225.28
			For Elevated Installation >10' To 15', Add	45.06	
			For Elevated Installation >15' To 20', Add	90.12	
			For Elevated Installation >20' To 25', Add	112.65	
			For Elevated Installation >25' To 30', Add	157.70	
			For Elevated Installation >30' To 35', Add	180.23	
			For Elevated Installation >35' To 40', Add	225.29	
			For Elevated Installation >40', Add	247.82	
			For Work In Restricted Working Space, Add	135.17	
26 05 33 13-1189	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	299.55	51.80
			For Elevated Installation >10' To 15', Add	10.36	
			For Elevated Installation >15' To 20', Add	20.72	
			For Elevated Installation >20' To 25', Add	25.90	
			For Elevated Installation >25' To 30', Add	36.26	
			For Elevated Installation >30' To 35', Add	41.44	
			For Elevated Installation >35' To 40', Add	51.80	
			For Elevated Installation >40', Add	56.98	
			For Work In Restricted Working Space, Add	31.08	
26 05 33 13-1190	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	337.14	60.02
			For Elevated Installation >10' To 15', Add	12.01	
			For Elevated Installation >15' To 20', Add	24.01	
			For Elevated Installation >20' To 25', Add	30.01	
			For Elevated Installation >25' To 30', Add	42.02	
			For Elevated Installation >30' To 35', Add	48.02	
			For Elevated Installation >35' To 40', Add	60.03	
			For Elevated Installation >40', Add	66.03	
			For Work In Restricted Working Space, Add	36.02	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1191 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	458.08	65.78
For Elevated Installation >10' To 15', Add	13.16	
For Elevated Installation >15' To 20', Add	26.31	
For Elevated Installation >20' To 25', Add	32.89	
For Elevated Installation >25' To 30', Add	46.04	
For Elevated Installation >30' To 35', Add	52.62	
For Elevated Installation >35' To 40', Add	65.78	
For Elevated Installation >40', Add	72.35	
For Work In Restricted Working Space, Add	39.47	
26 05 33 13-1192 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	535.32	78.94
For Elevated Installation >10' To 15', Add	15.79	
For Elevated Installation >15' To 20', Add	31.57	
For Elevated Installation >20' To 25', Add	39.47	
For Elevated Installation >25' To 30', Add	55.25	
For Elevated Installation >30' To 35', Add	63.15	
For Elevated Installation >35' To 40', Add	78.94	
For Elevated Installation >40', Add	86.83	
For Work In Restricted Working Space, Add	47.36	
26 05 33 13-1193 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	801.02	111.00
For Elevated Installation >10' To 15', Add	22.20	
For Elevated Installation >15' To 20', Add	44.40	
For Elevated Installation >20' To 25', Add	55.50	
For Elevated Installation >25' To 30', Add	77.70	
For Elevated Installation >30' To 35', Add	88.80	
For Elevated Installation >35' To 40', Add	111.00	
For Elevated Installation >40', Add	122.10	
For Work In Restricted Working Space, Add	66.60	
26 05 33 13-1194 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,049.71	148.00
For Elevated Installation >10' To 15', Add	29.60	
For Elevated Installation >15' To 20', Add	59.20	
For Elevated Installation >20' To 25', Add	74.00	
For Elevated Installation >25' To 30', Add	103.60	
For Elevated Installation >30' To 35', Add	118.40	
For Elevated Installation >35' To 40', Add	148.00	
For Elevated Installation >40', Add	162.80	
For Work In Restricted Working Space, Add	88.80	
26 05 33 13-1195 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,514.06	185.00
For Elevated Installation >10' To 15', Add	37.00	
For Elevated Installation >15' To 20', Add	74.00	
For Elevated Installation >20' To 25', Add	92.50	
For Elevated Installation >25' To 30', Add	129.50	
For Elevated Installation >30' To 35', Add	148.00	
For Elevated Installation >35' To 40', Add	185.00	
For Elevated Installation >40', Add	203.49	
For Work In Restricted Working Space, Add	111.00	
26 05 33 13-1196 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,839.65	225.28
For Elevated Installation >10' To 15', Add	45.06	
For Elevated Installation >15' To 20', Add	90.12	
For Elevated Installation >20' To 25', Add	112.65	
For Elevated Installation >25' To 30', Add	157.70	
For Elevated Installation >30' To 35', Add	180.23	
For Elevated Installation >35' To 40', Add	225.29	
For Elevated Installation >40', Add	247.82	
For Work In Restricted Working Space, Add	135.17	
26 05 33 13-1197 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	299.55	51.80
For Elevated Installation >10' To 15', Add	10.36	
For Elevated Installation >15' To 20', Add	20.72	
For Elevated Installation >20' To 25', Add	25.90	
For Elevated Installation >25' To 30', Add	36.26	
For Elevated Installation >30' To 35', Add	41.44	
For Elevated Installation >35' To 40', Add	51.80	
For Elevated Installation >40', Add	56.98	
For Work In Restricted Working Space, Add	31.08	
26 05 33 13-1198 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	337.14	60.02
For Elevated Installation >10' To 15', Add	12.01	
For Elevated Installation >15' To 20', Add	24.01	
For Elevated Installation >20' To 25', Add	30.01	
For Elevated Installation >25' To 30', Add	42.02	
For Elevated Installation >30' To 35', Add	48.02	
For Elevated Installation >35' To 40', Add	60.03	
For Elevated Installation >40', Add	66.03	
For Work In Restricted Working Space, Add	36.02	
26 05 33 13-1199 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	459.28	65.78
For Elevated Installation >10' To 15', Add	13.16	
For Elevated Installation >15' To 20', Add	26.31	
For Elevated Installation >20' To 25', Add	32.89	
For Elevated Installation >25' To 30', Add	46.04	
For Elevated Installation >30' To 35', Add	52.62	
For Elevated Installation >35' To 40', Add	65.78	
For Elevated Installation >40', Add	72.35	
For Work In Restricted Working Space, Add	39.47	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1200	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	541.87	78.94
		For Elevated Installation >10' To 15', Add	15.79	
		For Elevated Installation >15' To 20', Add	31.57	
		For Elevated Installation >20' To 25', Add	39.47	
		For Elevated Installation >25' To 30', Add	55.25	
		For Elevated Installation >30' To 35', Add	63.15	
		For Elevated Installation >35' To 40', Add	78.94	
		For Elevated Installation >40', Add	86.83	
		For Work In Restricted Working Space, Add	47.36	
26 05 33 13-1201	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	789.82	111.00
		For Elevated Installation >10' To 15', Add	22.20	
		For Elevated Installation >15' To 20', Add	44.40	
		For Elevated Installation >20' To 25', Add	55.50	
		For Elevated Installation >25' To 30', Add	77.70	
		For Elevated Installation >30' To 35', Add	88.80	
		For Elevated Installation >35' To 40', Add	111.00	
		For Elevated Installation >40', Add	122.10	
		For Work In Restricted Working Space, Add	66.60	
26 05 33 13-1202	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	999.48	148.00
		For Elevated Installation >10' To 15', Add	29.60	
		For Elevated Installation >15' To 20', Add	59.20	
		For Elevated Installation >20' To 25', Add	74.00	
		For Elevated Installation >25' To 30', Add	103.60	
		For Elevated Installation >30' To 35', Add	118.40	
		For Elevated Installation >35' To 40', Add	148.00	
		For Elevated Installation >40', Add	162.80	
		For Work In Restricted Working Space, Add	88.80	
26 05 33 13-1203	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,453.43	185.00
		For Elevated Installation >10' To 15', Add	37.00	
		For Elevated Installation >15' To 20', Add	74.00	
		For Elevated Installation >20' To 25', Add	92.50	
		For Elevated Installation >25' To 30', Add	129.50	
		For Elevated Installation >30' To 35', Add	148.00	
		For Elevated Installation >35' To 40', Add	185.00	
		For Elevated Installation >40', Add	203.49	
		For Work In Restricted Working Space, Add	111.00	
26 05 33 13-1204	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,817.61	225.28
		For Elevated Installation >10' To 15', Add	45.06	
		For Elevated Installation >15' To 20', Add	90.12	
		For Elevated Installation >20' To 25', Add	112.65	
		For Elevated Installation >25' To 30', Add	157.70	
		For Elevated Installation >30' To 35', Add	180.23	
		For Elevated Installation >35' To 40', Add	225.29	
		For Elevated Installation >40', Add	247.82	
		For Work In Restricted Working Space, Add	135.17	
26 05 33 13-1205		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers (26 05 33 13-0802)		
26 05 33 13-1206	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	142.46	7.40
		For Elevated Installation >10' To 15', Add	1.48	
		For Elevated Installation >15' To 20', Add	2.96	
		For Elevated Installation >20' To 25', Add	3.70	
		For Elevated Installation >25' To 30', Add	5.18	
		For Elevated Installation >30' To 35', Add	5.92	
		For Elevated Installation >35' To 40', Add	7.40	
		For Elevated Installation >40', Add	8.14	
		For Work In Restricted Working Space, Add	4.44	
26 05 33 13-1207	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	144.11	8.22
		For Elevated Installation >10' To 15', Add	1.65	
		For Elevated Installation >15' To 20', Add	3.29	
		For Elevated Installation >20' To 25', Add	4.11	
		For Elevated Installation >25' To 30', Add	5.76	
		For Elevated Installation >30' To 35', Add	6.58	
		For Elevated Installation >35' To 40', Add	8.23	
		For Elevated Installation >40', Add	9.05	
		For Work In Restricted Working Space, Add	4.94	
26 05 33 13-1208	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	203.68	11.52
		For Elevated Installation >10' To 15', Add	2.30	
		For Elevated Installation >15' To 20', Add	4.60	
		For Elevated Installation >20' To 25', Add	5.76	
		For Elevated Installation >25' To 30', Add	8.06	
		For Elevated Installation >30' To 35', Add	9.21	
		For Elevated Installation >35' To 40', Add	11.51	
		For Elevated Installation >40', Add	12.66	
		For Work In Restricted Working Space, Add	6.91	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1209 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	206.97	13.16
For Elevated Installation >10' To 15', Add	2.63	
For Elevated Installation >15' To 20', Add	5.26	
For Elevated Installation >20' To 25', Add	6.58	
For Elevated Installation >25' To 30', Add	9.21	
For Elevated Installation >30' To 35', Add	10.52	
For Elevated Installation >35' To 40', Add	13.16	
For Elevated Installation >40', Add	14.47	
For Work In Restricted Working Space, Add	7.89	
26 05 33 13-1210 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	359.07	15.62
For Elevated Installation >10' To 15', Add	3.12	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.93	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.62	
For Elevated Installation >40', Add	17.18	
For Work In Restricted Working Space, Add	9.37	
26 05 33 13-1211 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	367.30	19.73
For Elevated Installation >10' To 15', Add	3.95	
For Elevated Installation >15' To 20', Add	7.89	
For Elevated Installation >20' To 25', Add	9.87	
For Elevated Installation >25' To 30', Add	13.81	
For Elevated Installation >30' To 35', Add	15.79	
For Elevated Installation >35' To 40', Add	19.74	
For Elevated Installation >40', Add	21.71	
For Work In Restricted Working Space, Add	11.84	
26 05 33 13-1212 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	550.55	22.20
For Elevated Installation >10' To 15', Add	4.44	
For Elevated Installation >15' To 20', Add	8.88	
For Elevated Installation >20' To 25', Add	11.10	
For Elevated Installation >25' To 30', Add	15.54	
For Elevated Installation >30' To 35', Add	17.76	
For Elevated Installation >35' To 40', Add	22.20	
For Elevated Installation >40', Add	24.42	
For Work In Restricted Working Space, Add	13.32	
26 05 33 13-1213 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	563.71	28.77
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.51	
For Elevated Installation >20' To 25', Add	14.39	
For Elevated Installation >25' To 30', Add	20.15	
For Elevated Installation >30' To 35', Add	23.02	
For Elevated Installation >35' To 40', Add	28.78	
For Elevated Installation >40', Add	31.66	
For Work In Restricted Working Space, Add	17.27	
26 05 33 13-1214 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings (26 05 33 13-0802)		
26 05 33 13-1215 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	248.09	20.56
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.22	
For Elevated Installation >20' To 25', Add	10.28	
For Elevated Installation >25' To 30', Add	14.39	
For Elevated Installation >30' To 35', Add	16.44	
For Elevated Installation >35' To 40', Add	20.56	
For Elevated Installation >40', Add	22.61	
For Work In Restricted Working Space, Add	12.33	
26 05 33 13-1216 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	293.54	25.49
For Elevated Installation >10' To 15', Add	5.10	
For Elevated Installation >15' To 20', Add	10.19	
For Elevated Installation >20' To 25', Add	12.74	
For Elevated Installation >25' To 30', Add	17.84	
For Elevated Installation >30' To 35', Add	20.39	
For Elevated Installation >35' To 40', Add	25.49	
For Elevated Installation >40', Add	28.03	
For Work In Restricted Working Space, Add	15.29	
26 05 33 13-1217 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	347.84	31.24
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
For Work In Restricted Working Space, Add	18.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1218	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	427.70	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
26 05 33 13-1219	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	569.21	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
26 05 33 13-1220	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	783.97	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1221	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,116.88	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
26 05 33 13-1222	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,391.15	77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.91	
			For Elevated Installation >20' To 25', Add	38.64	
			For Elevated Installation >25' To 30', Add	54.10	
			For Elevated Installation >30' To 35', Add	61.83	
			For Elevated Installation >35' To 40', Add	77.29	
			For Elevated Installation >40', Add	85.01	
			For Work In Restricted Working Space, Add	46.37	
26 05 33 13-1223	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,944.37	87.15
			For Elevated Installation >10' To 15', Add	17.43	
			For Elevated Installation >15' To 20', Add	34.86	
			For Elevated Installation >20' To 25', Add	43.58	
			For Elevated Installation >25' To 30', Add	61.01	
			For Elevated Installation >30' To 35', Add	69.72	
			For Elevated Installation >35' To 40', Add	87.16	
			For Elevated Installation >40', Add	95.87	
			For Work In Restricted Working Space, Add	52.29	
26 05 33 13-1224	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,245.53	113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.39	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.43	
			For Elevated Installation >30' To 35', Add	90.77	
			For Elevated Installation >35' To 40', Add	113.47	
			For Elevated Installation >40', Add	124.81	
			For Work In Restricted Working Space, Add	68.08	
26 05 33 13-1225			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper (26 05 33 13-0802)		
26 05 33 13-1226	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	389.89	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1227	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	406.32	25.49
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.19	
			For Elevated Installation >20' To 25', Add	12.74	
			For Elevated Installation >25' To 30', Add	17.84	
			For Elevated Installation >30' To 35', Add	20.39	
			For Elevated Installation >35' To 40', Add	25.49	
			For Elevated Installation >40', Add	28.03	
			For Work In Restricted Working Space, Add	15.29	
26 05 33 13-1228	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	457.28	31.24
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.62	
			For Elevated Installation >25' To 30', Add	21.87	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.25	
			For Elevated Installation >40', Add	34.37	
			For Work In Restricted Working Space, Add	18.75	
26 05 33 13-1229	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	552.76	36.18
			For Elevated Installation >10' To 15', Add	7.24	
			For Elevated Installation >15' To 20', Add	14.47	
			For Elevated Installation >20' To 25', Add	18.09	
			For Elevated Installation >25' To 30', Add	25.32	
			For Elevated Installation >30' To 35', Add	28.94	
			For Elevated Installation >35' To 40', Add	36.18	
			For Elevated Installation >40', Add	39.79	
			For Work In Restricted Working Space, Add	21.71	
26 05 33 13-1230	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	669.06	41.11
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Work In Restricted Working Space, Add	24.67	
26 05 33 13-1231	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	852.72	45.22
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.65	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.22	
			For Elevated Installation >40', Add	49.74	
			For Work In Restricted Working Space, Add	27.13	
26 05 33 13-1232	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,255.36	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
26 05 33 13-1233	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,576.19	77.29
			For Elevated Installation >10' To 15', Add	15.46	
			For Elevated Installation >15' To 20', Add	30.91	
			For Elevated Installation >20' To 25', Add	38.64	
			For Elevated Installation >25' To 30', Add	54.10	
			For Elevated Installation >30' To 35', Add	61.83	
			For Elevated Installation >35' To 40', Add	77.29	
			For Elevated Installation >40', Add	85.01	
			For Work In Restricted Working Space, Add	46.37	
26 05 33 13-1234	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	2,004.11	87.15
			For Elevated Installation >10' To 15', Add	17.43	
			For Elevated Installation >15' To 20', Add	34.86	
			For Elevated Installation >20' To 25', Add	43.58	
			For Elevated Installation >25' To 30', Add	61.01	
			For Elevated Installation >30' To 35', Add	69.72	
			For Elevated Installation >35' To 40', Add	87.16	
			For Elevated Installation >40', Add	95.87	
			For Work In Restricted Working Space, Add	52.29	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1235	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,510.10	113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.39	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.43	
			For Elevated Installation >30' To 35', Add	90.77	
			For Elevated Installation >35' To 40', Add	113.47	
			For Elevated Installation >40', Add	124.81	
			For Work In Restricted Working Space, Add	68.08	
26 05 33 13-1236 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0802)					
26 05 33 13-1237	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	83.06	9.86
			For Elevated Installation >10' To 15', Add	1.97	
			For Elevated Installation >15' To 20', Add	3.95	
			For Elevated Installation >20' To 25', Add	4.93	
			For Elevated Installation >25' To 30', Add	6.91	
			For Elevated Installation >30' To 35', Add	7.89	
			For Elevated Installation >35' To 40', Add	9.87	
			For Elevated Installation >40', Add	10.85	
			For Work In Restricted Working Space, Add	5.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.92	
26 05 33 13-1238	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	90.66	12.34
			For Elevated Installation >10' To 15', Add	2.47	
			For Elevated Installation >15' To 20', Add	4.93	
			For Elevated Installation >20' To 25', Add	6.17	
			For Elevated Installation >25' To 30', Add	8.63	
			For Elevated Installation >30' To 35', Add	9.86	
			For Elevated Installation >35' To 40', Add	12.33	
			For Elevated Installation >40', Add	13.56	
			For Work In Restricted Working Space, Add	7.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 33 13-1239	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	100.20	14.80
			For Elevated Installation >10' To 15', Add	2.96	
			For Elevated Installation >15' To 20', Add	5.92	
			For Elevated Installation >20' To 25', Add	7.40	
			For Elevated Installation >25' To 30', Add	10.36	
			For Elevated Installation >30' To 35', Add	11.84	
			For Elevated Installation >35' To 40', Add	14.80	
			For Elevated Installation >40', Add	16.28	
			For Work In Restricted Working Space, Add	8.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.88	
26 05 33 13-1240	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	113.86	18.09
			For Elevated Installation >10' To 15', Add	3.62	
			For Elevated Installation >15' To 20', Add	7.24	
			For Elevated Installation >20' To 25', Add	9.05	
			For Elevated Installation >25' To 30', Add	12.66	
			For Elevated Installation >30' To 35', Add	14.47	
			For Elevated Installation >35' To 40', Add	18.09	
			For Elevated Installation >40', Add	19.90	
			For Work In Restricted Working Space, Add	10.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.85	
26 05 33 13-1241	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	151.75	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-1242	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	184.66	23.02
			For Elevated Installation >10' To 15', Add	4.60	
			For Elevated Installation >15' To 20', Add	9.21	
			For Elevated Installation >20' To 25', Add	11.51	
			For Elevated Installation >25' To 30', Add	16.11	
			For Elevated Installation >30' To 35', Add	18.42	
			For Elevated Installation >35' To 40', Add	23.02	
			For Elevated Installation >40', Add	25.32	
			For Work In Restricted Working Space, Add	13.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.81	
26 05 33 13-1243	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	262.81	28.77
			For Elevated Installation >10' To 15', Add	5.76	
			For Elevated Installation >15' To 20', Add	11.51	
			For Elevated Installation >20' To 25', Add	14.39	
			For Elevated Installation >25' To 30', Add	20.15	
			For Elevated Installation >30' To 35', Add	23.02	
			For Elevated Installation >35' To 40', Add	28.78	
			For Elevated Installation >40', Add	31.66	
			For Work In Restricted Working Space, Add	17.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.27	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1244 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	343.48	38.65
For Elevated Installation >10' To 15', Add	7.73	
For Elevated Installation >15' To 20', Add	15.46	
For Elevated Installation >20' To 25', Add	19.32	
For Elevated Installation >25' To 30', Add	27.05	
For Elevated Installation >30' To 35', Add	30.92	
For Elevated Installation >35' To 40', Add	38.65	
For Elevated Installation >40', Add	42.51	
For Work In Restricted Working Space, Add	23.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.19	
26 05 33 13-1245 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	436.43	43.58
For Elevated Installation >10' To 15', Add	8.72	
For Elevated Installation >15' To 20', Add	17.43	
For Elevated Installation >20' To 25', Add	21.79	
For Elevated Installation >25' To 30', Add	30.50	
For Elevated Installation >30' To 35', Add	34.86	
For Elevated Installation >35' To 40', Add	43.58	
For Elevated Installation >40', Add	47.93	
For Work In Restricted Working Space, Add	26.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.15	
26 05 33 13-1246 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	549.62	56.74
For Elevated Installation >10' To 15', Add	11.35	
For Elevated Installation >15' To 20', Add	22.69	
For Elevated Installation >20' To 25', Add	28.37	
For Elevated Installation >25' To 30', Add	39.71	
For Elevated Installation >30' To 35', Add	45.38	
For Elevated Installation >35' To 40', Add	56.73	
For Elevated Installation >40', Add	62.40	
For Work In Restricted Working Space, Add	34.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-1247 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	691.42	92.08
For Elevated Installation >10' To 15', Add	18.42	
For Elevated Installation >15' To 20', Add	36.84	
For Elevated Installation >20' To 25', Add	46.05	
For Elevated Installation >25' To 30', Add	64.46	
For Elevated Installation >30' To 35', Add	73.67	
For Elevated Installation >35' To 40', Add	92.09	
For Elevated Installation >40', Add	101.30	
For Work In Restricted Working Space, Add	55.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.25	
26 05 33 13-1248 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	1,042.79	138.95
For Elevated Installation >10' To 15', Add	27.79	
For Elevated Installation >15' To 20', Add	55.58	
For Elevated Installation >20' To 25', Add	69.48	
For Elevated Installation >25' To 30', Add	97.27	
For Elevated Installation >30' To 35', Add	111.16	
For Elevated Installation >35' To 40', Add	138.96	
For Elevated Installation >40', Add	152.85	
For Work In Restricted Working Space, Add	83.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.37	
26 05 33 13-1249 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0802)		
26 05 33 13-1250 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	123.34	9.86
For Elevated Installation >10' To 15', Add	1.97	
For Elevated Installation >15' To 20', Add	3.95	
For Elevated Installation >20' To 25', Add	4.93	
For Elevated Installation >25' To 30', Add	6.91	
For Elevated Installation >30' To 35', Add	7.89	
For Elevated Installation >35' To 40', Add	9.87	
For Elevated Installation >40', Add	10.85	
For Work In Restricted Working Space, Add	5.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.92	
26 05 33 13-1251 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	131.23	12.34
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.17	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Work In Restricted Working Space, Add	7.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 33 13-1252 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	141.66	14.80
For Elevated Installation >10' To 15', Add	2.96	
For Elevated Installation >15' To 20', Add	5.92	
For Elevated Installation >20' To 25', Add	7.40	
For Elevated Installation >25' To 30', Add	10.36	
For Elevated Installation >30' To 35', Add	11.84	
For Elevated Installation >35' To 40', Add	14.80	
For Elevated Installation >40', Add	16.28	
For Work In Restricted Working Space, Add	8.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.88	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1253	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.21 3.62 7.24 9.05 12.66 14.47 18.09 19.90 10.85 10.85	18.09
26 05 33 13-1254	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.58 4.11 8.22 10.28 14.39 16.44 20.56 22.61 12.33 12.33	20.56
26 05 33 13-1255	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	197.37 4.60 9.21 11.51 16.11 18.42 23.02 25.32 13.81 13.81	23.02
26 05 33 13-1256	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	298.49 5.76 11.51 14.39 20.15 23.02 28.78 31.66 17.27 17.27	28.77
26 05 33 13-1257	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	358.86 7.73 15.46 19.32 27.05 30.92 38.65 42.51 23.19 23.19	38.65
26 05 33 13-1258	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	439.76 8.72 17.43 21.79 30.50 34.86 43.58 47.93 26.15 26.15	43.58
26 05 33 13-1259	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	571.07 11.35 22.69 28.37 39.71 45.38 56.73 62.40 34.04 34.04	56.74
26 05 33 13-1260	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	889.83 18.42 36.84 46.05 64.46 73.67 92.09 101.30 55.25 55.25	92.08

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1261 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,451.67	138.95
For Elevated Installation >10' To 15', Add	27.79	
For Elevated Installation >15' To 20', Add	55.58	
For Elevated Installation >20' To 25', Add	69.48	
For Elevated Installation >25' To 30', Add	97.27	
For Elevated Installation >30' To 35', Add	111.16	
For Elevated Installation >35' To 40', Add	138.96	
For Elevated Installation >40', Add	152.85	
For Work In Restricted Working Space, Add	83.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.37	
26 05 33 13-1262 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0802)		
26 05 33 13-1263 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	132.30	9.86
For Elevated Installation >10' To 15', Add	1.97	
For Elevated Installation >15' To 20', Add	3.95	
For Elevated Installation >20' To 25', Add	4.93	
For Elevated Installation >25' To 30', Add	6.91	
For Elevated Installation >30' To 35', Add	7.89	
For Elevated Installation >35' To 40', Add	9.87	
For Elevated Installation >40', Add	10.85	
For Work In Restricted Working Space, Add	5.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.92	
26 05 33 13-1264 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	139.73	12.34
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.17	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Work In Restricted Working Space, Add	7.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 33 13-1265 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	150.55	14.80
For Elevated Installation >10' To 15', Add	2.96	
For Elevated Installation >15' To 20', Add	5.92	
For Elevated Installation >20' To 25', Add	7.40	
For Elevated Installation >25' To 30', Add	10.36	
For Elevated Installation >30' To 35', Add	11.84	
For Elevated Installation >35' To 40', Add	14.80	
For Elevated Installation >40', Add	16.28	
For Work In Restricted Working Space, Add	8.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.88	
26 05 33 13-1266 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	189.17	18.09
For Elevated Installation >10' To 15', Add	3.62	
For Elevated Installation >15' To 20', Add	7.24	
For Elevated Installation >20' To 25', Add	9.05	
For Elevated Installation >25' To 30', Add	12.66	
For Elevated Installation >30' To 35', Add	14.47	
For Elevated Installation >35' To 40', Add	18.09	
For Elevated Installation >40', Add	19.90	
For Work In Restricted Working Space, Add	10.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.85	
26 05 33 13-1267 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	207.13	20.56
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.22	
For Elevated Installation >20' To 25', Add	10.28	
For Elevated Installation >25' To 30', Add	14.39	
For Elevated Installation >30' To 35', Add	16.44	
For Elevated Installation >35' To 40', Add	20.56	
For Elevated Installation >40', Add	22.61	
For Work In Restricted Working Space, Add	12.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-1268 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	219.84	23.02
For Elevated Installation >10' To 15', Add	4.60	
For Elevated Installation >15' To 20', Add	9.21	
For Elevated Installation >20' To 25', Add	11.51	
For Elevated Installation >25' To 30', Add	16.11	
For Elevated Installation >30' To 35', Add	18.42	
For Elevated Installation >35' To 40', Add	23.02	
For Elevated Installation >40', Add	25.32	
For Work In Restricted Working Space, Add	13.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.81	

26 05 33 13-1269 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0802)



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1270	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	103.26 4.11 8.22 10.28 14.39 16.44 20.56 22.61 12.33	20.56
26 05 33 13-1271	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	114.25 5.10 10.19 12.74 17.84 20.39 25.49 28.03 15.29	25.49
26 05 33 13-1272	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	147.32 6.25 12.50 15.62 21.87 25.00 31.25 34.37 18.75	31.24
26 05 33 13-1273	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	208.88 7.24 14.47 18.09 25.32 28.94 36.18 39.79 21.71	36.18
26 05 33 13-1274	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	246.89 8.22 16.44 20.56 28.78 32.89 41.11 45.22 24.67	41.11
26 05 33 13-1275	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	309.89 9.04 18.09 22.61 31.65 36.18 45.22 49.74 27.13	45.22
26 05 33 13-1276	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	410.56 11.35 22.69 28.37 39.71 45.38 56.73 62.40 34.04	56.74
26 05 33 13-1277	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	523.06 11.35 22.69 28.37 39.71 45.38 56.73 62.40 34.04	56.74
26 05 33 13-1278	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	682.39 17.43 34.86 43.58 61.01 69.72 87.16 95.87 52.29	87.15

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1279 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	879.31	113.46
For Elevated Installation >10' To 15', Add	22.69	
For Elevated Installation >15' To 20', Add	45.39	
For Elevated Installation >20' To 25', Add	56.73	
For Elevated Installation >25' To 30', Add	79.43	
For Elevated Installation >30' To 35', Add	90.77	
For Elevated Installation >35' To 40', Add	113.47	
For Elevated Installation >40', Add	124.81	
For Work In Restricted Working Space, Add	68.08	
26 05 33 13-1280 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,589.37	185.00
For Elevated Installation >10' To 15', Add	37.00	
For Elevated Installation >15' To 20', Add	74.00	
For Elevated Installation >20' To 25', Add	92.50	
For Elevated Installation >25' To 30', Add	129.50	
For Elevated Installation >30' To 35', Add	148.00	
For Elevated Installation >35' To 40', Add	185.00	
For Elevated Installation >40', Add	203.49	
For Work In Restricted Working Space, Add	111.00	
26 05 33 13-1281 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	2,008.09	277.91
For Elevated Installation >10' To 15', Add	55.58	
For Elevated Installation >15' To 20', Add	111.16	
For Elevated Installation >20' To 25', Add	138.96	
For Elevated Installation >25' To 30', Add	194.54	
For Elevated Installation >30' To 35', Add	222.33	
For Elevated Installation >35' To 40', Add	277.91	
For Elevated Installation >40', Add	305.70	
For Work In Restricted Working Space, Add	166.75	
26 05 33 13-1282 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions (26 05 33 13-0802)		
26 05 33 13-1283 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	105.35	20.56
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.22	
For Elevated Installation >20' To 25', Add	10.28	
For Elevated Installation >25' To 30', Add	14.39	
For Elevated Installation >30' To 35', Add	16.44	
For Elevated Installation >35' To 40', Add	20.56	
For Elevated Installation >40', Add	22.61	
For Work In Restricted Working Space, Add	12.33	
26 05 33 13-1284 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	122.24	25.49
For Elevated Installation >10' To 15', Add	5.10	
For Elevated Installation >15' To 20', Add	10.19	
For Elevated Installation >20' To 25', Add	12.74	
For Elevated Installation >25' To 30', Add	17.84	
For Elevated Installation >30' To 35', Add	20.39	
For Elevated Installation >35' To 40', Add	25.49	
For Elevated Installation >40', Add	28.03	
For Work In Restricted Working Space, Add	15.29	
26 05 33 13-1285 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	151.58	31.24
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
For Work In Restricted Working Space, Add	18.75	
26 05 33 13-1286 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	216.70	36.18
For Elevated Installation >10' To 15', Add	7.24	
For Elevated Installation >15' To 20', Add	14.47	
For Elevated Installation >20' To 25', Add	18.09	
For Elevated Installation >25' To 30', Add	25.32	
For Elevated Installation >30' To 35', Add	28.94	
For Elevated Installation >35' To 40', Add	36.18	
For Elevated Installation >40', Add	39.79	
For Work In Restricted Working Space, Add	21.71	
26 05 33 13-1287 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	257.75	41.11
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.56	
For Elevated Installation >25' To 30', Add	28.78	
For Elevated Installation >30' To 35', Add	32.89	
For Elevated Installation >35' To 40', Add	41.11	
For Elevated Installation >40', Add	45.22	
For Work In Restricted Working Space, Add	24.67	
26 05 33 13-1288 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	333.34	45.22
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.09	
For Elevated Installation >20' To 25', Add	22.61	
For Elevated Installation >25' To 30', Add	31.65	
For Elevated Installation >30' To 35', Add	36.18	
For Elevated Installation >35' To 40', Add	45.22	
For Elevated Installation >40', Add	49.74	
For Work In Restricted Working Space, Add	27.13	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1289	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	460.74	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
26 05 33 13-1290	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	574.08	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.37	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
26 05 33 13-1291	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	774.64	87.15
			For Elevated Installation >10' To 15', Add	17.43	
			For Elevated Installation >15' To 20', Add	34.86	
			For Elevated Installation >20' To 25', Add	43.58	
			For Elevated Installation >25' To 30', Add	61.01	
			For Elevated Installation >30' To 35', Add	69.72	
			For Elevated Installation >35' To 40', Add	87.16	
			For Elevated Installation >40', Add	95.87	
			For Work In Restricted Working Space, Add	52.29	
26 05 33 13-1292	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	971.22	113.46
			For Elevated Installation >10' To 15', Add	22.69	
			For Elevated Installation >15' To 20', Add	45.39	
			For Elevated Installation >20' To 25', Add	56.73	
			For Elevated Installation >25' To 30', Add	79.43	
			For Elevated Installation >30' To 35', Add	90.77	
			For Elevated Installation >35' To 40', Add	113.47	
			For Elevated Installation >40', Add	124.81	
			For Work In Restricted Working Space, Add	68.08	
26 05 33 13-1293	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,757.85	185.00
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.00	
			For Elevated Installation >20' To 25', Add	92.50	
			For Elevated Installation >25' To 30', Add	129.50	
			For Elevated Installation >30' To 35', Add	148.00	
			For Elevated Installation >35' To 40', Add	185.00	
			For Elevated Installation >40', Add	203.49	
			For Work In Restricted Working Space, Add	111.00	
26 05 33 13-1294	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,280.13	277.91
			For Elevated Installation >10' To 15', Add	55.58	
			For Elevated Installation >15' To 20', Add	111.16	
			For Elevated Installation >20' To 25', Add	138.96	
			For Elevated Installation >25' To 30', Add	194.54	
			For Elevated Installation >30' To 35', Add	222.33	
			For Elevated Installation >35' To 40', Add	277.91	
			For Elevated Installation >40', Add	305.70	
			For Work In Restricted Working Space, Add	166.75	
26 05 33 13-1295			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings (26 05 33 13-0802)		
26 05 33 13-1296	EA		3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	55.19	6.57
			For Elevated Installation >10' To 15', Add	1.32	
			For Elevated Installation >15' To 20', Add	2.63	
			For Elevated Installation >20' To 25', Add	3.29	
			For Elevated Installation >25' To 30', Add	4.60	
			For Elevated Installation >30' To 35', Add	5.26	
			For Elevated Installation >35' To 40', Add	6.58	
			For Elevated Installation >40', Add	7.23	
			For Work In Restricted Working Space, Add	3.95	
26 05 33 13-1297	EA		1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	61.02	8.22
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Work In Restricted Working Space, Add	4.94	
26 05 33 13-1298	EA		1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	68.87	8.22
			For Elevated Installation >10' To 15', Add	1.65	
			For Elevated Installation >15' To 20', Add	3.29	
			For Elevated Installation >20' To 25', Add	4.11	
			For Elevated Installation >25' To 30', Add	5.76	
			For Elevated Installation >30' To 35', Add	6.58	
			For Elevated Installation >35' To 40', Add	8.23	
			For Elevated Installation >40', Add	9.05	
			For Work In Restricted Working Space, Add	4.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1299 EA 1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	84.59	9.04
For Elevated Installation >10' To 15', Add	1.81	
For Elevated Installation >15' To 20', Add	3.62	
For Elevated Installation >20' To 25', Add	4.52	
For Elevated Installation >25' To 30', Add	6.33	
For Elevated Installation >30' To 35', Add	7.24	
For Elevated Installation >35' To 40', Add	9.05	
For Elevated Installation >40', Add	9.95	
For Work In Restricted Working Space, Add	5.43	
26 05 33 13-1300 EA 1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	89.12	9.04
For Elevated Installation >10' To 15', Add	1.81	
For Elevated Installation >15' To 20', Add	3.62	
For Elevated Installation >20' To 25', Add	4.52	
For Elevated Installation >25' To 30', Add	6.33	
For Elevated Installation >30' To 35', Add	7.24	
For Elevated Installation >35' To 40', Add	9.05	
For Elevated Installation >40', Add	9.95	
For Work In Restricted Working Space, Add	5.43	
26 05 33 13-1301 EA 1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	77.89	10.68
For Elevated Installation >10' To 15', Add	2.14	
For Elevated Installation >15' To 20', Add	4.28	
For Elevated Installation >20' To 25', Add	5.35	
For Elevated Installation >25' To 30', Add	7.48	
For Elevated Installation >30' To 35', Add	8.55	
For Elevated Installation >35' To 40', Add	10.69	
For Elevated Installation >40', Add	11.76	
For Work In Restricted Working Space, Add	6.41	
26 05 33 13-1302 EA 1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	88.01	10.68
For Elevated Installation >10' To 15', Add	2.14	
For Elevated Installation >15' To 20', Add	4.28	
For Elevated Installation >20' To 25', Add	5.35	
For Elevated Installation >25' To 30', Add	7.48	
For Elevated Installation >30' To 35', Add	8.55	
For Elevated Installation >35' To 40', Add	10.69	
For Elevated Installation >40', Add	11.76	
For Work In Restricted Working Space, Add	6.41	
26 05 33 13-1303 EA 1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	133.49	10.68
For Elevated Installation >10' To 15', Add	2.14	
For Elevated Installation >15' To 20', Add	4.28	
For Elevated Installation >20' To 25', Add	5.35	
For Elevated Installation >25' To 30', Add	7.48	
For Elevated Installation >30' To 35', Add	8.55	
For Elevated Installation >35' To 40', Add	10.69	
For Elevated Installation >40', Add	11.76	
For Work In Restricted Working Space, Add	6.41	
26 05 33 13-1304 EA 2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	148.59	12.34
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.17	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Work In Restricted Working Space, Add	7.40	
26 05 33 13-1305 EA 2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	144.67	12.34
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.17	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Work In Restricted Working Space, Add	7.40	
26 05 33 13-1306 EA 2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	151.96	12.34
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.17	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Work In Restricted Working Space, Add	7.40	
26 05 33 13-1307 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	170.31	12.34
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.17	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Work In Restricted Working Space, Add	7.40	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1308	EA		2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	170.31	14.80
			For Elevated Installation >10' To 15', Add	2.96	
			For Elevated Installation >15' To 20', Add	5.92	
			For Elevated Installation >20' To 25', Add	7.40	
			For Elevated Installation >25' To 30', Add	10.36	
			For Elevated Installation >30' To 35', Add	11.84	
			For Elevated Installation >35' To 40', Add	14.80	
			For Elevated Installation >40', Add	16.28	
			For Work In Restricted Working Space, Add	8.88	
26 05 33 13-1309	EA		3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	217.94	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
26 05 33 13-1310	EA		3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	317.97	23.84
			For Elevated Installation >10' To 15', Add	4.77	
			For Elevated Installation >15' To 20', Add	9.54	
			For Elevated Installation >20' To 25', Add	11.92	
			For Elevated Installation >25' To 30', Add	16.69	
			For Elevated Installation >30' To 35', Add	19.08	
			For Elevated Installation >35' To 40', Add	23.85	
			For Elevated Installation >40', Add	26.23	
			For Work In Restricted Working Space, Add	14.31	
26 05 33 13-1311	EA		4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	425.88	32.89
			For Elevated Installation >10' To 15', Add	6.58	
			For Elevated Installation >15' To 20', Add	13.16	
			For Elevated Installation >20' To 25', Add	16.45	
			For Elevated Installation >25' To 30', Add	23.03	
			For Elevated Installation >30' To 35', Add	26.32	
			For Elevated Installation >35' To 40', Add	32.90	
			For Elevated Installation >40', Add	36.18	
			For Work In Restricted Working Space, Add	19.74	
26 05 33 13-1312	EA		5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	534.43	45.22
			For Elevated Installation >10' To 15', Add	9.05	
			For Elevated Installation >15' To 20', Add	18.09	
			For Elevated Installation >20' To 25', Add	22.61	
			For Elevated Installation >25' To 30', Add	31.66	
			For Elevated Installation >30' To 35', Add	36.18	
			For Elevated Installation >35' To 40', Add	45.23	
			For Elevated Installation >40', Add	49.75	
			For Work In Restricted Working Space, Add	27.14	
26 05 33 13-1313			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples (26 05 33 13-0802)		
26 05 33 13-1314	EA		1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.36	9.86
			For Elevated Installation >10' To 15', Add	1.97	
			For Elevated Installation >15' To 20', Add	3.95	
			For Elevated Installation >20' To 25', Add	4.93	
			For Elevated Installation >25' To 30', Add	6.91	
			For Elevated Installation >30' To 35', Add	7.89	
			For Elevated Installation >35' To 40', Add	9.87	
			For Elevated Installation >40', Add	10.85	
			For Work In Restricted Working Space, Add	5.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.92	
26 05 33 13-1315	EA		3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.62	12.34
			For Elevated Installation >10' To 15', Add	2.47	
			For Elevated Installation >15' To 20', Add	4.93	
			For Elevated Installation >20' To 25', Add	6.17	
			For Elevated Installation >25' To 30', Add	8.63	
			For Elevated Installation >30' To 35', Add	9.86	
			For Elevated Installation >35' To 40', Add	12.33	
			For Elevated Installation >40', Add	13.56	
			For Work In Restricted Working Space, Add	7.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 33 13-1316	EA		1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	50.19	15.62
			For Elevated Installation >10' To 15', Add	3.12	
			For Elevated Installation >15' To 20', Add	6.25	
			For Elevated Installation >20' To 25', Add	7.81	
			For Elevated Installation >25' To 30', Add	10.93	
			For Elevated Installation >30' To 35', Add	12.50	
			For Elevated Installation >35' To 40', Add	15.62	
			For Elevated Installation >40', Add	17.18	
			For Work In Restricted Working Space, Add	9.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.37	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1317	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	59.49	18.09
		For Elevated Installation >10' To 15', Add		3.62	
		For Elevated Installation >15' To 20', Add		7.24	
		For Elevated Installation >20' To 25', Add		9.05	
		For Elevated Installation >25' To 30', Add		12.66	
		For Elevated Installation >30' To 35', Add		14.47	
		For Elevated Installation >35' To 40', Add		18.09	
		For Elevated Installation >40', Add		19.90	
		For Work In Restricted Working Space, Add		10.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.85	
26 05 33 13-1318	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	65.18	20.56
		For Elevated Installation >10' To 15', Add		4.11	
		For Elevated Installation >15' To 20', Add		8.22	
		For Elevated Installation >20' To 25', Add		10.28	
		For Elevated Installation >25' To 30', Add		14.39	
		For Elevated Installation >30' To 35', Add		16.44	
		For Elevated Installation >35' To 40', Add		20.56	
		For Elevated Installation >40', Add		22.61	
		For Work In Restricted Working Space, Add		12.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.33	
26 05 33 13-1319	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	41.27	10.68
		For Elevated Installation >10' To 15', Add		2.14	
		For Elevated Installation >15' To 20', Add		4.28	
		For Elevated Installation >20' To 25', Add		5.35	
		For Elevated Installation >25' To 30', Add		7.48	
		For Elevated Installation >30' To 35', Add		8.55	
		For Elevated Installation >35' To 40', Add		10.69	
		For Elevated Installation >40', Add		11.76	
		For Work In Restricted Working Space, Add		6.41	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.41	
26 05 33 13-1320	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	45.03	12.34
		For Elevated Installation >10' To 15', Add		2.47	
		For Elevated Installation >15' To 20', Add		4.93	
		For Elevated Installation >20' To 25', Add		6.17	
		For Elevated Installation >25' To 30', Add		8.63	
		For Elevated Installation >30' To 35', Add		9.86	
		For Elevated Installation >35' To 40', Add		12.33	
		For Elevated Installation >40', Add		13.56	
		For Work In Restricted Working Space, Add		7.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.40	
26 05 33 13-1321	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	52.62	15.62
		For Elevated Installation >10' To 15', Add		3.12	
		For Elevated Installation >15' To 20', Add		6.25	
		For Elevated Installation >20' To 25', Add		7.81	
		For Elevated Installation >25' To 30', Add		10.93	
		For Elevated Installation >30' To 35', Add		12.50	
		For Elevated Installation >35' To 40', Add		15.62	
		For Elevated Installation >40', Add		17.18	
		For Work In Restricted Working Space, Add		9.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.37	
26 05 33 13-1322	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	62.06	18.09
		For Elevated Installation >10' To 15', Add		3.62	
		For Elevated Installation >15' To 20', Add		7.24	
		For Elevated Installation >20' To 25', Add		9.05	
		For Elevated Installation >25' To 30', Add		12.66	
		For Elevated Installation >30' To 35', Add		14.47	
		For Elevated Installation >35' To 40', Add		18.09	
		For Elevated Installation >40', Add		19.90	
		For Work In Restricted Working Space, Add		10.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.85	
26 05 33 13-1323	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	67.96	20.56
		For Elevated Installation >10' To 15', Add		4.11	
		For Elevated Installation >15' To 20', Add		8.22	
		For Elevated Installation >20' To 25', Add		10.28	
		For Elevated Installation >25' To 30', Add		14.39	
		For Elevated Installation >30' To 35', Add		16.44	
		For Elevated Installation >35' To 40', Add		20.56	
		For Elevated Installation >40', Add		22.61	
		For Work In Restricted Working Space, Add		12.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.33	
26 05 33 13-1324	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	74.09	23.02
		For Elevated Installation >10' To 15', Add		4.60	
		For Elevated Installation >15' To 20', Add		9.21	
		For Elevated Installation >20' To 25', Add		11.51	
		For Elevated Installation >25' To 30', Add		16.11	
		For Elevated Installation >30' To 35', Add		18.42	
		For Elevated Installation >35' To 40', Add		23.02	
		For Elevated Installation >40', Add		25.32	
		For Work In Restricted Working Space, Add		13.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1325	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.44	10.68	
		For Elevated Installation >10' To 15', Add	2.14		
		For Elevated Installation >15' To 20', Add	4.28		
		For Elevated Installation >20' To 25', Add	5.35		
		For Elevated Installation >25' To 30', Add	7.48		
		For Elevated Installation >30' To 35', Add	8.55		
		For Elevated Installation >35' To 40', Add	10.69		
		For Elevated Installation >40', Add	11.76		
		For Work In Restricted Working Space, Add	6.41		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41		
26 05 33 13-1326	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.20	12.34	
		For Elevated Installation >10' To 15', Add	2.47		
		For Elevated Installation >15' To 20', Add	4.93		
		For Elevated Installation >20' To 25', Add	6.17		
		For Elevated Installation >25' To 30', Add	8.63		
		For Elevated Installation >30' To 35', Add	9.86		
		For Elevated Installation >35' To 40', Add	12.33		
		For Elevated Installation >40', Add	13.56		
		For Work In Restricted Working Space, Add	7.40		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40		
26 05 33 13-1327	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	52.93	15.62	
		For Elevated Installation >10' To 15', Add	3.12		
		For Elevated Installation >15' To 20', Add	6.25		
		For Elevated Installation >20' To 25', Add	7.81		
		For Elevated Installation >25' To 30', Add	10.93		
		For Elevated Installation >30' To 35', Add	12.50		
		For Elevated Installation >35' To 40', Add	15.62		
		For Elevated Installation >40', Add	17.18		
		For Work In Restricted Working Space, Add	9.37		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.37		
26 05 33 13-1328	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	62.39	18.09	
		For Elevated Installation >10' To 15', Add	3.62		
		For Elevated Installation >15' To 20', Add	7.23		
		For Elevated Installation >20' To 25', Add	9.04		
		For Elevated Installation >25' To 30', Add	12.66		
		For Elevated Installation >30' To 35', Add	14.47		
		For Elevated Installation >35' To 40', Add	18.09		
		For Elevated Installation >40', Add	19.89		
		For Work In Restricted Working Space, Add	10.85		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.85		
26 05 33 13-1329	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	68.29	20.56	
		For Elevated Installation >10' To 15', Add	4.11		
		For Elevated Installation >15' To 20', Add	8.22		
		For Elevated Installation >20' To 25', Add	10.28		
		For Elevated Installation >25' To 30', Add	14.39		
		For Elevated Installation >30' To 35', Add	16.44		
		For Elevated Installation >35' To 40', Add	20.56		
		For Elevated Installation >40', Add	22.61		
		For Work In Restricted Working Space, Add	12.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33		
26 05 33 13-1330	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	74.96	23.02	
		For Elevated Installation >10' To 15', Add	4.60		
		For Elevated Installation >15' To 20', Add	9.21		
		For Elevated Installation >20' To 25', Add	11.51		
		For Elevated Installation >25' To 30', Add	16.11		
		For Elevated Installation >30' To 35', Add	18.42		
		For Elevated Installation >35' To 40', Add	23.02		
		For Elevated Installation >40', Add	25.32		
		For Work In Restricted Working Space, Add	13.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.81		
26 05 33 13-1331	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.72	10.68	
		For Elevated Installation >10' To 15', Add	2.14		
		For Elevated Installation >15' To 20', Add	4.28		
		For Elevated Installation >20' To 25', Add	5.35		
		For Elevated Installation >25' To 30', Add	7.48		
		For Elevated Installation >30' To 35', Add	8.55		
		For Elevated Installation >35' To 40', Add	10.69		
		For Elevated Installation >40', Add	11.76		
		For Work In Restricted Working Space, Add	6.41		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41		
26 05 33 13-1332	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.49	12.34	
		For Elevated Installation >10' To 15', Add	2.47		
		For Elevated Installation >15' To 20', Add	4.93		
		For Elevated Installation >20' To 25', Add	6.17		
		For Elevated Installation >25' To 30', Add	8.63		
		For Elevated Installation >30' To 35', Add	9.86		
		For Elevated Installation >35' To 40', Add	12.33		
		For Elevated Installation >40', Add	13.56		
		For Work In Restricted Working Space, Add	7.40		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1333	EA	1" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	55.39	15.62
			For Elevated Installation >10' To 15', Add	3.12	
			For Elevated Installation >15' To 20', Add	6.25	
			For Elevated Installation >20' To 25', Add	7.81	
			For Elevated Installation >25' To 30', Add	10.93	
			For Elevated Installation >30' To 35', Add	12.50	
			For Elevated Installation >35' To 40', Add	15.62	
			For Elevated Installation >40', Add	17.18	
			For Work In Restricted Working Space, Add	9.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.37	
26 05 33 13-1334	EA	1-1/4" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.79	18.09
			For Elevated Installation >10' To 15', Add	3.62	
			For Elevated Installation >15' To 20', Add	7.23	
			For Elevated Installation >20' To 25', Add	9.04	
			For Elevated Installation >25' To 30', Add	12.66	
			For Elevated Installation >30' To 35', Add	14.47	
			For Elevated Installation >35' To 40', Add	18.09	
			For Elevated Installation >40', Add	19.89	
			For Work In Restricted Working Space, Add	10.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.85	
26 05 33 13-1335	EA	1-1/2" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	69.84	20.56
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.56	
			For Elevated Installation >40', Add	22.61	
			For Work In Restricted Working Space, Add	12.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-1336	EA	2" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	77.66	23.02
			For Elevated Installation >10' To 15', Add	4.60	
			For Elevated Installation >15' To 20', Add	9.21	
			For Elevated Installation >20' To 25', Add	11.51	
			For Elevated Installation >25' To 30', Add	16.11	
			For Elevated Installation >30' To 35', Add	18.42	
			For Elevated Installation >35' To 40', Add	23.02	
			For Elevated Installation >40', Add	25.32	
			For Work In Restricted Working Space, Add	13.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.81	
26 05 33 13-1337	EA	2-1/2" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	106.08	27.95
			For Elevated Installation >10' To 15', Add	5.59	
			For Elevated Installation >15' To 20', Add	11.18	
			For Elevated Installation >20' To 25', Add	13.98	
			For Elevated Installation >25' To 30', Add	19.57	
			For Elevated Installation >30' To 35', Add	22.36	
			For Elevated Installation >35' To 40', Add	27.95	
			For Elevated Installation >40', Add	30.75	
			For Work In Restricted Working Space, Add	16.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.77	
26 05 33 13-1338	EA	3" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	138.68	38.65
			For Elevated Installation >10' To 15', Add	7.73	
			For Elevated Installation >15' To 20', Add	15.46	
			For Elevated Installation >20' To 25', Add	19.32	
			For Elevated Installation >25' To 30', Add	27.05	
			For Elevated Installation >30' To 35', Add	30.91	
			For Elevated Installation >35' To 40', Add	38.64	
			For Elevated Installation >40', Add	42.50	
			For Work In Restricted Working Space, Add	23.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1339	EA	1/2" x 4"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.89	10.68
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.28	
			For Elevated Installation >20' To 25', Add	5.35	
			For Elevated Installation >25' To 30', Add	7.48	
			For Elevated Installation >30' To 35', Add	8.55	
			For Elevated Installation >35' To 40', Add	10.69	
			For Elevated Installation >40', Add	11.76	
			For Work In Restricted Working Space, Add	6.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-1340	EA	3/4" x 4"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.80	12.34
			For Elevated Installation >10' To 15', Add	2.47	
			For Elevated Installation >15' To 20', Add	4.93	
			For Elevated Installation >20' To 25', Add	6.17	
			For Elevated Installation >25' To 30', Add	8.63	
			For Elevated Installation >30' To 35', Add	9.86	
			For Elevated Installation >35' To 40', Add	12.33	
			For Elevated Installation >40', Add	13.56	
			For Work In Restricted Working Space, Add	7.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1341	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple		55.73	15.62
		For Elevated Installation >10' To 15', Add		3.12	
		For Elevated Installation >15' To 20', Add		6.25	
		For Elevated Installation >20' To 25', Add		7.81	
		For Elevated Installation >25' To 30', Add		10.93	
		For Elevated Installation >30' To 35', Add		12.50	
		For Elevated Installation >35' To 40', Add		15.62	
		For Elevated Installation >40', Add		17.18	
		For Work In Restricted Working Space, Add		9.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.37	
26 05 33 13-1342	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	65.18	18.09
		For Elevated Installation >10' To 15', Add		3.62	
		For Elevated Installation >15' To 20', Add		7.23	
		For Elevated Installation >20' To 25', Add		9.04	
		For Elevated Installation >25' To 30', Add		12.66	
		For Elevated Installation >30' To 35', Add		14.47	
		For Elevated Installation >35' To 40', Add		18.09	
		For Elevated Installation >40', Add		19.89	
		For Work In Restricted Working Space, Add		10.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.85	
26 05 33 13-1343	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	71.38	20.56
		For Elevated Installation >10' To 15', Add		4.11	
		For Elevated Installation >15' To 20', Add		8.22	
		For Elevated Installation >20' To 25', Add		10.28	
		For Elevated Installation >25' To 30', Add		14.39	
		For Elevated Installation >30' To 35', Add		16.44	
		For Elevated Installation >35' To 40', Add		20.56	
		For Elevated Installation >40', Add		22.61	
		For Work In Restricted Working Space, Add		12.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.33	
26 05 33 13-1344	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	80.35	23.02
		For Elevated Installation >10' To 15', Add		4.60	
		For Elevated Installation >15' To 20', Add		9.21	
		For Elevated Installation >20' To 25', Add		11.51	
		For Elevated Installation >25' To 30', Add		16.11	
		For Elevated Installation >30' To 35', Add		18.42	
		For Elevated Installation >35' To 40', Add		23.02	
		For Elevated Installation >40', Add		25.32	
		For Work In Restricted Working Space, Add		13.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.81	
26 05 33 13-1345	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	108.46	27.95
		For Elevated Installation >10' To 15', Add		5.59	
		For Elevated Installation >15' To 20', Add		11.18	
		For Elevated Installation >20' To 25', Add		13.98	
		For Elevated Installation >25' To 30', Add		19.57	
		For Elevated Installation >30' To 35', Add		22.36	
		For Elevated Installation >35' To 40', Add		27.95	
		For Elevated Installation >40', Add		30.75	
		For Work In Restricted Working Space, Add		16.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.77	
26 05 33 13-1346	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	143.81	38.65
		For Elevated Installation >10' To 15', Add		7.73	
		For Elevated Installation >15' To 20', Add		15.46	
		For Elevated Installation >20' To 25', Add		19.32	
		For Elevated Installation >25' To 30', Add		27.05	
		For Elevated Installation >30' To 35', Add		30.91	
		For Elevated Installation >35' To 40', Add		38.64	
		For Elevated Installation >40', Add		42.50	
		For Work In Restricted Working Space, Add		23.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		23.18	
26 05 33 13-1347	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	170.11	43.58
		For Elevated Installation >10' To 15', Add		8.71	
		For Elevated Installation >15' To 20', Add		17.43	
		For Elevated Installation >20' To 25', Add		21.79	
		For Elevated Installation >25' To 30', Add		30.50	
		For Elevated Installation >30' To 35', Add		34.86	
		For Elevated Installation >35' To 40', Add		43.57	
		For Elevated Installation >40', Add		47.93	
		For Work In Restricted Working Space, Add		26.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		26.14	
26 05 33 13-1348	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	202.23	56.74
		For Elevated Installation >10' To 15', Add		11.35	
		For Elevated Installation >15' To 20', Add		22.69	
		For Elevated Installation >20' To 25', Add		28.36	
		For Elevated Installation >25' To 30', Add		39.71	
		For Elevated Installation >30' To 35', Add		45.38	
		For Elevated Installation >35' To 40', Add		56.73	
		For Elevated Installation >40', Add		62.40	
		For Work In Restricted Working Space, Add		34.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		34.04	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1349	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	44.21	10.68
		For Elevated Installation >10' To 15', Add		2.14	
		For Elevated Installation >15' To 20', Add		4.28	
		For Elevated Installation >20' To 25', Add		5.35	
		For Elevated Installation >25' To 30', Add		7.48	
		For Elevated Installation >30' To 35', Add		8.55	
		For Elevated Installation >35' To 40', Add		10.69	
		For Elevated Installation >40', Add		11.76	
		For Work In Restricted Working Space, Add		6.41	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.41	
26 05 33 13-1350	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	48.14	12.34
		For Elevated Installation >10' To 15', Add		2.47	
		For Elevated Installation >15' To 20', Add		4.93	
		For Elevated Installation >20' To 25', Add		6.17	
		For Elevated Installation >25' To 30', Add		8.63	
		For Elevated Installation >30' To 35', Add		9.86	
		For Elevated Installation >35' To 40', Add		12.33	
		For Elevated Installation >40', Add		13.56	
		For Work In Restricted Working Space, Add		7.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.40	
26 05 33 13-1351	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	56.09	15.62
		For Elevated Installation >10' To 15', Add		3.12	
		For Elevated Installation >15' To 20', Add		6.25	
		For Elevated Installation >20' To 25', Add		7.81	
		For Elevated Installation >25' To 30', Add		10.93	
		For Elevated Installation >30' To 35', Add		12.50	
		For Elevated Installation >35' To 40', Add		15.62	
		For Elevated Installation >40', Add		17.18	
		For Work In Restricted Working Space, Add		9.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.37	
26 05 33 13-1352	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	65.83	18.09
		For Elevated Installation >10' To 15', Add		3.62	
		For Elevated Installation >15' To 20', Add		7.23	
		For Elevated Installation >20' To 25', Add		9.04	
		For Elevated Installation >25' To 30', Add		12.66	
		For Elevated Installation >30' To 35', Add		14.47	
		For Elevated Installation >35' To 40', Add		18.09	
		For Elevated Installation >40', Add		19.89	
		For Work In Restricted Working Space, Add		10.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.85	
26 05 33 13-1353	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	72.05	20.56
		For Elevated Installation >10' To 15', Add		4.11	
		For Elevated Installation >15' To 20', Add		8.22	
		For Elevated Installation >20' To 25', Add		10.28	
		For Elevated Installation >25' To 30', Add		14.39	
		For Elevated Installation >30' To 35', Add		16.44	
		For Elevated Installation >35' To 40', Add		20.56	
		For Elevated Installation >40', Add		22.61	
		For Work In Restricted Working Space, Add		12.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.33	
26 05 33 13-1354	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	81.82	23.02
		For Elevated Installation >10' To 15', Add		4.60	
		For Elevated Installation >15' To 20', Add		9.21	
		For Elevated Installation >20' To 25', Add		11.51	
		For Elevated Installation >25' To 30', Add		16.11	
		For Elevated Installation >30' To 35', Add		18.42	
		For Elevated Installation >35' To 40', Add		23.02	
		For Elevated Installation >40', Add		25.32	
		For Work In Restricted Working Space, Add		13.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.81	
26 05 33 13-1355	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	117.95	27.95
		For Elevated Installation >10' To 15', Add		5.59	
		For Elevated Installation >15' To 20', Add		11.18	
		For Elevated Installation >20' To 25', Add		13.98	
		For Elevated Installation >25' To 30', Add		19.57	
		For Elevated Installation >30' To 35', Add		22.36	
		For Elevated Installation >35' To 40', Add		27.95	
		For Elevated Installation >40', Add		30.75	
		For Work In Restricted Working Space, Add		16.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.77	
26 05 33 13-1356	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	151.49	38.65
		For Elevated Installation >10' To 15', Add		7.73	
		For Elevated Installation >15' To 20', Add		15.46	
		For Elevated Installation >20' To 25', Add		19.32	
		For Elevated Installation >25' To 30', Add		27.05	
		For Elevated Installation >30' To 35', Add		30.91	
		For Elevated Installation >35' To 40', Add		38.64	
		For Elevated Installation >40', Add		42.50	
		For Work In Restricted Working Space, Add		23.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		23.18	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1357	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	171.75	43.58	
		For Elevated Installation >10' To 15', Add	8.71		
		For Elevated Installation >15' To 20', Add	17.43		
		For Elevated Installation >20' To 25', Add	21.79		
		For Elevated Installation >25' To 30', Add	30.50		
		For Elevated Installation >30' To 35', Add	34.86		
		For Elevated Installation >35' To 40', Add	43.57		
		For Elevated Installation >40', Add	47.93		
		For Work In Restricted Working Space, Add	26.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.14		
26 05 33 13-1358	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	206.61	56.74	
		For Elevated Installation >10' To 15', Add	11.35		
		For Elevated Installation >15' To 20', Add	22.69		
		For Elevated Installation >20' To 25', Add	28.36		
		For Elevated Installation >25' To 30', Add	39.71		
		For Elevated Installation >30' To 35', Add	45.38		
		For Elevated Installation >35' To 40', Add	56.73		
		For Elevated Installation >40', Add	62.40		
		For Work In Restricted Working Space, Add	34.04		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04		
26 05 33 13-1359	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	301.11	78.11	
		For Elevated Installation >10' To 15', Add	15.62		
		For Elevated Installation >15' To 20', Add	31.24		
		For Elevated Installation >20' To 25', Add	39.05		
		For Elevated Installation >25' To 30', Add	54.67		
		For Elevated Installation >30' To 35', Add	62.48		
		For Elevated Installation >35' To 40', Add	78.11		
		For Elevated Installation >40', Add	85.92		
		For Work In Restricted Working Space, Add	46.86		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.86		
26 05 33 13-1360	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.81	10.68	
		For Elevated Installation >10' To 15', Add	2.14		
		For Elevated Installation >15' To 20', Add	4.28		
		For Elevated Installation >20' To 25', Add	5.35		
		For Elevated Installation >25' To 30', Add	7.48		
		For Elevated Installation >30' To 35', Add	8.55		
		For Elevated Installation >35' To 40', Add	10.69		
		For Elevated Installation >40', Add	11.76		
		For Work In Restricted Working Space, Add	6.41		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41		
26 05 33 13-1361	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.74	12.34	
		For Elevated Installation >10' To 15', Add	2.47		
		For Elevated Installation >15' To 20', Add	4.93		
		For Elevated Installation >20' To 25', Add	6.17		
		For Elevated Installation >25' To 30', Add	8.63		
		For Elevated Installation >30' To 35', Add	9.86		
		For Elevated Installation >35' To 40', Add	12.33		
		For Elevated Installation >40', Add	13.56		
		For Work In Restricted Working Space, Add	7.40		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40		
26 05 33 13-1362	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.74	15.62	
		For Elevated Installation >10' To 15', Add	3.12		
		For Elevated Installation >15' To 20', Add	6.25		
		For Elevated Installation >20' To 25', Add	7.81		
		For Elevated Installation >25' To 30', Add	10.93		
		For Elevated Installation >30' To 35', Add	12.50		
		For Elevated Installation >35' To 40', Add	15.62		
		For Elevated Installation >40', Add	17.18		
		For Work In Restricted Working Space, Add	9.37		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.37		
26 05 33 13-1363	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.04	18.09	
		For Elevated Installation >10' To 15', Add	3.62		
		For Elevated Installation >15' To 20', Add	7.23		
		For Elevated Installation >20' To 25', Add	9.04		
		For Elevated Installation >25' To 30', Add	12.66		
		For Elevated Installation >30' To 35', Add	14.47		
		For Elevated Installation >35' To 40', Add	18.09		
		For Elevated Installation >40', Add	19.89		
		For Work In Restricted Working Space, Add	10.85		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.85		
26 05 33 13-1364	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	73.50	20.56	
		For Elevated Installation >10' To 15', Add	4.11		
		For Elevated Installation >15' To 20', Add	8.22		
		For Elevated Installation >20' To 25', Add	10.28		
		For Elevated Installation >25' To 30', Add	14.39		
		For Elevated Installation >30' To 35', Add	16.44		
		For Elevated Installation >35' To 40', Add	20.56		
		For Elevated Installation >40', Add	22.61		
		For Work In Restricted Working Space, Add	12.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1365 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	83.29	23.02
For Elevated Installation >10' To 15', Add	4.60	
For Elevated Installation >15' To 20', Add	9.21	
For Elevated Installation >20' To 25', Add	11.51	
For Elevated Installation >25' To 30', Add	16.11	
For Elevated Installation >30' To 35', Add	18.42	
For Elevated Installation >35' To 40', Add	23.02	
For Elevated Installation >40', Add	25.32	
For Work In Restricted Working Space, Add	13.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.81	
26 05 33 13-1366 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	127.58	27.95
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.18	
For Elevated Installation >20' To 25', Add	13.98	
For Elevated Installation >25' To 30', Add	19.57	
For Elevated Installation >30' To 35', Add	22.36	
For Elevated Installation >35' To 40', Add	27.95	
For Elevated Installation >40', Add	30.75	
For Work In Restricted Working Space, Add	16.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.77	
26 05 33 13-1367 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	161.70	38.65
For Elevated Installation >10' To 15', Add	7.73	
For Elevated Installation >15' To 20', Add	15.46	
For Elevated Installation >20' To 25', Add	19.32	
For Elevated Installation >25' To 30', Add	27.05	
For Elevated Installation >30' To 35', Add	30.91	
For Elevated Installation >35' To 40', Add	38.64	
For Elevated Installation >40', Add	42.50	
For Work In Restricted Working Space, Add	23.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1368 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	180.95	43.58
For Elevated Installation >10' To 15', Add	8.71	
For Elevated Installation >15' To 20', Add	17.43	
For Elevated Installation >20' To 25', Add	21.79	
For Elevated Installation >25' To 30', Add	30.50	
For Elevated Installation >30' To 35', Add	34.86	
For Elevated Installation >35' To 40', Add	43.57	
For Elevated Installation >40', Add	47.93	
For Work In Restricted Working Space, Add	26.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.14	
26 05 33 13-1369 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	222.12	56.74
For Elevated Installation >10' To 15', Add	11.35	
For Elevated Installation >15' To 20', Add	22.69	
For Elevated Installation >20' To 25', Add	28.36	
For Elevated Installation >25' To 30', Add	39.71	
For Elevated Installation >30' To 35', Add	45.38	
For Elevated Installation >35' To 40', Add	56.73	
For Elevated Installation >40', Add	62.40	
For Work In Restricted Working Space, Add	34.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-1370 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	324.30	78.11
For Elevated Installation >10' To 15', Add	15.62	
For Elevated Installation >15' To 20', Add	31.24	
For Elevated Installation >20' To 25', Add	39.05	
For Elevated Installation >25' To 30', Add	54.67	
For Elevated Installation >30' To 35', Add	62.48	
For Elevated Installation >35' To 40', Add	78.11	
For Elevated Installation >40', Add	85.92	
For Work In Restricted Working Space, Add	46.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.86	
26 05 33 13-1371 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	45.75	10.68
For Elevated Installation >10' To 15', Add	2.14	
For Elevated Installation >15' To 20', Add	4.28	
For Elevated Installation >20' To 25', Add	5.35	
For Elevated Installation >25' To 30', Add	7.48	
For Elevated Installation >30' To 35', Add	8.55	
For Elevated Installation >35' To 40', Add	10.69	
For Elevated Installation >40', Add	11.76	
For Work In Restricted Working Space, Add	6.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-1372 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.65	12.34
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.93	
For Elevated Installation >20' To 25', Add	6.17	
For Elevated Installation >25' To 30', Add	8.63	
For Elevated Installation >30' To 35', Add	9.86	
For Elevated Installation >35' To 40', Add	12.33	
For Elevated Installation >40', Add	13.56	
For Work In Restricted Working Space, Add	7.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1373	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple		58.18	15.62
		For Elevated Installation >10' To 15', Add		3.12	
		For Elevated Installation >15' To 20', Add		6.25	
		For Elevated Installation >20' To 25', Add		7.81	
		For Elevated Installation >25' To 30', Add		10.93	
		For Elevated Installation >30' To 35', Add		12.50	
		For Elevated Installation >35' To 40', Add		15.62	
		For Elevated Installation >40', Add		17.18	
		For Work In Restricted Working Space, Add		9.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.37	
26 05 33 13-1374	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	67.35	18.09
		For Elevated Installation >10' To 15', Add		3.62	
		For Elevated Installation >15' To 20', Add		7.23	
		For Elevated Installation >20' To 25', Add		9.04	
		For Elevated Installation >25' To 30', Add		12.66	
		For Elevated Installation >30' To 35', Add		14.47	
		For Elevated Installation >35' To 40', Add		18.09	
		For Elevated Installation >40', Add		19.89	
		For Work In Restricted Working Space, Add		10.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.85	
26 05 33 13-1375	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	76.43	20.56
		For Elevated Installation >10' To 15', Add		4.11	
		For Elevated Installation >15' To 20', Add		8.22	
		For Elevated Installation >20' To 25', Add		10.28	
		For Elevated Installation >25' To 30', Add		14.39	
		For Elevated Installation >30' To 35', Add		16.44	
		For Elevated Installation >35' To 40', Add		20.56	
		For Elevated Installation >40', Add		22.61	
		For Work In Restricted Working Space, Add		12.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.33	
26 05 33 13-1376	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	90.46	23.02
		For Elevated Installation >10' To 15', Add		4.60	
		For Elevated Installation >15' To 20', Add		9.21	
		For Elevated Installation >20' To 25', Add		11.51	
		For Elevated Installation >25' To 30', Add		16.11	
		For Elevated Installation >30' To 35', Add		18.42	
		For Elevated Installation >35' To 40', Add		23.02	
		For Elevated Installation >40', Add		25.32	
		For Work In Restricted Working Space, Add		13.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.81	
26 05 33 13-1377	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	139.43	27.95
		For Elevated Installation >10' To 15', Add		5.59	
		For Elevated Installation >15' To 20', Add		11.18	
		For Elevated Installation >20' To 25', Add		13.98	
		For Elevated Installation >25' To 30', Add		19.57	
		For Elevated Installation >30' To 35', Add		22.36	
		For Elevated Installation >35' To 40', Add		27.95	
		For Elevated Installation >40', Add		30.75	
		For Work In Restricted Working Space, Add		16.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.77	
26 05 33 13-1378	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	175.66	38.65
		For Elevated Installation >10' To 15', Add		7.73	
		For Elevated Installation >15' To 20', Add		15.46	
		For Elevated Installation >20' To 25', Add		19.32	
		For Elevated Installation >25' To 30', Add		27.05	
		For Elevated Installation >30' To 35', Add		30.91	
		For Elevated Installation >35' To 40', Add		38.64	
		For Elevated Installation >40', Add		42.50	
		For Work In Restricted Working Space, Add		23.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		23.18	
26 05 33 13-1379	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	203.97	43.58
		For Elevated Installation >10' To 15', Add		8.71	
		For Elevated Installation >15' To 20', Add		17.43	
		For Elevated Installation >20' To 25', Add		21.79	
		For Elevated Installation >25' To 30', Add		30.50	
		For Elevated Installation >30' To 35', Add		34.86	
		For Elevated Installation >35' To 40', Add		43.57	
		For Elevated Installation >40', Add		47.93	
		For Work In Restricted Working Space, Add		26.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		26.14	
26 05 33 13-1380	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	245.40	56.74
		For Elevated Installation >10' To 15', Add		11.35	
		For Elevated Installation >15' To 20', Add		22.69	
		For Elevated Installation >20' To 25', Add		28.36	
		For Elevated Installation >25' To 30', Add		39.71	
		For Elevated Installation >30' To 35', Add		45.38	
		For Elevated Installation >35' To 40', Add		56.73	
		For Elevated Installation >40', Add		62.40	
		For Work In Restricted Working Space, Add		34.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		34.04	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1381	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	340.19	78.11	
		For Elevated Installation >10' To 15', Add	15.62		
		For Elevated Installation >15' To 20', Add	31.24		
		For Elevated Installation >20' To 25', Add	39.05		
		For Elevated Installation >25' To 30', Add	54.67		
		For Elevated Installation >30' To 35', Add	62.48		
		For Elevated Installation >35' To 40', Add	78.11		
		For Elevated Installation >40', Add	85.92		
		For Work In Restricted Working Space, Add	46.86		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.86		
26 05 33 13-1382	EA	1 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.73	10.68	
		For Elevated Installation >10' To 15', Add	2.14		
		For Elevated Installation >15' To 20', Add	4.28		
		For Elevated Installation >20' To 25', Add	5.35		
		For Elevated Installation >25' To 30', Add	7.48		
		For Elevated Installation >30' To 35', Add	8.55		
		For Elevated Installation >35' To 40', Add	10.69		
		For Elevated Installation >40', Add	11.76		
		For Work In Restricted Working Space, Add	6.41		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41		
26 05 33 13-1383	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	50.62	12.34	
		For Elevated Installation >10' To 15', Add	2.47		
		For Elevated Installation >15' To 20', Add	4.93		
		For Elevated Installation >20' To 25', Add	6.17		
		For Elevated Installation >25' To 30', Add	8.63		
		For Elevated Installation >30' To 35', Add	9.86		
		For Elevated Installation >35' To 40', Add	12.33		
		For Elevated Installation >40', Add	13.56		
		For Work In Restricted Working Space, Add	7.40		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40		
26 05 33 13-1384	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	59.60	15.62	
		For Elevated Installation >10' To 15', Add	3.12		
		For Elevated Installation >15' To 20', Add	6.25		
		For Elevated Installation >20' To 25', Add	7.81		
		For Elevated Installation >25' To 30', Add	10.93		
		For Elevated Installation >30' To 35', Add	12.50		
		For Elevated Installation >35' To 40', Add	15.62		
		For Elevated Installation >40', Add	17.18		
		For Work In Restricted Working Space, Add	9.37		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.37		
26 05 33 13-1385	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	71.69	18.09	
		For Elevated Installation >10' To 15', Add	3.62		
		For Elevated Installation >15' To 20', Add	7.23		
		For Elevated Installation >20' To 25', Add	9.04		
		For Elevated Installation >25' To 30', Add	12.66		
		For Elevated Installation >30' To 35', Add	14.47		
		For Elevated Installation >35' To 40', Add	18.09		
		For Elevated Installation >40', Add	19.89		
		For Work In Restricted Working Space, Add	10.85		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.85		
26 05 33 13-1386	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	83.42	20.56	
		For Elevated Installation >10' To 15', Add	4.11		
		For Elevated Installation >15' To 20', Add	8.22		
		For Elevated Installation >20' To 25', Add	10.28		
		For Elevated Installation >25' To 30', Add	14.39		
		For Elevated Installation >30' To 35', Add	16.44		
		For Elevated Installation >35' To 40', Add	20.56		
		For Elevated Installation >40', Add	22.61		
		For Work In Restricted Working Space, Add	12.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33		
26 05 33 13-1387	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	101.01	23.02	
		For Elevated Installation >10' To 15', Add	4.60		
		For Elevated Installation >15' To 20', Add	9.21		
		For Elevated Installation >20' To 25', Add	11.51		
		For Elevated Installation >25' To 30', Add	16.11		
		For Elevated Installation >30' To 35', Add	18.42		
		For Elevated Installation >35' To 40', Add	23.02		
		For Elevated Installation >40', Add	25.32		
		For Work In Restricted Working Space, Add	13.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.81		
26 05 33 13-1388	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	151.95	27.95	
		For Elevated Installation >10' To 15', Add	5.59		
		For Elevated Installation >15' To 20', Add	11.18		
		For Elevated Installation >20' To 25', Add	13.98		
		For Elevated Installation >25' To 30', Add	19.57		
		For Elevated Installation >30' To 35', Add	22.36		
		For Elevated Installation >35' To 40', Add	27.95		
		For Elevated Installation >40', Add	30.75		
		For Work In Restricted Working Space, Add	16.77		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.77		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1389	EA		3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	193.56	38.65
			For Elevated Installation >10' To 15', Add	7.73	
			For Elevated Installation >15' To 20', Add	15.46	
			For Elevated Installation >20' To 25', Add	19.32	
			For Elevated Installation >25' To 30', Add	27.05	
			For Elevated Installation >30' To 35', Add	30.91	
			For Elevated Installation >35' To 40', Add	38.64	
			For Elevated Installation >40', Add	42.50	
			For Work In Restricted Working Space, Add	23.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1390	EA		3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	228.14	43.58
			For Elevated Installation >10' To 15', Add	8.71	
			For Elevated Installation >15' To 20', Add	17.43	
			For Elevated Installation >20' To 25', Add	21.79	
			For Elevated Installation >25' To 30', Add	30.50	
			For Elevated Installation >30' To 35', Add	34.86	
			For Elevated Installation >35' To 40', Add	43.57	
			For Elevated Installation >40', Add	47.93	
			For Work In Restricted Working Space, Add	26.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.14	
26 05 33 13-1391	EA		4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	286.14	56.74
			For Elevated Installation >10' To 15', Add	11.35	
			For Elevated Installation >15' To 20', Add	22.69	
			For Elevated Installation >20' To 25', Add	28.36	
			For Elevated Installation >25' To 30', Add	39.71	
			For Elevated Installation >30' To 35', Add	45.38	
			For Elevated Installation >35' To 40', Add	56.73	
			For Elevated Installation >40', Add	62.40	
			For Work In Restricted Working Space, Add	34.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-1392	EA		5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	371.91	78.11
			For Elevated Installation >10' To 15', Add	15.62	
			For Elevated Installation >15' To 20', Add	31.24	
			For Elevated Installation >20' To 25', Add	39.05	
			For Elevated Installation >25' To 30', Add	54.67	
			For Elevated Installation >30' To 35', Add	62.48	
			For Elevated Installation >35' To 40', Add	78.11	
			For Elevated Installation >40', Add	85.92	
			For Work In Restricted Working Space, Add	46.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.86	
26 05 33 13-1393	EA		1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.75	10.68
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.28	
			For Elevated Installation >20' To 25', Add	5.35	
			For Elevated Installation >25' To 30', Add	7.48	
			For Elevated Installation >30' To 35', Add	8.55	
			For Elevated Installation >35' To 40', Add	10.69	
			For Elevated Installation >40', Add	11.76	
			For Work In Restricted Working Space, Add	6.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-1394	EA		3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.75	12.34
			For Elevated Installation >10' To 15', Add	2.47	
			For Elevated Installation >15' To 20', Add	4.93	
			For Elevated Installation >20' To 25', Add	6.17	
			For Elevated Installation >25' To 30', Add	8.63	
			For Elevated Installation >30' To 35', Add	9.86	
			For Elevated Installation >35' To 40', Add	12.33	
			For Elevated Installation >40', Add	13.56	
			For Work In Restricted Working Space, Add	7.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 33 13-1395	EA		1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.22	15.62
			For Elevated Installation >10' To 15', Add	3.12	
			For Elevated Installation >15' To 20', Add	6.25	
			For Elevated Installation >20' To 25', Add	7.81	
			For Elevated Installation >25' To 30', Add	10.93	
			For Elevated Installation >30' To 35', Add	12.50	
			For Elevated Installation >35' To 40', Add	15.62	
			For Elevated Installation >40', Add	17.18	
			For Work In Restricted Working Space, Add	9.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.37	
26 05 33 13-1396	EA		1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	78.81	18.09
			For Elevated Installation >10' To 15', Add	3.62	
			For Elevated Installation >15' To 20', Add	7.23	
			For Elevated Installation >20' To 25', Add	9.04	
			For Elevated Installation >25' To 30', Add	12.66	
			For Elevated Installation >30' To 35', Add	14.47	
			For Elevated Installation >35' To 40', Add	18.09	
			For Elevated Installation >40', Add	19.89	
			For Work In Restricted Working Space, Add	10.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.85	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1397 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	91.87	20.56
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.22	
For Elevated Installation >20' To 25', Add	10.28	
For Elevated Installation >25' To 30', Add	14.39	
For Elevated Installation >30' To 35', Add	16.44	
For Elevated Installation >35' To 40', Add	20.56	
For Elevated Installation >40', Add	22.61	
For Work In Restricted Working Space, Add	12.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-1398 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	109.49	23.02
For Elevated Installation >10' To 15', Add	4.60	
For Elevated Installation >15' To 20', Add	9.21	
For Elevated Installation >20' To 25', Add	11.51	
For Elevated Installation >25' To 30', Add	16.11	
For Elevated Installation >30' To 35', Add	18.42	
For Elevated Installation >35' To 40', Add	23.02	
For Elevated Installation >40', Add	25.32	
For Work In Restricted Working Space, Add	13.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.81	
26 05 33 13-1399 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	168.66	27.95
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.18	
For Elevated Installation >20' To 25', Add	13.98	
For Elevated Installation >25' To 30', Add	19.57	
For Elevated Installation >30' To 35', Add	22.36	
For Elevated Installation >35' To 40', Add	27.95	
For Elevated Installation >40', Add	30.75	
For Work In Restricted Working Space, Add	16.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.77	
26 05 33 13-1400 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	220.38	38.65
For Elevated Installation >10' To 15', Add	7.73	
For Elevated Installation >15' To 20', Add	15.46	
For Elevated Installation >20' To 25', Add	19.32	
For Elevated Installation >25' To 30', Add	27.05	
For Elevated Installation >30' To 35', Add	30.91	
For Elevated Installation >35' To 40', Add	38.64	
For Elevated Installation >40', Add	42.50	
For Work In Restricted Working Space, Add	23.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1401 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	242.98	43.58
For Elevated Installation >10' To 15', Add	8.71	
For Elevated Installation >15' To 20', Add	17.43	
For Elevated Installation >20' To 25', Add	21.79	
For Elevated Installation >25' To 30', Add	30.50	
For Elevated Installation >30' To 35', Add	34.86	
For Elevated Installation >35' To 40', Add	43.57	
For Elevated Installation >40', Add	47.93	
For Work In Restricted Working Space, Add	26.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.14	
26 05 33 13-1402 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	298.64	56.74
For Elevated Installation >10' To 15', Add	11.35	
For Elevated Installation >15' To 20', Add	22.69	
For Elevated Installation >20' To 25', Add	28.36	
For Elevated Installation >25' To 30', Add	39.71	
For Elevated Installation >30' To 35', Add	45.38	
For Elevated Installation >35' To 40', Add	56.73	
For Elevated Installation >40', Add	62.40	
For Work In Restricted Working Space, Add	34.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.04	
26 05 33 13-1403 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	376.43	78.11
For Elevated Installation >10' To 15', Add	15.62	
For Elevated Installation >15' To 20', Add	31.24	
For Elevated Installation >20' To 25', Add	39.05	
For Elevated Installation >25' To 30', Add	54.67	
For Elevated Installation >30' To 35', Add	62.48	
For Elevated Installation >35' To 40', Add	78.11	
For Elevated Installation >40', Add	85.92	
For Work In Restricted Working Space, Add	46.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.86	
26 05 33 13-1404 Aluminum Rigid Conduit (ARC) (26 05 33 13-0058)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1405 Aluminum Rigid Conduit (ARC) With Threaded Coupling (26 05 33 13-1404)		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1406 LF 1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.33	2.53
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.95	
For Work In Restricted Working Space, Add	1.90	
26 05 33 13-1407 LF 3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	8.31	2.79
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.04	
For Work In Restricted Working Space, Add	2.09	
26 05 33 13-1408 LF 1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	9.50	3.04
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.14	
For Work In Restricted Working Space, Add	2.28	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1409	LF	1-1/4"	Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.73 1.23 2.47	3.29
26 05 33 13-1410	LF	1-1/2"	Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	11.97 1.33 2.66	3.54
26 05 33 13-1411	LF	2"	Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	14.28 1.52 3.04	4.05
26 05 33 13-1412	LF	2-1/2"	Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.23 1.90 3.80	5.06
26 05 33 13-1413	LF	3"	Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.83 2.28 4.55	6.07
26 05 33 13-1414	LF	3-1/2"	Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	29.35 2.85 5.69	7.59
26 05 33 13-1415	LF	4"	Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	36.32 3.60 7.21	9.61
26 05 33 13-1416	LF	5"	Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	47.95 4.55 9.11	12.15
26 05 33 13-1417	LF	6"	Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	61.09 5.69 11.38	15.18
26 05 33 13-1418 Aluminum 90 Degree Elbows (26 05 33 13-1404)					
26 05 33 13-1419	EA	1"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	43.60 9.87	13.16
26 05 33 13-1420	EA	1-1/4"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	54.33 11.19	14.92
26 05 33 13-1421	EA	1-1/2"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	65.66 12.90	17.20
26 05 33 13-1422	EA	2"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	82.68 14.80	19.73
26 05 33 13-1423	EA	2-1/2"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	116.28 18.02	24.03
26 05 33 13-1424	EA	3"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	164.59 23.34	31.12
26 05 33 13-1425	EA	3-1/2"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	222.66 26.18	34.91
26 05 33 13-1426	EA	4"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	269.93 32.82	43.77
26 05 33 13-1427	EA	5"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	653.00 53.51	71.34
26 05 33 13-1428	EA	6"	Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	924.87 80.45	107.27
26 05 33 13-1429 Aluminum Bushing Set With Locknut (26 05 33 13-1404)					
26 05 33 13-1430	EA	1/2"	Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.46 3.80 3.80	5.06
26 05 33 13-1431	EA	3/4"	Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.73 4.94 4.94	6.57
26 05 33 13-1432	EA	1"	Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.76 6.07 6.07	8.10
26 05 33 13-1433	EA	1-1/4"	Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.36 6.83 6.83	9.11
26 05 33 13-1434	EA	1-1/2"	Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.58 8.35 8.35	11.13
26 05 33 13-1435	EA	2"	Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.77 10.06 10.06	13.41
26 05 33 13-1436	EA	2-1/2"	Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.39 11.96 11.96	15.94
26 05 33 13-1437	EA	3"	Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.30 13.66 13.66	18.21
26 05 33 13-1438	EA	3-1/2"	Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.33 14.80 14.80	19.73
26 05 33 13-1439	EA	4"	Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.93 15.94 15.94	21.25

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1440 EA 5" Aluminum Bushing Set With Locknut.....	76.85	28.33
For Work In Restricted Working Space, Add	21.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.25	
26 05 33 13-1441 EA 6" Aluminum Bushing Set With Locknut.....	114.51	42.50
For Work In Restricted Working Space, Add	31.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.88	
26 05 33 13-1442 Schedule 40 Polyvinyl Chloride (PVC) Conduit (26 05 33 13-0058)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1443 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings (26 05 33 13-1442)		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1444 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	5.28	1.82
For Schedule 60, Add	0.41	
For Schedule 80, Add	0.71	
26 05 33 13-1445 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	5.96	2.00
For Schedule 60, Add	0.49	
For Schedule 80, Add	0.83	
26 05 33 13-1446 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	7.26	2.33
For Schedule 60, Add	0.65	
For Schedule 80, Add	1.08	
26 05 33 13-1447 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	8.58	2.67
For Schedule 60, Add	0.81	
For Schedule 80, Add	1.33	
26 05 33 13-1448 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	10.06	3.11
For Schedule 60, Add	0.96	
For Schedule 80, Add	1.57	
26 05 33 13-1449 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	11.90	3.57
For Schedule 60, Add	1.20	
For Schedule 80, Add	1.94	
26 05 33 13-1450 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	15.36	4.23
For Schedule 60, Add	1.72	
For Schedule 80, Add	2.73	
26 05 33 13-1451 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	17.93	4.90
For Schedule 60, Add	2.03	
For Schedule 80, Add	3.22	
26 05 33 13-1452 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	21.74	5.79
For Schedule 60, Add	2.54	
For Schedule 80, Add	3.99	
26 05 33 13-1453 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	25.81	7.12
For Schedule 60, Add	2.89	
For Schedule 80, Add	4.58	
26 05 33 13-1454 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	36.71	10.02
For Schedule 60, Add	4.17	
For Schedule 80, Add	6.59	
26 05 33 13-1455 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	48.79	13.35
For Schedule 60, Add	5.52	
For Schedule 80, Add	8.73	
26 05 33 13-1456 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1442)		
See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1457 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	23.50	8.90
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	1.42	
For Schedule 80, Add	2.66	
26 05 33 13-1458 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	25.97	9.80
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	1.59	
For Schedule 80, Add	2.97	
26 05 33 13-1459 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	30.14	11.13
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	1.97	
For Schedule 80, Add	3.59	
26 05 33 13-1460 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	38.96	14.24
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	2.62	
For Schedule 80, Add	4.73	
26 05 33 13-1461 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	49.06	17.81
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	3.36	
For Schedule 80, Add	6.04	
26 05 33 13-1462 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	61.91	22.26
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	4.35	
For Schedule 80, Add	7.76	
26 05 33 13-1463 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	77.88	26.71
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	6.11	
For Schedule 80, Add	10.56	
26 05 33 13-1464 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	96.07	31.16
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	8.44	
For Schedule 80, Add	14.15	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1465	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	119.87 11.05 18.30	37.84
26 05 33 13-1466	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	143.81 13.69 22.51	44.52
26 05 33 13-1467	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	196.37 21.27 33.95	55.65
26 05 33 13-1468	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	239.94 26.60 42.24	66.78
26 05 33 13-1469 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1442)				
26 05 33 13-1470	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	23.50 1.42 2.66	8.90
26 05 33 13-1471	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	25.88 1.57 2.94	9.80
26 05 33 13-1472	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	30.01 1.94 3.55	11.13
26 05 33 13-1473	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	38.60 2.53 4.61	14.24
26 05 33 13-1474	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	48.25 3.16 5.76	17.81
26 05 33 13-1475	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	61.48 4.24 7.61	22.26
26 05 33 13-1476	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	77.07 5.91 10.28	26.71
26 05 33 13-1477	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	95.05 8.18 13.79	31.16
26 05 33 13-1478	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	116.99 10.33 17.30	37.84
26 05 33 13-1479	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	141.34 13.08 21.64	44.52
26 05 33 13-1480	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	193.16 20.47 32.83	55.65
26 05 33 13-1481	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2234 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	230.39 24.21 38.90	66.78
26 05 33 13-1482 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1442)				
26 05 33 13-1483	EA	1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.16 4.68	6.23
26 05 33 13-1484	EA	3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.58 5.34	7.12
26 05 33 13-1485	EA	1" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.09 6.01	8.01
26 05 33 13-1486	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.72 6.68	8.90
26 05 33 13-1487	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.41 8.35	11.13
26 05 33 13-1488	EA	2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.64 10.01	13.35
26 05 33 13-1489	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.70 13.36	17.81

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1490 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	61.35	22.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.70	
26 05 33 13-1491 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	79.59	28.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.71	
26 05 33 13-1492 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	96.59	35.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.71	
26 05 33 13-1493 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	126.55	44.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.39	
26 05 33 13-1494 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	157.51	55.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.73	
26 05 33 13-1495 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1442)		
26 05 33 13-1496 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	18.01	5.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.01	
26 05 33 13-1497 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	20.57	6.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.68	
26 05 33 13-1498 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	23.15	7.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-1499 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	27.37	8.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33 13-1500 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	30.49	8.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.68	
26 05 33 13-1501 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	36.41	10.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.68	
26 05 33 13-1502 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	40.80	11.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.68	
26 05 33 13-1503 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	46.28	13.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.01	
26 05 33 13-1504 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	54.74	15.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-1505 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	60.62	17.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.36	
26 05 33 13-1506 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	75.54	20.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.02	
26 05 33 13-1507 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	84.84	22.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.70	
26 05 33 13-1508 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1442)		
26 05 33 13-1509 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	17.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.14	
26 05 33 13-1510 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	21.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-1511 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	23.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.84	
26 05 33 13-1512 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	26.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.61	
26 05 33 13-1513 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	29.21	11.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35	
26 05 33 13-1514 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	35.37	13.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.01	
26 05 33 13-1515 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	48.15	17.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.36	
26 05 33 13-1516 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	60.59	22.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.70	
26 05 33 13-1517 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	78.61	28.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.71	
26 05 33 13-1518 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	95.59	35.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.71	
26 05 33 13-1519 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	124.58	44.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.39	
26 05 33 13-1520 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	155.14	55.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.73	
26 05 33 13-1521 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1442)		
26 05 33 13-1522 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	49.85	17.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.36	
26 05 33 13-1523 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	57.61	20.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.02	
26 05 33 13-1524 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	63.99	22.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.70	
26 05 33 13-1525 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	78.69	26.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.03	
26 05 33 13-1526 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	97.41	33.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	
26 05 33 13-1527 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	124.87	40.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.05	
26 05 33 13-1528 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	204.10	44.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.39	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1529 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	218.45 36.73	48.97
26 05 33 13-1530 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	238.34 41.73	55.65
26 05 33 13-1531 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	267.08 48.41	64.55
26 05 33 13-1532 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover (26 05 33 13-1442)		
26 05 33 13-1533 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.34 18.98	25.30
26 05 33 13-1534 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.46 20.87	27.83
26 05 33 13-1535 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.98 22.77	30.36
26 05 33 13-1536 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.95 26.57	35.42
26 05 33 13-1537 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.88 32.26	43.01
26 05 33 13-1538 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.79 37.95	50.59
26 05 33 13-1539 Polyvinyl Chloride (PVC) Conduit Expansion Joint (26 05 33 13-1442)		
26 05 33 13-1540 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	101.20	22.26
26 05 33 13-1541 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	113.47	26.71
26 05 33 13-1542 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	126.44	31.16
26 05 33 13-1543 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	138.71	35.62
26 05 33 13-1544 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	150.71	40.06
26 05 33 13-1545 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	164.90	44.52
26 05 33 13-1546 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	200.47	51.19
26 05 33 13-1547 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	238.74	57.87
26 05 33 13-1548 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	279.05	66.78
26 05 33 13-1549 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	331.35	77.91
26 05 33 13-1550 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	434.21	93.49
26 05 33 13-1551 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	569.85	120.19
26 05 33 13-1552 Polyvinyl Chloride (PVC) Conduit End Caps (26 05 33 13-1442)		
26 05 33 13-1553 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52 3.34	4.45
26 05 33 13-1554 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.01 4.01	5.34
26 05 33 13-1555 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46 4.68	6.23
26 05 33 13-1556 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.94 5.34	7.12
26 05 33 13-1557 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.46 6.01	8.01
26 05 33 13-1558 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.85 6.68	8.90
26 05 33 13-1559 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.71 7.68	10.24
26 05 33 13-1560 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.81 8.68	11.58
26 05 33 13-1561 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.85 9.68	12.91
26 05 33 13-1562 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.33 10.35	13.80
26 05 33 13-1563 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.36 11.69	15.59
26 05 33 13-1564 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.96 13.36	17.81
26 05 33 13-1565 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-1442)		
26 05 33 13-1566 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.62 30.05	40.06
26 05 33 13-1567 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.28 20.03	26.71
26 05 33 13-1568 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	299.82 33.39	44.52
26 05 33 13-1569 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	571.59 48.41	64.55
26 05 33 13-1570 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-0058)		
Note: Exposed installation. Excludes supporting strap, hanger and fastening.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-1571	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1570)				
26 05 33 13-1572	LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	10.17		1.82	
26 05 33 13-1573	LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	11.33		2.00	
26 05 33 13-1574	LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	12.52		2.31	
26 05 33 13-1575	LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	13.73		2.67	
26 05 33 13-1576	LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	15.41		3.11	
26 05 33 13-1577	LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	16.72		3.57	
26 05 33 13-1578	LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	19.95		4.23	
26 05 33 13-1579	LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	23.49		4.90	
26 05 33 13-1580	LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	27.11		5.79	
26 05 33 13-1581	LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	31.87		7.12	
26 05 33 13-1582	LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	42.60		10.02	
26 05 33 13-1583	LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	55.34		13.35	
26 05 33 13-1584	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1570)				
26 05 33 13-1585	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	126.02		8.90	
	For 24" Radius, Add	8.90			
	For 36" Radius, Add	12.60			
	For 48" Radius, Add	16.31			
26 05 33 13-1586	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	140.66		9.80	
	For 24" Radius, Add	9.94			
	For 36" Radius, Add	14.07			
	For 48" Radius, Add	18.19			
26 05 33 13-1587	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	145.17		11.13	
	For 24" Radius, Add	10.19			
	For 36" Radius, Add	14.52			
	For 48" Radius, Add	18.84			
26 05 33 13-1588	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	154.11		14.24	
	For 24" Radius, Add	10.67			
	For 36" Radius, Add	15.41			
	For 48" Radius, Add	20.15			
26 05 33 13-1589	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	164.19		17.81	
	For 24" Radius, Add	11.20			
	For 36" Radius, Add	16.42			
	For 48" Radius, Add	21.64			
26 05 33 13-1590	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	191.83		22.26	
	For 24" Radius, Add	13.00			
	For 36" Radius, Add	19.18			
	For 48" Radius, Add	25.37			
26 05 33 13-1591	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	229.77		26.71	
	For 24" Radius, Add	15.56			
	For 36" Radius, Add	22.98			
	For 48" Radius, Add	30.39			
26 05 33 13-1592	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	273.50		31.16	
	For 24" Radius, Add	18.56			
	For 36" Radius, Add	27.35			
	For 48" Radius, Add	36.14			
26 05 33 13-1593	EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	314.64		37.84	
	For 24" Radius, Add	21.23			
	For 36" Radius, Add	31.46			
	For 48" Radius, Add	41.70			
26 05 33 13-1594	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	355.78		44.52	
	For 24" Radius, Add	23.90			
	For 36" Radius, Add	35.58			
	For 48" Radius, Add	47.26			
26 05 33 13-1595	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	444.72		55.65	
	For 24" Radius, Add	29.88			
	For 36" Radius, Add	44.47			
	For 48" Radius, Add	59.07			
26 05 33 13-1596	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	548.95		66.78	
	For 24" Radius, Add	37.00			
	For 36" Radius, Add	54.90			
	For 48" Radius, Add	72.79			
26 05 33 13-1597	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1570)				
26 05 33 13-1598	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	107.35		8.90	
	For 24" Radius, Add	7.49			
	For 36" Radius, Add	10.74			
	For 48" Radius, Add	13.98			
26 05 33 13-1599	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	119.75		9.80	
	For 24" Radius, Add	8.37			
	For 36" Radius, Add	11.98			
	For 48" Radius, Add	15.58			



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1600	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	124.05	11.13
		For 24" Radius, Add	8.61	
		For 36" Radius, Add	12.41	
		For 48" Radius, Add	16.20	
26 05 33 13-1601	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	132.79	14.24
		For 24" Radius, Add	9.07	
		For 36" Radius, Add	13.28	
		For 48" Radius, Add	17.49	
26 05 33 13-1602	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	142.65	17.81
		For 24" Radius, Add	9.59	
		For 36" Radius, Add	14.27	
		For 48" Radius, Add	18.94	
26 05 33 13-1603	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	167.31	22.26
		For 24" Radius, Add	11.16	
		For 36" Radius, Add	16.73	
		For 48" Radius, Add	22.31	
26 05 33 13-1604	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	200.43	26.71
		For 24" Radius, Add	13.36	
		For 36" Radius, Add	20.04	
		For 48" Radius, Add	26.72	
26 05 33 13-1605	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	238.29	31.16
		For 24" Radius, Add	15.92	
		For 36" Radius, Add	23.83	
		For 48" Radius, Add	31.73	
26 05 33 13-1606	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	275.03	37.84
		For 24" Radius, Add	18.26	
		For 36" Radius, Add	27.50	
		For 48" Radius, Add	36.74	
26 05 33 13-1607	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	311.78	44.52
		For 24" Radius, Add	20.60	
		For 36" Radius, Add	31.18	
		For 48" Radius, Add	41.76	
26 05 33 13-1608	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	389.71	55.65
		For 24" Radius, Add	25.75	
		For 36" Radius, Add	38.97	
		For 48" Radius, Add	52.19	
26 05 33 13-1609	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	480.18	66.78
		For 24" Radius, Add	31.84	
		For 36" Radius, Add	48.02	
		For 48" Radius, Add	64.20	
26 05 33 13-1610		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1570)		
26 05 33 13-1611	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	99.93	8.01
		For 24" Radius, Add	6.99	
		For 36" Radius, Add	9.99	
		For 48" Radius, Add	12.99	
26 05 33 13-1612	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	111.49	8.81
		For 24" Radius, Add	7.81	
		For 36" Radius, Add	11.15	
		For 48" Radius, Add	14.49	
26 05 33 13-1613	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	115.40	10.02
		For 24" Radius, Add	8.03	
		For 36" Radius, Add	11.54	
		For 48" Radius, Add	15.05	
26 05 33 13-1614	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	123.29	12.82
		For 24" Radius, Add	8.45	
		For 36" Radius, Add	12.33	
		For 48" Radius, Add	16.21	
26 05 33 13-1615	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	132.21	16.03
		For 24" Radius, Add	8.91	
		For 36" Radius, Add	13.22	
		For 48" Radius, Add	17.53	
26 05 33 13-1616	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	154.94	20.03
		For 24" Radius, Add	10.37	
		For 36" Radius, Add	15.49	
		For 48" Radius, Add	20.62	
26 05 33 13-1617	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	185.60	24.04
		For 24" Radius, Add	12.42	
		For 36" Radius, Add	18.56	
		For 48" Radius, Add	24.70	
26 05 33 13-1618	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	220.71	28.05
		For 24" Radius, Add	14.80	
		For 36" Radius, Add	22.07	
		For 48" Radius, Add	29.34	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1619	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	254.57	34.05
		For 24" Radius, Add	16.96	
		For 36" Radius, Add	25.46	
		For 48" Radius, Add	33.95	
26 05 33 13-1620	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	288.41	40.06
		For 24" Radius, Add	19.13	
		For 36" Radius, Add	28.84	
		For 48" Radius, Add	38.56	
26 05 33 13-1621	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	360.52	50.08
		For 24" Radius, Add	23.91	
		For 36" Radius, Add	36.05	
		For 48" Radius, Add	48.20	
26 05 33 13-1622	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	444.39	60.10
		For 24" Radius, Add	29.57	
		For 36" Radius, Add	44.44	
		For 48" Radius, Add	59.31	
26 05 33 13-1623 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1570)				
26 05 33 13-1624	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	94.74	8.01
		For 24" Radius, Add	6.60	
		For 36" Radius, Add	9.47	
		For 48" Radius, Add	12.34	
26 05 33 13-1625	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	105.68	8.81
		For 24" Radius, Add	7.38	
		For 36" Radius, Add	10.57	
		For 48" Radius, Add	13.76	
26 05 33 13-1626	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	109.53	10.02
		For 24" Radius, Add	7.59	
		For 36" Radius, Add	10.95	
		For 48" Radius, Add	14.32	
26 05 33 13-1627	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	117.37	12.82
		For 24" Radius, Add	8.00	
		For 36" Radius, Add	11.74	
		For 48" Radius, Add	15.47	
26 05 33 13-1628	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	126.22	16.03
		For 24" Radius, Add	8.47	
		For 36" Radius, Add	12.62	
		For 48" Radius, Add	16.78	
26 05 33 13-1629	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	148.13	20.03
		For 24" Radius, Add	9.86	
		For 36" Radius, Add	14.81	
		For 48" Radius, Add	19.77	
26 05 33 13-1630	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	177.45	24.04
		For 24" Radius, Add	11.81	
		For 36" Radius, Add	17.75	
		For 48" Radius, Add	23.68	
26 05 33 13-1631	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	210.93	28.05
		For 24" Radius, Add	14.07	
		For 36" Radius, Add	21.09	
		For 48" Radius, Add	28.12	
26 05 33 13-1632	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	243.57	34.05
		For 24" Radius, Add	16.14	
		For 36" Radius, Add	24.36	
		For 48" Radius, Add	32.57	
26 05 33 13-1633	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	276.19	40.06
		For 24" Radius, Add	18.21	
		For 36" Radius, Add	27.62	
		For 48" Radius, Add	37.03	
26 05 33 13-1634	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	345.24	50.08
		For 24" Radius, Add	22.76	
		For 36" Radius, Add	34.52	
		For 48" Radius, Add	46.29	
26 05 33 13-1635	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	425.29	60.10
		For 24" Radius, Add	28.14	
		For 36" Radius, Add	42.53	
		For 48" Radius, Add	56.92	
26 05 33 13-1636 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-1570)				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1637 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	58.55	6.23
26 05 33 13-1638 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	65.69	7.12
26 05 33 13-1639 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	68.40	8.01
26 05 33 13-1640 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	71.03	8.90
26 05 33 13-1641 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	77.57	11.13
26 05 33 13-1642 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	92.63	13.35
26 05 33 13-1643 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	115.83	17.81
26 05 33 13-1644 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	141.22	22.26
26 05 33 13-1645 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	168.62	28.94
26 05 33 13-1646 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	195.99	35.62
26 05 33 13-1647 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	244.99	44.52
26 05 33 13-1648 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	306.17	55.65
26 05 33 13-1649 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-1570)		
26 05 33 13-1650 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	39.83	6.23
26 05 33 13-1651 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	44.74	7.12
26 05 33 13-1652 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	47.25	8.01
26 05 33 13-1653 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	49.77	8.90
26 05 33 13-1654 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	55.61	11.13
26 05 33 13-1655 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	61.33	13.35
26 05 33 13-1656 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	78.06	17.81
26 05 33 13-1657 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	95.91	22.26
26 05 33 13-1658 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	117.64	28.94
26 05 33 13-1659 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	139.35	35.62
26 05 33 13-1660 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	174.26	44.52
26 05 33 13-1661 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	217.75	55.65
26 05 33 13-1662 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-1570)		
26 05 33 13-1663 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	45.72	5.12
26 05 33 13-1664 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	51.31	7.12
26 05 33 13-1665 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	53.89	8.01
26 05 33 13-1666 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	56.32	8.90
26 05 33 13-1667 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	62.66	11.13
26 05 33 13-1668 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	74.86	13.35
26 05 33 13-1669 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	94.27	17.81
26 05 33 13-1670 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	115.34	22.26
26 05 33 13-1671 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	139.50	28.94
26 05 33 13-1672 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	163.64	35.62
26 05 33 13-1673 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	204.53	44.52
26 05 33 13-1674 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	255.69	55.65
26 05 33 13-1675 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-1570)		
26 05 33 13-1676 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	88.85	22.26
26 05 33 13-1677 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	103.62	26.71
26 05 33 13-1678 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	115.15	31.16
26 05 33 13-1679 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	126.52	35.62
26 05 33 13-1680 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	138.50	40.06
26 05 33 13-1681 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	156.94	44.52
26 05 33 13-1682 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	182.76	51.19
26 05 33 13-1683 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	210.40	57.87
26 05 33 13-1684 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	240.88	66.78
26 05 33 13-1685 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	276.91	77.91
26 05 33 13-1686 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	325.27	89.03
26 05 33 13-1687 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	378.77	100.16
26 05 33 13-1688 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-1570)		
26 05 33 13-1689 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	102.34	22.26
26 05 33 13-1690 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	118.73	26.71
26 05 33 13-1691 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	130.35	31.16
26 05 33 13-1692 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	141.88	35.62
26 05 33 13-1693 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	153.99	40.06
26 05 33 13-1694 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	174.62	44.52
26 05 33 13-1695 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	203.98	51.19
26 05 33 13-1696 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	235.87	57.87
26 05 33 13-1697 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	269.54	66.78
26 05 33 13-1698 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	308.77	77.91
26 05 33 13-1699 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	365.21	89.03
26 05 33 13-1700 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	428.68	100.16
26 05 33 13-1701 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-1570)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1702 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	126.62	6.23
26 05 33 13-1703 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	141.15	7.12
26 05 33 13-1704 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	147.16	8.01
26 05 33 13-1705 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	153.34	8.90
26 05 33 13-1706 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	160.94	11.13
26 05 33 13-1707 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	179.17	13.35
26 05 33 13-1708 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	219.49	17.81
26 05 33 13-1709 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	265.50	22.26
26 05 33 13-1710 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	308.44	28.94
26 05 33 13-1711 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	351.36	35.62
26 05 33 13-1712 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	439.31	44.52
26 05 33 13-1713 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	546.58	55.65
26 05 33 13-1714 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1570)		
26 05 33 13-1715 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	125.79	22.26
26 05 33 13-1716 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	144.73	26.71
26 05 33 13-1717 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	174.20	31.16
26 05 33 13-1718 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	218.86	35.62
26 05 33 13-1719 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	278.14	40.06
26 05 33 13-1720 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	375.07	44.52
26 05 33 13-1721 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	543.05	51.19
26 05 33 13-1722 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	659.35	57.87
26 05 33 13-1723 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	799.90	66.78
26 05 33 13-1724 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	946.01	77.91
26 05 33 13-1725 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	1,114.96	89.03
26 05 33 13-1726 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	1,765.36	100.16
26 05 33 13-1727 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover (26 05 33 13-1570)		
26 05 33 13-1728 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	106.61	17.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.36	
26 05 33 13-1729 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	124.13	20.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.02	
26 05 33 13-1730 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	168.55	22.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.70	
26 05 33 13-1731 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	206.24	26.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.03	
26 05 33 13-1732 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	262.77	33.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	
26 05 33 13-1733 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	365.80	40.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.05	
26 05 33 13-1734 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	614.93	46.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.06	
26 05 33 13-1735 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	797.65	53.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.07	
26 05 33 13-1736 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	961.02	62.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.74	
26 05 33 13-1737 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	1,124.40	71.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.42	
26 05 33 13-1738 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	1,329.28	80.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.10	
26 05 33 13-1739 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	1,509.26	89.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.78	
26 05 33 13-1740 Explosion Proof Conduit Fittings (26 05 33 13-0058)		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1741 Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1740)		
26 05 33 13-1742 EA 1/2" Explosion Proof Malleable Iron Conduit Union	46.56	10.54
26 05 33 13-1743 EA 3/4" Explosion Proof Malleable Iron Conduit Union	56.94	11.65
26 05 33 13-1744 EA 1" Explosion Proof Malleable Iron Conduit Union	89.33	15.53
26 05 33 13-1745 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	117.10	17.19
26 05 33 13-1746 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	147.16	21.07
26 05 33 13-1747 EA 2" Explosion Proof Malleable Iron Conduit Union	182.70	24.40
26 05 33 13-1748 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	277.28	34.89



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1749	EA	3" Explosion Proof Malleable Iron Conduit Union	351.45	41.53
26 05 33 13-1750	EA	3-1/2" Explosion Proof Malleable Iron Conduit Union	583.35	49.84
26 05 33 13-1751	EA	4" Explosion Proof Malleable Iron Conduit Union	622.43	63.68
26 05 33 13-1752 Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1740)				
26 05 33 13-1753	EA	1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	163.51	33.27
26 05 33 13-1754	EA	3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	184.37	37.71
26 05 33 13-1755	EA	1" Explosion Proof Malleable Iron Two Hub Conduit Body	215.05	41.59
26 05 33 13-1756	EA	1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	185.82	41.59
26 05 33 13-1757	EA	3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	221.51	49.91
26 05 33 13-1758	EA	1" Explosion Proof Malleable Iron Three Hub Conduit Body	261.50	57.12
26 05 33 13-1759 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1740)				
Note: Includes sealing gasket and lock nut.				
26 05 33 13-1760	EA	1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	135.30	27.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.80	
26 05 33 13-1761	EA	3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	139.15	31.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.29	
26 05 33 13-1762	EA	1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	151.87	33.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.37	
26 05 33 13-1763	EA	1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	194.58	41.59
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.19	
26 05 33 13-1764	EA	1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	247.00	48.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.60	
26 05 33 13-1765	EA	2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	315.10	55.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.60	
26 05 33 13-1766	EA	2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	449.98	83.07
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.30	
26 05 33 13-1767	EA	3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	568.46	104.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.08	
26 05 33 13-1768	EA	3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	792.35	114.63
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.97	
26 05 33 13-1769	EA	4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	1,014.86	124.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.45	
26 05 33 13-1770 Explosion Proof Flexible Conduit Couplings (26 05 33 13-1740)				
26 05 33 13-1771	EA	1/2" x 12" Explosion Proof Flexible Conduit Coupling	342.80	12.75
26 05 33 13-1772	EA	3/4" x 15" Explosion Proof Flexible Conduit Coupling	447.79	14.42
26 05 33 13-1773 Conduit Installed Below Grade (26 05 33 13-0057)				
Note: By direct burial in trench or in concrete slabs or duct banks. Includes warning tape for underground conduits. Excludes trenching, backfilling and concrete.				
26 05 33 13-1774 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-1773)				
26 05 33 13-1775 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial (26 05 33 13-1774)				
Note: Includes field bend conduit up to 1".				
26 05 33 13-1776	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	4.33	
		For Schedule 60, Add	0.36	
		For Schedule 80, Add	0.61	
26 05 33 13-1777	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	4.85	
		For Schedule 60, Add	0.43	
		For Schedule 80, Add	0.72	
26 05 33 13-1778	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	5.60	
		For Schedule 60, Add	0.56	
		For Schedule 80, Add	0.92	
26 05 33 13-1779	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	6.35	
		For Schedule 60, Add	0.70	
		For Schedule 80, Add	1.11	
26 05 33 13-1780	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	7.00	
		For Schedule 60, Add	0.80	
		For Schedule 80, Add	1.27	
26 05 33 13-1781	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	8.01	
		For Schedule 60, Add	1.00	
		For Schedule 80, Add	1.55	
26 05 33 13-1782	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	10.07	
		For Schedule 60, Add	1.46	
		For Schedule 80, Add	2.20	
26 05 33 13-1783	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	11.26	
		For Schedule 60, Add	1.70	
		For Schedule 80, Add	2.55	
26 05 33 13-1784	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	13.12	
		For Schedule 60, Add	2.11	
		For Schedule 80, Add	3.13	
26 05 33 13-1785	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	14.12	
		For Schedule 60, Add	2.31	
		For Schedule 80, Add	3.41	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1786 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	18.07	
For Schedule 60, Add	3.24	
For Schedule 80, Add	4.72	
26 05 33 13-1787 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	22.09	
For Schedule 60, Add	4.19	
For Schedule 80, Add	6.06	
26 05 33 13-1788 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial (26 05 33 13-1774)		
See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1789 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	29.06	
For Schedule 60, Add	1.70	
For Schedule 80, Add	3.22	
26 05 33 13-1790 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	34.86	
For Schedule 60, Add	2.04	
For Schedule 80, Add	3.86	
26 05 33 13-1791 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	41.27	
For Schedule 60, Add	2.53	
For Schedule 80, Add	4.71	
26 05 33 13-1792 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	47.86	
For Schedule 60, Add	3.06	
For Schedule 80, Add	5.62	
26 05 33 13-1793 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	54.62	
For Schedule 60, Add	3.64	
For Schedule 80, Add	6.60	
26 05 33 13-1794 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	61.91	
For Schedule 60, Add	4.35	
For Schedule 80, Add	7.76	
26 05 33 13-1795 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	72.31	
For Schedule 60, Add	5.84	
For Schedule 80, Add	10.01	
26 05 33 13-1796 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	84.94	
For Schedule 60, Add	7.88	
For Schedule 80, Add	13.03	
26 05 33 13-1797 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	103.18	
For Schedule 60, Add	10.21	
For Schedule 80, Add	16.64	
26 05 33 13-1798 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	121.54	
For Schedule 60, Add	12.58	
For Schedule 80, Add	20.28	
26 05 33 13-1799 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	157.42	
For Schedule 60, Add	19.32	
For Schedule 80, Add	30.06	
26 05 33 13-1800 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	184.30	
For Schedule 60, Add	23.82	
For Schedule 80, Add	36.68	
26 05 33 13-1801 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial (26 05 33 13-1774)		
See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1802 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	29.06	
For Schedule 60, Add	1.70	
For Schedule 80, Add	3.22	
26 05 33 13-1803 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	34.77	
For Schedule 60, Add	2.02	
For Schedule 80, Add	3.82	
26 05 33 13-1804 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	41.14	
For Schedule 60, Add	2.50	
For Schedule 80, Add	4.66	
26 05 33 13-1805 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	47.50	
For Schedule 60, Add	2.97	
For Schedule 80, Add	5.50	
26 05 33 13-1806 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	53.81	
For Schedule 60, Add	3.44	
For Schedule 80, Add	6.31	
26 05 33 13-1807 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	61.48	
For Schedule 60, Add	4.24	
For Schedule 80, Add	7.61	
26 05 33 13-1808 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	71.50	
For Schedule 60, Add	5.63	
For Schedule 80, Add	9.72	
26 05 33 13-1809 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	83.92	
For Schedule 60, Add	7.62	
For Schedule 80, Add	12.68	
26 05 33 13-1810 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	100.30	
For Schedule 60, Add	9.49	
For Schedule 80, Add	15.63	
26 05 33 13-1811 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	119.07	
For Schedule 60, Add	11.96	
For Schedule 80, Add	19.42	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 33 13-1812	EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	154.21	18.52 28.93		
26 05 33 13-1813	EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	174.75	21.43 33.34		
26 05 33 13-1814	Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial (26 05 33 13-1774)				
26 05 33 13-1815	EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.16	4.68		
26 05 33 13-1816	EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.58	5.34		
26 05 33 13-1817	EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.09	6.01		
26 05 33 13-1818	EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.72	6.68		
26 05 33 13-1819	EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.08	7.35		
26 05 33 13-1820	EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.97	8.01		
26 05 33 13-1821	EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.23	9.02		
26 05 33 13-1822	EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.08	10.01		
26 05 33 13-1823	EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.19	11.69		
26 05 33 13-1824	EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.08	13.36		
26 05 33 13-1825	EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.33	15.02		
26 05 33 13-1826	EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.05	16.70		
26 05 33 13-1827	Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial (26 05 33 13-1774)				
26 05 33 13-1828	EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	18.01			
26 05 33 13-1829	EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	20.57			
26 05 33 13-1830	EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	23.15			
26 05 33 13-1831	EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	29.60			
26 05 33 13-1832	EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	32.72			
26 05 33 13-1833	EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	36.41			
26 05 33 13-1834	EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	40.80			
26 05 33 13-1835	EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	46.28			
26 05 33 13-1836	EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	54.74			
26 05 33 13-1837	EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	60.62			
26 05 33 13-1838	EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	75.54			
26 05 33 13-1839	EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	84.84			
26 05 33 13-1840	Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial (26 05 33 13-1774)				
26 05 33 13-1841	EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	16.06			
26 05 33 13-1842	EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	18.58			
26 05 33 13-1843	EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	20.96			
26 05 33 13-1844	EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	23.50			
26 05 33 13-1845	EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	25.88			
26 05 33 13-1846	EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	28.70			
26 05 33 13-1847	EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	33.68			
26 05 33 13-1848	EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	38.32			
26 05 33 13-1849	EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	45.21			
26 05 33 13-1850	EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	51.08			
26 05 33 13-1851	EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	63.36			
26 05 33 13-1852	EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	71.68			
26 05 33 13-1853	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-1773) Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).				
26 05 33 13-1854	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-1853) Note: Includes field bending for conduit up to 1".				
26 05 33 13-1855	LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	12.59	-0.46 -0.77 -1.09	2.66	
26 05 33 13-1856	LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	14.12	-0.52 -0.87 -1.22	3.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1857 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	17.30	3.67
For >250 To 500, Deduct	-0.64	
For >500 To 1,000, Deduct	-1.08	
For >1,000, Deduct	-1.51	
26 05 33 13-1858 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	20.83	4.93
For >250 To 500, Deduct	-0.79	
For >500 To 1,000, Deduct	-1.31	
For >1,000, Deduct	-1.83	
26 05 33 13-1859 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	24.42	5.56
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.55	
For >1,000, Deduct	-2.16	
26 05 33 13-1860 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	30.89	6.07
For >250 To 500, Deduct	-1.20	
For >500 To 1,000, Deduct	-1.97	
For >1,000, Deduct	-2.74	
26 05 33 13-1861 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	44.71	9.11
For >250 To 500, Deduct	-1.76	
For >500 To 1,000, Deduct	-2.88	
For >1,000, Deduct	-4.00	
26 05 33 13-1862 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	57.76	11.39
For >250 To 500, Deduct	-2.26	
For >500 To 1,000, Deduct	-3.70	
For >1,000, Deduct	-5.14	
26 05 33 13-1863 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	71.33	12.02
For >250 To 500, Deduct	-2.78	
For >500 To 1,000, Deduct	-4.56	
For >1,000, Deduct	-6.34	
26 05 33 13-1864 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	84.75	13.28
For >250 To 500, Deduct	-3.29	
For >500 To 1,000, Deduct	-5.41	
For >1,000, Deduct	-7.53	
26 05 33 13-1865 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	131.02	18.34
For >250 To 500, Deduct	-5.35	
For >500 To 1,000, Deduct	-8.62	
For >1,000, Deduct	-11.90	
26 05 33 13-1866 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	174.39	24.03
For >250 To 500, Deduct	-7.20	
For >500 To 1,000, Deduct	-11.56	
For >1,000, Deduct	-15.92	

26 05 33 13-1867 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial (26 05 33 13-1853)

26 05 33 13-1868 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.54	3.80
26 05 33 13-1869 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	16.35	5.06
26 05 33 13-1870 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	20.74	6.32
26 05 33 13-1871 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	23.35	6.96
26 05 33 13-1872 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	27.67	8.22
26 05 33 13-1873 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	35.39	9.49
26 05 33 13-1874 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	63.41	11.39
26 05 33 13-1875 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	80.99	15.82
26 05 33 13-1876 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	100.01	18.34
26 05 33 13-1877 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	124.64	25.30
26 05 33 13-1878 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	310.84	34.79
26 05 33 13-1879 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	308.73	19.60

26 05 33 13-1880 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-1853)

Note: 90, 45, or 30 degree.

26 05 33 13-1881 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	52.47	15.82
26 05 33 13-1882 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	60.87	19.60
26 05 33 13-1883 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	72.89	24.03
26 05 33 13-1884 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	86.16	27.83
26 05 33 13-1885 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	100.74	31.62
26 05 33 13-1886 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	121.89	34.79
26 05 33 13-1887 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	185.86	43.64
26 05 33 13-1888 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	276.42	59.45
26 05 33 13-1889 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	340.78	67.04
26 05 33 13-1890 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	393.05	87.28
26 05 33 13-1891 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	811.13	142.31



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1892	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		1,273.89	213.78
26 05 33 13-1893		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial (26 05 33 13-1853)			
26 05 33 13-1894	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		122.04	24.03
26 05 33 13-1895	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		137.47	27.83
26 05 33 13-1896	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		156.92	31.62
26 05 33 13-1897	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		186.71	34.79
26 05 33 13-1898	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		259.22	43.64
26 05 33 13-1899		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial (26 05 33 13-1853)			
26 05 33 13-1900	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		135.33	24.03
26 05 33 13-1901	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		159.43	27.83
26 05 33 13-1902	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		172.66	31.62
26 05 33 13-1903	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		221.05	34.79
26 05 33 13-1904	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		292.33	43.64
26 05 33 13-1905	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		374.61	59.45
26 05 33 13-1906		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial (26 05 33 13-1853)			
26 05 33 13-1907	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		151.22	24.03
26 05 33 13-1908	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		170.87	27.83
26 05 33 13-1909	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		192.86	31.62
26 05 33 13-1910	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		232.44	34.79
26 05 33 13-1911	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		330.38	43.64
26 05 33 13-1912	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		419.28	59.45
26 05 33 13-1913	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		527.85	67.04
26 05 33 13-1914	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		596.85	87.28
26 05 33 13-1915		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial (26 05 33 13-1853)			
26 05 33 13-1916	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial		178.67	24.03
26 05 33 13-1917	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial		197.71	27.83
26 05 33 13-1918	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial		223.35	31.62
26 05 33 13-1919	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial		276.33	34.79
26 05 33 13-1920	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial		398.47	43.64
26 05 33 13-1921	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial		494.96	59.45
26 05 33 13-1922	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial		574.05	67.04
26 05 33 13-1923	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial		681.68	87.28
26 05 33 13-1924		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial (26 05 33 13-1853)			
26 05 33 13-1925	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial		200.03	24.03
26 05 33 13-1926	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial		222.71	27.83

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1927 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	253.35	31.62
26 05 33 13-1928 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	314.54	34.79
26 05 33 13-1929 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	435.62	43.64
26 05 33 13-1930 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	555.49	59.45
26 05 33 13-1931 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	686.40	67.04
26 05 33 13-1932 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	759.55	87.28
26 05 33 13-1933 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	1,265.74	142.31
26 05 33 13-1934 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial (26 05 33 13-1853)		
26 05 33 13-1935 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	227.96	24.03
26 05 33 13-1936 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	252.90	27.83
26 05 33 13-1937 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	286.24	31.62
26 05 33 13-1938 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	356.92	34.79
26 05 33 13-1939 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	497.53	43.64
26 05 33 13-1940 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	632.62	59.45
26 05 33 13-1941 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	742.70	67.04
26 05 33 13-1942 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	860.08	87.28
26 05 33 13-1943 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,336.19	142.31
26 05 33 13-1944 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,830.58	213.78
26 05 33 13-1945 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial (26 05 33 13-1853)		
26 05 33 13-1946 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	266.85	24.03
26 05 33 13-1947 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	279.82	27.83
26 05 33 13-1948 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	330.26	31.62
26 05 33 13-1949 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	415.92	34.79
26 05 33 13-1950 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	581.01	43.64
26 05 33 13-1951 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	736.59	59.45
26 05 33 13-1952 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	899.21	67.04
26 05 33 13-1953 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,055.64	87.28
26 05 33 13-1954 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,566.00	142.31
26 05 33 13-1955 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,936.07	213.78
26 05 33 13-1956 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial (26 05 33 13-1853)		
26 05 33 13-1957 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	276.21	24.03
26 05 33 13-1958 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	325.35	27.83
26 05 33 13-1959 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	368.32	31.62
26 05 33 13-1960 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	433.66	34.79
26 05 33 13-1961 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	601.86	43.64
26 05 33 13-1962 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	768.56	59.45
26 05 33 13-1963 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	984.45	67.04
26 05 33 13-1964 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,099.99	87.28



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1965 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,627.73	142.31
26 05 33 13-1966 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,989.67	213.78
26 05 33 13-1967 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial (26 05 33 13-1853)		
26 05 33 13-1968 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	93.77	15.82
26 05 33 13-1969 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	102.50	19.60
26 05 33 13-1970 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	132.90	24.03
26 05 33 13-1971 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	192.18	27.83
26 05 33 13-1972 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	227.92	31.62
26 05 33 13-1973 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	289.02	34.79
26 05 33 13-1974 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	384.38	43.64
26 05 33 13-1975 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	496.88	43.64
26 05 33 13-1976 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	642.17	67.04
26 05 33 13-1977 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	826.94	87.28
26 05 33 13-1978 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	1,503.99	142.31
26 05 33 13-1979 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	1,879.82	213.78
26 05 33 13-1980 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial (26 05 33 13-1853)		
26 05 33 13-1981 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	95.86	15.82
26 05 33 13-1982 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	110.49	19.60
26 05 33 13-1983 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	137.16	24.03
26 05 33 13-1984 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	200.00	27.83
26 05 33 13-1985 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	238.78	31.62
26 05 33 13-1986 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	312.47	34.79
26 05 33 13-1987 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	434.56	43.64
26 05 33 13-1988 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	547.90	43.64
26 05 33 13-1989 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	734.42	67.04
26 05 33 13-1990 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	918.85	87.28
26 05 33 13-1991 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	1,672.47	142.31
26 05 33 13-1992 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	2,151.86	213.78
26 05 33 13-1993 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial (26 05 33 13-1853)		
26 05 33 13-1994 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.81	7.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1995 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.93	9.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-1996 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.98	12.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21	
26 05 33 13-1997 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.14	13.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35	
26 05 33 13-1998 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.69	15.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-1999 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.34	8.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 05 33 13-2000	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.34	9.49	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69		
26 05 33 13-2001	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.41	12.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21		
26 05 33 13-2002	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.71	13.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35		
26 05 33 13-2003	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.47	15.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49		
26 05 33 13-2004	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.47	17.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63		
26 05 33 13-2005	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.51	8.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94		
26 05 33 13-2006	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.51	9.49	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69		
26 05 33 13-2007	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.72	12.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21		
26 05 33 13-2008	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.04	13.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35		
26 05 33 13-2009	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.80	15.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49		
26 05 33 13-2010	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.34	17.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63		
26 05 33 13-2011	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.79	8.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94		
26 05 33 13-2012	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.80	9.49	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69		
26 05 33 13-2013	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.18	12.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21		
26 05 33 13-2014	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.44	13.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35		
26 05 33 13-2015	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.35	15.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49		
26 05 33 13-2016	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	67.04	17.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63		
26 05 33 13-2017	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	93.19	21.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90		
26 05 33 13-2018	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	120.85	29.73	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84		
26 05 33 13-2019	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.96	8.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94		
26 05 33 13-2020	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.11	9.49	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69		
26 05 33 13-2021	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.52	12.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21		
26 05 33 13-2022	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.83	13.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35		
26 05 33 13-2023	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.89	15.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49		
26 05 33 13-2024	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	69.73	17.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63		
26 05 33 13-2025	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.57	21.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90		
26 05 33 13-2026	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	125.98	29.73	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84		
26 05 33 13-2027	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	150.01	33.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.11		



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2028	EA		4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	176.05	43.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.18	
26 05 33 13-2029	EA		1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.28	8.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.94	
26 05 33 13-2030	EA		3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.45	9.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.69	
26 05 33 13-2031	EA		1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.88	12.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.21	
26 05 33 13-2032	EA		1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.48	13.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.35	
26 05 33 13-2033	EA		1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	62.56	15.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.49	
26 05 33 13-2034	EA		2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	71.20	17.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.63	
26 05 33 13-2035	EA		2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	105.06	21.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.90	
26 05 33 13-2036	EA		3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	133.66	29.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.84	
26 05 33 13-2037	EA		3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	151.65	33.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.11	
26 05 33 13-2038	EA		4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	180.43	43.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.18	
26 05 33 13-2039	EA		5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	265.06	60.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.05	
26 05 33 13-2040	EA		1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.88	8.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.94	
26 05 33 13-2041	EA		3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.05	9.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.69	
26 05 33 13-2042	EA		1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.53	12.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.21	
26 05 33 13-2043	EA		1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.69	13.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.35	
26 05 33 13-2044	EA		1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.01	15.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.49	
26 05 33 13-2045	EA		2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.67	17.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.63	
26 05 33 13-2046	EA		2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	114.69	21.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.90	
26 05 33 13-2047	EA		3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	143.87	29.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.84	
26 05 33 13-2048	EA		3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	160.85	33.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.11	
26 05 33 13-2049	EA		4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	195.94	43.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.18	
26 05 33 13-2050	EA		5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	288.25	60.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.05	
26 05 33 13-2051	EA		1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.82	8.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.94	
26 05 33 13-2052	EA		3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.96	9.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.69	
26 05 33 13-2053	EA		1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.97	12.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.21	
26 05 33 13-2054	EA		1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.00	13.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.35	
26 05 33 13-2055	EA		1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.94	15.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 05 33 13-2056	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	79.84		17.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63		
26 05 33 13-2057	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	126.54		21.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90		
26 05 33 13-2058	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	157.83		29.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84		
26 05 33 13-2059	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	183.87		33.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.11		
26 05 33 13-2060	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	219.22		43.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18		
26 05 33 13-2061	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	304.14		60.08
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.05		
26 05 33 13-2062	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.80		8.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94		
26 05 33 13-2063	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.93		9.49
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69		
26 05 33 13-2064	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.39		12.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21		
26 05 33 13-2065	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.34		13.91
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35		
26 05 33 13-2066	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	73.93		15.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49		
26 05 33 13-2067	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	90.39		17.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63		
26 05 33 13-2068	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	139.06		21.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90		
26 05 33 13-2069	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	175.73		29.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84		
26 05 33 13-2070	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	208.04		33.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.11		
26 05 33 13-2071	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	259.96		43.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18		
26 05 33 13-2072	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	335.86		60.08
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.05		
26 05 33 13-2073	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.82		8.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94		
26 05 33 13-2074	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.06		9.49
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69		
26 05 33 13-2075	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.01		12.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21		
26 05 33 13-2076	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	70.46		13.91
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35		
26 05 33 13-2077	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	82.38		15.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49		
26 05 33 13-2078	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	98.87		17.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63		
26 05 33 13-2079	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	155.77		21.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.90		
26 05 33 13-2080	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	202.55		29.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84		
26 05 33 13-2081	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	222.88		33.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.11		
26 05 33 13-2082	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	272.46		43.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.18		
26 05 33 13-2083	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	340.38		60.08
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.05		



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2084	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1773) Note: Direct burial or encased application.		
26 05 33 13-2085	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2084)		
26 05 33 13-2086	LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	9.22 1.09	1.44
26 05 33 13-2087	LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	10.22 1.17	1.56
26 05 33 13-2088	LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	10.86 1.25	1.67
26 05 33 13-2089	LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	11.50 1.34	1.78
26 05 33 13-2090	LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	12.35 1.42	1.89
26 05 33 13-2091	LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	12.83 1.50	2.00
26 05 33 13-2092	LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	14.66 1.59	2.11
26 05 33 13-2093	LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	16.82 1.67	2.22
26 05 33 13-2094	LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	18.49 1.75	2.33
26 05 33 13-2095	LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	20.18 1.84	2.44
26 05 33 13-2096	LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	23.96 1.92	2.56
26 05 33 13-2097	LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial For Work In Restricted Working Space, Add	28.64 2.00	2.67
26 05 33 13-2098	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-2084)		
26 05 33 13-2099	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial For Work In Restricted Working Space, Add For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	131.58 8.35 9.17 13.16 17.14	11.13
26 05 33 13-2100	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial For Work In Restricted Working Space, Add For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	149.55 10.01 10.38 14.96 19.53	13.35
26 05 33 13-2101	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial For Work In Restricted Working Space, Add For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	156.30 11.69 10.75 15.63 20.51	15.59
26 05 33 13-2102	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial For Work In Restricted Working Space, Add For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	163.01 13.36 11.11 16.30 21.49	17.81
26 05 33 13-2103	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial For Work In Restricted Working Space, Add For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	169.75 15.02 11.48 16.98 22.47	20.03
26 05 33 13-2104	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial For Work In Restricted Working Space, Add For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	191.83 16.70 13.00 19.18 25.37	22.26
26 05 33 13-2105	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial For Work In Restricted Working Space, Add For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	224.20 18.36 15.28 22.42 29.56	24.49
26 05 33 13-2106	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial For Work In Restricted Working Space, Add For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	262.37 20.03 18.01 26.24 34.47	26.71

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2107	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	297.95	31.16
		<i>For Work In Restricted Working Space, Add</i>	23.37	
		<i>For 24" Radius, Add</i>	20.40	
		<i>For 36" Radius, Add</i>	29.80	
		<i>For 48" Radius, Add</i>	39.19	
26 05 33 13-2108	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	333.51	40.06
		<i>For Work In Restricted Working Space, Add</i>	26.71	
		<i>For 24" Radius, Add</i>	22.79	
		<i>For 36" Radius, Add</i>	33.35	
		<i>For 48" Radius, Add</i>	43.91	
26 05 33 13-2109	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	405.77	40.06
		<i>For Work In Restricted Working Space, Add</i>	30.05	
		<i>For 24" Radius, Add</i>	27.93	
		<i>For 36" Radius, Add</i>	40.58	
		<i>For 48" Radius, Add</i>	53.23	
26 05 33 13-2110	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	493.31	44.52
		<i>For Work In Restricted Working Space, Add</i>	33.39	
		<i>For 24" Radius, Add</i>	34.22	
		<i>For 36" Radius, Add</i>	49.33	
		<i>For 48" Radius, Add</i>	64.45	
26 05 33 13-2111 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2084)				
26 05 33 13-2112	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	58.55	6.23
		<i>For Work In Restricted Working Space, Add</i>	4.68	
26 05 33 13-2113	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	65.69	7.12
		<i>For Work In Restricted Working Space, Add</i>	5.34	
26 05 33 13-2114	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	68.40	8.01
		<i>For Work In Restricted Working Space, Add</i>	6.01	
26 05 33 13-2115	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	71.03	8.90
		<i>For Work In Restricted Working Space, Add</i>	6.68	
26 05 33 13-2116	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	74.24	9.80
		<i>For Work In Restricted Working Space, Add</i>	7.35	
26 05 33 13-2117	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	85.96	10.69
		<i>For Work In Restricted Working Space, Add</i>	8.01	
26 05 33 13-2118	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	101.36	12.02
		<i>For Work In Restricted Working Space, Add</i>	9.02	
26 05 33 13-2119	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	118.95	13.35
		<i>For Work In Restricted Working Space, Add</i>	10.01	
26 05 33 13-2120	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	135.22	15.59
		<i>For Work In Restricted Working Space, Add</i>	11.69	
26 05 33 13-2121	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	151.48	17.81
		<i>For Work In Restricted Working Space, Add</i>	13.36	
26 05 33 13-2122	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	183.77	20.03
		<i>For Work In Restricted Working Space, Add</i>	15.02	
26 05 33 13-2123	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	222.71	22.26
		<i>For Work In Restricted Working Space, Add</i>	16.70	
26 05 33 13-2124 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2084)				
26 05 33 13-2125	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	39.83	6.23
		<i>For Work In Restricted Working Space, Add</i>	4.68	
26 05 33 13-2126	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	44.74	7.12
		<i>For Work In Restricted Working Space, Add</i>	5.34	
26 05 33 13-2127	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	47.25	8.01
		<i>For Work In Restricted Working Space, Add</i>	6.01	
26 05 33 13-2128	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	49.77	8.90
		<i>For Work In Restricted Working Space, Add</i>	6.68	
26 05 33 13-2129	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	52.28	9.80
		<i>For Work In Restricted Working Space, Add</i>	7.35	
26 05 33 13-2130	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	54.66	10.69
		<i>For Work In Restricted Working Space, Add</i>	8.01	
26 05 33 13-2131	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	63.59	12.02
		<i>For Work In Restricted Working Space, Add</i>	9.02	
26 05 33 13-2132	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	73.64	13.35
		<i>For Work In Restricted Working Space, Add</i>	10.01	
26 05 33 13-2133	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	84.24	15.59
		<i>For Work In Restricted Working Space, Add</i>	11.69	
26 05 33 13-2134	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	94.84	17.81
		<i>For Work In Restricted Working Space, Add</i>	13.36	
26 05 33 13-2135	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	113.04	20.03
		<i>For Work In Restricted Working Space, Add</i>	15.02	
26 05 33 13-2136	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	134.29	22.26
		<i>For Work In Restricted Working Space, Add</i>	16.70	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2137		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-2084)		
26 05 33 13-2138	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	39.03	3.57
		For Work In Restricted Working Space, Add	2.67	
26 05 33 13-2139	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	43.52	4.01
		For Work In Restricted Working Space, Add	3.01	
26 05 33 13-2140	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	44.99	4.45
		For Work In Restricted Working Space, Add	3.34	
26 05 33 13-2141	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	46.30	4.90
		For Work In Restricted Working Space, Add	3.67	
26 05 33 13-2142	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	48.19	5.34
		For Work In Restricted Working Space, Add	4.01	
26 05 33 13-2143	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	57.07	6.23
		For Work In Restricted Working Space, Add	4.68	
26 05 33 13-2144	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	68.67	7.57
		For Work In Restricted Working Space, Add	5.68	
26 05 33 13-2145	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	81.95	8.90
		For Work In Restricted Working Space, Add	6.68	
26 05 33 13-2146	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	94.97	11.13
		For Work In Restricted Working Space, Add	8.35	
26 05 33 13-2147	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	107.99	13.35
		For Work In Restricted Working Space, Add	10.01	
26 05 33 13-2148	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	132.18	15.59
		For Work In Restricted Working Space, Add	11.69	
26 05 33 13-2149	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	161.10	17.81
		For Work In Restricted Working Space, Add	13.36	
26 05 33 13-2150		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-2084)		
26 05 33 13-2151	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	88.85	22.26
		For Work In Restricted Working Space, Add	16.70	
26 05 33 13-2152	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	103.62	26.71
		For Work In Restricted Working Space, Add	20.03	
26 05 33 13-2153	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	115.15	31.16
		For Work In Restricted Working Space, Add	23.37	
26 05 33 13-2154	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	126.52	35.62
		For Work In Restricted Working Space, Add	26.71	
26 05 33 13-2155	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	132.94	37.84
		For Work In Restricted Working Space, Add	28.38	
26 05 33 13-2156	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	145.80	40.06
		For Work In Restricted Working Space, Add	30.05	
26 05 33 13-2157	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	160.50	42.29
		For Work In Restricted Working Space, Add	31.72	
26 05 33 13-2158	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	177.02	44.52
		For Work In Restricted Working Space, Add	33.39	
26 05 33 13-2159	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	190.80	46.75
		For Work In Restricted Working Space, Add	35.06	
26 05 33 13-2160	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	204.58	48.97
		For Work In Restricted Working Space, Add	36.73	
26 05 33 13-2161	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	230.67	51.19
		For Work In Restricted Working Space, Add	38.40	
26 05 33 13-2162	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	261.92	53.43
		For Work In Restricted Working Space, Add	40.07	
26 05 33 13-2163		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-2084)		
26 05 33 13-2164	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	102.34	22.26
		For Work In Restricted Working Space, Add	16.70	
26 05 33 13-2165	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	118.73	26.71
		For Work In Restricted Working Space, Add	20.03	
26 05 33 13-2166	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	130.35	31.16
		For Work In Restricted Working Space, Add	23.37	
26 05 33 13-2167	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	141.88	35.62
		For Work In Restricted Working Space, Add	26.71	
26 05 33 13-2168	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	148.43	37.84
		For Work In Restricted Working Space, Add	28.38	
26 05 33 13-2169	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	163.48	40.06
		For Work In Restricted Working Space, Add	30.05	
26 05 33 13-2170	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	181.72	42.29
		For Work In Restricted Working Space, Add	31.72	
26 05 33 13-2171	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	202.49	44.52
		For Work In Restricted Working Space, Add	33.39	
26 05 33 13-2172	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	219.46	46.75
		For Work In Restricted Working Space, Add	35.06	
26 05 33 13-2173	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	236.44	48.97
		For Work In Restricted Working Space, Add	36.73	
26 05 33 13-2174	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	270.61	51.19
		For Work In Restricted Working Space, Add	38.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2175 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	311.83	53.43
For Work In Restricted Working Space, Add	40.07	
26 05 33 13-2176 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters		
(26 05 33 13-2084)		
26 05 33 13-2177 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	126.62	6.23
For Work In Restricted Working Space, Add	4.68	
26 05 33 13-2178 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	141.15	7.12
For Work In Restricted Working Space, Add	5.34	
26 05 33 13-2179 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	147.16	8.01
For Work In Restricted Working Space, Add	6.01	
26 05 33 13-2180 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	153.34	8.90
For Work In Restricted Working Space, Add	6.68	
26 05 33 13-2181 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	157.61	9.80
For Work In Restricted Working Space, Add	7.35	
26 05 33 13-2182 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	172.50	10.69
For Work In Restricted Working Space, Add	8.01	
26 05 33 13-2183 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	205.02	12.02
For Work In Restricted Working Space, Add	9.02	
26 05 33 13-2184 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	243.23	13.35
For Work In Restricted Working Space, Add	10.01	
26 05 33 13-2185 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	275.04	15.59
For Work In Restricted Working Space, Add	11.69	
26 05 33 13-2186 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	306.85	17.81
For Work In Restricted Working Space, Add	13.36	
26 05 33 13-2187 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	378.09	20.03
For Work In Restricted Working Space, Add	15.02	
26 05 33 13-2188 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	463.12	22.26
For Work In Restricted Working Space, Add	16.70	
26 05 33 13-2189 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints		
(26 05 33 13-2084)		
26 05 33 13-2190 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	125.79	22.26
For Work In Restricted Working Space, Add	16.70	
26 05 33 13-2191 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	144.73	26.71
For Work In Restricted Working Space, Add	20.03	
26 05 33 13-2192 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	174.20	31.16
For Work In Restricted Working Space, Add	23.37	
26 05 33 13-2193 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	218.86	35.62
For Work In Restricted Working Space, Add	26.71	
26 05 33 13-2194 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	272.58	37.84
For Work In Restricted Working Space, Add	28.38	
26 05 33 13-2195 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	363.93	40.06
For Work In Restricted Working Space, Add	30.05	
26 05 33 13-2196 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	520.79	42.29
For Work In Restricted Working Space, Add	31.72	
26 05 33 13-2197 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	625.97	44.52
For Work In Restricted Working Space, Add	33.39	
26 05 33 13-2198 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	749.82	46.75
For Work In Restricted Working Space, Add	35.06	
26 05 33 13-2199 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	873.68	48.97
For Work In Restricted Working Space, Add	36.73	
26 05 33 13-2200 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	1,020.36	51.19
For Work In Restricted Working Space, Add	38.40	
26 05 33 13-2201 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	1,648.51	53.43
For Work In Restricted Working Space, Add	40.07	
26 05 33 13-2202 Spacers		
(26 05 33 13-1773)		
Note: For concrete encasement applications. See CSI section 03 31 13 00-0039 for concrete., 26 05 33 13-1773 for conduit.		
26 05 33 13-2203 EA 1" Base Spacers, Average 4" Wide, Direct Burial	11.70	
26 05 33 13-2204 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial	12.58	
26 05 33 13-2205 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial	13.93	
26 05 33 13-2206 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	15.00	
26 05 33 13-2207 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial	14.05	
26 05 33 13-2208 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	15.08	
26 05 33 13-2209 EA 2" Base Spacer, Average 4" Wide, Direct Burial	17.46	
26 05 33 13-2210 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial	16.21	
26 05 33 13-2211 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial	19.30	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2212 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	18.66	
26 05 33 13-2213 EA 3" Base Spacer, Average 4" Wide, Direct Burial	22.09	
26 05 33 13-2214 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial	21.09	
26 05 33 13-2215 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial	23.94	
26 05 33 13-2216 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	22.88	
26 05 33 13-2217 EA 4" Base Spacer, Average 4" Wide, Direct Burial	24.66	
26 05 33 13-2218 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial	23.53	
26 05 33 13-2219 EA 5" Base Spacer, Average 4" Wide, Direct Burial	27.27	
26 05 33 13-2220 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial	25.93	
26 05 33 13-2221 EA 6" Base Spacer, Average 4" Wide, Direct Burial	30.70	
26 05 33 13-2222 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial	29.58	
 26 05 33 13-2223 Conduit Field Bending (26 05 33 13-0057)		
26 05 33 13-2224 Metallic Conduit Field Bending (26 05 33 13-2223)		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33 13-2225 EA 1-1/4" Metallic Conduit Field Bending	21.25	
26 05 33 13-2226 EA 1-1/2" Metallic Conduit Field Bending	28.34	
26 05 33 13-2227 EA 2" Metallic Conduit Field Bending	35.43	
26 05 33 13-2228 EA 2-1/2" Metallic Conduit Field Bending	49.59	
26 05 33 13-2229 EA 3" Metallic Conduit Field Bending	63.76	
26 05 33 13-2230 EA 3-1/2" Metallic Conduit Field Bending	77.93	
26 05 33 13-2231 EA 4" Metallic Conduit Field Bending	92.10	
26 05 33 13-2232 EA 5" Metallic Conduit Field Bending	113.35	
26 05 33 13-2233 EA 6" Metallic Conduit Field Bending	134.61	
 26 05 33 13-2234 Plastic Conduit Field Bending (26 05 33 13-2223)		
Note: For PVC conduits.		
26 05 33 13-2235 EA 1" Plastic Conduit Field Bending	32.59	
26 05 33 13-2236 EA 1-1/4" Plastic Conduit Field Bending	35.43	
26 05 33 13-2237 EA 1-1/2" Plastic Conduit Field Bending	42.51	
26 05 33 13-2238 EA 2" Plastic Conduit Field Bending	56.68	
26 05 33 13-2239 EA 2-1/2" Plastic Conduit Field Bending	70.84	
26 05 33 13-2240 EA 3" Plastic Conduit Field Bending	85.02	
26 05 33 13-2241 EA 3-1/2" Plastic Conduit Field Bending	99.19	
26 05 33 13-2242 EA 4" Plastic Conduit Field Bending	113.35	
26 05 33 13-2243 EA 5" Plastic Conduit Field Bending	127.52	
26 05 33 13-2244 EA 6" Plastic Conduit Field Bending	141.70	
 26 05 33 13-2245 Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0057)		
Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2246 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit	41.59	
For Work In Restricted Working Space, Add	12.48	
26 05 33 13-2247 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit	45.75	
For Work In Restricted Working Space, Add	13.73	
26 05 33 13-2248 EA 1", Cut And Thread Existing In-Place Threaded Conduit	49.91	
For Work In Restricted Working Space, Add	14.97	
26 05 33 13-2249 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit	54.07	
For Work In Restricted Working Space, Add	16.22	
26 05 33 13-2250 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit	56.84	
For Work In Restricted Working Space, Add	17.05	
26 05 33 13-2251 EA 2", Cut And Thread Existing In-Place Threaded Conduit	59.62	
For Work In Restricted Working Space, Add	17.89	
26 05 33 13-2252 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit	62.39	
For Work In Restricted Working Space, Add	18.72	
26 05 33 13-2253 EA 3", Cut And Thread Existing In-Place Threaded Conduit	65.16	
For Work In Restricted Working Space, Add	19.55	
26 05 33 13-2254 EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit	66.54	
For Work In Restricted Working Space, Add	19.96	
26 05 33 13-2255 EA 4", Cut And Thread Existing In-Place Threaded Conduit	67.94	
For Work In Restricted Working Space, Add	20.38	
26 05 33 13-2256 EA 5", Cut And Thread Existing In-Place Threaded Conduit	70.71	
For Work In Restricted Working Space, Add	21.21	
26 05 33 13-2257 EA 6", Cut And Thread Existing In-Place Threaded Conduit	73.48	
For Work In Restricted Working Space, Add	22.04	
 26 05 33 13-2258 Flexible Conduit (26 05 33 13-0057)		
26 05 33 13-2259 Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-2258)		
Note: Steel inner core with PVC cover.		
26 05 33 13-2260 Flexible Liquid Tight Metallic Conduit (26 05 33 13-2259)		
26 05 33 13-2261 LF 3/8" Flexible Liquid Tight Metallic Conduit	4.80	1.51
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.57	
For Work In Restricted Working Space, Add	1.14	
26 05 33 13-2262 LF 1/2" Flexible Liquid Tight Metallic Conduit	4.95	1.51
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.57	
For Work In Restricted Working Space, Add	1.14	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2263 LF 3/4" Flexible Liquid Tight Metallic Conduit 6.62		2.02
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.76	
For Work In Restricted Working Space, Add	1.52	
26 05 33 13-2264 LF 1" Flexible Liquid Tight Metallic Conduit 7.41		2.02
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.76	
For Work In Restricted Working Space, Add	1.52	
26 05 33 13-2265 LF 1-1/4" Flexible Liquid Tight Metallic Conduit 9.52		2.53
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.95	
For Work In Restricted Working Space, Add	1.90	
26 05 33 13-2266 LF 1-1/2" Flexible Liquid Tight Metallic Conduit 12.09		3.04
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.14	
For Work In Restricted Working Space, Add	2.28	
26 05 33 13-2267 LF 2" Flexible Liquid Tight Metallic Conduit 15.94		4.05
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.52	
For Work In Restricted Working Space, Add	3.04	
26 05 33 13-2268 LF 2-1/2" Flexible Liquid Tight Metallic Conduit 21.00		4.55
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.71	
For Work In Restricted Working Space, Add	3.42	
26 05 33 13-2269 LF 3" Flexible Liquid Tight Metallic Conduit 30.08		5.56
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.09	
For Work In Restricted Working Space, Add	4.17	
26 05 33 13-2270 LF 4" Flexible Liquid Tight Metallic Conduit 40.78		7.09
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.66	
For Work In Restricted Working Space, Add	5.31	
26 05 33 13-2271 Straight Liquid Tight Connector (26 05 33 13-2259)		
26 05 33 13-2272 EA 3/8" Straight Liquid Tight Connector 12.97		4.05
For Work In Restricted Working Space, Add	3.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.04	
26 05 33 13-2273 EA 1/2" Straight Liquid Tight Connector 12.97		4.05
For Work In Restricted Working Space, Add	3.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.04	
26 05 33 13-2274 EA 3/4" Straight Liquid Tight Connector 15.48		4.55
For Work In Restricted Working Space, Add	3.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.42	
26 05 33 13-2275 EA 1" Straight Liquid Tight Connector 19.94		5.06
For Work In Restricted Working Space, Add	3.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	
26 05 33 13-2276 EA 1-1/4" Straight Liquid Tight Connector 24.93		5.56
For Work In Restricted Working Space, Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2277 EA 1-1/2" Straight Liquid Tight Connector 30.91		6.07
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-2278 EA 2" Straight Liquid Tight Connector 41.67		7.09
For Work In Restricted Working Space, Add	5.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-2279 EA 2-1/2" Straight Liquid Tight Connector 131.53		9.11
For Work In Restricted Working Space, Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-2280 EA 3" Straight Liquid Tight Connector 168.06		9.61
For Work In Restricted Working Space, Add	7.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21	
26 05 33 13-2281 EA 4" Straight Liquid Tight Connector 207.43		14.17
For Work In Restricted Working Space, Add	10.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.63	
26 05 33 13-2282 90 Degree Angle Liquid Tight Connector (26 05 33 13-2259)		
26 05 33 13-2283 EA 3/8" 90 Degree Angle Liquid Tight Connector 18.67		5.56
For Work In Restricted Working Space, Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2284 EA 1/2" 90 Degree Angle Liquid Tight Connector 19.29		5.56
For Work In Restricted Working Space, Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2285 EA 3/4" 90 Degree Angle Liquid Tight Connector 21.65		6.07
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-2286 EA 1" 90 Degree Angle Liquid Tight Connector 29.47		7.09
For Work In Restricted Working Space, Add	5.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-2287 EA 1-1/4" 90 Degree Angle Liquid Tight Connector 36.17		7.59
For Work In Restricted Working Space, Add	5.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2288 EA 1-1/2" 90 Degree Angle Liquid Tight Connector 43.07		8.10
For Work In Restricted Working Space, Add	6.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 05 33 13-2289 EA 2" 90 Degree Angle Liquid Tight Connector 55.84		9.11
For Work In Restricted Working Space, Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-2290 EA 2-1/2" 90 Degree Angle Liquid Tight Connector 181.52		9.61
For Work In Restricted Working Space, Add	7.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2291	EA		3" 90 Degree Angle Liquid Tight Connector.....	214.33	11.13
			For Work In Restricted Working Space, Add	8.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35	
26 05 33 13-2292	EA		4" 90 Degree Angle Liquid Tight Connector.....	298.15	17.71
			For Work In Restricted Working Space, Add	13.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-2293 45 Degree Angle Connector (26 05 33 13-2259)					
26 05 33 13-2294	EA		3/8" 45 Degree Angle Liquid Tight Connector.....	18.47	5.56
			For Work In Restricted Working Space, Add	4.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2295	EA		1/2" 45 Degree Angle Liquid Tight Connector.....	18.61	5.56
			For Work In Restricted Working Space, Add	4.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2296	EA		3/4" 45 Degree Angle Liquid Tight Connector.....	21.65	6.07
			For Work In Restricted Working Space, Add	4.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-2297	EA		1" 45 Degree Angle Liquid Tight Connector.....	31.14	7.09
			For Work In Restricted Working Space, Add	5.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-2298	EA		1-1/4" 45 Degree Angle Liquid Tight Connector	35.08	7.59
			For Work In Restricted Working Space, Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2299	EA		1-1/2" 45 Degree Angle Liquid Tight Connector	39.01	8.10
			For Work In Restricted Working Space, Add	6.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 05 33 13-2300 Flexible Metallic Conduit And Connectors (26 05 33 13-2258)					
26 05 33 13-2301 Flexible Steel Conduit (26 05 33 13-2300)					
26 05 33 13-2302	LF		3/8" Flexible Metallic Conduit.....	4.64	1.66
			For Flexible Aluminum Conduit, Add	0.10	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.61	
			For Installation In Metal Stud Wall, Add	0.41	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.02	
			For Work In Restricted Working Space, Add	1.22	
26 05 33 13-2303	LF		1/2" Flexible Metallic Conduit.....	4.80	1.66
			For Flexible Aluminum Conduit, Add	0.11	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.62	
			For Installation In Metal Stud Wall, Add	0.42	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.04	
			For Work In Restricted Working Space, Add	1.25	
26 05 33 13-2304	LF		3/4" Flexible Metallic Conduit.....	5.37	2.21
			For Flexible Aluminum Conduit, Add	0.14	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.68	
			For Installation In Metal Stud Wall, Add	0.45	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.13	
			For Work In Restricted Working Space, Add	1.35	
26 05 33 13-2305	LF		1" Flexible Metallic Conduit.....	6.48	2.21
			For Flexible Aluminum Conduit, Add	0.27	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.73	
			For Installation In Metal Stud Wall, Add	0.49	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.21	
			For Work In Restricted Working Space, Add	1.46	
26 05 33 13-2306	LF		1-1/4" Flexible Metallic Conduit	7.24	2.77
			For Flexible Aluminum Conduit, Add	0.35	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.77	
			For Installation In Metal Stud Wall, Add	0.51	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.28	
			For Work In Restricted Working Space, Add	1.54	
26 05 33 13-2307	LF		1-1/2" Flexible Metallic Conduit	9.05	3.33
			For Flexible Aluminum Conduit, Add	0.61	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.80	
			For Installation In Metal Stud Wall, Add	0.53	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.33	
			For Work In Restricted Working Space, Add	1.60	
26 05 33 13-2308	LF		2" Flexible Metallic Conduit.....	10.11	4.43
			For Flexible Aluminum Conduit, Add	0.75	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.83	
			For Installation In Metal Stud Wall, Add	0.55	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.39	
			For Work In Restricted Working Space, Add	1.66	
26 05 33 13-2309	LF		2-1/2" Flexible Steel Conduit	12.44	4.98
			For Flexible Aluminum Conduit, Add	0.91	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.04	
			For Installation In Metal Stud Wall, Add	0.69	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.73	
			For Work In Restricted Working Space, Add	2.08	
26 05 33 13-2310	LF		3" Flexible Metallic Conduit.....	17.91	6.09
			For Flexible Aluminum Conduit, Add	1.58	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.25	
			For Installation In Metal Stud Wall, Add	0.83	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.08	
			For Work In Restricted Working Space, Add	2.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2311 LF 3-1/2" Flexible Metallic Conduit.....	21.79	6.64
For Flexible Aluminum Conduit, Add	2.00	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.45	
For Installation In Metal Stud Wall, Add	0.97	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.42	
For Work In Restricted Working Space, Add	2.91	
26 05 33 13-2312 LF 4" Flexible Metallic Conduit.....	25.03	7.76
For Flexible Aluminum Conduit, Add	2.30	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.66	
For Installation In Metal Stud Wall, Add	1.11	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.77	
For Work In Restricted Working Space, Add	3.32	
26 05 33 13-2313 Plain Squeeze Type Straight Connector (26 05 33 13-2300)		
26 05 33 13-2314 EA 3/8" Flexible Straight Connectors, Plain.....	7.70	4.43
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2315 EA 1/2" Flexible Straight Connectors, Plain.....	9.26	4.98
For Work In Restricted Working Space, Add	2.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.08	
26 05 33 13-2316 EA 3/4" Flexible Straight Connectors, Plain.....	10.77	6.09
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2317 EA 1" Flexible Straight Connectors, Plain.....	16.47	6.64
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2318 EA 1-1/4" Flexible Straight Connectors, Plain.....	22.70	7.76
For Work In Restricted Working Space, Add	4.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2319 EA 1-1/2" Flexible Straight Connectors, Plain.....	29.59	9.42
For Work In Restricted Working Space, Add	5.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-2320 EA 2" Flexible Straight Connectors, Plain.....	38.24	9.42
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2321 EA 2-1/2" Flexible Straight Connectors, Plain.....	58.55	11.63
For Work In Restricted Working Space, Add	7.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.27	
26 05 33 13-2322 EA 3" Flexible Straight Connectors, Plain.....	75.28	12.73
For Work In Restricted Working Space, Add	8.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 33 13-2323 EA 3-1/2" Flexible Straight Connectors, Plain.....	215.18	14.95
For Work In Restricted Working Space, Add	9.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 33 13-2324 EA 4" Flexible Straight Connectors, Plain.....	267.42	18.28
For Work In Restricted Working Space, Add	10.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	
26 05 33 13-2325 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-2300)		
26 05 33 13-2326 EA 1/2" Flexible Straight Connectors, Insulated.....	10.06	4.98
For Work In Restricted Working Space, Add	2.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.08	
26 05 33 13-2327 EA 3/4" Flexible Straight Connectors, Insulated.....	11.83	6.09
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2328 EA 1" Flexible Straight Connectors, Insulated.....	17.91	6.64
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2329 EA 1-1/4" Flexible Straight Connectors, Insulated.....	25.34	7.76
For Work In Restricted Working Space, Add	4.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2330 EA 1-1/2" Flexible Straight Connectors, Insulated.....	34.28	8.31
For Work In Restricted Working Space, Add	5.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-2331 EA 2" Flexible Straight Connectors, Insulated.....	46.53	9.42
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2332 EA 2-1/2" Flexible Straight Connectors, Insulated.....	76.30	11.63
For Work In Restricted Working Space, Add	7.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.27	
26 05 33 13-2333 EA 3" Flexible Straight Connectors, Insulated.....	96.20	12.73
For Work In Restricted Working Space, Add	8.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 33 13-2334 EA 3-1/2" Flexible Straight Connectors, Insulated.....	247.42	14.95
For Work In Restricted Working Space, Add	9.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 33 13-2335 EA 4" Flexible Straight Connectors, Insulated.....	315.90	18.28
For Work In Restricted Working Space, Add	10.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	

26 05 33 13-2336 Plain Squeeze Type 90 Degree Connector (26 05 33 13-2300)



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2337	EA		3/8" Flexible 90 Degree Connector, Plain.....	10.67	5.54
			For Work In Restricted Working Space, Add	2.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2338	EA		1/2" Flexible 90 Degree Connector, Plain.....	13.64	6.09
			For Work In Restricted Working Space, Add	2.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.91	
26 05 33 13-2339	EA		3/4" Flexible 90 Degree Connector, Plain.....	17.25	6.64
			For Work In Restricted Working Space, Add	3.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2340	EA		1" Flexible 90 Degree Connector, Plain.....	23.60	7.76
			For Work In Restricted Working Space, Add	4.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2341	EA		1-1/4" Flexible 90 Degree Connector, Plain.....	35.13	8.31
			For Work In Restricted Working Space, Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-2342	EA		1-1/2" Flexible 90 Degree Connector, Plain.....	53.13	9.69
			For Work In Restricted Working Space, Add	6.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2343	EA		2" Flexible 90 Degree Connector, Plain.....	63.56	11.90
			For Work In Restricted Working Space, Add	7.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-2344	EA		2-1/2" Flexible 90 Degree Connector, Plain.....	132.01	12.73
			For Work In Restricted Working Space, Add	8.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 33 13-2345	EA		3" Flexible 90 Degree Connector, Plain.....	168.10	14.95
			For Work In Restricted Working Space, Add	9.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 33 13-2346	EA		3-1/2" Flexible 90 Degree Connector, Plain.....	346.05	18.28
			For Work In Restricted Working Space, Add	10.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	
26 05 33 13-2347	EA		4" Flexible 90 Degree Connector, Plain.....	611.43	20.77
			For Work In Restricted Working Space, Add	12.46	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 05 33 13-2348 Insulated Throat Squeeze Type 90 Degree Connector (26 05 33 13-2300)					
26 05 33 13-2349	EA		1/2" Flexible 90 Degree Connector, Insulated.....	14.75	6.09
			For Work In Restricted Working Space, Add	2.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.91	
26 05 33 13-2350	EA		3/4" Flexible 90 Degree Connector, Insulated.....	18.63	6.64
			For Work In Restricted Working Space, Add	3.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2351	EA		1" Flexible 90 Degree Connector, Insulated.....	23.60	7.76
			For Work In Restricted Working Space, Add	4.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2352	EA		1-1/4" Flexible 90 Degree Connector, Insulated.....	40.02	8.31
			For Work In Restricted Working Space, Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-2353	EA		1-1/2" Flexible 90 Degree Connector, Insulated.....	62.02	9.69
			For Work In Restricted Working Space, Add	6.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2354	EA		2" Flexible 90 Degree Connector, Insulated.....	78.01	11.90
			For Work In Restricted Working Space, Add	7.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-2355	EA		2-1/2" Flexible 90 Degree Connector, Insulated.....	177.19	12.73
			For Work In Restricted Working Space, Add	8.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 05 33 13-2356	EA		3" Flexible 90 Degree Connector, Insulated.....	217.05	14.95
			For Work In Restricted Working Space, Add	9.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 33 13-2357	EA		3-1/2" Flexible 90 Degree Connector, Insulated.....	567.91	18.28
			For Work In Restricted Working Space, Add	10.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	
26 05 33 13-2358	EA		4" Flexible 90 Degree Connector, Insulated.....	843.80	20.77
			For Work In Restricted Working Space, Add	12.46	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 05 33 13-2359 Plain Squeeze Type 45 Degree Connector (26 05 33 13-2300)					
26 05 33 13-2360	EA		3/8" Flexible 45 Degree Connector, Plain.....	11.57	5.54
			For Work In Restricted Working Space, Add	2.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2361	EA		1/2" Flexible 45 Degree Connector, Plain.....	15.08	6.09
			For Work In Restricted Working Space, Add	2.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.91	
26 05 33 13-2362	EA		3/4" Flexible 45 Degree Connector, Plain.....	18.86	6.64
			For Work In Restricted Working Space, Add	3.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2363 Insulated Squeeze Type 45 Degree Connector (26 05 33 13-2300)					
26 05 33 13-2364	EA		3/8" Flexible 45 Degree Connector, Insulated.....	12.19	6.64
			For Work In Restricted Working Space, Add	2.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2365 EA 1/2" Flexible 45 Degree Connector, Insulated.....	16.10	6.09
For Work In Restricted Working Space, Add	2.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.91	
26 05 33 13-2366 EA 3/4" Flexible 45 Degree Connector, Insulated.....	20.31	6.64
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2367 Plain Screw-In Connector (26 05 33 13-2300)		
26 05 33 13-2368 EA 3/8" Flexible Steel Screw-in Connector, Plain.....	6.77	4.43
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2369 EA 1/2" Flexible Steel Screw-in Connector, Plain.....	7.37	4.98
For Work In Restricted Working Space, Add	2.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.08	
26 05 33 13-2370 EA 3/4" Flexible Steel Screw-in Connector, Plain.....	9.23	6.09
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2371 EA 1" Flexible Steel Screw-in Connector, Plain.....	12.91	6.64
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2372 EA 1-1/4" Flexible Steel Screw-in Connector, Plain.....	18.16	7.76
For Work In Restricted Working Space, Add	4.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2373 EA 1-1/2" Flexible Steel Screw-in Connector, Plain.....	22.32	8.31
For Work In Restricted Working Space, Add	5.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-2374 EA 2" Flexible Steel Screw-in Connector, Plain.....	31.20	9.42
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2375 Insulated Screw-In Connector (26 05 33 13-2300)		
26 05 33 13-2376 EA 3/8" Flexible Steel Screw-in Connector, Insulated.....	7.04	4.43
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2377 EA 1/2" Flexible Steel Screw-in Connector, Insulated.....	7.58	4.98
For Work In Restricted Working Space, Add	2.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.08	
26 05 33 13-2378 EA 3/4" Flexible Steel Screw-in Connector, Insulated.....	9.77	6.09
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2379 EA 1" Flexible Steel Screw-in Connector, Insulated.....	13.75	6.64
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2380 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated.....	19.35	7.76
For Work In Restricted Working Space, Add	4.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2381 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated.....	23.75	8.31
For Work In Restricted Working Space, Add	5.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-2382 EA 2" Flexible Steel Screw-in Connector, Insulated.....	32.46	9.42
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2383 Screw-In Coupling (26 05 33 13-2300)		
26 05 33 13-2384 EA 1/2" Flexible Steel Screw-in Coupling.....	7.89	4.98
For Work In Restricted Working Space, Add	2.08	
26 05 33 13-2385 EA 3/4" Flexible Steel Screw-in Coupling.....	10.09	6.09
For Work In Restricted Working Space, Add	2.49	
26 05 33 13-2386 Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-2300)		
26 05 33 13-2387 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	9.55	4.43
For Work In Restricted Working Space, Add	1.87	
26 05 33 13-2388 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	12.45	4.98
For Work In Restricted Working Space, Add	2.08	
26 05 33 13-2389 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	16.17	6.09
For Work In Restricted Working Space, Add	2.49	
26 05 33 13-2390 Die Cast Squeeze Type Straight Connector (26 05 33 13-2300)		
26 05 33 13-2391 EA 3/8" Flexible Straight Connector, Die Cast.....	6.94	4.43
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2392 EA 1/2" Flexible Straight Connector, Die Cast.....	7.81	4.98
For Work In Restricted Working Space, Add	2.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.08	
26 05 33 13-2393 EA 3/4" Flexible Straight Connector, Die Cast.....	9.59	6.09
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2394 EA 1" Flexible Straight Connector, Die Cast.....	13.94	6.64
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2395 EA 1-1/4" Flexible Straight Connector, Die Cast.....	18.42	7.76
For Work In Restricted Working Space, Add	4.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2396 EA 1-1/2" Flexible Straight Connector, Die Cast.....	24.47	8.31
For Work In Restricted Working Space, Add	5.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.19	
26 05 33 13-2397 EA 2" Flexible Straight Connector, Die Cast.....	31.09	9.42
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2398 Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-2300)		
26 05 33 13-2399 EA 3/8" Flexible 90 Degree Connector, Die Cast.....	9.21	5.54
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2400 EA 1/2" Flexible 90 Degree Connector, Die Cast.....	11.21	6.09
For Work In Restricted Working Space, Add	2.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.91	
26 05 33 13-2401 EA 3/4" Flexible 90 Degree Connector, Die Cast.....	13.36	6.64
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2402 EA 1" Flexible 90 Degree Connector, Die Cast.....	19.90	7.76
For Work In Restricted Working Space, Add	4.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2403 EA 1-1/4" Flexible 90 Degree Connector, Die Cast.....	27.18	8.31
For Work In Restricted Working Space, Add	4.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-2404 EA 1-1/2" Flexible 90 Degree Connector, Die Cast.....	40.50	9.69
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2405 EA 2" Flexible 90 Degree Connector, Die Cast.....	47.97	11.90
For Work In Restricted Working Space, Add	7.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-2406 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-2258)		
26 05 33 13-2407 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-2406)		
26 05 33 13-2408 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit.....	4.56	1.51
For Work In Restricted Working Space, Add	1.14	
26 05 33 13-2409 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit.....	4.62	1.51
For Work In Restricted Working Space, Add	1.14	
26 05 33 13-2410 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit.....	6.20	2.02
For Work In Restricted Working Space, Add	1.52	
26 05 33 13-2411 LF 1" Flexible Liquid Tight Non-Metallic Conduit.....	7.36	2.02
For Work In Restricted Working Space, Add	1.52	
26 05 33 13-2412 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit.....	9.32	2.53
For Work In Restricted Working Space, Add	1.90	
26 05 33 13-2413 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit.....	11.76	3.04
For Work In Restricted Working Space, Add	2.28	
26 05 33 13-2414 LF 2" Flexible Liquid Tight Non-Metallic Conduit.....	15.20	4.05
For Work In Restricted Working Space, Add	3.04	
26 05 33 13-2415 Liquid Tight Non-Metallic Straight Connector (26 05 33 13-2406)		
26 05 33 13-2416 EA 3/8" Liquid Tight Non-Metallic Straight Connector.....	12.92	4.05
For Work In Restricted Working Space, Add	3.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.04	
26 05 33 13-2417 EA 1/2" Liquid Tight Non-Metallic Straight Connector.....	12.92	4.05
For Work In Restricted Working Space, Add	3.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.04	
26 05 33 13-2418 EA 3/4" Liquid Tight Non-Metallic Straight Connector.....	15.54	4.55
For Work In Restricted Working Space, Add	3.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.42	
26 05 33 13-2419 EA 1" Liquid Tight Non-Metallic Straight Connector.....	18.88	5.06
For Work In Restricted Working Space, Add	3.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	
26 05 33 13-2420 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector.....	25.09	5.56
For Work In Restricted Working Space, Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2421 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector.....	30.74	6.07
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-2422 EA 2" Liquid Tight Non-Metallic Straight Connector.....	46.25	7.09
For Work In Restricted Working Space, Add	5.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-2423 Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-2406)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2424 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	18.47	5.56
For Work In Restricted Working Space, Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2425 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	18.47	5.56
For Work In Restricted Working Space, Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2426 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	22.19	6.07
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-2427 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	30.36	7.09
For Work In Restricted Working Space, Add	5.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-2428 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	31.56	7.59
For Work In Restricted Working Space, Add	5.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2429 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	47.23	8.10
For Work In Restricted Working Space, Add	6.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 05 33 13-2430 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	62.27	9.11
For Work In Restricted Working Space, Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-2431 Liquid Tight Non-Metallic 45 Degree Angle Connector (26 05 33 13-2406)		
26 05 33 13-2432 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	18.47	5.56
For Work In Restricted Working Space, Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2433 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	18.47	5.56
For Work In Restricted Working Space, Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-2434 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	22.19	6.07
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-2435 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	30.36	7.09
For Work In Restricted Working Space, Add	5.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-2436 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	31.56	7.59
For Work In Restricted Working Space, Add	5.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2437 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	47.23	8.10
For Work In Restricted Working Space, Add	6.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 05 33 13-2438 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	62.27	9.11
For Work In Restricted Working Space, Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-2439 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2258)		
Note: Carlon - FLEX-PLUS.		
26 05 33 13-2440 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2439)		
26 05 33 13-2441 LF 1/2" Blue ENT Electrical Non-Metallic Tubing.....	5.29	1.66
For Work In Restricted Working Space, Add	1.25	
26 05 33 13-2442 LF 3/4" Blue ENT Electrical Non-Metallic Tubing.....	7.11	2.21
For Work In Restricted Working Space, Add	1.66	
26 05 33 13-2443 LF 1" Blue ENT Electrical Non-Metallic Tubing.....	8.08	2.21
For Work In Restricted Working Space, Add	1.66	
26 05 33 13-2444 Terminal Adapter (26 05 33 13-2439)		
26 05 33 13-2445 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	12.92	4.43
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-2446 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	15.84	4.98
For Work In Restricted Working Space, Add	3.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 33 13-2447 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	18.20	5.54
For Work In Restricted Working Space, Add	4.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2448 Coupling (26 05 33 13-2439)		
26 05 33 13-2449 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	12.68	4.43
For Work In Restricted Working Space, Add	3.32	
26 05 33 13-2450 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	14.55	4.98
For Work In Restricted Working Space, Add	3.74	
26 05 33 13-2451 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	16.99	5.54
For Work In Restricted Working Space, Add	4.16	
26 05 33 13-2452 Conduit Bodies (26 05 33 13-0057)		
26 05 33 13-2453 Threaded, Cast Aluminum Conduit Body (26 05 33 13-2452)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2454			Type LB, Threaded, Two Hub Cast Aluminum Conduit Body (26 05 33 13-2453)		
26 05 33 13-2455	EA		1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	68.87	24.28
			For Mogul LB, Add	3.08	
			For Work In Restricted Working Space, Add	18.22	
			For Elevated Installation >10' To 15', Add	6.07	
			For Elevated Installation >15' To 20', Add	12.14	
			For Elevated Installation >20' To 25', Add	15.18	
			For Elevated Installation >25' To 30', Add	21.25	
			For Elevated Installation >30' To 35', Add	24.29	
			For Elevated Installation >35' To 40', Add	30.36	
			For Elevated Installation >40', Add	33.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.22	
26 05 33 13-2456	EA		3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	80.64	27.83
			For Mogul LB, Add	4.82	
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87	
26 05 33 13-2457	EA		1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	96.72	32.38
			For Mogul LB, Add	7.77	
			For Work In Restricted Working Space, Add	24.29	
			For Elevated Installation >10' To 15', Add	8.10	
			For Elevated Installation >15' To 20', Add	16.19	
			For Elevated Installation >20' To 25', Add	20.24	
			For Elevated Installation >25' To 30', Add	28.34	
			For Elevated Installation >30' To 35', Add	32.38	
			For Elevated Installation >35' To 40', Add	40.48	
			For Elevated Installation >40', Add	44.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.29	
26 05 33 13-2458	EA		1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	115.88	36.93
			For Mogul LB, Add	13.03	
			For Work In Restricted Working Space, Add	27.71	
			For Elevated Installation >10' To 15', Add	9.24	
			For Elevated Installation >15' To 20', Add	18.47	
			For Elevated Installation >20' To 25', Add	23.09	
			For Elevated Installation >25' To 30', Add	32.32	
			For Elevated Installation >30' To 35', Add	36.94	
			For Elevated Installation >35' To 40', Add	46.18	
			For Elevated Installation >40', Add	50.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.71	
26 05 33 13-2459	EA		1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	131.55	40.48
			For Mogul LB, Add	17.71	
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	
26 05 33 13-2460	EA		2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	170.47	48.58
			For Mogul LB, Add	30.71	
			For Work In Restricted Working Space, Add	36.43	
			For Elevated Installation >10' To 15', Add	12.14	
			For Elevated Installation >15' To 20', Add	24.29	
			For Elevated Installation >20' To 25', Add	30.36	
			For Elevated Installation >25' To 30', Add	42.50	
			For Elevated Installation >30' To 35', Add	48.57	
			For Elevated Installation >35' To 40', Add	60.72	
			For Elevated Installation >40', Add	66.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.43	
26 05 33 13-2461	EA		2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	279.31	68.30
			For Mogul LB, Add	72.87	
			For Work In Restricted Working Space, Add	51.23	
			For Elevated Installation >10' To 15', Add	17.08	
			For Elevated Installation >15' To 20', Add	34.15	
			For Elevated Installation >20' To 25', Add	42.69	
			For Elevated Installation >25' To 30', Add	59.77	
			For Elevated Installation >30' To 35', Add	68.31	
			For Elevated Installation >35' To 40', Add	85.39	
			For Elevated Installation >40', Add	93.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-2462	EA	3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	367.83		91.07
		For Mogul LB, Add	93.72		
		For Work In Restricted Working Space, Add	68.31		
		For Elevated Installation >10' To 15', Add	22.77		
		For Elevated Installation >15' To 20', Add	45.54		
		For Elevated Installation >20' To 25', Add	56.92		
		For Elevated Installation >25' To 30', Add	79.69		
		For Elevated Installation >30' To 35', Add	91.08		
		For Elevated Installation >35' To 40', Add	113.85		
		For Elevated Installation >40', Add	125.23		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.31		
26 05 33 13-2463	EA	3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	485.03		113.84
		For Mogul LB, Add	136.08		
		For Work In Restricted Working Space, Add	85.38		
		For Elevated Installation >10' To 15', Add	28.46		
		For Elevated Installation >15' To 20', Add	56.92		
		For Elevated Installation >20' To 25', Add	71.15		
		For Elevated Installation >25' To 30', Add	99.61		
		For Elevated Installation >30' To 35', Add	113.84		
		For Elevated Installation >35' To 40', Add	142.31		
		For Elevated Installation >40', Add	156.54		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.38		
26 05 33 13-2464	EA	4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	625.09		138.64
		For Mogul LB, Add	191.55		
		For Work In Restricted Working Space, Add	103.98		
		For Elevated Installation >10' To 15', Add	34.66		
		For Elevated Installation >15' To 20', Add	69.32		
		For Elevated Installation >20' To 25', Add	86.65		
		For Elevated Installation >25' To 30', Add	121.31		
		For Elevated Installation >30' To 35', Add	138.64		
		For Elevated Installation >35' To 40', Add	173.30		
		For Elevated Installation >40', Add	190.62		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.98		
26 05 33 13-2465 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover					
(26 05 33 13-2463)					
26 05 33 13-2466	EA	1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	69.86		24.28
		For Mogul LB, Add	3.82		
		For Work In Restricted Working Space, Add	18.22		
		For Elevated Installation >10' To 15', Add	6.07		
		For Elevated Installation >15' To 20', Add	12.14		
		For Elevated Installation >20' To 25', Add	15.18		
		For Elevated Installation >25' To 30', Add	21.25		
		For Elevated Installation >30' To 35', Add	24.29		
		For Elevated Installation >35' To 40', Add	30.36		
		For Elevated Installation >40', Add	33.40		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.22		
26 05 33 13-2467	EA	3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	81.61		27.83
		For Mogul LB, Add	5.55		
		For Work In Restricted Working Space, Add	20.87		
		For Elevated Installation >10' To 15', Add	6.96		
		For Elevated Installation >15' To 20', Add	13.91		
		For Elevated Installation >20' To 25', Add	17.39		
		For Elevated Installation >25' To 30', Add	24.35		
		For Elevated Installation >30' To 35', Add	27.83		
		For Elevated Installation >35' To 40', Add	34.79		
		For Elevated Installation >40', Add	38.26		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87		
26 05 33 13-2468	EA	1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	98.67		32.38
		For Mogul LB, Add	9.23		
		For Work In Restricted Working Space, Add	24.29		
		For Elevated Installation >10' To 15', Add	8.10		
		For Elevated Installation >15' To 20', Add	16.19		
		For Elevated Installation >20' To 25', Add	20.24		
		For Elevated Installation >25' To 30', Add	28.34		
		For Elevated Installation >30' To 35', Add	32.38		
		For Elevated Installation >35' To 40', Add	40.48		
		For Elevated Installation >40', Add	44.53		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.29		
26 05 33 13-2469	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	118.26		36.93
		For Mogul LB, Add	14.82		
		For Work In Restricted Working Space, Add	27.71		
		For Elevated Installation >10' To 15', Add	9.24		
		For Elevated Installation >15' To 20', Add	18.47		
		For Elevated Installation >20' To 25', Add	23.09		
		For Elevated Installation >25' To 30', Add	32.32		
		For Elevated Installation >30' To 35', Add	36.94		
		For Elevated Installation >35' To 40', Add	46.18		
		For Elevated Installation >40', Add	50.79		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.71		



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2470	EA	1-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.59 20.74 30.36 10.12 20.24 25.30 35.42 40.48 50.60 55.65 30.36	40.48
26 05 33 13-2471	EA	2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.14 37.21 36.43 12.14 24.29 30.36 42.50 48.57 60.72 66.79 36.43	48.58
26 05 33 13-2472	EA	2-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	274.93 69.58 51.23 17.08 34.15 42.69 59.77 68.31 85.39 93.92 51.23	68.30
26 05 33 13-2473	EA	3"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	353.12 82.69 68.31 22.77 45.54 56.92 79.69 91.08 113.85 125.23 68.31	91.07
26 05 33 13-2474	EA	3-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	497.57 145.49 85.38 28.46 56.92 71.15 99.61 113.84 142.31 156.54 85.38	113.84
26 05 33 13-2475	EA	4"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	650.72 210.77 103.98 34.66 69.32 86.65 121.31 138.64 173.30 190.62 103.98	138.64
26 05 33 13-2476	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2453)				
26 05 33 13-2477	EA	1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.38 20.87 6.96 13.91 17.39 24.35 27.83 34.79 38.26 20.87	27.83

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2478	EA	3/4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	94.88	32.38
			For Work In Restricted Working Space, Add	24.29	
			For Elevated Installation >10' To 15', Add	8.10	
			For Elevated Installation >15' To 20', Add	16.19	
			For Elevated Installation >20' To 25', Add	20.24	
			For Elevated Installation >25' To 30', Add	28.34	
			For Elevated Installation >30' To 35', Add	32.38	
			For Elevated Installation >35' To 40', Add	40.48	
			For Elevated Installation >40', Add	44.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.29	
26 05 33 13-2479	EA	1"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	108.24	35.42
			For Work In Restricted Working Space, Add	26.57	
			For Elevated Installation >10' To 15', Add	8.86	
			For Elevated Installation >15' To 20', Add	17.71	
			For Elevated Installation >20' To 25', Add	22.14	
			For Elevated Installation >25' To 30', Add	30.99	
			For Elevated Installation >30' To 35', Add	35.42	
			For Elevated Installation >35' To 40', Add	44.28	
			For Elevated Installation >40', Add	48.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-2480	EA	1-1/4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	131.04	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	
26 05 33 13-2481	EA	1-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	150.12	44.53
			For Work In Restricted Working Space, Add	33.40	
			For Elevated Installation >10' To 15', Add	11.13	
			For Elevated Installation >15' To 20', Add	22.26	
			For Elevated Installation >20' To 25', Add	27.83	
			For Elevated Installation >25' To 30', Add	38.96	
			For Elevated Installation >30' To 35', Add	44.53	
			For Elevated Installation >35' To 40', Add	55.66	
			For Elevated Installation >40', Add	61.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.40	
26 05 33 13-2482	EA	2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	196.65	52.12
			For Work In Restricted Working Space, Add	39.09	
			For Elevated Installation >10' To 15', Add	13.03	
			For Elevated Installation >15' To 20', Add	26.06	
			For Elevated Installation >20' To 25', Add	32.57	
			For Elevated Installation >25' To 30', Add	45.60	
			For Elevated Installation >30' To 35', Add	52.12	
			For Elevated Installation >35' To 40', Add	65.15	
			For Elevated Installation >40', Add	71.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.09	
26 05 33 13-2483	EA	2-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	306.99	75.90
			For Work In Restricted Working Space, Add	56.92	
			For Elevated Installation >10' To 15', Add	18.97	
			For Elevated Installation >15' To 20', Add	37.95	
			For Elevated Installation >20' To 25', Add	47.44	
			For Elevated Installation >25' To 30', Add	66.41	
			For Elevated Installation >30' To 35', Add	75.90	
			For Elevated Installation >35' To 40', Add	94.87	
			For Elevated Installation >40', Add	104.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 05 33 13-2484	EA	3"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	396.97	98.67
			For Work In Restricted Working Space, Add	74.00	
			For Elevated Installation >10' To 15', Add	24.67	
			For Elevated Installation >15' To 20', Add	49.33	
			For Elevated Installation >20' To 25', Add	61.67	
			For Elevated Installation >25' To 30', Add	86.33	
			For Elevated Installation >30' To 35', Add	98.66	
			For Elevated Installation >35' To 40', Add	123.33	
			For Elevated Installation >40', Add	135.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.00	
26 05 33 13-2485	EA	3-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	615.76	121.43
			For Work In Restricted Working Space, Add	91.07	
			For Elevated Installation >10' To 15', Add	30.36	
			For Elevated Installation >15' To 20', Add	60.72	
			For Elevated Installation >20' To 25', Add	75.90	
			For Elevated Installation >25' To 30', Add	106.25	
			For Elevated Installation >30' To 35', Add	121.43	
			For Elevated Installation >35' To 40', Add	151.79	
			For Elevated Installation >40', Add	166.97	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.07	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2486	EA		4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	709.29	146.23
			For Work In Restricted Working Space, Add	109.67	
			For Elevated Installation >10' To 15', Add	36.56	
			For Elevated Installation >15' To 20', Add	73.11	
			For Elevated Installation >20' To 25', Add	91.39	
			For Elevated Installation >25' To 30', Add	127.95	
			For Elevated Installation >30' To 35', Add	146.22	
			For Elevated Installation >35' To 40', Add	182.78	
			For Elevated Installation >40', Add	201.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.67	
26 05 33 13-2487			Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2483)		
26 05 33 13-2488	EA		1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	70.06	24.28
			For Work In Restricted Working Space, Add	18.22	
			For Elevated Installation >10' To 15', Add	6.07	
			For Elevated Installation >15' To 20', Add	12.14	
			For Elevated Installation >20' To 25', Add	15.18	
			For Elevated Installation >25' To 30', Add	21.25	
			For Elevated Installation >30' To 35', Add	24.29	
			For Elevated Installation >35' To 40', Add	30.36	
			For Elevated Installation >40', Add	33.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.22	
26 05 33 13-2489	EA		3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	80.92	27.83
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87	
26 05 33 13-2490	EA		1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	96.61	31.88
			For Work In Restricted Working Space, Add	23.91	
			For Elevated Installation >10' To 15', Add	7.97	
			For Elevated Installation >15' To 20', Add	15.94	
			For Elevated Installation >20' To 25', Add	19.92	
			For Elevated Installation >25' To 30', Add	27.89	
			For Elevated Installation >30' To 35', Add	31.88	
			For Elevated Installation >35' To 40', Add	39.85	
			For Elevated Installation >40', Add	43.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.91	
26 05 33 13-2491	EA		1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	117.31	36.93
			For Work In Restricted Working Space, Add	27.71	
			For Elevated Installation >10' To 15', Add	9.24	
			For Elevated Installation >15' To 20', Add	18.47	
			For Elevated Installation >20' To 25', Add	23.09	
			For Elevated Installation >25' To 30', Add	32.32	
			For Elevated Installation >30' To 35', Add	36.94	
			For Elevated Installation >35' To 40', Add	46.18	
			For Elevated Installation >40', Add	50.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.71	
26 05 33 13-2492	EA		1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	130.89	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	
26 05 33 13-2493	EA		2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	170.54	48.58
			For Work In Restricted Working Space, Add	36.43	
			For Elevated Installation >10' To 15', Add	12.14	
			For Elevated Installation >15' To 20', Add	24.29	
			For Elevated Installation >20' To 25', Add	30.36	
			For Elevated Installation >25' To 30', Add	42.50	
			For Elevated Installation >30' To 35', Add	48.57	
			For Elevated Installation >35' To 40', Add	60.72	
			For Elevated Installation >40', Add	66.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.43	
26 05 33 13-2494	EA		2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	271.25	68.30
			For Work In Restricted Working Space, Add	51.23	
			For Elevated Installation >10' To 15', Add	17.08	
			For Elevated Installation >15' To 20', Add	34.15	
			For Elevated Installation >20' To 25', Add	42.69	
			For Elevated Installation >25' To 30', Add	59.77	
			For Elevated Installation >30' To 35', Add	68.31	
			For Elevated Installation >35' To 40', Add	85.39	
			For Elevated Installation >40', Add	93.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2495	EA	3"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	350.77 68.31 22.77 45.54 56.92 79.69 91.08 113.85 125.23 68.31	91.07
26 05 33 13-2496	EA	3-1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	490.03 85.38 28.46 56.92 71.15 99.61 113.84 142.31 156.54 85.38	113.84
26 05 33 13-2497	EA	4"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	627.44 103.98 34.66 69.32 86.65 121.31 138.64 173.30 190.62 103.98	138.64
26 05 33 13-2498 Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2493)					
26 05 33 13-2499	EA	1-1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.96 23.91 7.97 15.94 19.92 27.89 31.88 39.85 43.83 23.91	31.88
26 05 33 13-2500	EA	3/4"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.50 26.57 8.86 17.71 22.14 30.99 35.42 44.28 48.70 26.57	35.42
26 05 33 13-2501	EA	1"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.76 29.22 9.74 19.48 24.35 34.09 38.96 48.70 53.57 29.22	38.96
26 05 33 13-2502	EA	1-1/4"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.07 33.40 11.13 22.26 27.83 38.96 44.53 55.66 61.23 33.40	44.53
26 05 33 13-2503	EA	1-1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	184.04 36.43 12.14 24.29 30.36 42.50 48.57 60.72 66.79 36.43	48.58



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2504	EA	2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	223.10	59.70
			For Work In Restricted Working Space, Add	44.78	
			For Elevated Installation >10' To 15', Add	14.93	
			For Elevated Installation >15' To 20', Add	29.85	
			For Elevated Installation >20' To 25', Add	37.32	
			For Elevated Installation >25' To 30', Add	52.24	
			For Elevated Installation >30' To 35', Add	59.70	
			For Elevated Installation >35' To 40', Add	74.63	
			For Elevated Installation >40', Add	82.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.78	
26 05 33 13-2505	EA	2-1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	402.04	87.53
			For Work In Restricted Working Space, Add	65.65	
			For Elevated Installation >10' To 15', Add	21.88	
			For Elevated Installation >15' To 20', Add	43.77	
			For Elevated Installation >20' To 25', Add	54.71	
			For Elevated Installation >25' To 30', Add	76.59	
			For Elevated Installation >30' To 35', Add	87.54	
			For Elevated Installation >35' To 40', Add	109.42	
			For Elevated Installation >40', Add	120.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.65	
26 05 33 13-2506	EA	3"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	499.22	113.84
			For Work In Restricted Working Space, Add	85.38	
			For Elevated Installation >10' To 15', Add	28.46	
			For Elevated Installation >15' To 20', Add	56.92	
			For Elevated Installation >20' To 25', Add	71.15	
			For Elevated Installation >25' To 30', Add	99.61	
			For Elevated Installation >30' To 35', Add	113.84	
			For Elevated Installation >35' To 40', Add	142.31	
			For Elevated Installation >40', Add	156.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.38	
26 05 33 13-2507	EA	3-1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	700.31	140.66
			For Work In Restricted Working Space, Add	106.25	
			For Elevated Installation >10' To 15', Add	35.42	
			For Elevated Installation >15' To 20', Add	70.84	
			For Elevated Installation >20' To 25', Add	88.55	
			For Elevated Installation >25' To 30', Add	123.96	
			For Elevated Installation >30' To 35', Add	141.67	
			For Elevated Installation >35' To 40', Add	177.09	
			For Elevated Installation >40', Add	194.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.25	
26 05 33 13-2508	EA	4"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	844.75	169.00
			For Work In Restricted Working Space, Add	126.75	
			For Elevated Installation >10' To 15', Add	42.25	
			For Elevated Installation >15' To 20', Add	84.50	
			For Elevated Installation >20' To 25', Add	105.62	
			For Elevated Installation >25' To 30', Add	147.87	
			For Elevated Installation >30' To 35', Add	169.00	
			For Elevated Installation >35' To 40', Add	211.25	
			For Elevated Installation >40', Add	232.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.75	
26 05 33 13-2509			Threaded, Malleable Iron Conduit Body (26 05 33 13-2452)		
26 05 33 13-2510			Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2509)		
26 05 33 13-2511	EA	1 1/2"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	71.65	24.28
			For Work In Restricted Working Space, Add	18.22	
			For Elevated Installation >10' To 15', Add	6.07	
			For Elevated Installation >15' To 20', Add	12.14	
			For Elevated Installation >20' To 25', Add	15.18	
			For Elevated Installation >25' To 30', Add	21.25	
			For Elevated Installation >30' To 35', Add	24.29	
			For Elevated Installation >35' To 40', Add	30.36	
			For Elevated Installation >40', Add	33.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.22	
26 05 33 13-2512	EA	3/4"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	82.96	27.83
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.82	
			For Elevated Installation >35' To 40', Add	34.78	
			For Elevated Installation >40', Add	38.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87	
26 05 33 13-2513	EA	1"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	100.93	32.38
			For Work In Restricted Working Space, Add	24.29	
			For Elevated Installation >10' To 15', Add	8.10	
			For Elevated Installation >15' To 20', Add	16.19	
			For Elevated Installation >20' To 25', Add	20.24	
			For Elevated Installation >25' To 30', Add	28.34	
			For Elevated Installation >30' To 35', Add	32.38	
			For Elevated Installation >35' To 40', Add	40.48	
			For Elevated Installation >40', Add	44.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.29	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2514 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover 128.16		36.93
For Work In Restricted Working Space, Add	27.70	
For Elevated Installation >10' To 15', Add	9.23	
For Elevated Installation >15' To 20', Add	18.47	
For Elevated Installation >20' To 25', Add	23.09	
For Elevated Installation >25' To 30', Add	32.32	
For Elevated Installation >30' To 35', Add	36.94	
For Elevated Installation >35' To 40', Add	46.17	
For Elevated Installation >40', Add	50.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.70	
26 05 33 13-2515 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover 145.13		40.48
For Work In Restricted Working Space, Add	30.36	
For Elevated Installation >10' To 15', Add	10.12	
For Elevated Installation >15' To 20', Add	20.24	
For Elevated Installation >20' To 25', Add	25.30	
For Elevated Installation >25' To 30', Add	35.42	
For Elevated Installation >30' To 35', Add	40.48	
For Elevated Installation >35' To 40', Add	50.60	
For Elevated Installation >40', Add	55.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	
26 05 33 13-2516 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover 194.97		48.58
For Work In Restricted Working Space, Add	36.43	
For Elevated Installation >10' To 15', Add	12.14	
For Elevated Installation >15' To 20', Add	24.29	
For Elevated Installation >20' To 25', Add	30.36	
For Elevated Installation >25' To 30', Add	42.50	
For Elevated Installation >30' To 35', Add	48.58	
For Elevated Installation >35' To 40', Add	60.72	
For Elevated Installation >40', Add	66.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.43	
26 05 33 13-2517 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover 321.28		68.30
For Work In Restricted Working Space, Add	51.23	
For Elevated Installation >10' To 15', Add	17.08	
For Elevated Installation >15' To 20', Add	34.15	
For Elevated Installation >20' To 25', Add	42.69	
For Elevated Installation >25' To 30', Add	59.77	
For Elevated Installation >30' To 35', Add	68.31	
For Elevated Installation >35' To 40', Add	85.39	
For Elevated Installation >40', Add	93.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23	
26 05 33 13-2518 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover 452.23		91.07
For Work In Restricted Working Space, Add	68.31	
For Elevated Installation >10' To 15', Add	22.77	
For Elevated Installation >15' To 20', Add	45.54	
For Elevated Installation >20' To 25', Add	56.93	
For Elevated Installation >25' To 30', Add	79.70	
For Elevated Installation >30' To 35', Add	91.08	
For Elevated Installation >35' To 40', Add	113.85	
For Elevated Installation >40', Add	125.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.31	
26 05 33 13-2519 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover 617.01		113.84
For Work In Restricted Working Space, Add	85.38	
For Elevated Installation >10' To 15', Add	28.46	
For Elevated Installation >15' To 20', Add	56.92	
For Elevated Installation >20' To 25', Add	71.15	
For Elevated Installation >25' To 30', Add	99.61	
For Elevated Installation >30' To 35', Add	113.84	
For Elevated Installation >35' To 40', Add	142.31	
For Elevated Installation >40', Add	156.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.38	
26 05 33 13-2520 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover 739.66		138.64
For Work In Restricted Working Space, Add	103.98	
For Elevated Installation >10' To 15', Add	34.66	
For Elevated Installation >15' To 20', Add	69.32	
For Elevated Installation >20' To 25', Add	86.65	
For Elevated Installation >25' To 30', Add	121.31	
For Elevated Installation >30' To 35', Add	138.64	
For Elevated Installation >35' To 40', Add	173.30	
For Elevated Installation >40', Add	190.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.98	
26 05 33 13-2521 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover		
(26 05 33 13-2509)		
26 05 33 13-2522 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover 74.18		24.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.22	
26 05 33 13-2523 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover 83.70		27.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87	
26 05 33 13-2524 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover 104.79		32.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.29	
26 05 33 13-2525 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover 130.75		36.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.70	
26 05 33 13-2526 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover 148.29		40.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	
26 05 33 13-2527 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover 188.47		48.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.43	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2528	EA		2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	285.19	68.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23	
26 05 33 13-2529	EA		3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	387.33	91.07
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.31	
26 05 33 13-2530	EA		3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	655.23	113.84
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.38	
26 05 33 13-2531	EA		4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	767.85	138.64
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.98	
26 05 33 13-2532 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2509)					
26 05 33 13-2533	EA		1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	87.61	27.83
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87	
26 05 33 13-2534	EA		3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	103.32	32.38
			For Work In Restricted Working Space, Add	24.67	
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.56	
			For Elevated Installation >25' To 30', Add	28.78	
			For Elevated Installation >30' To 35', Add	32.89	
			For Elevated Installation >35' To 40', Add	41.11	
			For Elevated Installation >40', Add	45.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.67	
26 05 33 13-2535	EA		1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	120.46	35.42
			For Work In Restricted Working Space, Add	26.57	
			For Elevated Installation >10' To 15', Add	8.86	
			For Elevated Installation >15' To 20', Add	17.71	
			For Elevated Installation >20' To 25', Add	22.14	
			For Elevated Installation >25' To 30', Add	30.99	
			For Elevated Installation >30' To 35', Add	35.42	
			For Elevated Installation >35' To 40', Add	44.28	
			For Elevated Installation >40', Add	48.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-2536	EA		1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	149.37	40.48
			For Work In Restricted Working Space, Add	29.98	
			For Elevated Installation >10' To 15', Add	9.99	
			For Elevated Installation >15' To 20', Add	19.99	
			For Elevated Installation >20' To 25', Add	24.98	
			For Elevated Installation >25' To 30', Add	34.98	
			For Elevated Installation >30' To 35', Add	39.97	
			For Elevated Installation >35' To 40', Add	49.97	
			For Elevated Installation >40', Add	54.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.98	
26 05 33 13-2537	EA		1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	170.73	44.53
			For Work In Restricted Working Space, Add	33.40	
			For Elevated Installation >10' To 15', Add	11.13	
			For Elevated Installation >15' To 20', Add	22.26	
			For Elevated Installation >20' To 25', Add	27.83	
			For Elevated Installation >25' To 30', Add	38.96	
			For Elevated Installation >30' To 35', Add	44.53	
			For Elevated Installation >35' To 40', Add	55.66	
			For Elevated Installation >40', Add	61.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.40	
26 05 33 13-2538	EA		2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	223.37	52.12
			For Work In Restricted Working Space, Add	39.09	
			For Elevated Installation >10' To 15', Add	13.03	
			For Elevated Installation >15' To 20', Add	26.06	
			For Elevated Installation >20' To 25', Add	32.57	
			For Elevated Installation >25' To 30', Add	45.60	
			For Elevated Installation >30' To 35', Add	52.12	
			For Elevated Installation >35' To 40', Add	65.15	
			For Elevated Installation >40', Add	71.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.09	
26 05 33 13-2539	EA		2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	287.39	75.90
			For Work In Restricted Working Space, Add	56.92	
			For Elevated Installation >10' To 15', Add	18.97	
			For Elevated Installation >15' To 20', Add	37.95	
			For Elevated Installation >20' To 25', Add	47.44	
			For Elevated Installation >25' To 30', Add	66.41	
			For Elevated Installation >30' To 35', Add	75.90	
			For Elevated Installation >35' To 40', Add	94.87	
			For Elevated Installation >40', Add	104.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2540	EA	3"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	408.94	98.67
			For Work In Restricted Working Space, Add	74.00	
			For Elevated Installation >10' To 15', Add	24.67	
			For Elevated Installation >15' To 20', Add	49.33	
			For Elevated Installation >20' To 25', Add	61.67	
			For Elevated Installation >25' To 30', Add	86.33	
			For Elevated Installation >30' To 35', Add	98.66	
			For Elevated Installation >35' To 40', Add	123.33	
			For Elevated Installation >40', Add	135.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.00	
26 05 33 13-2541	EA	3-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	691.85	121.43
			For Work In Restricted Working Space, Add	91.07	
			For Elevated Installation >10' To 15', Add	30.36	
			For Elevated Installation >15' To 20', Add	60.72	
			For Elevated Installation >20' To 25', Add	75.90	
			For Elevated Installation >25' To 30', Add	106.25	
			For Elevated Installation >30' To 35', Add	121.43	
			For Elevated Installation >35' To 40', Add	151.79	
			For Elevated Installation >40', Add	166.97	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.07	
26 05 33 13-2542	EA	4"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	803.34	146.23
			For Work In Restricted Working Space, Add	110.05	
			For Elevated Installation >10' To 15', Add	36.68	
			For Elevated Installation >15' To 20', Add	73.37	
			For Elevated Installation >20' To 25', Add	91.71	
			For Elevated Installation >25' To 30', Add	128.39	
			For Elevated Installation >30' To 35', Add	146.74	
			For Elevated Installation >35' To 40', Add	183.42	
			For Elevated Installation >40', Add	201.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.05	
26 05 33 13-2543 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2539)					
26 05 33 13-2544	EA	1/2"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	71.84	24.28
			For Work In Restricted Working Space, Add	18.22	
			For Elevated Installation >10' To 15', Add	6.07	
			For Elevated Installation >15' To 20', Add	12.14	
			For Elevated Installation >20' To 25', Add	15.18	
			For Elevated Installation >25' To 30', Add	21.25	
			For Elevated Installation >30' To 35', Add	24.29	
			For Elevated Installation >35' To 40', Add	30.36	
			For Elevated Installation >40', Add	33.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.22	
26 05 33 13-2545	EA	3/4"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	86.24	27.83
			For Work In Restricted Working Space, Add	20.87	
			For Elevated Installation >10' To 15', Add	6.96	
			For Elevated Installation >15' To 20', Add	13.91	
			For Elevated Installation >20' To 25', Add	17.39	
			For Elevated Installation >25' To 30', Add	24.35	
			For Elevated Installation >30' To 35', Add	27.83	
			For Elevated Installation >35' To 40', Add	34.79	
			For Elevated Installation >40', Add	38.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87	
26 05 33 13-2546	EA	1"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	100.58	31.88
			For Work In Restricted Working Space, Add	23.91	
			For Elevated Installation >10' To 15', Add	7.97	
			For Elevated Installation >15' To 20', Add	15.94	
			For Elevated Installation >20' To 25', Add	19.93	
			For Elevated Installation >25' To 30', Add	27.90	
			For Elevated Installation >30' To 35', Add	31.88	
			For Elevated Installation >35' To 40', Add	39.85	
			For Elevated Installation >40', Add	43.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.91	
26 05 33 13-2547	EA	1-1/4"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	132.93	36.93
			For Work In Restricted Working Space, Add	27.71	
			For Elevated Installation >10' To 15', Add	9.24	
			For Elevated Installation >15' To 20', Add	18.47	
			For Elevated Installation >20' To 25', Add	23.09	
			For Elevated Installation >25' To 30', Add	32.32	
			For Elevated Installation >30' To 35', Add	36.94	
			For Elevated Installation >35' To 40', Add	46.18	
			For Elevated Installation >40', Add	50.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.71	
26 05 33 13-2548	EA	1-1/2"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	154.06	40.48
			For Work In Restricted Working Space, Add	30.36	
			For Elevated Installation >10' To 15', Add	10.12	
			For Elevated Installation >15' To 20', Add	20.24	
			For Elevated Installation >20' To 25', Add	25.30	
			For Elevated Installation >25' To 30', Add	35.42	
			For Elevated Installation >30' To 35', Add	40.48	
			For Elevated Installation >35' To 40', Add	50.60	
			For Elevated Installation >40', Add	55.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.36	



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		Common Work Results for Electrical	26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2549	EA	2"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	197.52	48.58
			For Work In Restricted Working Space, Add	36.43	
			For Elevated Installation >10' To 15', Add	12.14	
			For Elevated Installation >15' To 20', Add	24.29	
			For Elevated Installation >20' To 25', Add	30.36	
			For Elevated Installation >25' To 30', Add	42.50	
			For Elevated Installation >30' To 35', Add	48.58	
			For Elevated Installation >35' To 40', Add	60.72	
			For Elevated Installation >40', Add	66.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.43	
26 05 33 13-2550	EA	2-1/2"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	450.97	128.13
			For Work In Restricted Working Space, Add	96.06	
			For Elevated Installation >10' To 15', Add	32.02	
			For Elevated Installation >15' To 20', Add	64.04	
			For Elevated Installation >20' To 25', Add	80.05	
			For Elevated Installation >25' To 30', Add	112.07	
			For Elevated Installation >30' To 35', Add	128.08	
			For Elevated Installation >35' To 40', Add	160.10	
			For Elevated Installation >40', Add	176.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.06	
26 05 33 13-2551	EA	3"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	414.59	91.07
			For Work In Restricted Working Space, Add	68.31	
			For Elevated Installation >10' To 15', Add	22.77	
			For Elevated Installation >15' To 20', Add	45.54	
			For Elevated Installation >20' To 25', Add	56.93	
			For Elevated Installation >25' To 30', Add	79.70	
			For Elevated Installation >30' To 35', Add	91.08	
			For Elevated Installation >35' To 40', Add	113.85	
			For Elevated Installation >40', Add	125.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.31	
26 05 33 13-2552	EA	3-1/2"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	655.23	113.84
			For Work In Restricted Working Space, Add	85.38	
			For Elevated Installation >10' To 15', Add	28.46	
			For Elevated Installation >15' To 20', Add	56.92	
			For Elevated Installation >20' To 25', Add	71.15	
			For Elevated Installation >25' To 30', Add	99.61	
			For Elevated Installation >30' To 35', Add	113.84	
			For Elevated Installation >35' To 40', Add	142.31	
			For Elevated Installation >40', Add	156.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.38	
26 05 33 13-2553	EA	4"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	767.83	138.64
			For Work In Restricted Working Space, Add	103.97	
			For Elevated Installation >10' To 15', Add	34.66	
			For Elevated Installation >15' To 20', Add	69.32	
			For Elevated Installation >20' To 25', Add	86.65	
			For Elevated Installation >25' To 30', Add	121.30	
			For Elevated Installation >30' To 35', Add	138.63	
			For Elevated Installation >35' To 40', Add	173.29	
			For Elevated Installation >40', Add	190.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.97	
26 05 33 13-2554	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2509)				
26 05 33 13-2555	EA	1/2"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	99.69	31.88
			For Work In Restricted Working Space, Add	23.91	
			For Elevated Installation >10' To 15', Add	7.97	
			For Elevated Installation >15' To 20', Add	15.94	
			For Elevated Installation >20' To 25', Add	19.92	
			For Elevated Installation >25' To 30', Add	27.89	
			For Elevated Installation >30' To 35', Add	31.88	
			For Elevated Installation >35' To 40', Add	39.85	
			For Elevated Installation >40', Add	43.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.91	
26 05 33 13-2556	EA	3/4"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	109.30	35.42
			For Work In Restricted Working Space, Add	26.57	
			For Elevated Installation >10' To 15', Add	8.86	
			For Elevated Installation >15' To 20', Add	17.71	
			For Elevated Installation >20' To 25', Add	22.14	
			For Elevated Installation >25' To 30', Add	30.99	
			For Elevated Installation >30' To 35', Add	35.42	
			For Elevated Installation >35' To 40', Add	44.28	
			For Elevated Installation >40', Add	48.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-2557	EA	1"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	125.87	38.96
			For Work In Restricted Working Space, Add	29.22	
			For Elevated Installation >10' To 15', Add	9.74	
			For Elevated Installation >15' To 20', Add	19.48	
			For Elevated Installation >20' To 25', Add	24.35	
			For Elevated Installation >25' To 30', Add	34.09	
			For Elevated Installation >30' To 35', Add	38.96	
			For Elevated Installation >35' To 40', Add	48.70	
			For Elevated Installation >40', Add	53.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.22	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2558	EA	1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 148.91		44.53
		For Work In Restricted Working Space, Add	33.40	
		For Elevated Installation >10' To 15', Add	11.13	
		For Elevated Installation >15' To 20', Add	22.26	
		For Elevated Installation >20' To 25', Add	27.83	
		For Elevated Installation >25' To 30', Add	38.96	
		For Elevated Installation >30' To 35', Add	44.53	
		For Elevated Installation >35' To 40', Add	55.66	
		For Elevated Installation >40', Add	61.23	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.40	
26 05 33 13-2559	EA	1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 170.48		48.58
		For Work In Restricted Working Space, Add	36.43	
		For Elevated Installation >10' To 15', Add	12.14	
		For Elevated Installation >15' To 20', Add	24.29	
		For Elevated Installation >20' To 25', Add	30.36	
		For Elevated Installation >25' To 30', Add	42.50	
		For Elevated Installation >30' To 35', Add	48.57	
		For Elevated Installation >35' To 40', Add	60.72	
		For Elevated Installation >40', Add	66.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.43	
26 05 33 13-2560	EA	2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....234.65		59.70
		For Work In Restricted Working Space, Add	44.78	
		For Elevated Installation >10' To 15', Add	14.93	
		For Elevated Installation >15' To 20', Add	29.85	
		For Elevated Installation >20' To 25', Add	37.32	
		For Elevated Installation >25' To 30', Add	52.24	
		For Elevated Installation >30' To 35', Add	59.70	
		For Elevated Installation >35' To 40', Add	74.63	
		For Elevated Installation >40', Add	82.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.78	
26 05 33 13-2561	EA	2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 371.30		87.53
		For Work In Restricted Working Space, Add	65.65	
		For Elevated Installation >10' To 15', Add	21.88	
		For Elevated Installation >15' To 20', Add	43.77	
		For Elevated Installation >20' To 25', Add	54.71	
		For Elevated Installation >25' To 30', Add	76.59	
		For Elevated Installation >30' To 35', Add	87.54	
		For Elevated Installation >35' To 40', Add	109.42	
		For Elevated Installation >40', Add	120.36	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.65	
26 05 33 13-2562	EA	3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....537.96		113.84
		For Work In Restricted Working Space, Add	85.38	
		For Elevated Installation >10' To 15', Add	28.46	
		For Elevated Installation >15' To 20', Add	56.92	
		For Elevated Installation >20' To 25', Add	71.15	
		For Elevated Installation >25' To 30', Add	99.61	
		For Elevated Installation >30' To 35', Add	113.84	
		For Elevated Installation >35' To 40', Add	142.31	
		For Elevated Installation >40', Add	156.54	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.38	
26 05 33 13-2563	EA	3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 789.76		140.66
		For Work In Restricted Working Space, Add	105.50	
		For Elevated Installation >10' To 15', Add	35.17	
		For Elevated Installation >15' To 20', Add	70.33	
		For Elevated Installation >20' To 25', Add	87.91	
		For Elevated Installation >25' To 30', Add	123.08	
		For Elevated Installation >30' To 35', Add	140.66	
		For Elevated Installation >35' To 40', Add	175.83	
		For Elevated Installation >40', Add	193.41	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.50	
26 05 33 13-2564	EA	4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....887.65		169.00
		For Work In Restricted Working Space, Add	126.75	
		For Elevated Installation >10' To 15', Add	42.25	
		For Elevated Installation >15' To 20', Add	84.50	
		For Elevated Installation >20' To 25', Add	105.62	
		For Elevated Installation >25' To 30', Add	147.87	
		For Elevated Installation >30' To 35', Add	169.00	
		For Elevated Installation >35' To 40', Add	211.25	
		For Elevated Installation >40', Add	232.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.75	
26 05 33 13-2565		Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2452)		
26 05 33 13-2566		Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2565)		
26 05 33 13-2567	EA	1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 33.52		9.61
		For Work In Restricted Working Space, Add	7.21	
		For Elevated Installation >10' To 15', Add	2.40	
		For Elevated Installation >15' To 20', Add	4.81	
		For Elevated Installation >20' To 25', Add	6.01	
		For Elevated Installation >25' To 30', Add	8.41	
		For Elevated Installation >30' To 35', Add	9.61	
		For Elevated Installation >35' To 40', Add	12.02	
		For Elevated Installation >40', Add	13.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2568	EA		3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	43.02	12.65
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-2569	EA		1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	57.63	15.68
			For Work In Restricted Working Space, Add	11.77	
			For Elevated Installation >10' To 15', Add	3.92	
			For Elevated Installation >15' To 20', Add	7.84	
			For Elevated Installation >20' To 25', Add	9.81	
			For Elevated Installation >25' To 30', Add	13.73	
			For Elevated Installation >30' To 35', Add	15.69	
			For Elevated Installation >35' To 40', Add	19.61	
			For Elevated Installation >40', Add	21.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.77	
26 05 33 13-2570	EA		1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	74.25	19.22
			For Work In Restricted Working Space, Add	14.42	
			For Elevated Installation >10' To 15', Add	4.81	
			For Elevated Installation >15' To 20', Add	9.61	
			For Elevated Installation >20' To 25', Add	12.02	
			For Elevated Installation >25' To 30', Add	16.82	
			For Elevated Installation >30' To 35', Add	19.23	
			For Elevated Installation >35' To 40', Add	24.04	
			For Elevated Installation >40', Add	26.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.42	
26 05 33 13-2571	EA		1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	96.37	22.26
			For Work In Restricted Working Space, Add	16.70	
			For Elevated Installation >10' To 15', Add	5.57	
			For Elevated Installation >15' To 20', Add	11.13	
			For Elevated Installation >20' To 25', Add	13.91	
			For Elevated Installation >25' To 30', Add	19.48	
			For Elevated Installation >30' To 35', Add	22.26	
			For Elevated Installation >35' To 40', Add	27.83	
			For Elevated Installation >40', Add	30.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.70	
26 05 33 13-2572	EA		2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	125.92	25.30
			For Work In Restricted Working Space, Add	18.98	
			For Elevated Installation >10' To 15', Add	6.33	
			For Elevated Installation >15' To 20', Add	12.65	
			For Elevated Installation >20' To 25', Add	15.81	
			For Elevated Installation >25' To 30', Add	22.14	
			For Elevated Installation >30' To 35', Add	25.30	
			For Elevated Installation >35' To 40', Add	31.63	
			For Elevated Installation >40', Add	34.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-2573			Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2565)		
26 05 33 13-2574	EA		1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	33.78	9.61
			For Work In Restricted Working Space, Add	7.21	
			For Elevated Installation >10' To 15', Add	2.40	
			For Elevated Installation >15' To 20', Add	4.81	
			For Elevated Installation >20' To 25', Add	6.01	
			For Elevated Installation >25' To 30', Add	8.41	
			For Elevated Installation >30' To 35', Add	9.61	
			For Elevated Installation >35' To 40', Add	12.02	
			For Elevated Installation >40', Add	13.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.21	
26 05 33 13-2575	EA		3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	44.02	12.65
			For Work In Restricted Working Space, Add	9.49	
			For Elevated Installation >10' To 15', Add	3.16	
			For Elevated Installation >15' To 20', Add	6.32	
			For Elevated Installation >20' To 25', Add	7.91	
			For Elevated Installation >25' To 30', Add	11.07	
			For Elevated Installation >30' To 35', Add	12.65	
			For Elevated Installation >35' To 40', Add	15.81	
			For Elevated Installation >40', Add	17.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-2576	EA		1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	54.14	15.68
			For Work In Restricted Working Space, Add	11.77	
			For Elevated Installation >10' To 15', Add	3.92	
			For Elevated Installation >15' To 20', Add	7.84	
			For Elevated Installation >20' To 25', Add	9.81	
			For Elevated Installation >25' To 30', Add	13.73	
			For Elevated Installation >30' To 35', Add	15.69	
			For Elevated Installation >35' To 40', Add	19.61	
			For Elevated Installation >40', Add	21.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.77	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2577	EA	1-1/4"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.95 14.42 4.81 9.61 12.02 16.82 19.23 24.04 26.44 14.42	19.22
26 05 33 13-2578	EA	1-1/2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.58 16.70 5.57 11.13 13.91 19.48 22.26 27.83 30.61 16.70	22.26
26 05 33 13-2579	EA	2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.43 18.98 6.33 12.65 15.81 22.14 25.30 31.63 34.79 18.98	25.30
26 05 33 13-2580			Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ⁽²⁶⁾ _{05 33 13-2585}		
26 05 33 13-2581	EA	1/2"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.56 9.49 3.16 6.32 7.91 11.07 12.65 15.81 17.39 9.49	12.65
26 05 33 13-2582	EA	3/4"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.43 11.77 3.92 7.84 9.81 13.73 15.69 19.61 21.57 11.77	15.68
26 05 33 13-2583	EA	1"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.19 14.42 4.81 9.61 12.02 16.82 19.23 24.04 26.44 14.42	19.22
26 05 33 13-2584	EA	1-1/4"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.92 17.46 5.82 11.64 14.55 20.37 23.28 29.10 32.00 17.46	22.26
26 05 33 13-2585	EA	1-1/2"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.08 20.49 6.83 13.66 17.08 23.91 27.32 34.15 37.57 20.49	25.30



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2586	EA	2"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.65 23.53 7.84 15.68 19.61 27.45 31.37 39.21 43.13 23.53	28.33
26 05 33 13-2587 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2586)					
26 05 33 13-2588	EA	1/2"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.63 7.21 2.40 4.81 6.01 8.41 9.61 12.02 13.22 7.21	9.61
26 05 33 13-2589	EA	3/4"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.25 9.49 3.16 6.32 7.91 11.07 12.65 15.81 17.39 9.49	12.65
26 05 33 13-2590	EA	1"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.89 11.77 3.92 7.84 9.81 13.73 15.69 19.61 21.57 11.77	15.68
26 05 33 13-2591	EA	1-1/4"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.76 14.42 4.81 9.61 12.02 16.82 19.23 24.04 26.44 14.42	19.22
26 05 33 13-2592	EA	1-1/2"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.62 16.70 5.57 11.13 13.91 19.48 22.26 27.83 30.61 16.70	22.26
26 05 33 13-2593	EA	2"	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.09 18.98 6.33 12.65 15.81 22.14 25.30 31.63 34.79 18.98	25.30
26 05 33 13-2594 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-2452)					
26 05 33 13-2595	EA	3/4" To 1-1/4"	Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.97 20.79	27.70
26 05 33 13-2596	EA	1-1/2" To 2-1/2"	Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	529.64 38.44	51.23
26 05 33 13-2597	EA	3" To 4"	Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,022.38 77.99	103.98

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-2598	Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2452)				
26 05 33 13-2599	Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2598)				
26 05 33 13-2600	EA 1/2" Replacement Stamped Aluminum Conduit Body Cover	12.53		4.93	
26 05 33 13-2601	EA 3/4" Replacement Stamped Aluminum Conduit Body Cover	15.25		5.75	
26 05 33 13-2602	EA 1" Replacement Stamped Aluminum Conduit Body Cover	19.54		7.40	
26 05 33 13-2603	EA 1-1/4" Replacement Stamped Aluminum Conduit Body Cover	23.80		9.04	
26 05 33 13-2604	EA 1-1/2" Replacement Stamped Aluminum Conduit Body Cover	29.11		10.68	
26 05 33 13-2605	EA 2" Replacement Stamped Aluminum Conduit Body Cover	34.39		12.34	
26 05 33 13-2606	EA 2-1/2" Replacement Stamped Aluminum Conduit Body Cover	44.79		13.98	
26 05 33 13-2607	EA 3" Replacement Stamped Aluminum Conduit Body Cover	58.59		19.73	
26 05 33 13-2608	EA 3-1/2" Replacement Stamped Aluminum Conduit Body Cover	63.66		22.20	
26 05 33 13-2609	EA 4" Replacement Stamped Aluminum Conduit Body Cover	80.18		27.95	
26 05 33 13-2610	Replacement Cast Steel Conduit Body Cover (26 05 33 13-2598)				
26 05 33 13-2611	EA 1/2" Replacement Cast Steel Conduit Body Cover	14.35		4.93	
26 05 33 13-2612	EA 3/4" Replacement Cast Steel Conduit Body Cover	16.84		5.75	
26 05 33 13-2613	EA 1" Replacement Cast Steel Conduit Body Cover	23.45		7.40	
26 05 33 13-2614	EA 1-1/4" Replacement Cast Steel Conduit Body Cover	29.09		9.04	
26 05 33 13-2615	EA 1-1/2" Replacement Cast Steel Conduit Body Cover	35.27		10.68	
26 05 33 13-2616	EA 2" Replacement Cast Steel Conduit Body Cover	41.45		12.34	
26 05 33 13-2617	EA 2-1/2" Replacement Cast Steel Conduit Body Cover	47.58		13.98	
26 05 33 13-2618	EA 3" Replacement Cast Steel Conduit Body Cover	65.21		19.73	
26 05 33 13-2619	EA 3-1/2" Replacement Cast Steel Conduit Body Cover	74.08		22.20	
26 05 33 13-2620	EA 4" Replacement Cast Steel Conduit Body Cover	93.36		27.95	
26 05 33 13-2621	Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2598)				
26 05 33 13-2622	EA 1/2" Replacement Velbuna Composition Conduit Body Gasket	11.71		4.93	
26 05 33 13-2623	EA 3/4" Replacement Velbuna Composition Conduit Body Gasket	13.43		5.75	
26 05 33 13-2624	EA 1" Replacement Velbuna Composition Conduit Body Gasket	17.51		7.40	
26 05 33 13-2625	EA 1-1/4" Replacement Velbuna Composition Conduit Body Gasket	22.57		9.04	
26 05 33 13-2626	EA 1-1/2" Replacement Velbuna Composition Conduit Body Gasket	25.86		10.68	
26 05 33 13-2627	EA 2" Replacement Velbuna Composition Conduit Body Gasket	30.64		12.34	
26 05 33 13-2628	EA 2-1/2" Replacement Velbuna Composition Conduit Body Gasket	39.65		13.98	
26 05 33 13-2629	EA 3" Replacement Velbuna Composition Conduit Body Gasket	52.18		19.73	
26 05 33 13-2630	EA 3-1/2" Replacement Velbuna Composition Conduit Body Gasket	57.58		22.20	
26 05 33 13-2631	EA 4" Replacement Velbuna Composition Conduit Body Gasket	68.96		27.95	
26 05 33 13-2632	Replacement Neoprene Conduit Body Gasket (26 05 33 13-2598)				
26 05 33 13-2633	EA 1/2" Replacement Neoprene Conduit Body Gasket	12.98		4.93	
26 05 33 13-2634	EA 3/4" Replacement Neoprene Conduit Body Gasket	14.64		5.75	
26 05 33 13-2635	EA 1" Replacement Neoprene Conduit Body Gasket	19.09		7.40	
26 05 33 13-2636	EA 1-1/4" Replacement Neoprene Conduit Body Gasket	23.37		9.04	
26 05 33 13-2637	EA 1-1/2" Replacement Neoprene Conduit Body Gasket	26.66		10.68	
26 05 33 13-2638	EA 2" Replacement Neoprene Conduit Body Gasket	30.72		12.34	
26 05 33 13-2639	EA 2-1/2" Replacement Neoprene Conduit Body Gasket	39.85		13.98	
26 05 33 13-2640	EA 3" Replacement Neoprene Conduit Body Gasket	52.38		19.73	
26 05 33 13-2641	EA 3-1/2" Replacement Neoprene Conduit Body Gasket	58.93		22.20	
26 05 33 13-2642	EA 4" Replacement Neoprene Conduit Body Gasket	70.31		27.95	
26 05 33 16	Boxes for Electrical Systems (26 05 33)				
See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.					
26 05 33 16-0001	Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)				
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0124 for steel box/switch assemblies.					
26 05 33 16-0002	4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)				
26 05 33 16-0003	EA 1-1/2" Depth, 4" Square Steel Box	45.58		20.77	
	For Stud Bracket, Add	0.99			
26 05 33 16-0004	EA 2-1/8" Depth, 4" Square Steel Box	47.41		20.77	
	For Stud Bracket, Add	1.78			
26 05 33 16-0005	EA 3-1/2" Depth, 4" Square Steel Box	53.72		20.77	
	For Stud Bracket, Add	1.94			
26 05 33 16-0006	EA 1-1/2" Depth, 4" Square Steel Extension Ring	36.68		13.85	
26 05 33 16-0007	EA 2-1/8" Depth, 4" Square Steel Extension Ring	30.30		13.85	
26 05 33 16-0008	EA 1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	15.78		6.92	
26 05 33 16-0009	EA 5/8" Depth, 1 Gang, 4" Square Steel Mud Ring	16.07		6.92	
26 05 33 16-0010	EA 3/4" Depth, 1 Gang, 4" Square Steel Mud Ring	16.28		6.92	
26 05 33 16-0011	EA 1" Depth, 1 Gang, 4" Square Steel Mud Ring	16.97		6.92	
26 05 33 16-0012	EA 1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring	17.17		6.92	
26 05 33 16-0013	EA 1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	19.35		6.92	
26 05 33 16-0014	EA 1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	16.61		6.92	
26 05 33 16-0015	EA 5/8" Depth, 2 Gang, 4" Square Steel Mud Ring	16.82		6.92	
26 05 33 16-0016	EA 3/4" Depth, 2 Gang, 4" Square Steel Mud Ring	17.08		6.92	
26 05 33 16-0017	EA 1" Depth, 2 Gang, 4" Square Steel Mud Ring	19.31		6.92	
26 05 33 16-0018	EA 1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring	19.77		6.92	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	22.61	6.92
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings	17.69	6.92
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings	19.50	6.92
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover	16.57	6.92
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover	16.74	6.92
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover	16.53	6.92
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover	17.01	6.92
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover	17.42	6.92
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover	22.42	6.92
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover	17.35	6.92
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover	22.42	6.92
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover	17.35	6.92
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover	18.52	6.92
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover	22.42	6.92
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover	22.42	6.92
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover	15.14	6.92
26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0036 EA 1-1/2" Depth, 4-11/16" Square Steel Box	52.38	20.77
26 05 33 16-0037 EA 2-1/8" Depth, 4-11/16" Square Steel Box	48.22	20.77
For Stud Bracket, Add	0.94	
26 05 33 16-0038 EA 3-1/4" Depth, 4-11/16" Square Steel Box	69.10	20.77
26 05 33 16-0039 EA 1-1/2" Depth, 4-11/16" Square Extension Ring	38.42	13.85
26 05 33 16-0040 EA 2-1/8" Depth, 4-11/16" Square Extension Ring	39.44	13.85
26 05 33 16-0041 EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	19.93	6.92
26 05 33 16-0042 EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	19.98	6.92
26 05 33 16-0043 EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	21.76	6.92
26 05 33 16-0044 EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	21.05	6.92
26 05 33 16-0045 EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	20.89	6.92
26 05 33 16-0046 EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	28.26	6.92
26 05 33 16-0047 EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	21.35	6.92
26 05 33 16-0048 EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	21.73	6.92
26 05 33 16-0049 EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	21.76	6.92
26 05 33 16-0050 EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	24.36	6.92
26 05 33 16-0051 EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	24.91	6.92
26 05 33 16-0052 EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	31.22	6.92
26 05 33 16-0053 EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring	21.00	6.92
26 05 33 16-0054 EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring	21.19	6.92
26 05 33 16-0055 EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover	26.08	6.92
26 05 33 16-0056 EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover	27.45	6.92
26 05 33 16-0057 EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover	25.68	6.92
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover	24.19	6.92
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover	29.18	6.92
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover	27.44	6.92
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover	27.44	6.92
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover	27.44	6.92
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover	16.26	6.92
26 05 33 16-0064 Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes	22.66	10.39
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box	16.75	6.93
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes	27.09	10.39
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes	29.37	10.39
26 05 33 16-0069 4" Octagon Steel Boxes And Covers (26 05 33 16-0001)		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box	37.92	17.30
For Stud Bracket, Add	2.41	
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box	39.53	17.30
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover	15.04	6.92
26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)		
Note: Placed in concrete slabs or walls.		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring	62.65	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring	66.61	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring	69.69	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring	72.67	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring	79.86	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring	87.34	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring	93.05	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover	17.25	6.92
26 05 33 16-0082 4-1/2" Steel Gang Boxes (26 05 33 16-0001)		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	60.69	17.30
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	66.78	18.69
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	80.88	20.77

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0086 EA 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	107.05	22.84
26 05 33 16-0087 EA 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	161.87	24.92
26 05 33 16-0088 EA 2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	85.52	17.30
26 05 33 16-0089 EA 3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	93.24	18.69
26 05 33 16-0090 EA 4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	125.56	20.77
26 05 33 16-0091 EA 5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	162.60	22.84
26 05 33 16-0092 EA 6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	271.71	24.92
26 05 33 16-0093 EA 2 Device, Gang Box Mud Ring.....	26.76	6.92
26 05 33 16-0094 EA 3 Device, Gang Box Mud Ring.....	27.18	6.92
26 05 33 16-0095 EA 4 Device, Gang Box Mud Ring.....	31.97	6.92
26 05 33 16-0096 EA 5 Device, Gang Box Mud Ring.....	40.19	6.92
26 05 33 16-0097 EA 6 Device, Gang Box Mud Ring.....	58.23	6.92
26 05 33 16-0098 EA 2 Device, Gang Box Flat Cover.....	22.65	6.92
26 05 33 16-0099 EA 3 Device, Gang Box Flat Cover.....	27.13	6.92
26 05 33 16-0100 EA 4 Device, Gang Box Flat Cover.....	33.08	6.92
26 05 33 16-0101 EA 5 Device, Gang Box Flat Cover.....	40.65	6.92
26 05 33 16-0102 EA 6 Device, Gang Box Flat Cover.....	59.51	6.92
26 05 33 16-0103 Steel Switch Boxes (26 05 33 16-0001)		
26 05 33 16-0104 EA 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	41.02	17.30
26 05 33 16-0105 EA 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	41.71	17.30
26 05 33 16-0106 EA 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	45.30	17.30
26 05 33 16-0107 EA 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	53.35	17.30
26 05 33 16-0108 EA 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	54.05	17.30
26 05 33 16-0109 EA 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	64.97	17.30
26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0111 EA 1-1/2" Deep, 4" x 2" Steel Handy Box.....	37.75	17.30
For Stud Bracket, Add	3.88	
26 05 33 16-0112 EA 1-7/8" Deep, 4" x 2" Steel Handy Box.....	38.49	17.30
For Stud Bracket, Add	1.67	
26 05 33 16-0113 EA 2-1/8" Deep, 4" x 2" Steel Handy Box.....	40.14	17.30
For Stud Bracket, Add	2.28	
26 05 33 16-0114 EA 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	25.28	10.38
26 05 33 16-0115 EA 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	24.53	10.38
26 05 33 16-0116 EA GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	8.55	3.46
26 05 33 16-0117 EA 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	8.69	3.46
26 05 33 16-0118 EA Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.99	3.46
26 05 33 16-0119 EA Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	8.03	3.46
26 05 33 16-0120 EA 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	9.45	3.46
26 05 33 16-0121 EA Flat, 2" x 4" Steel Handy Box Exposed Work Cover	8.03	3.46
26 05 33 16-0122 3"-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)		
26 05 33 16-0123 EA 1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	57.18	24.23
26 05 33 16-0124 EA 2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	64.40	25.61
26 05 33 16-0125 EA 3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	74.28	27.69
26 05 33 16-0126 EA 4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	84.92	30.46
26 05 33 16-0127 Cast Boxes (26 05 33 16) Note: For flush or surface mount.		
26 05 33 16-0128 Cast Iron Alloy Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0261 for box covers.		
26 05 33 16-0129 Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0130 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	108.75	41.53
Note: One hub.		
26 05 33 16-0131 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	119.23	48.45
Note: One hub.		
26 05 33 16-0132 EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	141.40	58.83
Note: One hub.		
26 05 33 16-0133 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	137.86	55.38
Note: Two hub.		
26 05 33 16-0134 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	173.41	65.76
Note: Two hub.		
26 05 33 16-0135 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	137.42	55.38
Note: Two hub.		
26 05 33 16-0136 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box	164.79	65.76
Note: Two hubs.		
26 05 33 16-0137 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	140.19	55.38
Note: Two hubs.		
26 05 33 16-0138 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	164.82	65.76
Note: Two hubs.		
26 05 33 16-0139 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	137.42	55.38
Note: Two hubs.		
26 05 33 16-0140 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	161.40	65.76
Note: Two hubs.		



Electrical		26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	165.57	69.22
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	196.58	83.07
26 05 33 16-0143 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	170.89	69.22
26 05 33 16-0144 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	216.86	83.07
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	174.36	69.22
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	208.52	83.07
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	165.12	69.22
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	210.87	83.07
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	207.56	83.07
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	250.51	100.37
26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	112.67	41.53
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	130.10	48.45
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	153.94	58.83
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	145.01	55.38
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	168.47	65.76
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	202.81	79.60
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	178.23	65.76
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	228.42	83.07
26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	127.98	45.00
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	142.98	51.92
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	167.24	62.30
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	157.56	58.83
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	180.34	69.22
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	139.74	45.00
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	154.04	51.92
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	175.25	58.83
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	199.03	69.22
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0261 for box covers.		
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	94.90	34.61
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	109.78	41.53
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	125.30	51.92
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	90.34	34.61
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	112.99	41.53

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0178	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	123.03	48.45
26 05 33 16-0179	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	148.17	58.83
26 05 33 16-0180	EA	1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	185.26	72.68
26 05 33 16-0181	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	130.97	48.45
26 05 33 16-0182	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	144.31	58.83
26 05 33 16-0183	EA	1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	126.45	48.45
26 05 33 16-0184	EA	3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	147.00	58.83
26 05 33 16-0185	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	123.54	48.45
26 05 33 16-0186	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	147.00	58.83
26 05 33 16-0187	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	116.81	48.45
26 05 33 16-0188	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	154.16	58.83
26 05 33 16-0189	EA	1/2" Depth, Type FSCL, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	149.14	62.30
26 05 33 16-0190	EA	3/4" Depth, Type FSCL, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	181.46	76.15
26 05 33 16-0191	EA	1/2" Depth, Type FSCL, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	156.12	62.30
26 05 33 16-0192	EA	3/4" Depth, Type FSCL, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	205.63	76.15
26 05 33 16-0193	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	155.53	62.30
26 05 33 16-0194	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	190.65	76.15
26 05 33 16-0195	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	192.73	76.15
26 05 33 16-0196	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	189.75	76.15
26 05 33 16-0197	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	231.91	93.45
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: >2" deep boxes.				
26 05 33 16-0199	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	102.99	34.61
26 05 33 16-0200	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	123.43	41.53
26 05 33 16-0201	EA	1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	144.07	51.92
26 05 33 16-0202	EA	3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	130.82	41.53
26 05 33 16-0203	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	133.49	48.45
26 05 33 16-0204	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	161.02	58.83
26 05 33 16-0205	EA	1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	184.06	72.68
26 05 33 16-0206	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	162.73	58.83
26 05 33 16-0207	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	201.44	76.15
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: Up to 2" deep boxes.				
26 05 33 16-0209	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	121.25	38.07
26 05 33 16-0210	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	139.65	45.00
26 05 33 16-0211	EA	1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	154.04	55.38
26 05 33 16-0212	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	154.04	51.92
26 05 33 16-0213	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	162.51	62.30
26 05 33 16-0214	EA	1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	200.26	76.15
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: >2" deep boxes.				
26 05 33 16-0216	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	121.16	38.07



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0217	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	140.75	45.00
26 05 33 16-0218	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	156.57	51.92
26 05 33 16-0219	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	179.42	62.30
26 05 33 16-0220	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	156.57	51.92
26 05 33 16-0221	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	179.42	62.30
26 05 33 16-0222		Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0223	EA	1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	164.84	55.38
26 05 33 16-0224	EA	3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	187.04	65.76
26 05 33 16-0225		Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0226	EA	3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	179.46	48.45
26 05 33 16-0227	EA	1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	202.83	58.83
26 05 33 16-0228		Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127) Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229	EA	1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	188.72	55.38
26 05 33 16-0230	EA	3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	230.30	62.30
26 05 33 16-0231	EA	1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	217.63	69.22
26 05 33 16-0232	EA	1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body.....	209.67	62.30
26 05 33 16-0233	EA	3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA.....	251.81	69.22
26 05 33 16-0234		Non Metallic (PVC) Boxes (26 05 33 16) See CSI section 26 27 26 00-0261 for box covers.		
26 05 33 16-0235		Shallow, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0236	EA	1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	69.53	29.08
26 05 33 16-0237	EA	3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	79.58	33.92
26 05 33 16-0238	EA	1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	91.12	41.19
26 05 33 16-0239	EA	1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	89.27	38.77
26 05 33 16-0240	EA	3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	104.98	46.03
26 05 33 16-0241	EA	1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	127.30	55.73
26 05 33 16-0242	EA	1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	89.57	38.77
26 05 33 16-0243	EA	3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	104.17	46.03
26 05 33 16-0244	EA	1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	124.55	55.73
26 05 33 16-0245	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	113.02	48.45
26 05 33 16-0246	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	129.22	58.14
26 05 33 16-0247	EA	1" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	152.50	70.26
26 05 33 16-0248		Deep, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0249	EA	No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	70.41	29.08
26 05 33 16-0250	EA	1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	68.86	29.08
26 05 33 16-0251	EA	3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	81.69	33.92
26 05 33 16-0252	EA	1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	91.98	41.19
26 05 33 16-0253	EA	1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	91.01	38.77
26 05 33 16-0254	EA	3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	102.69	46.03
26 05 33 16-0255	EA	1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	122.86	55.73

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26 05 33 16-0256		Shallow, Two Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0257	EA	1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	74.84	31.50
26 05 33 16-0258	EA	3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	85.77	36.34
26 05 33 16-0259	EA	1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	96.13	43.61
26 05 33 16-0260	EA	1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	92.18	41.19
26 05 33 16-0261	EA	3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	113.60	48.45
26 05 33 16-0262	EA	1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	134.55	58.14
26 05 33 16-0263	EA	1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	94.24	41.19
26 05 33 16-0264	EA	3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	119.32	48.45
26 05 33 16-0265	EA	1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	129.97	58.14
26 05 33 16-0266	EA	1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	115.31	50.88
26 05 33 16-0267	EA	3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	150.73	60.57
26 05 33 16-0268	EA	1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	157.20	72.68
26 05 33 16-0269		Poke Thru Units (26 05 33 16)		
26 05 33 16-0270		Surface Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling.		
26 05 33 16-0271	EA	Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	618.56	51.92
26 05 33 16-0272	EA	Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.	395.09	
26 05 33 16-0273	EA	20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC37REC.	54.65	13.85
26 05 33 16-0274	EA	Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTCBK.	66.26	6.92
26 05 33 16-0275	EA	Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	699.67	55.38
26 05 33 16-0276	EA	Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	369.88	
26 05 33 16-0277	EA	Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	93.74	20.77
26 05 33 16-0278	EA	Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	66.26	6.92
26 05 33 16-0279	EA	Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	193.21	13.85
26 05 33 16-0280	EA	Four Jack RC9AMD Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	553.55	48.45
26 05 33 16-0281	EA	Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTCBK.	46.00	6.92
26 05 33 16-0282	EA	Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	550.99	48.45
26 05 33 16-0283	EA	Communication Conduit Adapter For Poke Thru Units Note: Includes two conduit connections for communication systems. Wiremold COM75.	64.04	6.92
26 05 33 16-0284		Recessed Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling.		
26 05 33 16-0285		Evolution 6AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0286	EA	Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	826.64	55.38
26 05 33 16-0287	EA	Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	826.74	55.38



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC).....	788.88	55.38
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0289 EA Recessed Assembly With Flush Style Cover (Wiremold 6AT).....	788.88	55.38
Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0290 EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA).....	826.64	55.38
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0291 EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA).....	826.64	55.38
Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0292 EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF).....	756.91	55.38
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0293 EA Recessed Assembly With Disposable Plate (Wiremold 6STC).....	481.17	51.92
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.		
26 05 33 16-0294 EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV).....	514.57	51.92
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.		
26 05 33 16-0295 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP).....	517.88	51.92
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.		
26 05 33 16-0296 EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS).....	151.79	27.69
Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0297 EA Surface Style Cover Assembly (Wiremold 6CTC).....	329.92	13.85
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.		
26 05 33 16-0298 EA Flush Style Cover Assembly (Wiremold 6CT).....	329.92	13.85
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.		
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC).....	275.15	13.85
Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.		
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS).....	40.36	3.46
Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.		
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP).....	21.79	6.92
Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A).....	24.76	6.92
Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B).....	21.71	6.92
Note: Device plate used to blank off center compartment, when no devices are used.		
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC).....	21.76	6.92
Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP).....	21.64	6.92
Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP).....	25.07	6.92
Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A).....	24.83	6.92
Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS).....	25.37	6.92
Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.		
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1).....	21.35	6.92
Note: Receptacle opening 1 3/8". For 6" poke-thru units only.		
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2).....	21.37	6.92
Note: Receptacle opening 1 9/16". For 6" poke-thru units only.		
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER).....	21.11	6.92
Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	21.11	6.92
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC).....	48.43	10.38
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B).....	19.55	6.92
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP).....	19.97	6.92
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25).....	144.57	12.46
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A).....	24.56	6.92
Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.		
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA).....	25.49	6.92
Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.		
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH).....	26.14	6.92
Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.		
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA).....	41.37	13.85
Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCF). Covers the center compartment and one of the side compartments.		
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA).....	47.95	17.30
Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.		
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA).....	52.20	17.30
Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.		
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA).....	39.94	13.85
Note: One-gang 1 1/4" trade size conduit housing assembly.		
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA).....	25.33	6.92
Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.		
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH).....	25.33	6.92
Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.		
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA).....	26.55	6.92
Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.		
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA).....	27.38	6.92
Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.		
26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284)		
Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP).....	1,077.83	55.38
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP).....	1,026.87	55.38
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P).....	1,089.37	55.38
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC).....	1,017.28	55.38
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT).....	1,008.19	55.38
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC).....	616.01	51.92
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP).....	687.79	51.92
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS).....	179.80	27.69
Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC).....	356.35	13.85
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT).....	356.35	13.85
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.		
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS).....	62.16	3.46
Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.		
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B).....	22.43	6.92
Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.		
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP).....	22.54	6.92
Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC).....	22.67	6.92
Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCIs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A).....	25.85	6.92
Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS).....	30.76	6.92
Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.		
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST).....	30.71	6.92
Note: Device plate accepts Crestron double-gang decorator style devices.		
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1).....	21.83	6.92
Note: Receptacle opening 1 3/8". For 8" poke-thru units only.		
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2).....	22.08	6.92
Note: Receptacle opening 1 9/16". For 8" poke-thru units only.		
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC).....	21.83	6.92
Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER).....	21.83	6.92
Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP).....	30.32	6.92
Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP).....	25.71	6.92
Note: Two-gang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV).....	29.24	6.92
Note: Divider allows for separation of services when required.		
26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA).....	41.37	13.85
Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.		

26 05 43 Underground Ducts and Raceways for Electrical Systems (26 05)

Note: Includes warning tape.

26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)

Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0002 10" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0003 LF Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	73.82
26 05 43 00-0004 LF Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	70.66
26 05 43 00-0005 LF Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	102.52
26 05 43 00-0006 LF Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	98.13
26 05 43 00-0007 EA End Wall, 10" Wide x 15" Deep Pedestrian Trench	50.42
26 05 43 00-0008 EA End Wall, 10" Wide x 24" Deep Pedestrian Trench	60.03
26 05 43 00-0009 LF Lid, Concrete, 10" Wide Pedestrian Trench.....	49.21

26 05 43 00-0010 20" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0011 LF Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	93.75
26 05 43 00-0012 LF Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	88.16
26 05 43 00-0013 LF Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	127.18
26 05 43 00-0014 LF Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	122.09
26 05 43 00-0015 EA End Wall, 20" Wide x 15" Deep Pedestrian Trench	63.27
26 05 43 00-0016 EA End Wall, 20" Wide x 24" Deep Pedestrian Trench	92.16
26 05 43 00-0017 LF Lid, Concrete, 20" Wide Pedestrian Trench.....	61.54

26 05 43 00-0018 30" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0019 LF Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	120.17
26 05 43 00-0020 LF Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	140.65
26 05 43 00-0021 LF Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	150.26
26 05 43 00-0022 LF Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	144.46
26 05 43 00-0023 EA End Wall, 30" Wide x 15" Deep Pedestrian Trench	90.93
26 05 43 00-0024 EA End Wall, 30" Wide x 24" Deep Pedestrian Trench	122.92
26 05 43 00-0025 LF Lid, Concrete, 30" Wide Pedestrian Trench.....	76.77

26 Electrical**26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0026 40" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0027 LF Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	144.22	
26 05 43 00-0028 LF Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	138.95	
26 05 43 00-0029 LF Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	176.46	
26 05 43 00-0030 LF Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	170.01	
26 05 43 00-0031 EA End Wall, 40" Wide x 15" Deep Pedestrian Trench	116.39	
26 05 43 00-0032 EA End Wall, 40" Wide x 24" Deep Pedestrian Trench	157.17	
26 05 43 00-0033 LF Lid, Concrete, 40" Wide Pedestrian Trench	90.84	
26 05 43 00-0034 Precast Concrete Trenches, One Piece Medium Vehicle Trench (26 05 43)		
Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0035 10" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0036 LF Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench	89.33	
26 05 43 00-0037 LF Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench	85.23	
26 05 43 00-0038 LF Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench	124.04	
26 05 43 00-0039 LF Base, Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench	118.37	
26 05 43 00-0040 EA End Wall, 10" Wide x 15" Deep Medium Vehicle Trench	59.04	
26 05 43 00-0041 EA End Wall, 10" Wide x 24" Deep Medium Vehicle Trench	69.07	
26 05 43 00-0042 LF Lid, Concrete 10" Wide Medium Vehicle Trench	59.55	
26 05 43 00-0043 LF Lid, Galvanized Steel 10" Wide Medium Vehicle Trench	261.30	
26 05 43 00-0044 20" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0045 LF Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench	112.68	
26 05 43 00-0046 LF Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench	105.47	
26 05 43 00-0047 LF Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench	152.15	
26 05 43 00-0048 LF Base, Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench	145.57	
26 05 43 00-0049 EA End Wall, 20" Wide x 15" Deep Medium Vehicle Trench	73.24	
26 05 43 00-0050 EA End Wall, 20" Wide x 24" Deep Medium Vehicle Trench	106.84	
26 05 43 00-0051 LF Lid, Concrete 20" Wide Medium Vehicle Trench	74.47	
26 05 43 00-0052 LF Lid, Galvanized Steel 20" Wide Medium Vehicle Trench	346.47	
26 05 43 00-0053 30" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0054 LF Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench	114.43	
26 05 43 00-0055 LF Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench	136.65	
26 05 43 00-0056 LF Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench	178.67	
26 05 43 00-0057 LF Base, Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench	171.18	
26 05 43 00-0058 EA End Wall, 30" Wide x 15" Deep Medium Vehicle Trench	104.69	
26 05 43 00-0059 EA End Wall, 30" Wide x 24" Deep Medium Vehicle Trench	143.29	
26 05 43 00-0060 LF Lid, Concrete 30" Wide Medium Vehicle Trench	93.14	
26 05 43 00-0061 LF Lid, Galvanized Steel 30" Wide Medium Vehicle Trench	432.47	
26 05 43 00-0062 40" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0063 LF Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench	170.05	
26 05 43 00-0064 LF Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench	163.24	
26 05 43 00-0065 LF Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench	208.14	
26 05 43 00-0066 LF Base, Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench	199.79	
26 05 43 00-0067 EA End Wall, 40" Wide x 15" Deep Medium Vehicle Trench	134.01	
26 05 43 00-0068 EA End Wall, 40" Wide x 24" Deep Medium Vehicle Trench	183.18	
26 05 43 00-0069 LF Lid, Concrete 40" Wide Medium Vehicle Trench	109.77	
26 05 43 00-0070 LF Lid, Galvanized Steel 40" Wide Medium Vehicle Trench	587.85	
26 05 43 00-0071 Precast Concrete Trenches, One Piece H20 Road Crossing Trench (26 05 43)		
Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0072 10" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0073 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	191.60	
26 05 43 00-0074 LF Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	182.41	
26 05 43 00-0075 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	239.55	
26 05 43 00-0076 LF Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	227.95	
26 05 43 00-0077 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	184.03	
26 05 43 00-0078 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	175.28	
26 05 43 00-0079 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	231.97	
26 05 43 00-0080 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	220.85	
26 05 43 00-0081 EA End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	127.20	
26 05 43 00-0082 EA End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	172.22	
26 05 43 00-0083 EA End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	115.19	
26 05 43 00-0084 EA End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	159.95	
26 05 43 00-0085 LF Lid, Concrete 10" Wide Road Crossing Trench	88.72	
26 05 43 00-0086 LF Lid, Galvanized Steel 10" Wide Road Crossing Trench	283.50	
26 05 43 00-0087 20" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0088 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	203.59	
26 05 43 00-0089 LF Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	194.16	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	269.56	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	256.95	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	203.59	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	194.16	
26 05 43 00-0094 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	261.99	
26 05 43 00-0095 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	249.84	
26 05 43 00-0096 EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	181.62	
26 05 43 00-0097 EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	247.34	
26 05 43 00-0098 EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	164.13	
26 05 43 00-0099 EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	229.84	
26 05 43 00-0100 LF Lid, Concrete 20" Wide Road Crossing Trench	99.07	
26 05 43 00-0101 LF Lid, Galvanized Steel 20" Wide Road Crossing Trench	420.37	
26 05 43 00-0102 30" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0103 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	241.04	
26 05 43 00-0104 LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	230.25	
26 05 43 00-0105 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	297.97	
26 05 43 00-0106 LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	284.57	
26 05 43 00-0107 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	233.46	
26 05 43 00-0108 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	223.12	
26 05 43 00-0109 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	290.40	
26 05 43 00-0110 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	277.21	
26 05 43 00-0111 EA End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	242.58	
26 05 43 00-0112 EA End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	320.87	
26 05 43 00-0113 EA End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	219.60	
26 05 43 00-0114 EA End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	297.89	
26 05 43 00-0115 LF Lid, Concrete 30" Wide Road Crossing Trench	125.32	
26 05 43 00-0116 LF Lid, Galvanized Steel 30" Wide Road Crossing Trench	527.08	
26 05 43 00-0117 40" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0118 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	266.63	
26 05 43 00-0119 LF Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	255.03	
26 05 43 00-0120 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	328.20	
26 05 43 00-0121 LF Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	313.65	
26 05 43 00-0122 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	259.05	
26 05 43 00-0123 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	247.93	
26 05 43 00-0124 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	320.62	
26 05 43 00-0125 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	306.52	
26 05 43 00-0126 EA End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	301.15	
26 05 43 00-0127 EA End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	398.11	
26 05 43 00-0128 EA End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	272.95	
26 05 43 00-0129 EA End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	369.90	
26 05 43 00-0130 LF Lid, Concrete 40" Wide Road Crossing Trench	151.42	
26 05 43 00-0131 LF Lid, Galvanized Steel 40" Wide Road Crossing Trench	716.60	
26 05 43 00-0132 Duct Bank (26 05 43)		
Note: Installation of single or multiple configuration underground utility raceways to have 3" concrete leveling base and encased in concrete envelope. Based on 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations.		
26 05 43 00-0133 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (26 05 43 00-0132)		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0134 LF 2 At 2", Rigid Galvanized Conduit Duct Bank	39.54	
26 05 43 00-0135 LF 4 At 2", Rigid Galvanized Conduit Duct Bank	79.12	
26 05 43 00-0136 LF 2 At 3", Rigid Galvanized Conduit Duct Bank	81.54	
26 05 43 00-0137 LF 4 At 3", Rigid Galvanized Conduit Duct Bank	163.56	
26 05 43 00-0138 LF 2 At 4", Rigid Galvanized Conduit Duct Bank	120.04	
26 05 43 00-0139 LF 4 At 4", Rigid Galvanized Conduit Duct Bank	241.36	
26 05 43 00-0140 LF 6 At 4", Rigid Galvanized Conduit Duct Bank	362.77	
26 05 43 00-0141 LF 2 At 5", Rigid Galvanized Conduit Duct Bank	225.47	
26 05 43 00-0142 LF 4 At 5", Rigid Galvanized Conduit Duct Bank	449.67	
26 05 43 00-0143 LF 6 At 5", Rigid Galvanized Conduit Duct Bank	691.92	
26 05 43 00-0144 LF 2 At 6", Rigid Galvanized Conduit Duct Bank	320.41	
26 05 43 00-0145 LF 4 At 6", Rigid Galvanized Conduit Duct Bank	643.16	
26 05 43 00-0146 LF 6 At 6", Rigid Galvanized Conduit Duct Bank	957.09	
26 05 43 00-0147 Polyvinyl Chloride (PVC), Type EB Duct Bank System (26 05 43 00-0132)		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0148 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	9.19	
26 05 43 00-0149 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	20.16	
26 05 43 00-0150 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	38.74	
26 05 43 00-0151 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	12.19	
26 05 43 00-0152 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	24.35	
26 05 43 00-0153 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	49.44	

26 Electrical**26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0154 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	16.40	
26 05 43 00-0155 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	32.82	
26 05 43 00-0156 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	65.70	
26 05 43 00-0157 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	98.52	
26 05 43 00-0158 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	20.87	
26 05 43 00-0159 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	41.70	
26 05 43 00-0160 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	80.83	
26 05 43 00-0161 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	114.92	
26 05 43 00-0162 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	36.72	
26 05 43 00-0163 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	56.63	
26 05 43 00-0164 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	113.51	
26 05 43 00-0165 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	182.91	

26 05 43 00-0166 Polyvinyl Chloride (PVC), Type DB Duct Bank System (26 05 43 00-0132)

Note: Includes appropriate spacers and fittings.

26 05 43 00-0167 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	10.22	
26 05 43 00-0168 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	22.29	
26 05 43 00-0169 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	42.73	
26 05 43 00-0170 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	12.70	
26 05 43 00-0171 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	25.36	
26 05 43 00-0172 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	50.55	
26 05 43 00-0173 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	16.84	
26 05 43 00-0174 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	33.72	
26 05 43 00-0175 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	67.49	
26 05 43 00-0176 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	101.21	
26 05 43 00-0177 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	21.55	
26 05 43 00-0178 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	43.04	
26 05 43 00-0179 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	83.53	
26 05 43 00-0180 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	118.97	
26 05 43 00-0181 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	37.66	
26 05 43 00-0182 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	58.56	
26 05 43 00-0183 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	117.38	
26 05 43 00-0184 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	188.72	

26 05 43 00-0185 Male Or Female Adapters (26 05 43 00-0132)

26 05 43 00-0186 EA 2" Adapter.....	48.42	
26 05 43 00-0187 EA 3" Adapter.....	70.79	
26 05 43 00-0188 EA 4" Adapter.....	91.82	
26 05 43 00-0189 EA 5" Adapter.....	143.55	
26 05 43 00-0190 EA 6" Adapter.....	176.87	

26 05 46 Utility Poles for Electrical Systems (26 05)**26 05 46 00-0001 Wood Poles** (26 05 46)**26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention** (26 05 46 00-0001)

Note: Machine dig and set.

26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,029.28	355.13
For Class 1 Pole, Add	111.62	
For Class 2 Pole, Add	63.78	
For Class 4 Pole, Deduct	-31.89	
For Class 5 Pole, Deduct	-95.67	
For Class 6 Pole, Deduct	-127.56	
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,221.07	394.01
For Class 1 Pole, Add	151.55	
For Class 2 Pole, Add	86.60	
For Class 4 Pole, Deduct	-43.30	
For Class 5 Pole, Deduct	-129.90	
For Class 6 Pole, Deduct	-173.20	
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,586.55	521.12
For Class 1 Pole, Add	190.56	
For Class 2 Pole, Add	108.89	
For Class 4 Pole, Deduct	-54.45	
For Class 5 Pole, Deduct	-163.34	
For Class 6 Pole, Deduct	-217.79	
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,807.45	573.17
For Class 1 Pole, Add	231.40	
For Class 2 Pole, Add	132.23	
For Class 4 Pole, Deduct	-66.12	
For Class 5 Pole, Deduct	-198.35	
For Class 6 Pole, Deduct	-264.46	
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,059.89	638.38
For Class 1 Pole, Add	274.05	
For Class 2 Pole, Add	156.60	
For Class 4 Pole, Deduct	-78.30	
For Class 5 Pole, Deduct	-234.90	
For Class 6 Pole, Deduct	-313.20	



Electrical		26
Common Work Results for Electrical		26 05
Utility Poles for Electrical Systems		26 05 46

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 46 00-0008	EA 50' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	2,340.31 317.61 181.49 -90.75 -272.24 -362.98		716.45
26 05 46 00-0009	EA 55' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	2,613.24 362.98 207.42 -103.71 -311.13 -414.84		788.03
26 05 46 00-0010	EA 60' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	2,915.51 413.80 236.46 -118.23 -354.68 -472.91		866.56
26 05 46 00-0011	EA 65' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	4,613.21 953.47 544.84 -272.42 -817.26 -1,089.68		944.48
26 05 46 00-0012	EA 70' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	5,054.98 1,065.94 609.11 -304.55 -913.66 -1,218.22		1,004.71
26 05 46 00-0013	EA 75' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	5,546.02 1,189.92 679.95 -339.98 -1,019.93 -1,359.90		1,073.09
26 05 46 00-0014	Steel Service Poles Distribution (26 05 46) Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.			
26 05 46 00-0015	Removal And Relocation Of Steel Service Poles (26 05 46 00-0014)			
26 05 46 00-0016	LF Removal And Relocation Of Steel Service Poles With Arms Up To 60'.....	52.95		
26 05 46 00-0017	Special Steel Bases For Poles (26 05 46 00-0014)			
26 05 46 00-0018	EA Spin-In Steel Base For Poles.....	273.22		
26 05 46 00-0019	EA Series 3, 25' Pole And less.....	298.94		75.65
26 05 46 00-0020	EA Series 4, 40' Pole And less.....	354.45		87.01
26 05 46 00-0021	EA Series 5, 50' Pole And less.....	402.39		94.57
26 05 53	Identification for Electrical Systems (26 05)			
26 05 53 00-0001	Conduit Markers Pressure-Sensitive (26 05 53) Note: Stick-on, includes arrow tape.			
26 05 53 00-0002	EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	14.86		
26 05 53 00-0003	EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	15.55		
26 05 53 00-0004	EA 1" Outside Diameter Pressure Sensitive Marker Stick-on.....	16.95		
26 05 53 00-0005	EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.22		
26 05 53 00-0006	EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.50		
26 05 53 00-0007	EA 2" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.92		
26 05 53 00-0008	EA 2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	20.61		
26 05 53 00-0009	EA 3" Outside Diameter Pressure Sensitive Marker Stick-on.....	21.16		
26 05 53 00-0010	EA 3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	21.57		
26 05 53 00-0011	EA 4" Outside Diameter Pressure Sensitive Marker Stick-on.....	22.00		
26 05 53 00-0012	EA 4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	22.87		
26 05 53 00-0013	EA 5" Outside Diameter Pressure Sensitive Marker Stick-on.....	23.79		
26 05 53 00-0014	EA 6" Outside Diameter Pressure Sensitive Marker Stick-on.....	24.61		
26 05 53 00-0015	EA 7" Outside Diameter Pressure Sensitive Marker Stick-on.....	25.43		
26 05 53 00-0016	EA 8" Outside Diameter Pressure Sensitive Marker Stick-on.....	27.67		
26 05 53 00-0017	EA 10" Outside Diameter Pressure Sensitive Marker Stick-on.....	29.19		
26 05 53 00-0018	Labeling Electrical Wires (26 05 53) Note: Self-adhesive vinly coated white cloth			
26 05 53 00-0019	EA Labeling Wire.....	4.26		
26 05 83	Wiring Connections (26 05)			
26 05 83 00-0001	Tape Wrapped Compression Connectors (26 05 83)			
26 05 83 00-0002	EA #6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	17.33		6.23

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0003 EA #4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	18.88	6.92
26 05 83 00-0004 EA #2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	20.25	7.61
26 05 83 00-0005 EA 1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	23.18	8.31
26 05 83 00-0006 EA 2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	24.96	9.00
26 05 83 00-0007 EA 3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	27.58	9.69
26 05 83 00-0008 EA 4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	29.53	10.38
26 05 83 00-0009 EA 250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	32.09	11.07
26 05 83 00-0010 EA 300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	35.56	12.46
26 05 83 00-0011 EA 350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	37.35	13.16
26 05 83 00-0012 EA 400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	41.17	13.85
26 05 83 00-0013 EA 500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	44.54	14.54
26 05 83 00-0014 EA 750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	49.61	15.92
26 05 83 00-0015 EA 1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	57.32	17.99
26 05 83 00-0016 One Hole Compression Lugs (26 05 83)		
26 05 83 00-0017 EA #22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	23.49	17.99
26 05 83 00-0018 EA #16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	23.63	17.99
26 05 83 00-0019 EA #12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	26.70	19.38
26 05 83 00-0020 EA #8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	32.66	21.46
26 05 83 00-0021 EA #6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	46.08	27.69
26 05 83 00-0022 EA #4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	54.22	27.69
26 05 83 00-0023 EA #2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	62.38	27.69
26 05 83 00-0024 EA 1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	77.07	41.53
26 05 83 00-0025 EA 2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	90.52	41.53
26 05 83 00-0026 EA 3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	105.99	41.53
26 05 83 00-0027 EA 4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	127.90	55.38
26 05 83 00-0028 EA 250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	151.71	83.07
26 05 83 00-0029 EA 300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	173.53	83.07
26 05 83 00-0030 EA 350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	186.57	83.07
26 05 83 00-0031 EA 400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	202.97	96.91
26 05 83 00-0032 EA 500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	221.82	96.91
26 05 83 00-0033 EA 750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	241.16	110.75
26 05 83 00-0034 EA 1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	282.34	124.60
26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)		
26 05 83 00-0036 EA #8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	47.77	23.54
26 05 83 00-0037 EA #6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	51.18	25.06
26 05 83 00-0038 EA #4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	54.06	25.06
26 05 83 00-0039 EA #2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	62.20	28.80
26 05 83 00-0040 EA 1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	76.88	36.00
26 05 83 00-0041 EA 2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	90.33	42.78
26 05 83 00-0042 EA 3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	105.77	50.12
26 05 83 00-0043 EA 4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	127.66	60.78
26 05 83 00-0044 EA 250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	151.43	72.13
26 05 83 00-0045 EA 300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	173.20	82.37
26 05 83 00-0046 EA 350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	186.23	88.74
26 05 83 00-0047 EA 400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	202.57	96.08
26 05 83 00-0048 EA 500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	221.36	104.94
26 05 83 00-0049 EA 750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	241.57	113.80
26 05 83 00-0050 EA 1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	297.93	138.45
26 05 83 00-0051 Tape Wrapped Split Bolt Connectors (26 05 83)		
26 05 83 00-0052 EA #8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	72.02	55.38
26 05 83 00-0053 EA #6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	79.21	59.54
26 05 83 00-0054 EA #4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	90.23	62.30
26 05 83 00-0055 EA #2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	104.44	69.22
26 05 83 00-0056 EA 1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	122.96	76.15
26 05 83 00-0057 EA 2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	136.82	83.07
26 05 83 00-0058 EA 3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	170.63	89.98
26 05 83 00-0059 EA 4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	183.01	96.91
26 05 83 00-0060 EA 250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	192.76	103.83
26 05 83 00-0061 EA 300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	218.40	114.22
26 05 83 00-0062 EA 350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	244.04	166.13
26 05 83 00-0063 EA 400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	266.78	138.45
26 05 83 00-0064 EA 500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	289.50	186.90
26 05 83 00-0065 EA 750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	318.49	193.83
26 05 83 00-0066 EA 1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	357.84	207.66
26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)		
26 05 83 00-0068 EA #8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	115.29	55.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.07	
26 05 83 00-0069 EA #4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	128.71	55.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.96	
26 05 83 00-0070 EA 1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	178.58	83.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 05 83 00-0071 EA 4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	203.35	83.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	242.76	103.83
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.93	
26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	338.23	138.45
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.53	
26 05 83 00-0074			Terminal Blocks (26 05 83) Note: Labor excludes wire termination.		
26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	1,175.73	512.24
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	307.65	
26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block	275.34	69.32
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.00	
26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block	301.04	69.32
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.44	
26 05 83 00-0078			Parallel Gutter Tap Or Motor Connection (26 05 83)		
26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	47.76	25.06
26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	51.18	25.06
26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	54.06	25.06
26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	62.20	28.80
26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	76.88	36.00
26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	90.33	42.78
26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	105.78	50.12
26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	127.66	60.78
26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	151.43	72.13
26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	173.20	82.37
26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	186.23	88.74
26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	202.57	96.08
26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	221.36	104.94
26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	221.77	104.94
26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover	47.76	25.06
26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover	51.18	25.06
26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover	54.06	25.06
26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover	62.20	28.80
26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	76.88	36.00
26 05 83 00-0098	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	90.33	42.78
26 05 83 00-0099	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	105.78	50.12
26 05 83 00-0100	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	127.66	60.78
26 05 83 00-0101	EA		250 MCM Parallel Gutter Tap, Versitap, Insulating Cover	151.43	72.13
26 05 83 00-0102	EA		300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	173.20	82.37
26 05 83 00-0103	EA		350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	186.23	88.74
26 05 83 00-0104	EA		400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	202.57	96.08
26 05 83 00-0105	EA		500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	221.36	104.94
26 05 83 00-0106	EA		750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	221.77	104.94
26 05 83 00-0107			Copper Mechanical Lugs (26 05 83)		
26 05 83 00-0108	EA		#8 Copper Mechanical Lugs	37.79	17.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 83 00-0109	EA		#6 Copper Mechanical Lugs	45.43	20.90
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.54	
26 05 83 00-0110	EA		#4 Copper Mechanical Lugs	52.53	24.23
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.54	
26 05 83 00-0111	EA		#2 Copper Mechanical Lugs	68.24	30.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.54	
26 05 83 00-0112	EA		1/0 Copper Mechanical Lugs	91.84	41.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.92	
26 05 83 00-0113	EA		2/0 Copper Mechanical Lugs	108.66	48.18
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 05 83 00-0114	EA		3/0 Copper Mechanical Lugs	126.39	55.38
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.23	
26 05 83 00-0115	EA		4/0 Copper Mechanical Lugs	143.25	62.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.26	
26 05 83 00-0116	EA		250 MCM Copper Mechanical Lugs.....	162.81	69.22
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.53	
26 05 83 00-0117	EA		300 MCM Copper Mechanical Lugs.....	182.03	76.15
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.71	
26 05 83 00-0118	EA		350 MCM Copper Mechanical Lugs.....	201.15	83.07
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.84	
26 05 83 00-0119	EA		400 MCM Copper Mechanical Lugs.....	220.15	89.98
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.95	
26 05 83 00-0120	EA		500 MCM Copper Mechanical Lugs.....	239.47	96.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.15	
26 05 83 00-0121	EA		750 MCM Copper Mechanical Lugs.....	271.77	110.34
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.24	
26 05 83 00-0122	EA		1,000 MCM Copper Mechanical Lugs.....	307.43	124.60
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.76	
26 05 83 00-0123			Gel Connectors (26 05 83)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	58.50	
Note: Kit contains connector, gel filled cap and cap clamp.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit.....	57.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.99	
26 05 83 00-0126 Other Connections (26 05 83)		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.50	6.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.58	6.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.67	6.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	
26 09 Instrumentation and Control for Electrical Systems (26)		
26 09 23 Lighting Control Devices (26 09)		
26 09 23 00-0001 Street Light Controls (26 09 23)		
26 09 23 00-0002 Photo Controls (26 09 23 00-0001)		
26 09 23 00-0003 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014.....	106.22	
26 09 23 00-0004 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	119.91	
26 09 23 00-0005 Connector Node (26 09 23 00-0001)		
26 09 23 00-0006 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260).....	449.04	2.88
26 20 Low-Voltage Electrical Distribution (26)		
26 21 Low-Voltage Electrical Service Entrance (26 20)		
See CSI section 26 05 13 00-0000 for wire and cables.		
26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)		
26 21 13 00-0001 Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002 600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		
26 21 13 00-0003 Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004 LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	9.19	3.61
26 21 13 00-0005 LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	10.94	4.26
26 21 13 00-0006 LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.50	4.81
26 21 13 00-0007 LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	16.04	6.06
26 21 13 00-0008 Aluminum Triplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0009 LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	10.99	4.26
26 21 13 00-0010 LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.45	4.81
26 21 13 00-0011 LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	15.72	6.06
26 21 13 00-0012 LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	19.34	7.38
26 21 13 00-0013 LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	25.48	9.76
26 21 13 00-0014 LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	31.87	12.10
26 21 13 00-0015 LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	39.47	14.41
26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0017 LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.46	4.81
26 21 13 00-0018 LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	15.72	6.06
26 21 13 00-0019 LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	20.20	7.76
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	25.73	9.76
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	28.54	10.80
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	32.30	12.10
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	38.30	14.41
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	44.17	15.93
26 21 13 00-0025 Weatherproof Conduit Hubs (26 21 13 00-0002)		
26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs.....	63.37	24.37
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs.....	72.22	27.69
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs.....	83.17	31.01
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs.....	114.93	41.53
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs.....	125.87	44.86
26 21 13 00-0031 EA 2" Weatherproof Conduit Hubs.....	158.95	52.05
26 21 13 00-0032 EA 2-1/2" Weatherproof Conduit Hubs.....	202.72	58.70
26 21 13 00-0033 EA 3" Weatherproof Conduit Hubs.....	257.68	69.22
26 21 13 00-0034 EA 4" Weatherproof Conduit Hubs.....	466.29	138.45



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Electrical Service Entrance		26 21

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 21 13 00-0035 Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)					
26 21 13 00-0036	EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service.....	68.45		24.37	
26 21 13 00-0037	EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service.....	78.30		27.69	
26 21 13 00-0038	EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	89.13		31.01	
26 21 13 00-0039	EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	119.65		41.53	
26 21 13 00-0040	EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	133.70		44.86	
26 21 13 00-0041	EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service.....	170.41		52.05	
26 21 13 00-0042	EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service.....	264.60		58.70	
26 21 13 00-0043	EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service.....	303.04		69.22	
26 21 13 00-0044	EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service.....	517.10		138.45	
26 21 13 00-0045 Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)					
26 21 13 00-0046	EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	66.81		24.37	
26 21 13 00-0047	EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	75.54		27.69	
26 21 13 00-0048	EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	85.39		30.87	
26 21 13 00-0049	EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	113.74		41.53	
26 21 13 00-0050	EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	125.71		44.86	
26 21 13 00-0051	EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	147.59		52.05	
26 21 13 00-0052	EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	221.80		58.70	
26 21 13 00-0053	EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	281.51		69.22	
26 21 13 00-0054	EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	401.21		103.83	
26 21 13 00-0055	EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	491.48		138.45	
26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) (26 21 13 00-0002)					
26 21 13 00-0057	EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	65.03		24.37	
26 21 13 00-0058	EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	74.25		27.69	
26 21 13 00-0059	EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	84.01		30.87	
26 21 13 00-0060	EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	112.07		41.53	
26 21 13 00-0061	EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	121.79		44.86	
26 21 13 00-0062	EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	147.19		52.05	
26 21 13 00-0063	EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	225.24		58.70	
26 21 13 00-0064	EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	254.94		69.22	
26 21 13 00-0065	EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	426.96		103.83	
26 21 13 00-0066	EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	587.40		138.45	
26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)					
26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)					
Note: Excludes excavation and backfill.					
26 21 16 00-0002	MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	3,750.83		1,345.00	
26 21 16 00-0003	MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	4,076.45		1,424.14	
26 21 16 00-0004	MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	4,498.57		1,513.11	
26 21 16 00-0005	MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	4,805.30		1,513.11	
26 21 16 00-0006	MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	5,216.83		1,614.04	
26 21 16 00-0007	MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	6,094.16		1,862.33	
26 21 16 00-0008	MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	7,729.81		2,420.97	
26 25 Enclosed Bus Assemblies (26 20)					
26 25 13 Low-Voltage Busways (26 25)					
26 25 13 00-0001 Plug-In Bus Duct (26 25 13)					
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.					
26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0001)					
26 25 13 00-0003	LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	548.00		41.53	
	For Up To 25, Add	137.00			
	For >25 To 50, Add	82.20			
	For >50 To 100, Add	41.10			
26 25 13 00-0004	LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	794.47		41.53	
	For Up To 25, Add	198.62			
	For >25 To 50, Add	119.17			
	For >50 To 100, Add	59.59			
26 25 13 00-0005	LF 600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,014.21		55.38	
	For Up To 25, Add	253.55			
	For >25 To 50, Add	152.13			
	For >50 To 100, Add	76.07			
26 25 13 00-0006	LF 800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,423.22		55.38	
	For Up To 25, Add	355.81			
	For >25 To 50, Add	213.48			
	For >50 To 100, Add	106.74			

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0007	LF	1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,499.95	69.22
		For Up To 25, Add	374.99	
		For >25 To 50, Add	224.99	
		For >50 To 100, Add	112.50	
26 25 13 00-0008	LF	1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,116.98	69.22
		For Up To 25, Add	529.25	
		For >25 To 50, Add	317.55	
		For >50 To 100, Add	158.77	
26 25 13 00-0009	LF	1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,491.11	72.68
		For Up To 25, Add	622.78	
		For >25 To 50, Add	373.67	
		For >50 To 100, Add	186.83	
26 25 13 00-0010	LF	2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	3,053.41	74.76
		For Up To 25, Add	763.35	
		For >25 To 50, Add	458.01	
		For >50 To 100, Add	229.01	
26 25 13 00-0011	LF	2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	3,788.06	78.91
		For Up To 25, Add	947.02	
		For >25 To 50, Add	568.21	
		For >50 To 100, Add	284.10	
26 25 13 00-0012	LF	3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	4,372.52	92.07
		For Up To 25, Add	1,093.13	
		For >25 To 50, Add	655.88	
		For >50 To 100, Add	327.94	
26 25 13 00-0013	LF	4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	5,069.26	100.37
		For Up To 25, Add	1,267.32	
		For >25 To 50, Add	760.39	
		For >50 To 100, Add	380.19	
26 25 13 00-0014		277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0001)		
26 25 13 00-0015	LF	225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	940.80	41.53
		For Up To 25, Add	235.20	
		For >25 To 50, Add	141.12	
		For >50 To 100, Add	70.56	
26 25 13 00-0016	LF	400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,375.96	41.53
		For Up To 25, Add	343.99	
		For >25 To 50, Add	206.39	
		For >50 To 100, Add	103.20	
26 25 13 00-0017	LF	600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,555.88	55.38
		For Up To 25, Add	388.97	
		For >25 To 50, Add	233.38	
		For >50 To 100, Add	116.69	
26 25 13 00-0018	LF	800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,990.56	55.38
		For Up To 25, Add	497.64	
		For >25 To 50, Add	298.58	
		For >50 To 100, Add	149.29	
26 25 13 00-0019	LF	1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,438.70	69.22
		For Up To 25, Add	609.68	
		For >25 To 50, Add	365.81	
		For >50 To 100, Add	182.90	
26 25 13 00-0020	LF	1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,181.39	69.22
		For Up To 25, Add	795.35	
		For >25 To 50, Add	477.21	
		For >50 To 100, Add	238.60	
26 25 13 00-0021	LF	1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	4,128.45	71.72
		For Up To 25, Add	1,032.11	
		For >25 To 50, Add	619.27	
		For >50 To 100, Add	309.63	
26 25 13 00-0022	LF	2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	4,989.26	74.76
		For Up To 25, Add	1,247.32	
		For >25 To 50, Add	748.39	
		For >50 To 100, Add	374.19	
26 25 13 00-0023	LF	2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	6,208.09	78.22
		For Up To 25, Add	1,552.02	
		For >25 To 50, Add	931.21	
		For >50 To 100, Add	465.61	
26 25 13 00-0024	LF	3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	7,164.92	92.07
		For Up To 25, Add	1,791.23	
		For >25 To 50, Add	1,074.74	
		For >50 To 100, Add	537.37	
26 25 13 00-0025	LF	4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	8,314.91	100.37
		For Up To 25, Add	2,078.73	
		For >25 To 50, Add	1,247.24	
		For >50 To 100, Add	623.62	
26 25 13 00-0026		Cable Tap Boxes (26 25 13 00-0001)		
26 25 13 00-0027		600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0028	EA	225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,751.63	193.83
26 25 13 00-0029	EA	400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,861.28	193.83
26 25 13 00-0030	EA	600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,224.87	263.04
26 25 13 00-0031	EA	800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,526.36	263.04
26 25 13 00-0032	EA	1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,902.23	346.11



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Enclosed Bus Assemblies	26 25	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0033	EA	1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	6,457.42	346.11
26 25 13 00-0034		277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0035	EA	225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	4,861.28	380.72
26 25 13 00-0036	EA	400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	5,240.76	380.72
26 25 13 00-0037	EA	600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	5,556.73	519.16
26 25 13 00-0038	EA	800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	6,236.83	519.16
26 25 13 00-0039	EA	1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	6,515.88	692.22
26 25 13 00-0040	EA	1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	7,428.71	692.22
26 25 13 00-0041		Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)		
26 25 13 00-0042		240 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0043	EA	60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker.....	2,067.27	138.45
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.74	
26 25 13 00-0044	EA	100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker.....	4,258.30	138.45
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.22	
26 25 13 00-0045		600 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0046	EA	60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	4,186.67	138.45
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.74	
26 25 13 00-0047	EA	100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	5,425.12	138.45
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.22	
26 25 13 00-0048		120/208 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0049	EA	60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker.....	2,382.45	166.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.53	
26 25 13 00-0050	EA	100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker.....	2,833.13	166.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.16	
26 25 13 00-0051		277/480 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0052	EA	60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	2,761.03	166.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.53	
26 25 13 00-0053	EA	100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	4,315.57	166.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.16	
26 25 13 00-0054	EA	225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	6,056.68	574.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	249.00	
26 25 13 00-0055	EA	400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	14,601.33	574.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	540.80	
26 25 13 00-0056	EA	600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	15,909.79	1,661.33
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	752.41	
26 25 13 00-0057	EA	800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	18,844.19	1,661.33
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,331.19	
26 25 13 00-0058		Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059		240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060	EA	30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,062.07	138.45
26 25 13 00-0061	EA	60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,243.02	138.45
26 25 13 00-0062	EA	100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,130.65	166.13
26 25 13 00-0063	EA	200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,257.80	332.26
26 25 13 00-0064	EA	400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	13,474.81	747.60
26 25 13 00-0065	EA	600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	19,797.85	1,301.37
26 25 13 00-0066		600 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0067	EA	30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,170.95	152.28
26 25 13 00-0068	EA	60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,345.97	152.28
26 25 13 00-0069	EA	100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,177.56	152.28
26 25 13 00-0070	EA	200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,424.03	318.42
26 25 13 00-0071	EA	400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	13,437.83	719.91
26 25 13 00-0072	EA	600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	20,060.06	1,384.44
26 25 13 00-0073	EA	800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	33,663.91	1,799.77
26 25 13 00-0074		120/208 Volt, 4-pole, 3 Fuse (26 25 13 00-0058)		
26 25 13 00-0075	EA	30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,395.72	179.98
26 25 13 00-0076	EA	60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,540.72	179.98
26 25 13 00-0077	EA	100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,439.15	179.98
26 25 13 00-0078	EA	200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,839.62	373.80
26 25 13 00-0079	EA	400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	14,724.61	830.67
26 25 13 00-0080	EA	600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	21,350.20	1,273.68
26 25 13 00-0081		277/480 Volt, 4-pole, 3-Fuse (26 25 13 00-0058)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,482.78	179.98
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,627.78	152.71
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,688.94	207.66
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	6,104.70	373.80
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	14,724.61	830.67
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	21,350.20	1,273.68
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	34,374.37	1,689.02

26 25 16 Low-Voltage Cablebus Systems (26 25)**26 25 16 00-0001****Feeder Bus Duct (26 25 16)**

Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.

26 25 16 00-0002**600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 16 00-0001)**

Note: Copper conductors.

26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,744.38	58.14
For Up To 25, Add	436.10	
For >25 To 50, Add	261.66	
For >50 To 100, Add	130.83	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,762.59	58.14
For Up To 25, Add	440.65	
For >25 To 50, Add	264.39	
For >50 To 100, Add	132.19	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,325.14	58.14
For Up To 25, Add	581.29	
For >25 To 50, Add	348.77	
For >50 To 100, Add	174.39	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,804.05	58.14
For Up To 25, Add	701.01	
For >25 To 50, Add	420.61	
For >50 To 100, Add	210.30	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,435.00	58.14
For Up To 25, Add	858.75	
For >25 To 50, Add	515.25	
For >50 To 100, Add	257.63	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	4,683.13	138.45
For Up To 25, Add	1,170.78	
For >25 To 50, Add	702.47	
For >50 To 100, Add	351.23	
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	6,496.86	138.45
For Up To 25, Add	1,624.22	
For >25 To 50, Add	974.53	
For >50 To 100, Add	487.26	
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	7,685.69	138.45
For Up To 25, Add	1,921.42	
For >25 To 50, Add	1,152.85	
For >50 To 100, Add	576.43	
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	9,484.60	138.45
For Up To 25, Add	2,371.15	
For >25 To 50, Add	1,422.69	
For >50 To 100, Add	711.35	

26 25 16 00-0012**277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 16 00-0001)**

Note: Low impedance, copper conductors.

26 25 16 00-0013 LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,011.20	62.30
For Up To 25, Add	502.80	
For >25 To 50, Add	301.68	
For >50 To 100, Add	150.84	
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,033.71	62.30
For Up To 25, Add	508.43	
For >25 To 50, Add	305.06	
For >50 To 100, Add	152.53	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,633.27	62.30
For Up To 25, Add	658.32	
For >25 To 50, Add	394.99	
For >50 To 100, Add	197.50	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,122.80	62.30
For Up To 25, Add	780.70	
For >25 To 50, Add	468.42	
For >50 To 100, Add	234.21	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,778.38	62.30
For Up To 25, Add	944.60	
For >25 To 50, Add	566.76	
For >50 To 100, Add	283.38	
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	5,826.60	106.61
For Up To 25, Add	1,456.65	
For >25 To 50, Add	873.99	
For >50 To 100, Add	437.00	
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	7,311.08	106.61
For Up To 25, Add	1,827.77	
For >25 To 50, Add	1,096.66	
For >50 To 100, Add	548.33	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Enclosed Bus Assemblies	26 25

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	8,646.85	197.97
For Up To 25, Add	2,161.71	
For >25 To 50, Add	1,297.03	
For >50 To 100, Add	648.51	
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	10,688.22	197.97
For Up To 25, Add	2,672.06	
For >25 To 50, Add	1,603.23	
For >50 To 100, Add	801.62	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 16 Electrical Cabinets and Enclosures (26 27)

Note: Can be used as enclosure or pull/junction boxes.

26 27 16 00-0001 NEMA 1 Enclosures, Lockable (26 27 16)

26 27 16 00-0002 Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)

26 27 16 00-0003 4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)

26 27 16 00-0004 EA 6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	82.66	27.69
26 27 16 00-0005 EA 6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	92.31	30.46
26 27 16 00-0006 EA 8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	102.02	33.22
26 27 16 00-0007 EA 8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	119.08	38.77
26 27 16 00-0008 EA 10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	129.24	41.53
26 27 16 00-0009 EA 10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	140.00	44.31
26 27 16 00-0010 EA 12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	139.69	44.31
26 27 16 00-0011 EA 12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	150.68	47.07
26 27 16 00-0012 EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	162.12	49.84
26 27 16 00-0013 EA 16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	211.46	66.45
26 27 16 00-0014 EA 16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	256.31	80.30
26 27 16 00-0015 EA 18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	244.34	77.53

26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)

26 27 16 00-0017 EA 6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	102.62	33.22
26 27 16 00-0018 EA 8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	123.52	38.77
26 27 16 00-0019 EA 10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	148.00	47.07
26 27 16 00-0020 EA 10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	159.21	49.84
26 27 16 00-0021 EA 12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	170.61	52.61
26 27 16 00-0022 EA 12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	182.44	55.38
26 27 16 00-0023 EA 16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	232.80	71.99
26 27 16 00-0024 EA 16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	283.14	88.60
26 27 16 00-0025 EA 18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	273.31	85.84
26 27 16 00-0026 EA 18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	355.24	110.75
26 27 16 00-0027 EA 24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	445.96	127.37
26 27 16 00-0028 EA 24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	504.81	138.45
26 27 16 00-0029 EA 30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	557.00	146.75
26 27 16 00-0030 EA 36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	602.26	152.28
26 27 16 00-0031 EA 24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	418.07	110.75

26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)

26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0034 EA 4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	56.59	19.38
26 27 16 00-0035 EA 6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	80.87	27.69
26 27 16 00-0036 EA 8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	89.87	30.46

26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0038 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	63.66	22.15
26 27 16 00-0039 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	79.11	27.69
26 27 16 00-0040 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	87.99	30.46
26 27 16 00-0041 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	96.98	33.22
26 27 16 00-0042 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	113.14	38.77
26 27 16 00-0043 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	122.45	41.53
26 27 16 00-0044 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	132.11	44.31
26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	131.84	44.31
26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	141.83	47.07
26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	152.05	49.84
26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	199.91	66.45
26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	248.30	83.07
26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	230.78	77.53
26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	298.32	99.68
26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	415.06	124.60

26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	97.37	33.22
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	106.86	36.00
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	123.21	41.53

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	139.83	47.07
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	149.93	49.84
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	160.11	52.61
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	170.63	55.38
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	219.34	71.99
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	269.62	88.60
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	257.56	85.84
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	334.20	110.75
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	408.52	127.37
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	462.10	138.45
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	496.71	146.75
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	536.65	152.28
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	139.83	47.07
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	188.07	60.92
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	239.18	77.53
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	297.41	96.91
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	285.48	94.14
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	353.37	116.30
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	396.69	132.91
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	449.63	141.21
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	509.25	152.28
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	540.69	160.59
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	565.95	166.13
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	577.37	166.13
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	322.67	105.21
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	422.39	135.67
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	432.94	143.98
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	535.95	155.06
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	611.31	171.67
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	667.64	177.21
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	709.35	185.52
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	466.11	149.52
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	471.45	157.83
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	590.24	171.67
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	668.01	188.28
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	737.68	196.59
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	776.07	204.90
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,073.76	121.83
26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)		
Note: Dust-tight enclosures.		
26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	106.20	22.15
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	139.37	30.46
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	173.12	38.77
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	187.14	41.53
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	208.55	44.31
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	224.23	47.07
26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	154.34	33.22
26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	169.63	36.00
26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	194.33	22.15
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	235.82	30.46
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	265.83	33.22
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	304.65	38.77



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	314.50	41.53
26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	368.12	44.31
26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	394.92	47.07
26 27 16 00-0121 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	446.78	49.84
26 27 16 00-0122 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0123 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	284.42	33.22
26 27 16 00-0124 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	320.43	36.00
26 27 16 00-0125 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	350.88	41.53
26 27 16 00-0126 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	415.51	49.84
26 27 16 00-0127 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	452.12	55.38
26 27 16 00-0128 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	624.41	71.99
26 27 16 00-0129 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	967.05	110.75
26 27 16 00-0130 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,254.35	127.37
26 27 16 00-0131 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,410.63	138.45
26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,313.80	141.21
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,506.79	152.28
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,651.56	160.59
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,813.29	166.13
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,789.92	166.13
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,475.78	224.98
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,541.12	249.20
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,345.42	266.51
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,314.20	332.26
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,178.77	391.80
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,980.75	391.80
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,655.15	415.33
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,542.94	443.02
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,298.10	443.02
26 27 16 00-0151 NEMA 3 Enclosures, Lockable (26 27 16) Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	312.31	96.91
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	331.05	96.91
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	408.95	100.37
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	421.71	100.37
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	516.44	103.83
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	405.50	100.37
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	438.86	100.37
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	456.98	103.83
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	559.45	103.83
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	612.97	110.75
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	658.89	117.68
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	683.27	117.68
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	801.27	121.13
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	865.20	124.60
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,165.35	138.45
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	589.46	107.30
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	734.45	121.13

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0173	EA	8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	850.21	124.60
26 27 16 00-0174	EA	10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	970.59	128.06
26 27 16 00-0175	EA	10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,028.07	128.06
26 27 16 00-0176	EA	12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,165.04	138.45
26 27 16 00-0177	EA	12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,345.02	155.75
26 27 16 00-0178	EA	16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,268.62	148.83
26 27 16 00-0179	EA	18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,459.08	276.89
26 27 16 00-0180	EA	18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	4,181.20	346.11
26 27 16 00-0181		8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0182	EA	8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,039.09	131.52
26 27 16 00-0183	EA	12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,547.95	173.05
26 27 16 00-0184	EA	12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,571.43	173.05
26 27 16 00-0185	EA	16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,143.81	259.58
26 27 16 00-0186	EA	18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,785.17	276.89
26 27 16 00-0187	EA	24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	6,938.72	484.56
26 27 16 00-0188		10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0189	EA	18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,700.06	346.11
26 27 16 00-0190		12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0191	EA	18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	5,621.53	415.33
26 27 16 00-0192	EA	24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	4,646.25	380.72
26 27 16 00-0193		NEMA 3R Enclosures, Lockable (26 27 16)		
		Note: Rain-tight enclosures.		
26 27 16 00-0194		Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0195		4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196	EA	6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	102.78	27.69
26 27 16 00-0197	EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	113.41	30.46
26 27 16 00-0198	EA	8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	159.71	33.22
26 27 16 00-0199		6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200	EA	8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	200.84	41.53
26 27 16 00-0201	EA	10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	224.88	47.07
26 27 16 00-0202	EA	12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	262.06	52.61
26 27 16 00-0203	EA	12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	282.29	55.38
26 27 16 00-0204	EA	16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	367.45	71.99
26 27 16 00-0205	EA	16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	441.12	88.60
26 27 16 00-0206	EA	18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	510.42	110.75
26 27 16 00-0207		8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208	EA	24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	756.69	141.21
26 27 16 00-0209	EA	24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	836.25	152.28
26 27 16 00-0210	EA	30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	933.93	160.59
26 27 16 00-0211	EA	30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	980.39	166.13
26 27 16 00-0212		10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213	EA	12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	935.93	171.67
26 27 16 00-0214	EA	12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,057.18	193.83
26 27 16 00-0215	EA	12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,170.59	214.59
26 27 16 00-0216	EA	12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,289.08	236.74
26 27 16 00-0217	EA	12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,403.89	257.51
26 27 16 00-0218	EA	18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	625.70	135.67
26 27 16 00-0219	EA	24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	935.93	171.67
26 27 16 00-0220	EA	30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,090.31	177.21
26 27 16 00-0221	EA	36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,359.30	193.83
26 27 16 00-0222		12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223	EA	12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	887.42	137.06
26 27 16 00-0224	EA	12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	995.48	153.68
26 27 16 00-0225	EA	12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,102.15	170.29
26 27 16 00-0226	EA	12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,218.34	188.28
26 27 16 00-0227	EA	12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,326.38	204.90
26 27 16 00-0228	EA	18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	663.20	102.45
26 27 16 00-0229	EA	18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	887.42	137.06
26 27 16 00-0230	EA	18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	995.48	153.68
26 27 16 00-0231	EA	18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,170.64	179.98
26 27 16 00-0232	EA	18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,326.38	204.90



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Distribution Equipment	26 27

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 27 16 00-0233	EA	30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,265.71		202.13
26 27 16 00-0234	EA	36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,326.38		204.90
26 27 16 00-0235	EA	36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,393.49		210.44
26 27 16 00-0236	EA	36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,543.38		221.51
26 27 16 00-0237	EA	42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,668.68		232.59
26 27 16 00-0238	Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)				
26 27 16 00-0239	4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)				
26 27 16 00-0240	EA	4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	74.80		22.15
26 27 16 00-0241	EA	6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	91.08		27.69
26 27 16 00-0242	EA	6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	100.49		30.46
26 27 16 00-0243	EA	8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	111.03		33.22
26 27 16 00-0244	EA	8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	129.05		38.77
26 27 16 00-0245	EA	10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	140.14		41.53
26 27 16 00-0246	EA	10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	152.01		44.31
26 27 16 00-0247	EA	12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	151.48		44.31
26 27 16 00-0248	EA	12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	164.60		47.07
26 27 16 00-0249	EA	12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	176.47		49.84
26 27 16 00-0250	EA	18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	268.25		77.53
26 27 16 00-0251	EA	18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	355.10		99.68
26 27 16 00-0252	6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)				
26 27 16 00-0253	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	105.72		33.22
26 27 16 00-0254	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	141.57		41.53
26 27 16 00-0255	EA	10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	160.39		47.07
26 27 16 00-0256	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	173.00		49.84
26 27 16 00-0257	EA	12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	172.22		49.84
26 27 16 00-0258	EA	12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	185.47		52.61
26 27 16 00-0259	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	198.82		55.38
26 27 16 00-0260	EA	16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	259.28		71.99
26 27 16 00-0261	EA	18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	300.59		85.84
26 27 16 00-0262	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	398.41		110.75
26 27 16 00-0263	EA	24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	418.35		119.06
26 27 16 00-0264	EA	24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	471.99		127.37
26 27 16 00-0265	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	528.09		138.45
26 27 16 00-0266	8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)				
26 27 16 00-0267	EA	12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	221.78		60.92
26 27 16 00-0268	EA	18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	325.40		94.14
26 27 16 00-0269	EA	18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	440.30		121.83
26 27 16 00-0270	EA	24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	522.46		141.21
26 27 16 00-0271	EA	24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	585.83		152.28
26 27 16 00-0272	EA	30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	644.76		160.59
26 27 16 00-0273	10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)				
26 27 16 00-0274	EA	18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	486.64		135.67
26 27 16 00-0275	EA	24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	647.18		171.67
26 27 16 00-0276	EA	30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	702.15		177.21
26 27 16 00-0277	12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)				
26 27 16 00-0278	EA	24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	713.98		188.28
26 27 16 00-0279	EA	30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	953.92		204.90
26 27 16 00-0280	EA	36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	984.95		210.44
26 27 16 00-0281	EA	36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,134.55		221.51
26 27 16 00-0282	NEMA 4 Enclosures, Lockable (26 27 16) Note: Water-tight enclosures.				
26 27 16 00-0283	Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)				
26 27 16 00-0284	EA	4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	119.74		19.38
26 27 16 00-0285	EA	6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	140.16		23.54
26 27 16 00-0286	EA	8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	175.47		30.46
26 27 16 00-0287	EA	6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	167.37		30.46
26 27 16 00-0288	EA	10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	223.92		41.53
26 27 16 00-0289	EA	12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	278.44		49.84
26 27 16 00-0290	EA	10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	257.50		47.07
26 27 16 00-0291	EA	12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	300.35		55.38
26 27 16 00-0292	EA	14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	353.00		63.68
26 27 16 00-0293	EA	16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	428.76		80.30
26 27 16 00-0294	Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)				
26 27 16 00-0295	EA	4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	110.33		19.38

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	157.98	30.46
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	139.17	26.58
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	148.01	28.80
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	182.33	37.65
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	212.63	41.53
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	274.48	52.61
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	321.01	62.30
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	455.45	99.68
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	233.89	22.15
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	276.92	30.46
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	351.79	41.53
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	426.92	49.84
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	526.95	63.68
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	623.66	80.30
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	271.62	19.38
For 316 Stainless Steel, Add		35.71
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	354.78	27.69
For 316 Stainless Steel, Add		45.69
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	401.48	30.46
For 316 Stainless Steel, Add		52.05
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	458.50	33.22
For 316 Stainless Steel, Add		60.07
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	563.55	41.53
For 316 Stainless Steel, Add		73.56
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	789.15	52.61
For 316 Stainless Steel, Add		105.22
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	982.65	63.68
For 316 Stainless Steel, Add		131.75
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,186.77	80.30
For 316 Stainless Steel, Add		157.76
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	142.92	30.46
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	160.39	33.22
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	183.90	38.77
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	199.60	41.53
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	230.14	47.07
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	217.84	47.07
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	252.71	52.61
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	315.60	63.68
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	406.07	87.22
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	529.53	125.57
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	152.60	30.46
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	171.82	33.22
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	196.20	38.77
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	214.53	41.53
26 27 16 00-0337 EA 10" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	245.95	47.07
26 27 16 00-0338 EA 12" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	232.78	47.07
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	272.98	52.61
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	326.14	63.68
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	428.04	87.22
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	553.25	125.57
26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	170.17	30.46
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	182.36	33.22
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	207.61	38.77
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	224.20	41.53
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	264.41	47.07
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	245.08	47.07
26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	298.45	52.61
26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	355.14	63.68
26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	440.34	87.22
26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	574.33	125.57
26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	177.20	30.46
26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	195.53	33.22



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0356 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	219.91	38.77
26 27 16 00-0357 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	237.38	41.53
26 27 16 00-0358 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	281.98	47.07
26 27 16 00-0359 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	260.01	47.07
26 27 16 00-0360 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	316.91	52.61
26 27 16 00-0361 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	363.93	63.68
26 27 16 00-0362 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	469.33	87.22
26 27 16 00-0363 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	605.09	125.57
26 27 16 00-0364 NEMA 7/9 Enclosures, Lockable (26 27 16)		
Note: Nominal inside dimensions.		
26 27 16 00-0365 4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0366 EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,225.48	155.75
For Mounting Pan, Add	48.38	
26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,000.93	166.13
For Mounting Pan, Add	90.15	
26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,878.45	186.90
For Mounting Pan, Add	124.31	
26 27 16 00-0369 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,682.11	186.90
For Mounting Pan, Add	63.21	
26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,162.79	192.09
For Mounting Pan, Add	124.31	
26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,219.18	207.66
For Mounting Pan, Add	95.09	
26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,274.37	207.66
For Mounting Pan, Add	111.26	
26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,196.36	259.58
For Mounting Pan, Add	145.96	
26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,007.10	233.62
For Mounting Pan, Add	91.14	
26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,120.80	259.58
For Mounting Pan, Add	136.37	
26 27 16 00-0377 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,858.31	467.24
For Mounting Pan, Add	183.47	
26 27 16 00-0378 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,823.76	311.50
For Mounting Pan, Add	178.63	
26 27 16 00-0379 EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,080.75	519.16
For Mounting Pan, Add	163.99	
26 27 16 00-0380 EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	6,030.96	519.16
For Mounting Pan, Add	266.60	
26 27 16 00-0381 8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0382 EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,585.29	233.62
For Mounting Pan, Add	95.09	
26 27 16 00-0383 EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,602.44	233.62
For Mounting Pan, Add	111.26	
26 27 16 00-0384 EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,929.08	233.62
For Mounting Pan, Add	145.96	
26 27 16 00-0385 EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,245.97	259.58
For Mounting Pan, Add	91.14	
26 27 16 00-0386 EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,769.83	467.24
For Mounting Pan, Add	136.37	
26 27 16 00-0387 EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,805.69	571.09
For Mounting Pan, Add	183.47	
26 27 16 00-0388 EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	8,991.67	674.92
For Mounting Pan, Add	275.91	
26 27 16 00-0389 EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,260.15	571.09
For Mounting Pan, Add	178.63	
26 27 16 00-0390 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,394.57	571.09
For Mounting Pan, Add	163.99	
26 27 16 00-0391 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,907.61	623.00
For Mounting Pan, Add	245.82	
26 27 16 00-0392 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	6,563.48	571.09
For Mounting Pan, Add	266.60	
26 27 16 00-0393 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	8,687.78	623.00
For Mounting Pan, Add	389.85	
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	8,630.71	623.00
For Mounting Pan, Add	519.73	
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	13,321.84	830.67
For Mounting Pan, Add	649.56	
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	10,163.37	674.92
For Mounting Pan, Add	603.98	
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	18,308.70	1,038.33
For Mounting Pan, Add	826.84	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0398	10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)			
26 27 16 00-0399	EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	9,337.46	674.92	
	For Mounting Pan, Add	275.91		
26 27 16 00-0400	EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,596.34	623.00	
	For Mounting Pan, Add	245.82		
26 27 16 00-0401	EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	9,363.19	674.92	
	For Mounting Pan, Add	389.85		
26 27 16 00-0402	EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	11,756.15	726.83	
	For Mounting Pan, Add	649.56		
26 27 16 00-0403	EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	10,450.11	726.83	
	For Mounting Pan, Add	603.98		
26 27 16 00-0404	EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	19,892.81	1,038.33	
	For Mounting Pan, Add	826.84		
26 27 16 00-0405	12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)			
26 27 16 00-0406	EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,929.01	571.09	
	For Mounting Pan, Add	183.47		
26 27 16 00-0407	Breaker Enclosures (26 27 16)			
26 27 16 00-0408	15 To 100 Amperes, F-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0409	EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	398.82	110.75	
26 27 16 00-0410	EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	690.59	110.75	
26 27 16 00-0411	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,647.06	152.28	
26 27 16 00-0412	EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure	2,214.18	166.13	
26 27 16 00-0413	EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,635.34	166.13	
26 27 16 00-0414	EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	618.87	152.28	
26 27 16 00-0415	15 To 250 Amperes, H Or J-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0416	EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	625.42	152.28	
26 27 16 00-0417	EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	1,092.64	152.28	
26 27 16 00-0418	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	3,582.02	193.83	
26 27 16 00-0419	EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	933.62	193.83	
26 27 16 00-0420	125 To 400 Amperes, L-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0421	EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,009.72	304.58	
26 27 16 00-0422	EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	2,161.88	304.58	
26 27 16 00-0423	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	6,097.46	387.64	
26 27 16 00-0424	EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,622.31	387.64	
26 27 16 00-0425	300 To 800 Amperes, M-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0426	EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	1,970.75	581.47	
26 27 16 00-0427	EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	3,188.47	581.47	
26 27 16 00-0428	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	10,993.84	747.60	
26 27 16 00-0429	EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	6,108.89	747.60	
26 27 16 00-0430	250 To 1,200 Amperes, P-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0431	EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	2,345.07	581.47	
26 27 16 00-0432	EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	3,780.44	581.47	
26 27 16 00-0433	EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	7,591.17	747.60	
26 27 23	Indoor Service Poles (26 27)			
26 27 23 00-0001	Communication And Power Poles (26 27 23)			
	Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.			
26 27 23 00-0002	Steel Communication And Power Poles (26 27 23 00-0001)			
26 27 23 00-0003	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)			
26 27 23 00-0004	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)			
26 27 23 00-0005	EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole	297.85	61.35	
26 27 23 00-0006	EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	320.61	61.35	
26 27 23 00-0007	EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole	346.92	61.35	



	Electrical	26	
	Low-Voltage Electrical Distribution	26 20	26
	Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0008		Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003) Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	61.03	12.65
26 27 23 00-0010	EA	Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	53.85	12.65
26 27 23 00-0011	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	60.04	12.65
26 27 23 00-0012	EA	Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	46.31	12.65
26 27 23 00-0013	EA	Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	39.39	12.65
26 27 23 00-0014		2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0015		2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
26 27 23 00-0016	EA	2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	375.88	61.35
26 27 23 00-0017	EA	2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	424.79	61.35
26 27 23 00-0018	EA	2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	451.18	61.35
26 27 23 00-0019		Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020	EA	Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	43.26	12.65
26 27 23 00-0021	EA	Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	39.60	12.65
26 27 23 00-0022	EA	Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices	42.22	12.65
26 27 23 00-0023		3" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0024		3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
26 27 23 00-0025	EA	3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	479.51	61.35
26 27 23 00-0026	EA	3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	538.38	61.35
26 27 23 00-0027	EA	3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	577.18	61.35
26 27 23 00-0028		Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029	EA	Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	43.26	12.65
26 27 23 00-0030	EA	Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	39.60	12.65
26 27 23 00-0031	EA	Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	42.22	12.65
26 27 23 00-0032		Aluminum Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0033		2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0034		2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0035	EA	2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	391.19	61.35
26 27 23 00-0036	EA	2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	432.35	61.35
26 27 23 00-0037	EA	2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	478.49	61.35
26 27 23 00-0038		Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0039	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	62.44	12.65
26 27 23 00-0040	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	63.60	12.65
26 27 23 00-0041	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	67.46	12.65
26 27 23 00-0042	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	48.48	12.65
26 27 23 00-0043	EA	Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting.....	39.39	12.65
26 27 23 00-0044		2-1/4" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0045	EA	2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	378.34	61.35
26 27 23 00-0046	EA	2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	420.55	61.35
26 27 23 00-0047	EA	2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	470.28	61.35
26 27 23 00-0048		5" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0049	EA	5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	754.32	61.35
26 27 23 00-0050	EA	5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	857.84	61.35
26 27 23 00-0051	EA	5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	973.79	61.35
26 27 23 00-0052		2" Diameter, Round Aluminum Communication And Power Pole (26 27 23 00-0032)		
26 27 23 00-0053	EA	2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	425.52	61.35
26 27 23 00-0054	EA	2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole	404.66	61.35
26 27 23 00-0055	EA	2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole	508.78	61.35

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 27 26 Wiring Devices (26 27)

Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.

26 27 26 00-0001 Receptacles (26 27 26)**26 27 26 00-0002 General Use Receptacles (26 27 26 00-0001)****26 27 26 00-0003 Receptacle Assemblies (26 27 26 00-0002)**

Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.

26 27 26 00-0004	EA	15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly	113.12	49.15
26 27 26 00-0005	EA	20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly	121.13	52.61
26 27 26 00-0006	EA	15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly	145.26	62.99
26 27 26 00-0007	EA	20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly	161.28	69.92
26 27 26 00-0008	EA	15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly	127.84	49.15
26 27 26 00-0009	EA	20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly	136.63	52.61

26 27 26 00-0010 Receptacle Components (26 27 26 00-0003)

26 27 26 00-0011	EA	15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle	31.71	13.85
26 27 26 00-0012	EA	15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle	30.85	13.85
26 27 26 00-0013	EA	15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle	35.91	13.85
26 27 26 00-0014	EA	15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle	38.84	13.85
26 27 26 00-0015	EA	15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle	49.49	17.30
26 27 26 00-0016	EA	15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle	59.10	17.30
26 27 26 00-0017	EA	20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle	32.83	13.85
26 27 26 00-0018	EA	20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle	31.93	13.85
26 27 26 00-0019	EA	20 Amperes, 120/277 Volt, Single Receptacle	45.13	13.85
26 27 26 00-0020	EA	20 Amperes, 120/277 Volt, Duplex Receptacle	37.92	13.85
26 27 26 00-0021	EA	20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle	49.49	17.30
26 27 26 00-0022	EA	20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle	59.10	17.30
26 27 26 00-0023	EA	20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle	89.95	17.30
26 27 26 00-0024	EA	20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle	89.95	17.30
26 27 26 00-0025	EA	25 Amperes, 120/277 Volt, Duplex Receptacle	77.07	20.77

26 27 26 00-0026 Specialty Receptacles (26 27 26 00-0001)**26 27 26 00-0027 Specialty Receptacles (26 27 26 00-0026)**

26 27 26 00-0028	EA	30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle	70.28	24.23
26 27 26 00-0029	EA	30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle	70.28	24.23
26 27 26 00-0030	EA	30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles	82.22	24.23
26 27 26 00-0031	EA	30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle	103.79	24.23
26 27 26 00-0032	EA	30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle	110.72	27.69
26 27 26 00-0033	EA	50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle	102.72	27.69
26 27 26 00-0034	EA	50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle	100.47	27.69
26 27 26 00-0035	EA	50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle	88.85	27.69
26 27 26 00-0036	EA	50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle	98.62	27.69
26 27 26 00-0037	EA	50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle	123.01	27.69
26 27 26 00-0038	EA	50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle	129.93	31.15
26 27 26 00-0039	EA	60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle	143.00	34.61
26 27 26 00-0040	EA	60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle	156.84	41.53
26 27 26 00-0041	EA	100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete	1,471.81	325.34
26 27 26 00-0042	EA	400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete	3,516.02	398.03
26 27 26 00-0043	EA	30 Amperes, 230 Volt, Dryer Receptacle	83.60	27.69
26 27 26 00-0044	EA	60 Amperes, 230 Volt, Range Receptacle	122.60	41.53
26 27 26 00-0045	EA	15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle	76.63	17.30
26 27 26 00-0046	EA	Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete	1,561.86	421.61

26 27 26 00-0047 Isolated Ground Receptacles (26 27 26 00-0026)

26 27 26 00-0048	EA	15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex	84.17	13.85
Note: 2 Pole, 3 wire.				
26 27 26 00-0049	EA	20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex	65.68	17.30
26 27 26 00-0050	EA	20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex	65.46	17.30
26 27 26 00-0051	EA	30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex	91.78	27.69
26 27 26 00-0052	EA	Locking 15 Amperes, 250 Volt Isolated Ground Receptacles	73.08	17.30
26 27 26 00-0053	EA	Locking 15 Amperes, 277 Volt Isolated Ground Receptacles	67.32	17.30
26 27 26 00-0054	EA	Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles	92.26	20.77
26 27 26 00-0055	EA	Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles	74.32	20.77
26 27 26 00-0056	EA	Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles	94.39	20.77
26 27 26 00-0057	EA	Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles	113.94	20.77
26 27 26 00-0058	EA	Locking 30 Amperes, 277 Volt Isolated Ground Receptacles	114.00	27.69

26 27 26 00-0059 Explosion Proof Receptacles (26 27 26 00-0026)

26 27 26 00-0060	EA	1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	793.29	34.61
26 27 26 00-0061	EA	3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	733.98	38.07
26 27 26 00-0062	EA	3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,223.22	69.22
26 27 26 00-0063	EA	3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,531.96	69.22
26 27 26 00-0064	EA	1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,946.52	103.83



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Distribution Equipment	26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,857.14	103.83
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	42.11	17.30
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	61.27	20.77
26 27 26 00-0069 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0070 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	74.21	17.30
26 27 26 00-0071 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	81.34	17.30
26 27 26 00-0072 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0073 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle	55.84	17.30
26 27 26 00-0074 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle	66.86	17.30
26 27 26 00-0075 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle	62.64	20.77
26 27 26 00-0076 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle	62.15	20.77
26 27 26 00-0077 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle	71.84	20.77
26 27 26 00-0078 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle	84.37	20.77
26 27 26 00-0079 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	82.99	20.77
26 27 26 00-0080 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	73.83	20.77
26 27 26 00-0081 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle	86.02	27.69
26 27 26 00-0082 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking Receptacle	87.19	27.69
26 27 26 00-0083 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle	121.92	27.69
26 27 26 00-0084 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0085 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	276.43	69.22
26 27 26 00-0086 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	275.86	69.22
26 27 26 00-0087 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	286.62	69.22
26 27 26 00-0088 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	346.09	76.15
26 27 26 00-0089 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	346.99	76.15
26 27 26 00-0090 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	344.91	76.15
26 27 26 00-0091 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	410.78	85.14
26 27 26 00-0092 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	393.28	85.14
26 27 26 00-0093 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	420.68	85.14
26 27 26 00-0094 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	428.13	93.45
26 27 26 00-0095 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W)	427.79	93.45
26 27 26 00-0096 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W)	430.27	93.45
26 27 26 00-0097 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W)	593.37	110.75
26 27 26 00-0098 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W)	572.18	110.75
26 27 26 00-0099 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W)	585.97	110.75
26 27 26 00-0100 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	652.50	123.22
26 27 26 00-0101 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	652.91	123.22
26 27 26 00-0102 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	653.32	123.22
26 27 26 00-0103 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	726.82	138.45
26 27 26 00-0104 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	753.99	138.45
26 27 26 00-0105 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	812.62	152.28
26 27 26 00-0106 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	810.58	152.28
26 27 26 00-0107 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	814.42	152.28
26 27 26 00-0108 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0109 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	79.01	13.85
26 27 26 00-0110 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	155.88	17.30
26 27 26 00-0111 Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0112 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	32.41	13.85
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0113 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	34.85	13.85
Note: Pass & Seymour TR20.		
26 27 26 00-0114 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	41.82	13.85
Note: Pass & Seymour TR5251.		
26 27 26 00-0115 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	45.10	13.85
Note: Pass & Seymour TR5351.		
26 27 26 00-0116 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle	64.76	13.85
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0117 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	69.45	13.85
Note: Pass & Seymour 1595-TRS.		
26 27 26 00-0118 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	73.92	13.85
Note: Pass & Seymour 2095-TRS.		
26 27 26 00-0119 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0120 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle	66.51	13.85
26 27 26 00-0121 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle	71.36	13.85

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0122	Switches	(26 27 26)		
26 27 26 00-0123	Switches	(26 27 26 00-0122)		
26 27 26 00-0124	Switch Assemblies	(26 27 26 00-0123)		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.				
26 27 26 00-0125	EA	1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	116.48	48.45
26 27 26 00-0126	EA	1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	125.31	52.61
26 27 26 00-0127	EA	2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	155.42	63.34
26 27 26 00-0128	EA	2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	170.33	70.26
26 27 26 00-0129	EA	3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	266.62	108.68
26 27 26 00-0130	EA	3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	288.98	119.06
26 27 26 00-0131	EA	4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	305.29	122.87
26 27 26 00-0132	EA	4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	335.11	136.71
26 27 26 00-0133	Switch Components	(26 27 26 00-0123)		
26 27 26 00-0134	EA	15 Amperes, 120/277 Volt, SPST Switch.....	35.58	13.85
26 27 26 00-0135	EA	15 Amperes, 120/277 Volt, 3-Way Switch.....	44.98	17.30
26 27 26 00-0136	EA	15 Amperes, 120/277 Volt, 4-Way Switch.....	85.47	27.69
26 27 26 00-0137	EA	15 Amperes, 120/277 Volt, DPST Switch	40.17	13.85
26 27 26 00-0138	EA	15 Amperes, 120/277 Volt, Thermal Switch.....	73.84	17.30
26 27 26 00-0139	EA	20 Amperes, 120/277 Volt, SPST Switch.....	43.03	17.30
26 27 26 00-0140	EA	20 Amperes, 120/277 Volt, 3-Way Switch.....	53.05	20.77
26 27 26 00-0141	EA	20 Amperes, 120/277 Volt, 4-Way Switch.....	112.77	27.69
26 27 26 00-0142	EA	20 Amperes, 120/277 Volt, DPST Switch	50.39	17.30
26 27 26 00-0143	EA	20 Amperes, 120/277 Volt, DPDT Switch	53.65	17.30
26 27 26 00-0144	EA	15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	75.34	17.33
26 27 26 00-0145	EA	15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	93.85	17.33
26 27 26 00-0146	EA	Momentary Contact Switch With Separate Neon Pilot.....	73.51	20.80
Note: Neon Pilot is 125 V, 1 / 125W.				
26 27 26 00-0147	EA	20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off.....	64.80	24.23
Note: Or 250 VAC 10 Amp, double throw BAT handle.				
26 27 26 00-0148	EA	20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch.....	79.19	27.69
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.				
26 27 26 00-0149	EA	20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch.....	112.84	27.69
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.				
26 27 26 00-0150	EA	30 Amperes, 120/277 Volt, Single Pole, Local Switch	78.26	27.73
26 27 26 00-0151	EA	30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	94.90	27.73
26 27 26 00-0152	EA	30 Amperes, 120/277 Volt, Three-Way Local Switch.....	100.61	34.66
26 27 26 00-0153	EA	30 Amperes, 120/277 Volt, Four-Way Local Switch.....	137.97	38.13
26 27 26 00-0154	EA	15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	72.68	22.67
26 27 26 00-0155	EA	15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	98.04	22.67
Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.				
26 27 26 00-0156	EA	15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch.....	87.11	22.67
26 27 26 00-0157	EA	15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch.....	83.35	22.67
26 27 26 00-0158	EA	6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch	85.47	11.23
26 27 26 00-0159	EA	6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	90.57	11.23
26 27 26 00-0160	EA	15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	101.27	43.26
26 27 26 00-0161	EA	Three Position, Center Off, Key Operated, Momentary Contact Switch.....	119.78	43.26
Note: 15A, 120/277 V, Single Pole				
26 27 26 00-0162	EA	Single Pole, Slide Dimmer (Leviton IP710-LFZ)	137.06	13.87
26 27 26 00-0163	EA	8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH)	96.11	13.87
26 27 26 00-0164	EA	120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH)	226.93	13.85
26 27 26 00-0165	EA	120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	53.47	13.85
26 27 26 00-0166	EA	120VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	102.43	13.87
26 27 26 00-0167	EA	1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	117.57	13.87
26 27 26 00-0168	EA	2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	150.59	13.87
26 27 26 00-0169	EA	Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	140.91	13.87
26 27 26 00-0170	Specialty Switches	(26 27 26 00-0122)		
26 27 26 00-0171	Dimmers With SPST Switch	(26 27 26 00-0170)		
26 27 26 00-0172	EA	600 Watt Dimmers With SPST Switch	79.35	31.15
26 27 26 00-0173	EA	1,000 Watt Dimmers With SPST Switch	132.58	31.15
26 27 26 00-0174	EA	1,500 Watt Dimmers With SPST Switch	237.74	50.12
26 27 26 00-0175	EA	2,000 Watt Dimmers With SPST Switch	305.66	50.12
26 27 26 00-0176	EA	600 Watt Fluorescent Dimmer Switch.....	171.77	36.96
26 27 26 00-0177	EA	1,000 Watt Fluorescent Dimmer Switch	230.21	36.96
26 27 26 00-0178	EA	1,500 Watt Fluorescent Dimmer Switch	414.74	55.79
26 27 26 00-0179	EA	Remote Speed Switch For Paddle Fan	129.81	46.10
26 27 26 00-0180	EA	600 Watt Combination Remote Speed Switch/Incandescent Dimmer	212.84	68.80
26 27 26 00-0181	Time Switches	(26 27 26 00-0170)		
26 27 26 00-0182	EA	40 Amperes, 125 Volt, SPST, Standard Time Switch	144.55	41.53
26 27 26 00-0183	EA	40 Amperes, 277 Volt, SPST, Standard Time Switch	147.62	41.53
26 27 26 00-0184	EA	40 Amperes, 125 Volt, DPST, Standard Time Switch	144.55	41.53
26 27 26 00-0185	EA	40 Amperes, 277 Volt, DPST, Standard Time Switch	147.62	41.53



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Distribution Equipment			26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0186 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch.....	165.04	41.53
26 27 26 00-0187 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch.....	165.04	41.53
26 27 26 00-0188 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch.....	285.96	41.53
26 27 26 00-0189 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch.....	285.96	41.53
26 27 26 00-0190 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch.....	247.16	41.53
26 27 26 00-0191 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch.....	270.86	41.53
26 27 26 00-0192 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch.....	270.86	41.53
26 27 26 00-0193 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch.....	326.85	41.53
26 27 26 00-0194 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch.....	336.28	41.53
26 27 26 00-0195 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch.....	144.55	41.53
26 27 26 00-0196 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch.....	147.62	41.53
26 27 26 00-0197 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch.....	144.55	41.53
26 27 26 00-0198 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch.....	147.62	41.53
26 27 26 00-0199 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch.....	165.04	41.53
26 27 26 00-0200 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch.....	165.04	41.53
26 27 26 00-0201 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch.....	285.96	41.53
26 27 26 00-0202 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch.....	285.96	41.53
26 27 26 00-0203 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	326.85	41.53
26 27 26 00-0204 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	336.28	41.53
26 27 26 00-0205 Low Voltage Switching (26 27 26 00-0170)		
26 27 26 00-0206 EA 36 Pin Male Or Female Connector.....	226.47	13.85
26 27 26 00-0207 Other Switches (26 27 26 00-0170)		
26 27 26 00-0208 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture.....	45.34	20.77
26 27 26 00-0209 EA SPST Locking Switch For Concealed Devices.....	137.16	55.38
26 27 26 00-0210 EA 3-Way Locking Switch For Concealed Devices.....	138.83	55.38
26 27 26 00-0211 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard.....	150.41	51.78
26 27 26 00-0212 EA 15 Amperes Momentary Contact Switch.....	143.70	51.78
26 27 26 00-0213 EA 20 Amperes Momentary Contact Switch.....	150.77	51.78
26 27 26 00-0214 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	144.48	62.39
26 27 26 00-0215 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	146.46	62.39
26 27 26 00-0216 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	180.10	76.26
26 27 26 00-0217 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch.....	163.77	69.32
26 27 26 00-0218 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch.....	164.27	69.32
26 27 26 00-0219 Plates And Covers (26 27 26)		
26 27 26 00-0220 Wall Plates (26 27 26 00-0219)		
26 27 26 00-0221 Nylon Wall Plates (26 27 26 00-0220)		
26 27 26 00-0222 EA 1 Gang Nylon Switch Wall Plates.....	1.98	0.69
26 27 26 00-0223 EA 2 Gang Nylon Switch Wall Plates.....	3.29	1.04
26 27 26 00-0224 EA 3 Gang Nylon Switch Wall Plates.....	4.63	1.38
26 27 26 00-0225 EA 4 Gang Nylon Switch Wall Plate.....	6.54	1.74
26 27 26 00-0226 EA 1 Gang Duplex Nylon Wall Plate.....	2.00	0.69
26 27 26 00-0227 EA 2 Gang Duplex Nylon Wall Plate.....	3.36	1.04
26 27 26 00-0228 Plastic Wall Plates (26 27 26 00-0220)		
26 27 26 00-0229 EA 1 Gang Plastic Switch Wall Plates.....	1.86	0.69
26 27 26 00-0230 EA 2 Gang Plastic Switch Wall Plates.....	3.05	1.04
26 27 26 00-0231 EA 3 Gang Plastic Switch Wall Plates.....	4.25	1.38
26 27 26 00-0232 EA 4 Gang Plastic Switch Wall Plates.....	6.54	1.74
26 27 26 00-0233 EA 1 Gang Duplex Plastic Wall Plate.....	1.86	0.69
26 27 26 00-0234 EA 2 Gang Duplex Plastic Wall Plate.....	3.06	1.04
26 27 26 00-0235 Brass Wall Plates (26 27 26 00-0220)		
26 27 26 00-0236 EA 1 Gang, 0.04" Brass Switch Wall Plates.....	17.66	3.12
26 27 26 00-0237 EA 2 Gang, 0.04" Brass Switch Wall Plates.....	31.99	3.60
26 27 26 00-0238 EA 3 Gang, 0.04" Brass Switch Wall Plates.....	46.18	4.02
26 27 26 00-0239 EA 4 Gang, 0.04" Brass Switch Wall Plates.....	70.93	4.36
26 27 26 00-0240 EA 5 Gang, 0.04" Brass Switch Wall Plates.....	86.05	4.65
26 27 26 00-0241 EA 6 Gang, 0.04" Brass Switch Wall Plates.....	99.34	4.86
26 27 26 00-0242 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	17.66	3.12
26 27 26 00-0243 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	37.19	3.60
26 27 26 00-0244 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	53.03	4.02
26 27 26 00-0245 Stainless Steel Wall Plates (26 27 26 00-0220)		
26 27 26 00-0246 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	10.15	3.12
26 27 26 00-0247 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	15.59	3.60
26 27 26 00-0248 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	21.28	4.02
26 27 26 00-0249 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	30.48	4.36
26 27 26 00-0250 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	35.65	4.65
26 27 26 00-0251 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	42.74	4.86

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0252 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	10.98	3.12
26 27 26 00-0253 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	17.53	3.60
26 27 26 00-0254 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	27.72	4.02
26 27 26 00-0255 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	33.27	4.36
26 27 26 00-0256 Chrome Wall Plates (26 27 26 00-0220)		
26 27 26 00-0257 EA 1 Gang, 0.040" Chrome Switch Wall Plate.....	33.81	3.12
26 27 26 00-0258 EA 2 Gang 0.040" Chrome Switch Wall Plate.....	62.26	3.60
26 27 26 00-0259 EA 3 Gang 0.040" Chrome Switch Wall Plate.....	90.63	4.02
26 27 26 00-0260 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate.....	33.79	3.12
26 27 26 00-0261 Weatherproof Covers (26 27 26 00-0219)		
26 27 26 00-0262 Stamped Metallic Weatherproof Covers (26 27 26 00-0261)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0263 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	10.34	0.69
26 27 26 00-0264 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	11.17	0.69
26 27 26 00-0265 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	11.17	0.69
26 27 26 00-0266 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	11.17	0.69
26 27 26 00-0267 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	13.81	1.04
26 27 26 00-0268 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	15.60	1.04
26 27 26 00-0269 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	15.78	1.04
26 27 26 00-0270 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	15.78	1.04
26 27 26 00-0271 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	21.24	1.04
26 27 26 00-0272 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	20.35	1.38
26 27 26 00-0273 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....	22.18	1.38
26 27 26 00-0274 Cast Metallic Weatherproof Covers (26 27 26 00-0261)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0275 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	12.57	0.69
26 27 26 00-0276 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	39.27	0.69
26 27 26 00-0277 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	43.99	0.69
26 27 26 00-0278 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	12.48	0.69
26 27 26 00-0279 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	33.35	0.69
26 27 26 00-0280 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	55.22	0.69
26 27 26 00-0281 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	70.19	0.69
26 27 26 00-0282 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC)	15.78	1.04
26 27 26 00-0283 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	110.86	1.04
26 27 26 00-0284 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	26.21	1.38
26 27 26 00-0285 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	106.13	1.38
26 27 26 00-0286 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0261)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0287 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	5.33	0.69
26 27 26 00-0288 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	6.78	0.69
26 27 26 00-0289 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	9.14	1.04
26 27 26 00-0290 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	9.90	1.04
26 27 26 00-0291 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042).....	9.90	1.04
26 27 26 00-0292 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043).....	10.98	1.04
26 27 26 00-0293 Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0261)		
Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0294 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	52.42	0.69
26 27 26 00-0295 Polycarbonate Weatherproof Covers (26 27 26 00-0261)		
Note: Includes neoprene gasket.		
26 27 26 00-0296 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	10.74	0.69
26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	10.74	0.69
26 27 26 00-0298 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.74	0.69
26 27 26 00-0299 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	13.34	1.04
26 27 26 00-0300 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	13.34	1.04
26 27 26 00-0301 High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0261)		
Note: Includes neoprene gasket.		
26 27 26 00-0302 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	74.74	0.69
26 27 26 00-0303 Non Metallic (PVC) Weatherproof Covers (26 27 26 00-0261)		
Note: Includes neoprene gasket.		
26 27 26 00-0304 EA Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover	12.86	0.69



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Distribution Equipment	26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0305 EA Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover	13.89	1.04
26 27 26 00-0306 EA Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	12.90	0.69
26 27 26 00-0307 EA Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	28.20	0.69
26 27 26 00-0308 EA Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	32.66	0.69
26 27 26 00-0309 EA 20 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	26.51	0.69
26 27 26 00-0310 EA 30 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	19.80	0.69
26 27 26 00-0311 EA 50 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	23.14	0.69
26 27 26 00-0312 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	20.71	0.69
26 27 26 00-0313 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover	29.84	1.04
26 27 26 00-0314 Removal And Reinstallation Of Wiring Devices (26 27 26)		
Note: Includes storage and cleaning.		
26 27 26 00-0315 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device	91.09	
26 27 26 00-0316 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate	11.53	
26 28 Low-Voltage Circuit Protective Devices (26 28)		
26 28 13 Fuses (26 28)		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		
26 28 13 00-0002 EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	27.69	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0003 EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	27.25	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0004 EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	26.65	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0005 EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	26.56	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0006 EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	27.12	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0007 EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	26.03	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0008 EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	25.77	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0009 EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	23.63	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0010 EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	23.31	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0011 EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	23.93	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0012 EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	23.50	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)		
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0015 EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	38.19	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0016 EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	36.26	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0017 EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	37.61	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0018 EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	37.43	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0019 EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	36.08	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0020 EA 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	35.28	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0021 EA 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	33.14	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0022 EA 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	32.98	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0023 EA 25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	33.15	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0024 EA 30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	32.93	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0025 EA 35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	42.03	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0026 EA 40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	41.39	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0027 EA 45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	41.87	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0028 EA 50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	41.47	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0029 EA 60 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	40.89	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0030 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses (26 28 13 00-0013)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0031 EA 70 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	70.59	12.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 28 13 00-0032 EA 80 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	70.26	12.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 28 13 00-0033 EA 90 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	76.80	12.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 28 13 00-0034 EA 100 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	69.75	12.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 28 13 00-0035 EA 110 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	177.28	12.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 28 13 00-0036 EA 125 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	132.76	12.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 28 13 00-0037 EA 150 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	124.04	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 28 13 00-0038 EA 200 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	129.98	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 28 13 00-0039 EA 250 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	232.42	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 28 13 00-0040 EA 300 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	251.99	16.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.21	
26 28 13 00-0041 EA 350 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	269.73	16.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.21	
26 28 13 00-0042 EA 400 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	211.52	16.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.21	
26 28 13 00-0043 EA 450 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	451.64	16.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.21	
26 28 13 00-0044 EA 500 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	431.78	20.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 28 13 00-0045 EA 600 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	341.03	20.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 28 13 00-0046 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26		
28 13 00-0013)		
26 28 13 00-0047 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	54.10	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0048 EA 2 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.03	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0049 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.45	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0050 EA 4 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	49.30	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0051 EA 5 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.56	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0052 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.83	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0053 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	46.01	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0054 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.74	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0055 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.36	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0056 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.91	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0057 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.60	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0058 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.73	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0059 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.68	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0060 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.17	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0061 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.61	9.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses (26 28		
13 00-0013)		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	111.77	12.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.31	
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	115.37	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	114.81	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	115.25	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	200.74	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.58	13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	204.01	16.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.21	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.54	16.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.21	



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Circuit Protective Devices			26 28

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0071	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	373.91	16.89
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.21	
26 28 13 00-0072	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	379.58	20.63
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 28 13 00-0073	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	425.59	20.63
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 28 13 00-0074	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	387.40	20.63
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 28 13 00-0075	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	680.61	20.63
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 28 13 00-0076	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	612.46	24.92
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.61	
26 28 13 00-0077	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	537.15	24.92
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.61	

26 50 Lighting⁽²⁶⁾

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 51 Interior Lighting^(26 50)

See CSI section 26 01 50 52-0062 for additional emergency light ballast.

26 51 33 Interior Lighting Accessories^(26 51)

26 51 33 00-0001 Lighting Accessories^(26 51 33)

26 51 33 00-0002 Photocells^(26 51 33 00-0001)

26 51 33 00-0003	EA	Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	97.56
26 51 33 00-0004	EA	Wired Photocell For Lighting Fixtures (Intermac® K4021C).....	239.44

26 51 33 00-0005 Modular Flexible Wiring Systems^(26 51 33 00-0001)

26 51 33 00-0006	EA	10' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-10).....	91.01	7.47
26 51 33 00-0007	EA	15' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-15).....	104.55	7.47
26 51 33 00-0008	EA	20' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-20).....	125.36	7.47
26 51 33 00-0009	EA	15' Length, 2-Circuit, Modular Lighting Cable (Day-Brite LC-27-2E-15).....	104.55	7.47
26 51 33 00-0010	EA	3 Out, 3-Circuit, Modular Lighting Interface (Day-Brite LI-27-3E).....	94.07	7.47
26 51 33 00-0011	EA	13' Length, 2-Circuit, Modular Reddy-Connect Cable (Day-Brite RC-27-2D-13).....	135.97	7.47
26 51 33 00-0012	EA	3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-7M).....	76.50	7.47
26 51 33 00-0013	EA	3" Length, 2-Circuit, Modular Lighting Tap (Day-Brite LT-27-2E).....	85.77	7.47
26 51 33 00-0014	EA	7' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-07).....	107.38	7.47
26 51 33 00-0015	EA	7' Length, 1-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-ML-07).....	107.38	7.47
26 51 33 00-0016	EA	7' Length, 2-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-2C-07).....	109.12	7.47
26 51 33 00-0017	EA	7' Length, 1st 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3A-07).....	108.48	7.47
26 51 33 00-0018	EA	7' Length, 2nd 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3B-07).....	108.48	7.47
26 51 33 00-0019	EA	15' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-15).....	124.07	7.47
26 51 33 00-0020	EA	3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-4D).....	59.20	7.47
26 51 33 00-0021	EA	3" Length, 1-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-1E).....	55.56	7.47
26 51 33 00-0022	EA	3" Length, 2-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-2E).....	56.83	7.47
26 51 33 00-0023	EA	3" Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E).....	70.32	7.47
26 51 33 00-0024	EA	15' Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E-15).....	91.01	7.47
26 51 33 00-0025	EA	15' Length, 1-Circuit, Modular Lighting Cable (Day-Brite LC-27-1E-15).....	93.21	7.47
26 51 33 00-0026	EA	Modular Lighting Junction Or Circuit Splitter (Day-Brite LJ-27-3E).....	73.67	7.47
26 51 33 00-0027	EA	3" Length, 1-Circuit, Modular Power Distribution Cable (Day-Brite PD-12-1E).....	55.56	7.47
26 51 33 00-0028	EA	Removal And Reinstallation Of Modular Wiring Complete Including Storage And Cleaning	62.29	

26 51 33 00-0029 Removal And Reinstallation Of Light Fixtures^(26 51 33)

Note: Includes disconnection of wire, on-site storage, general cleaning, installation and electrical wire hook-up.

26 51 33 00-0030	EA	Removal And Reinstallation Of Lay-In Fluorescent Light Fixture.....	147.37
26 51 33 00-0031	EA	Removal And Reinstallation Of Surface Mounted Or Pendant Light Fixture.....	168.41

26 55 Special Purpose Lighting^(26 50)

26 55 16 Walkway Lighting^(26 55)

26 55 16 00-0001 Incandescent Walkway^(26 55 16)

26 55 16 00-0002	EA	Post Top 300 Watt Incandescent Walkway Fixture.....	427.06	128.75

26 55 16 00-0003 Metal Halide Walkway^(26 55 16)

26 55 16 00-0004	EA	Post Top 100 Watt Metal Halide Walkway Fixture.....	658.19	202.40
26 55 16 00-0005	EA	Post Top 150-175 Watt Metal Halide Walkway Fixture.....	694.97	209.75
26 55 16 00-0006	EA	Post Top 250 Watt Metal Halide Walkway Fixture.....	745.59	217.77
26 55 16 00-0007	EA	Post Top 400 Watt Metal Halide Walkway Fixture.....	799.50	235.36
26 55 16 00-0008	EA	Round Luminaries 100 Watt Metal Halide Walkway Fixture.....	716.05	217.77
26 55 16 00-0009	EA	Round Luminaries 150-175 Watt Metal Halide Walkway Fixture.....	715.03	202.40
26 55 16 00-0010	EA	Round Luminaries 250 Watt Metal Halide Walkway Fixture.....	730.44	209.75
26 55 16 00-0011	EA	Spherical 100 Watt Metal Halide Walkway Fixture.....	569.12	144.26
26 55 16 00-0012	EA	Spherical 150-175 Watt Metal Halide Walkway Fixture.....	598.66	144.26

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture.....	628.21	144.26
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture.....	709.09	162.39
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	539.95	129.58
26 55 16 00-0016 High Pressure Sodium Walkway (26 55 16)		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture	602.76	202.40
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	634.72	209.75
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture	677.73	217.77
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture	727.62	235.36
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture.....	654.65	217.77
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	647.17	202.40
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture.....	662.43	209.75
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture.....	507.72	144.26
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture.....	530.80	144.26
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture.....	553.88	144.26
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture.....	625.07	162.39
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	424.48	129.58
26 55 16 00-0029 Walkway, Adjustable (26 55 16)		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture.....	617.48	184.82
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture.....	632.05	184.82
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture.....	1,068.84	276.89
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture	510.13	138.45
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture	529.57	138.45
26 55 16 00-0035 LED Walkway (26 55 16)		
26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 55 16 00-0035)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	806.32	106.26
For Multi-Level Drive Currents, Add	199.30	
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	830.52	106.26
For Multi-Level Drive Currents, Add	199.30	
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	873.23	106.26
For Multi-Level Drive Currents, Add	199.30	
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	905.97	106.26
For Multi-Level Drive Currents, Add	199.30	
26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	1,049.10	136.61
For Multi-Level Drive Currents, Add	199.30	
26 55 16 00-0042 Wall Mounted Walkway Lighting (26 55 16 00-0035)		
26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492).....	3,726.26	
Note: Type Fixture 17 as Post		
26 55 16 00-0044 Pole Mounted Walkway Lighting (26 55 16 00-0035)		
26 55 16 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	3,454.37	
26 55 16 00-0046 EA 12" Tapered and Fluted Post (Herwig BRA Series, BRAJ-12).....	3,393.54	
Note: Washers and nuts included		
26 56 Exterior Lighting (26 50)		
26 56 13 Lighting Poles and Standards (26 56)		
26 56 13 00-0001 Poles And Standards (26 56 13)		
26 56 13 00-0002 Roadway Light Poles (26 56 13 00-0001)		
Note: Excludes lighting fixtures.		
26 56 13 00-0003 Steel Roadway Light Poles (26 56 13 00-0002)		
Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004 Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)		
26 56 13 00-0005 Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)		
26 56 13 00-0006 Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)		
26 56 13 00-0007 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,682.27	453.94
For Galvanized Finish, Add	53.23	
For >10 To 20, Deduct	-67.06	
For >20 To 40, Deduct	-134.11	
For >40, Deduct	-223.87	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0008	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,686.66	453.94
			For Galvanized Finish, Add	53.36	
			For >10 To 20, Deduct	-67.17	
			For >20 To 40, Deduct	-134.33	
			For >40, Deduct	-224.20	
26 56 13 00-0009	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,015.28	605.25
			For Galvanized Finish, Add	54.14	
			For >10 To 20, Deduct	-75.38	
			For >20 To 40, Deduct	-150.76	
			For >40, Deduct	-256.41	
26 56 13 00-0010	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,068.01	605.25
			For Galvanized Finish, Add	55.73	
			For >10 To 20, Deduct	-76.70	
			For >20 To 40, Deduct	-153.40	
			For >40, Deduct	-260.36	
26 56 13 00-0011	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,120.75	605.25
			For Galvanized Finish, Add	57.31	
			For >10 To 20, Deduct	-78.02	
			For >20 To 40, Deduct	-156.04	
			For >40, Deduct	-264.32	
26 56 13 00-0012	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,283.16	680.90
			For Galvanized Finish, Add	57.64	
			For >10 To 20, Deduct	-82.08	
			For >20 To 40, Deduct	-164.16	
			For >40, Deduct	-280.28	
26 56 13 00-0013	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,308.17	680.90
			For Galvanized Finish, Add	58.39	
			For >10 To 20, Deduct	-82.70	
			For >20 To 40, Deduct	-165.41	
			For >40, Deduct	-282.16	
26 56 13 00-0014	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,312.93	680.90
			For Galvanized Finish, Add	58.53	
			For >10 To 20, Deduct	-82.82	
			For >20 To 40, Deduct	-165.65	
			For >40, Deduct	-282.51	
26 56 13 00-0015	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,477.35	718.73
			For Galvanized Finish, Add	61.20	
			For >10 To 20, Deduct	-86.93	
			For >20 To 40, Deduct	-173.87	
			For >40, Deduct	-296.74	
26 56 13 00-0016	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,496.24	718.73
			For Galvanized Finish, Add	61.76	
			For >10 To 20, Deduct	-87.41	
			For >20 To 40, Deduct	-174.81	
			For >40, Deduct	-298.15	
26 56 13 00-0017	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,516.87	718.73
			For Galvanized Finish, Add	62.38	
			For >10 To 20, Deduct	-87.92	
			For >20 To 40, Deduct	-175.84	
			For >40, Deduct	-299.70	
26 56 13 00-0018	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,961.98	756.55
			For Galvanized Finish, Add	73.47	
			For >10 To 20, Deduct	-99.05	
			For >20 To 40, Deduct	-198.10	
			For >40, Deduct	-334.98	
26 56 13 00-0019	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,968.70	756.55
			For Galvanized Finish, Add	73.67	
			For >10 To 20, Deduct	-99.22	
			For >20 To 40, Deduct	-198.44	
			For >40, Deduct	-335.48	
26 56 13 00-0020	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,975.35	756.55
			For Galvanized Finish, Add	73.87	
			For >10 To 20, Deduct	-99.38	
			For >20 To 40, Deduct	-198.77	
			For >40, Deduct	-335.98	

26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style
Arms (26 56 13 00-0005)

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0022	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,312.21	529.59
			For Galvanized Finish, Add	67.59	
			For >10 To 20, Deduct	-82.81	
			For >20 To 40, Deduct	-165.61	
			For >40, Deduct	-274.90	
26 56 13 00-0023	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,378.22	548.50
			For Galvanized Finish, Add	68.44	
			For >10 To 20, Deduct	-84.46	
			For >20 To 40, Deduct	-168.91	
			For >40, Deduct	-280.79	
26 56 13 00-0024	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,437.28	567.42
			For Galvanized Finish, Add	69.07	
			For >10 To 20, Deduct	-85.93	
			For >20 To 40, Deduct	-171.86	
			For >40, Deduct	-286.17	
26 56 13 00-0025	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,432.15	680.90
			For Galvanized Finish, Add	62.11	
			For >10 To 20, Deduct	-85.80	
			For >20 To 40, Deduct	-171.61	
			For >40, Deduct	-291.46	
26 56 13 00-0026	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,481.16	699.81
			For Galvanized Finish, Add	62.45	
			For >10 To 20, Deduct	-87.03	
			For >20 To 40, Deduct	-174.06	
			For >40, Deduct	-296.08	
26 56 13 00-0027	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,523.52	718.73
			For Galvanized Finish, Add	62.58	
			For >10 To 20, Deduct	-88.09	
			For >20 To 40, Deduct	-176.18	
			For >40, Deduct	-300.20	
26 56 13 00-0028	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,721.57	756.55
			For Galvanized Finish, Add	66.25	
			For >10 To 20, Deduct	-93.04	
			For >20 To 40, Deduct	-186.08	
			For >40, Deduct	-316.95	
26 56 13 00-0029	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,766.20	775.46
			For Galvanized Finish, Add	66.46	
			For >10 To 20, Deduct	-94.16	
			For >20 To 40, Deduct	-188.31	
			For >40, Deduct	-321.24	
26 56 13 00-0030	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,808.33	794.38
			For Galvanized Finish, Add	66.59	
			For >10 To 20, Deduct	-95.21	
			For >20 To 40, Deduct	-190.42	
			For >40, Deduct	-325.34	
26 56 13 00-0031	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,941.90	794.38
			For Galvanized Finish, Add	70.59	
			For >10 To 20, Deduct	-98.55	
			For >20 To 40, Deduct	-197.10	
			For >40, Deduct	-335.36	
26 56 13 00-0032	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,008.97	813.30
			For Galvanized Finish, Add	71.47	
			For >10 To 20, Deduct	-100.22	
			For >20 To 40, Deduct	-200.45	
			For >40, Deduct	-341.34	
26 56 13 00-0033	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,074.53	832.21
			For Galvanized Finish, Add	72.30	
			For >10 To 20, Deduct	-101.86	
			For >20 To 40, Deduct	-203.73	
			For >40, Deduct	-347.20	
26 56 13 00-0034	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,400.54	832.21
			For Galvanized Finish, Add	82.08	
			For >10 To 20, Deduct	-110.01	
			For >20 To 40, Deduct	-220.03	
			For >40, Deduct	-371.65	
26 56 13 00-0035	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,442.74	851.13
			For Galvanized Finish, Add	82.22	
			For >10 To 20, Deduct	-111.07	
			For >20 To 40, Deduct	-222.14	
			For >40, Deduct	-375.76	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,485.10	870.04
			For Galvanized Finish, Add	82.35	
			For >10 To 20, Deduct	-112.13	
			For >20 To 40, Deduct	-224.26	
			For >40, Deduct	-379.88	
26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0005)					
26 56 13 00-0038	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	3,997.64	756.55
			For Galvanized Finish, Add	74.54	
			For >10 To 20, Deduct	-99.94	
			For >20 To 40, Deduct	-199.88	
			For >40, Deduct	-337.65	
26 56 13 00-0039	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,077.75	794.38
			For Galvanized Finish, Add	74.67	
			For >10 To 20, Deduct	-101.94	
			For >20 To 40, Deduct	-203.89	
			For >40, Deduct	-345.55	
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,164.51	832.21
			For Galvanized Finish, Add	75.00	
			For >10 To 20, Deduct	-104.11	
			For >20 To 40, Deduct	-208.23	
			For >40, Deduct	-353.95	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,260.31	832.21
			For Galvanized Finish, Add	77.88	
			For >10 To 20, Deduct	-106.51	
			For >20 To 40, Deduct	-213.02	
			For >40, Deduct	-361.13	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,342.53	870.04
			For Galvanized Finish, Add	78.07	
			For >10 To 20, Deduct	-108.56	
			For >20 To 40, Deduct	-217.13	
			For >40, Deduct	-369.19	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,422.65	907.86
			For Galvanized Finish, Add	78.21	
			For >10 To 20, Deduct	-110.57	
			For >20 To 40, Deduct	-221.13	
			For >40, Deduct	-377.09	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,518.34	870.04
			For Galvanized Finish, Add	83.35	
			For >10 To 20, Deduct	-112.96	
			For >20 To 40, Deduct	-225.92	
			For >40, Deduct	-382.38	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,598.46	907.86
			For Galvanized Finish, Add	83.48	
			For >10 To 20, Deduct	-114.96	
			For >20 To 40, Deduct	-229.92	
			For >40, Deduct	-390.28	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,678.57	945.69
			For Galvanized Finish, Add	83.62	
			For >10 To 20, Deduct	-116.96	
			For >20 To 40, Deduct	-233.93	
			For >40, Deduct	-398.18	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,839.09	907.86
			For Galvanized Finish, Add	90.70	
			For >10 To 20, Deduct	-120.98	
			For >20 To 40, Deduct	-241.95	
			For >40, Deduct	-408.33	
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,918.98	945.69
			For Galvanized Finish, Add	90.83	
			For >10 To 20, Deduct	-122.97	
			For >20 To 40, Deduct	-245.95	
			For >40, Deduct	-416.21	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,003.54	983.52
			For Galvanized Finish, Add	91.10	
			For >10 To 20, Deduct	-125.09	
			For >20 To 40, Deduct	-250.18	
			For >40, Deduct	-424.44	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0050	Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0050)				
26 56 13 00-0051	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms,			
		Anchor Base	4,438.39	832.21	
		For Galvanized Finish, Add	83.22		
		For >10 To 20, Deduct	-110.96		
		For >20 To 40, Deduct	-221.92		
		For >40, Deduct	-374.49		
26 56 13 00-0052	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms,			
		Anchor Base	4,558.52	888.95	
		For Galvanized Finish, Add	83.42		
		For >10 To 20, Deduct	-113.96		
		For >20 To 40, Deduct	-227.93		
		For >40, Deduct	-386.34		
26 56 13 00-0053	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms,			
		Anchor Base	4,676.38	945.69	
		For Galvanized Finish, Add	83.55		
		For >10 To 20, Deduct	-116.91		
		For >20 To 40, Deduct	-233.82		
		For >40, Deduct	-398.01		
26 56 13 00-0054	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms,			
		Anchor Base	4,728.34	907.86	
		For Galvanized Finish, Add	87.38		
		For >10 To 20, Deduct	-118.21		
		For >20 To 40, Deduct	-236.42		
		For >40, Deduct	-400.02		
26 56 13 00-0055	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms,			
		Anchor Base	4,846.50	964.61	
		For Galvanized Finish, Add	87.52		
		For >10 To 20, Deduct	-121.16		
		For >20 To 40, Deduct	-242.33		
		For >40, Deduct	-411.72		
26 56 13 00-0056	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms,			
		Anchor Base	4,938.99	1,021.34	
		For Galvanized Finish, Add	86.89		
		For >10 To 20, Deduct	-123.47		
		For >20 To 40, Deduct	-246.95		
		For >40, Deduct	-421.49		
26 56 13 00-0057	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms,			
		Anchor Base	5,057.01	945.69	
		For Galvanized Finish, Add	94.97		
		For >10 To 20, Deduct	-126.43		
		For >20 To 40, Deduct	-252.85		
		For >40, Deduct	-426.56		
26 56 13 00-0058	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms,			
		Anchor Base	5,205.25	1,002.44	
		For Galvanized Finish, Add	96.01		
		For >10 To 20, Deduct	-130.13		
		For >20 To 40, Deduct	-260.26		
		For >40, Deduct	-440.52		
26 56 13 00-0059	EA	35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms,			
		Anchor Base	5,295.24	1,059.17	
		For Galvanized Finish, Add	95.31		
		For >10 To 20, Deduct	-132.38		
		For >20 To 40, Deduct	-264.76		
		For >40, Deduct	-450.10		
26 56 13 00-0060	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms,			
		Anchor Base	5,277.42	983.52	
		For Galvanized Finish, Add	99.31		
		For >10 To 20, Deduct	-131.94		
		For >20 To 40, Deduct	-263.87		
		For >40, Deduct	-444.98		
26 56 13 00-0061	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms,			
		Anchor Base	5,395.30	1,040.26	
		For Galvanized Finish, Add	99.44		
		For >10 To 20, Deduct	-134.88		
		For >20 To 40, Deduct	-269.77		
		For >40, Deduct	-456.66		
26 56 13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms,			
		Anchor Base	5,515.43	1,097.00	
		For Galvanized Finish, Add	99.64		
		For >10 To 20, Deduct	-137.89		
		For >20 To 40, Deduct	-275.77		
		For >40, Deduct	-468.51		
26 56 13 00-0063	Round Tapered, Steel Roadway Light Poles With Davit Style Arm (26 56 13 00-0064)				
26 56 13 00-0064	Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0063)				
26 56 13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm,			
		Anchor Base	3,178.47	605.25	
		For Galvanized Finish, Add	59.04		
		For >10 To 20, Deduct	-79.46		
		For >20 To 40, Deduct	-158.92		
		For >40, Deduct	-268.65		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,593.53 66.95 -89.84 -179.68 -303.56	680.90
26 56 13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,705.90 68.05 -92.65 -185.30 -313.88	718.73
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,344.87 84.95 -108.62 -217.24 -363.69	756.55
26 56 13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms (26 56 13 00-0004)		
26 56 13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0069)		
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,966.25 82.67 -99.16 -198.31 -327.73	605.25
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,000.02 83.69 -100.00 -200.00 -330.26	605.25
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,015.43 84.15 -100.39 -200.77 -331.42	605.25
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,151.33 83.69 -103.78 -207.57 -345.39	680.90
26 56 13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,157.22 83.86 -103.93 -207.86 -345.84	680.90
26 56 13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,218.12 85.69 -105.45 -210.91 -350.40	680.90
26 56 13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,247.00 84.29 -106.18 -212.35 -354.46	718.73
26 56 13 00-0078	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,282.66 85.36 -107.07 -214.13 -357.14	718.73
26 56 13 00-0079	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,469.65 90.97 -111.74 -223.48 -371.16	718.73
26 56 13 00-0080		Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0069)		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0081	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,167.33	756.55
			For Galvanized Finish, Add.....	109.63	
			For >10 To 20, Deduct.....	-129.18	
			For >20 To 40, Deduct.....	-258.37	
			For >40, Deduct.....	-425.38	
26 56 13 00-0082	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,275.32	794.38
			For Galvanized Finish, Add.....	110.60	
			For >10 To 20, Deduct.....	-131.88	
			For >20 To 40, Deduct.....	-263.77	
			For >40, Deduct.....	-435.37	
26 56 13 00-0083	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,477.91	832.21
			For Galvanized Finish, Add.....	114.40	
			For >10 To 20, Deduct.....	-136.95	
			For >20 To 40, Deduct.....	-273.90	
			For >40, Deduct.....	-452.45	
26 56 13 00-0084	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,299.91	832.21
			For Galvanized Finish, Add.....	109.06	
			For >10 To 20, Deduct.....	-132.50	
			For >20 To 40, Deduct.....	-265.00	
			For >40, Deduct.....	-439.10	
26 56 13 00-0085	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,542.60	870.04
			For Galvanized Finish, Add.....	114.08	
			For >10 To 20, Deduct.....	-138.57	
			For >20 To 40, Deduct.....	-277.13	
			For >40, Deduct.....	-459.20	
26 56 13 00-0086	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,700.46	907.86
			For Galvanized Finish, Add.....	116.54	
			For >10 To 20, Deduct.....	-142.51	
			For >20 To 40, Deduct.....	-285.02	
			For >40, Deduct.....	-472.93	
26 56 13 00-0087	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,468.86	870.04
			For Galvanized Finish, Add.....	111.86	
			For >10 To 20, Deduct.....	-136.72	
			For >20 To 40, Deduct.....	-273.44	
			For >40, Deduct.....	-453.67	
26 56 13 00-0088	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,782.81	907.86
			For Galvanized Finish, Add.....	119.01	
			For >10 To 20, Deduct.....	-144.57	
			For >20 To 40, Deduct.....	-289.14	
			For >40, Deduct.....	-479.10	
26 56 13 00-0089	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,980.86	945.69
			For Galvanized Finish, Add.....	122.68	
			For >10 To 20, Deduct.....	-149.52	
			For >20 To 40, Deduct.....	-299.04	
			For >40, Deduct.....	-495.85	
26 56 13 00-0090			Aluminum Roadway Light Poles (26 56 13 00-0002) Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091			Round Tapered, Aluminum Roadway Light Poles (26 56 13 00-0090)		
26 56 13 00-0092			Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0091)		
26 56 13 00-0093			Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0092)		
26 56 13 00-0094	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,587.42	453.94
			For >10 To 20, Deduct.....	-64.69	
			For >20 To 40, Deduct.....	-129.37	
			For >40, Deduct.....	-216.75	
26 56 13 00-0095	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,607.75	453.94
			For >10 To 20, Deduct.....	-65.19	
			For >20 To 40, Deduct.....	-130.39	
			For >40, Deduct.....	-218.28	
26 56 13 00-0096	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,196.95	605.25
			For >10 To 20, Deduct.....	-79.92	
			For >20 To 40, Deduct.....	-159.85	
			For >40, Deduct.....	-270.03	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0097	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,235.36	605.25
			For >10 To 20, Deduct	-80.88	
			For >20 To 40, Deduct	-161.77	
			For >40, Deduct	-272.91	
26 56 13 00-0098	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,270.69	605.25
			For >10 To 20, Deduct	-81.77	
			For >20 To 40, Deduct	-163.53	
			For >40, Deduct	-275.56	
26 56 13 00-0099	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,662.57	680.90
			For >10 To 20, Deduct	-91.56	
			For >20 To 40, Deduct	-183.13	
			For >40, Deduct	-308.74	
26 56 13 00-0100	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,694.98	680.90
			For >10 To 20, Deduct	-92.37	
			For >20 To 40, Deduct	-184.75	
			For >40, Deduct	-311.17	
26 56 13 00-0101	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,731.23	680.90
			For >10 To 20, Deduct	-93.28	
			For >20 To 40, Deduct	-186.56	
			For >40, Deduct	-313.89	
26 56 13 00-0102	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,251.02	718.73
			For >10 To 20, Deduct	-106.28	
			For >20 To 40, Deduct	-212.55	
			For >40, Deduct	-354.76	
26 56 13 00-0103	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,283.35	718.73
			For >10 To 20, Deduct	-107.08	
			For >20 To 40, Deduct	-214.17	
			For >40, Deduct	-357.19	
26 56 13 00-0104	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,310.43	718.73
			For >10 To 20, Deduct	-107.76	
			For >20 To 40, Deduct	-215.52	
			For >40, Deduct	-359.22	
26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms					
			(26 56 13 00-0092)		
26 56 13 00-0106	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	2,969.55	529.59
			For >10 To 20, Deduct	-74.24	
			For >20 To 40, Deduct	-148.48	
			For >40, Deduct	-249.20	
26 56 13 00-0107	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,168.79	529.59
			For >10 To 20, Deduct	-79.22	
			For >20 To 40, Deduct	-158.44	
			For >40, Deduct	-264.14	
26 56 13 00-0108	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,283.28	567.42
			For >10 To 20, Deduct	-82.08	
			For >20 To 40, Deduct	-164.16	
			For >40, Deduct	-274.62	
26 56 13 00-0109	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,568.16	680.90
			For >10 To 20, Deduct	-89.20	
			For >20 To 40, Deduct	-178.41	
			For >40, Deduct	-301.66	
26 56 13 00-0110	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,732.81	699.81
			For >10 To 20, Deduct	-93.32	
			For >20 To 40, Deduct	-186.64	
			For >40, Deduct	-314.95	
26 56 13 00-0111	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,966.04	718.73
			For >10 To 20, Deduct	-99.15	
			For >20 To 40, Deduct	-198.30	
			For >40, Deduct	-333.39	
26 56 13 00-0112	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,103.61	756.55
			For >10 To 20, Deduct	-102.59	
			For >20 To 40, Deduct	-205.18	
			For >40, Deduct	-345.60	
26 56 13 00-0113	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,259.10	775.46
			For >10 To 20, Deduct	-106.48	
			For >20 To 40, Deduct	-212.96	
			For >40, Deduct	-358.21	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0114	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,446.74	794.38
		For >10 To 20, Deduct	-111.17	
		For >20 To 40, Deduct	-222.34	
		For >40, Deduct	-373.22	
26 56 13 00-0115	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,622.98	794.38
		For >10 To 20, Deduct	-115.57	
		For >20 To 40, Deduct	-231.15	
		For >40, Deduct	-386.44	
26 56 13 00-0116	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,027.62	813.30
		For >10 To 20, Deduct	-125.69	
		For >20 To 40, Deduct	-251.38	
		For >40, Deduct	-417.74	
26 56 13 00-0117	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,496.67	832.21
		For >10 To 20, Deduct	-137.42	
		For >20 To 40, Deduct	-274.83	
		For >40, Deduct	-453.86	
26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0092)				
26 56 13 00-0119	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	3,441.60	605.25
		For >10 To 20, Deduct	-86.04	
		For >20 To 40, Deduct	-172.08	
		For >40, Deduct	-288.38	
26 56 13 00-0120	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	3,678.41	643.07
		For >10 To 20, Deduct	-91.96	
		For >20 To 40, Deduct	-183.92	
		For >40, Deduct	-308.03	
26 56 13 00-0121	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,195.35	756.55
		For >10 To 20, Deduct	-104.88	
		For >20 To 40, Deduct	-209.77	
		For >40, Deduct	-352.48	
26 56 13 00-0122	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,377.58	794.38
		For >10 To 20, Deduct	-109.44	
		For >20 To 40, Deduct	-218.88	
		For >40, Deduct	-368.04	
26 56 13 00-0123	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,584.65	832.21
		For >10 To 20, Deduct	-114.62	
		For >20 To 40, Deduct	-229.23	
		For >40, Deduct	-385.46	
26 56 13 00-0124	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,752.04	870.04
		For >10 To 20, Deduct	-118.80	
		For >20 To 40, Deduct	-237.60	
		For >40, Deduct	-399.90	
26 56 13 00-0125	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,942.87	870.04
		For >10 To 20, Deduct	-123.57	
		For >20 To 40, Deduct	-247.14	
		For >40, Deduct	-414.22	
26 56 13 00-0126	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,357.17	907.86
		For >10 To 20, Deduct	-133.93	
		For >20 To 40, Deduct	-267.86	
		For >40, Deduct	-447.18	
26 56 13 00-0127	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	9,729.46	945.69
		For >10 To 20, Deduct	-243.24	
		For >20 To 40, Deduct	-486.47	
		For >40, Deduct	-776.99	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0092)				
26 56 13 00-0129	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	3,592.41	680.90
		For >10 To 20, Deduct	-89.81	
		For >20 To 40, Deduct	-179.62	
		For >40, Deduct	-303.48	
26 56 13 00-0130	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	3,714.40	680.90
		For >10 To 20, Deduct	-92.86	
		For >20 To 40, Deduct	-185.72	
		For >40, Deduct	-312.63	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0131	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,592.23	832.21	
		For >10 To 20, Deduct	-114.81		
		For >20 To 40, Deduct	-229.61		
		For >40, Deduct	-386.03		
26 56 13 00-0132	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,965.78	888.95	
		For >10 To 20, Deduct	-124.14		
		For >20 To 40, Deduct	-248.29		
		For >40, Deduct	-416.88		
26 56 13 00-0133	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,169.77	907.86	
		For >10 To 20, Deduct	-129.24		
		For >20 To 40, Deduct	-258.49		
		For >40, Deduct	-433.13		
26 56 13 00-0134	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,516.31	964.61	
		For >10 To 20, Deduct	-137.91		
		For >20 To 40, Deduct	-275.82		
		For >40, Deduct	-461.95		
26 56 13 00-0135	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,438.82	945.69	
		For >10 To 20, Deduct	-135.97		
		For >20 To 40, Deduct	-271.94		
		For >40, Deduct	-455.20		
26 56 13 00-0136	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,149.52	1,002.44	
		For >10 To 20, Deduct	-153.74		
		For >20 To 40, Deduct	-307.48		
		For >40, Deduct	-511.34		
26 56 13 00-0137	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	6,781.13	1,059.17	
		For >10 To 20, Deduct	-169.53		
		For >20 To 40, Deduct	-339.06		
		For >40, Deduct	-561.54		
26 56 13 00-0138		Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms (26 56 13 00-0091)			
26 56 13 00-0139		Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0138)			
26 56 13 00-0140	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	3,761.41	605.25	
		For >10 To 20, Deduct	-94.04		
		For >20 To 40, Deduct	-188.07		
		For >40, Deduct	-312.37		
26 56 13 00-0141	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	3,788.57	605.25	
		For >10 To 20, Deduct	-94.71		
		For >20 To 40, Deduct	-189.43		
		For >40, Deduct	-314.41		
26 56 13 00-0142	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	3,857.99	605.25	
		For >10 To 20, Deduct	-96.45		
		For >20 To 40, Deduct	-192.90		
		For >40, Deduct	-319.61		
26 56 13 00-0143	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	3,962.15	605.25	
		For >10 To 20, Deduct	-99.05		
		For >20 To 40, Deduct	-198.11		
		For >40, Deduct	-327.42		
26 56 13 00-0144	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,234.78	680.90	
		For >10 To 20, Deduct	-105.87		
		For >20 To 40, Deduct	-211.74		
		For >40, Deduct	-351.65		
26 56 13 00-0145	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,296.03	680.90	
		For >10 To 20, Deduct	-107.40		
		For >20 To 40, Deduct	-214.80		
		For >40, Deduct	-356.25		
26 56 13 00-0146	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,361.36	680.90	
		For >10 To 20, Deduct	-109.03		
		For >20 To 40, Deduct	-218.07		
		For >40, Deduct	-361.15		
26 56 13 00-0147	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,755.42	680.90	
		For >10 To 20, Deduct	-118.89		
		For >20 To 40, Deduct	-237.77		
		For >40, Deduct	-390.70		
26 56 13 00-0148	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,590.66	718.73	
		For >10 To 20, Deduct	-114.77		
		For >20 To 40, Deduct	-229.53		
		For >40, Deduct	-380.24		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0149	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,096.30	718.73
		For >10 To 20, Deduct	-127.41	
		For >20 To 40, Deduct	-254.82	
		For >40, Deduct	-418.16	
26 56 13 00-0150	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,145.55	718.73
		For >10 To 20, Deduct	-128.64	
		For >20 To 40, Deduct	-257.28	
		For >40, Deduct	-421.85	
26 56 13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,458.19	718.73
		For >10 To 20, Deduct	-136.45	
		For >20 To 40, Deduct	-272.91	
		For >40, Deduct	-445.30	
26 56 13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,743.34	718.73
		For >10 To 20, Deduct	-143.58	
		For >20 To 40, Deduct	-287.17	
		For >40, Deduct	-466.69	
26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0138)				
26 56 13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,867.15	756.55
		For >10 To 20, Deduct	-121.68	
		For >20 To 40, Deduct	-243.36	
		For >40, Deduct	-402.86	
26 56 13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,012.21	794.38
		For >10 To 20, Deduct	-125.31	
		For >20 To 40, Deduct	-250.61	
		For >40, Deduct	-415.63	
26 56 13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,132.53	832.21
		For >10 To 20, Deduct	-128.31	
		For >20 To 40, Deduct	-256.63	
		For >40, Deduct	-426.55	
26 56 13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,251.52	832.21
		For >10 To 20, Deduct	-131.29	
		For >20 To 40, Deduct	-262.58	
		For >40, Deduct	-435.47	
26 56 13 00-0158	EA	30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,688.98	870.04
		For >10 To 20, Deduct	-142.22	
		For >20 To 40, Deduct	-284.45	
		For >40, Deduct	-470.18	
26 56 13 00-0159	EA	30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,478.51	907.86
		For >10 To 20, Deduct	-161.96	
		For >20 To 40, Deduct	-323.93	
		For >40, Deduct	-531.28	
26 56 13 00-0160	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,261.53	870.04
		For >10 To 20, Deduct	-156.54	
		For >20 To 40, Deduct	-313.08	
		For >40, Deduct	-513.12	
26 56 13 00-0161	EA	35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,395.35	907.86
		For >10 To 20, Deduct	-159.88	
		For >20 To 40, Deduct	-319.77	
		For >40, Deduct	-525.04	
26 56 13 00-0162	EA	35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,691.76	945.69
		For >10 To 20, Deduct	-192.29	
		For >20 To 40, Deduct	-384.59	
		For >40, Deduct	-624.17	
26 56 13 00-0163 Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm (26 56 13 00-0091)				
26 56 13 00-0164 Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0163)				
26 56 13 00-0165	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,062.22	453.94
		For >10 To 20, Deduct	-76.56	
		For >20 To 40, Deduct	-153.11	
		For >40, Deduct	-252.36	
26 56 13 00-0166	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,138.97	453.94
		For >10 To 20, Deduct	-78.47	
		For >20 To 40, Deduct	-156.95	
		For >40, Deduct	-258.12	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base	3,215.88	453.94
			For >10 To 20, Deduct	-80.40	
			For >20 To 40, Deduct	-160.79	
			For >40, Deduct	-263.89	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davitt Style Arm, Anchor Base	3,678.67	605.25
			For >10 To 20, Deduct	-91.97	
			For >20 To 40, Deduct	-183.93	
			For >40, Deduct	-306.16	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base	3,737.16	605.25
			For >10 To 20, Deduct	-93.43	
			For >20 To 40, Deduct	-186.86	
			For >40, Deduct	-310.55	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base	3,801.07	605.25
			For >10 To 20, Deduct	-95.03	
			For >20 To 40, Deduct	-190.05	
			For >40, Deduct	-315.34	
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davitt Style Arm, Anchor Base	4,150.62	680.90
			For >10 To 20, Deduct	-103.77	
			For >20 To 40, Deduct	-207.53	
			For >40, Deduct	-345.34	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base	4,230.03	680.90
			For >10 To 20, Deduct	-105.75	
			For >20 To 40, Deduct	-211.50	
			For >40, Deduct	-351.30	
26 56 13 00-0173	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base	4,241.95	680.90
			For >10 To 20, Deduct	-106.05	
			For >20 To 40, Deduct	-212.10	
			For >40, Deduct	-352.19	
26 56 13 00-0174	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davitt Style Arm, Anchor Base	4,508.84	718.73
			For >10 To 20, Deduct	-112.72	
			For >20 To 40, Deduct	-225.44	
			For >40, Deduct	-374.10	
26 56 13 00-0175	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base	4,543.67	718.73
			For >10 To 20, Deduct	-113.59	
			For >20 To 40, Deduct	-227.18	
			For >40, Deduct	-376.71	
26 56 13 00-0176	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base	4,625.33	718.73
			For >10 To 20, Deduct	-115.63	
			For >20 To 40, Deduct	-231.27	
			For >40, Deduct	-382.84	
26 56 13 00-0177			Area Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0178			Steel Area Light Poles (26 56 13 00-0177) Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179			Round Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0180			Round Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0179)		
26 56 13 00-0181	EA		10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,230.91	264.79
			For Galvanized Finish, Add	21.04	
			For >10 To 20, Deduct	-41.29	
			For >20 To 40, Deduct	-75.57	
			For >40, Deduct	-158.16	
26 56 13 00-0182	EA		12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,345.42	302.62
			For Galvanized Finish, Add	22.21	
			For >10 To 20, Deduct	-44.74	
			For >20 To 40, Deduct	-82.07	
			For >40, Deduct	-171.55	
26 56 13 00-0183	EA		14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,504.61	340.44
			For Galvanized Finish, Add	24.71	
			For >10 To 20, Deduct	-49.97	
			For >20 To 40, Deduct	-91.70	
			For >40, Deduct	-191.65	
26 56 13 00-0184	EA		16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,667.68	378.27
			For Galvanized Finish, Add	27.33	
			For >10 To 20, Deduct	-55.36	
			For >20 To 40, Deduct	-101.61	
			For >40, Deduct	-212.32	
26 56 13 00-0185	EA		18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,782.20	416.11
			For Galvanized Finish, Add	28.50	
			For >10 To 20, Deduct	-58.80	
			For >20 To 40, Deduct	-108.11	
			For >40, Deduct	-225.72	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0186	EA	20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,886.99	453.94
		For Galvanized Finish, Add	29.37	
		For >10 To 20, Deduct	-61.86	
		For >20 To 40, Deduct	-113.93	
		For >40, Deduct	-237.66	
26 56 13 00-0187	EA	10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,281.42	264.79
		For Galvanized Finish, Add	22.55	
		For >10 To 20, Deduct	-43.31	
		For >20 To 40, Deduct	-79.11	
		For >40, Deduct	-165.73	
26 56 13 00-0188	EA	12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,397.88	302.62
		For Galvanized Finish, Add	23.78	
		For >10 To 20, Deduct	-46.84	
		For >20 To 40, Deduct	-85.75	
		For >40, Deduct	-179.42	
26 56 13 00-0189	EA	14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,609.52	340.44
		For Galvanized Finish, Add	27.86	
		For >10 To 20, Deduct	-54.17	
		For >20 To 40, Deduct	-99.05	
		For >40, Deduct	-207.38	
26 56 13 00-0190	EA	16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,735.68	378.27
		For Galvanized Finish, Add	29.37	
		For >10 To 20, Deduct	-58.08	
		For >20 To 40, Deduct	-106.37	
		For >40, Deduct	-222.52	
26 56 13 00-0191	EA	18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,856.02	416.11
		For Galvanized Finish, Add	30.71	
		For >10 To 20, Deduct	-61.76	
		For >20 To 40, Deduct	-113.28	
		For >40, Deduct	-236.79	
26 56 13 00-0192	EA	20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,956.92	453.94
		For Galvanized Finish, Add	31.47	
		For >10 To 20, Deduct	-64.66	
		For >20 To 40, Deduct	-118.83	
		For >40, Deduct	-248.15	
26 56 13 00-0193	EA	25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,331.43	605.25
		For Galvanized Finish, Add	33.63	
		For >10 To 20, Deduct	-75.10	
		For >20 To 40, Deduct	-138.99	
		For >40, Deduct	-289.19	
26 56 13 00-0194	EA	10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,281.42	264.79
		For Galvanized Finish, Add	22.55	
		For >10 To 20, Deduct	-43.31	
		For >20 To 40, Deduct	-79.11	
		For >40, Deduct	-165.73	
26 56 13 00-0195	EA	12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,403.70	302.62
		For Galvanized Finish, Add	23.95	
		For >10 To 20, Deduct	-47.07	
		For >20 To 40, Deduct	-86.15	
		For >40, Deduct	-180.29	
26 56 13 00-0196	EA	14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,640.60	340.44
		For Galvanized Finish, Add	28.79	
		For >10 To 20, Deduct	-55.41	
		For >20 To 40, Deduct	-101.22	
		For >40, Deduct	-212.05	
26 56 13 00-0197	EA	16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,741.50	378.27
		For Galvanized Finish, Add	29.55	
		For >10 To 20, Deduct	-58.31	
		For >20 To 40, Deduct	-106.77	
		For >40, Deduct	-223.40	
26 56 13 00-0198	EA	18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,856.02	416.11
		For Galvanized Finish, Add	30.71	
		For >10 To 20, Deduct	-61.76	
		For >20 To 40, Deduct	-113.28	
		For >40, Deduct	-236.79	
26 56 13 00-0199	EA	20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,956.92	453.94
		For Galvanized Finish, Add	31.47	
		For >10 To 20, Deduct	-64.66	
		For >20 To 40, Deduct	-118.83	
		For >40, Deduct	-248.15	
26 56 13 00-0200	EA	25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,385.83	605.25
		For Galvanized Finish, Add	35.26	
		For >10 To 20, Deduct	-77.28	
		For >20 To 40, Deduct	-142.80	
		For >40, Deduct	-297.35	
26 56 13 00-0201	EA	30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,638.16	680.90
		For Galvanized Finish, Add	38.29	
		For >10 To 20, Deduct	-85.10	
		For >20 To 40, Deduct	-157.44	
		For >40, Deduct	-327.63	
26 56 13 00-0202	EA	20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,081.26	453.94
		For Galvanized Finish, Add	35.20	
		For >10 To 20, Deduct	-69.63	
		For >20 To 40, Deduct	-127.53	
		For >40, Deduct	-266.80	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0203	EA	25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,411.08	605.25	
		For Galvanized Finish, Add	36.02		
		For >10 To 20, Deduct	-78.29		
		For >20 To 40, Deduct	-144.57		
		For >40, Deduct	-301.14		
26 56 13 00-0204	EA	30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,686.73	680.90	
		For Galvanized Finish, Add	39.75		
		For >10 To 20, Deduct	-87.04		
		For >20 To 40, Deduct	-160.84		
		For >40, Deduct	-334.92		
26 56 13 00-0205 Round Tapered, Steel Area Light Poles (26 56 13 00-0178)					
26 56 13 00-0206 Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)					
26 56 13 00-0207	EA	20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,520.31	453.94	
		For Galvanized Finish, Add	48.37		
		For >10 To 20, Deduct	-87.19		
		For >20 To 40, Deduct	-158.26		
		For >40, Deduct	-332.65		
26 56 13 00-0208	EA	20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,580.53	453.94	
		For Galvanized Finish, Add	50.18		
		For >10 To 20, Deduct	-89.60		
		For >20 To 40, Deduct	-162.48		
		For >40, Deduct	-341.69		
26 56 13 00-0209	EA	25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,015.27	605.25	
		For Galvanized Finish, Add	54.14		
		For >10 To 20, Deduct	-102.45		
		For >20 To 40, Deduct	-186.86		
		For >40, Deduct	-391.77		
26 56 13 00-0210	EA	25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,139.60	605.25	
		For Galvanized Finish, Add	57.87		
		For >10 To 20, Deduct	-107.43		
		For >20 To 40, Deduct	-195.56		
		For >40, Deduct	-410.42		
26 56 13 00-0211	EA	30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,360.85	680.90	
		For Galvanized Finish, Add	59.97		
		For >10 To 20, Deduct	-114.01		
		For >20 To 40, Deduct	-208.02		
		For >40, Deduct	-436.04		
26 56 13 00-0212	EA	30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,568.72	680.90	
		For Galvanized Finish, Add	66.21		
		For >10 To 20, Deduct	-122.32		
		For >20 To 40, Deduct	-222.57		
		For >40, Deduct	-467.22		
26 56 13 00-0213	EA	35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,687.11	718.73	
		For Galvanized Finish, Add	67.49		
		For >10 To 20, Deduct	-125.92		
		For >20 To 40, Deduct	-229.35		
		For >40, Deduct	-481.19		
26 56 13 00-0214	EA	35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,815.33	718.73	
		For Galvanized Finish, Add	71.34		
		For >10 To 20, Deduct	-131.05		
		For >20 To 40, Deduct	-238.32		
		For >40, Deduct	-500.43		
26 56 13 00-0215	EA	35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,122.28	718.73	
		For Galvanized Finish, Add	80.54		
		For >10 To 20, Deduct	-143.33		
		For >20 To 40, Deduct	-259.81		
		For >40, Deduct	-546.47		
26 56 13 00-0216	EA	39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,174.62	756.55	
		For Galvanized Finish, Add	79.85		
		For >10 To 20, Deduct	-144.29		
		For >20 To 40, Deduct	-261.96		
		For >40, Deduct	-550.54		
26 56 13 00-0217	EA	39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,229.02	756.55	
		For Galvanized Finish, Add	81.48		
		For >10 To 20, Deduct	-146.46		
		For >20 To 40, Deduct	-265.77		
		For >40, Deduct	-558.70		
26 56 13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	5,730.06	983.52	
		For Galvanized Finish, Add	112.89		
		For >10 To 20, Deduct	-199.70		
		For >20 To 40, Deduct	-361.76		
		For >40, Deduct	-761.16		
26 56 13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	6,021.03	1,134.83	
		For Galvanized Finish, Add	112.54		
		For >10 To 20, Deduct	-206.80		
		For >20 To 40, Deduct	-376.08		
		For >40, Deduct	-789.67		
26 56 13 00-0220	EA	25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,982.74	605.25	
		For Galvanized Finish, Add	83.17		
		For >10 To 20, Deduct	-141.15		
		For >20 To 40, Deduct	-254.58		
		For >40, Deduct	-536.89		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0221	EA		30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,518.70	680.90
			For Galvanized Finish, Add	94.71	
			For >10 To 20, Deduct	-160.32	
			For >20 To 40, Deduct	-289.07	
			For >40, Deduct	-609.72	
26 56 13 00-0222	EA		39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,221.74	756.55
			For Galvanized Finish, Add	111.26	
			For >10 To 20, Deduct	-186.17	
			For >20 To 40, Deduct	-335.26	
			For >40, Deduct	-707.61	
26 56 13 00-0223	EA		45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,336.18	983.52
			For Galvanized Finish, Add	131.07	
			For >10 To 20, Deduct	-223.94	
			For >20 To 40, Deduct	-404.19	
			For >40, Deduct	-852.08	
26 56 13 00-0224	EA		50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,388.70	1,134.83
			For Galvanized Finish, Add	153.57	
			For >10 To 20, Deduct	-261.50	
			For >20 To 40, Deduct	-471.82	
			For >40, Deduct	-994.82	
26 56 13 00-0225	EA		50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	8,179.38	1,134.83
			For Galvanized Finish, Add	177.29	
			For >10 To 20, Deduct	-293.13	
			For >20 To 40, Deduct	-527.16	
			For >40, Deduct	-1,113.42	
26 56 13 00-0226	EA		50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	10,821.47	1,134.83
			For Galvanized Finish, Add	256.55	
			For >10 To 20, Deduct	-398.81	
			For >20 To 40, Deduct	-712.11	
			For >40, Deduct	-1,509.74	
26 56 13 00-0227	EA		50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	12,103.66	1,134.83
			For Galvanized Finish, Add	295.02	
			For >10 To 20, Deduct	-450.10	
			For >20 To 40, Deduct	-801.86	
			For >40, Deduct	-1,702.07	
26 56 13 00-0228			Square Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0229			Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0228)		
26 56 13 00-0230	EA		10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,215.37	264.79
			For Galvanized Finish, Add	20.57	
			For >10 To 20, Deduct	-40.67	
			For >20 To 40, Deduct	-74.48	
			For >40, Deduct	-155.83	
26 56 13 00-0231	EA		12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,291.03	302.62
			For Galvanized Finish, Add	20.57	
			For >10 To 20, Deduct	-42.56	
			For >20 To 40, Deduct	-78.27	
			For >40, Deduct	-163.39	
26 56 13 00-0232	EA		14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,399.70	340.44
			For Galvanized Finish, Add	21.56	
			For >10 To 20, Deduct	-45.77	
			For >20 To 40, Deduct	-84.36	
			For >40, Deduct	-175.91	
26 56 13 00-0233	EA		15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,484.16	359.36
			For Galvanized Finish, Add	22.96	
			For >10 To 20, Deduct	-48.59	
			For >20 To 40, Deduct	-89.52	
			For >40, Deduct	-186.69	
26 56 13 00-0234	EA		16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,521.98	378.27
			For Galvanized Finish, Add	22.96	
			For >10 To 20, Deduct	-49.53	
			For >20 To 40, Deduct	-91.41	
			For >40, Deduct	-190.47	
26 56 13 00-0235	EA		18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,619.01	416.11
			For Galvanized Finish, Add	23.60	
			For >10 To 20, Deduct	-52.28	
			For >20 To 40, Deduct	-96.69	
			For >40, Deduct	-201.24	
26 56 13 00-0236	EA		20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,712.14	453.94
			For Galvanized Finish, Add	24.13	
			For >10 To 20, Deduct	-54.87	
			For >20 To 40, Deduct	-101.69	
			For >40, Deduct	-211.43	
26 56 13 00-0237	EA		25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,131.33	605.25
			For Galvanized Finish, Add	27.63	
			For >10 To 20, Deduct	-67.10	
			For >20 To 40, Deduct	-124.98	
			For >40, Deduct	-259.18	
26 56 13 00-0238	EA		20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,974.41	453.94
			For Galvanized Finish, Add	32.00	
			For >10 To 20, Deduct	-65.36	
			For >20 To 40, Deduct	-120.05	
			For >40, Deduct	-250.77	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0239	EA	25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,492.68	605.25	
		For Galvanized Finish, Add	38.47		
		For >10 To 20, Deduct	-81.55		
		For >20 To 40, Deduct	-150.28		
		For >40, Deduct	-313.38		
26 56 13 00-0240	EA	30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,855.74	680.90	
		For Galvanized Finish, Add	44.82		
		For >10 To 20, Deduct	-93.80		
		For >20 To 40, Deduct	-172.67		
		For >40, Deduct	-360.27		
26 56 13 00-0241	EA	20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,902.53	453.94	
		For Galvanized Finish, Add	29.84		
		For >10 To 20, Deduct	-62.48		
		For >20 To 40, Deduct	-115.02		
		For >40, Deduct	-239.99		
26 56 13 00-0242	EA	25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,352.80	605.25	
		For Galvanized Finish, Add	34.27		
		For >10 To 20, Deduct	-75.95		
		For >20 To 40, Deduct	-140.49		
		For >40, Deduct	-292.40		
26 56 13 00-0243	EA	30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,735.30	680.90	
		For Galvanized Finish, Add	41.21		
		For >10 To 20, Deduct	-88.99		
		For >20 To 40, Deduct	-164.24		
		For >40, Deduct	-342.21		
26 56 13 00-0244	EA	20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,149.25	453.94	
		For Galvanized Finish, Add	37.24		
		For >10 To 20, Deduct	-72.35		
		For >20 To 40, Deduct	-132.29		
		For >40, Deduct	-276.99		
26 56 13 00-0245	EA	25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,667.52	605.25	
		For Galvanized Finish, Add	43.71		
		For >10 To 20, Deduct	-88.54		
		For >20 To 40, Deduct	-162.52		
		For >40, Deduct	-339.60		
26 56 13 00-0246	EA	30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,020.87	680.90	
		For Galvanized Finish, Add	49.77		
		For >10 To 20, Deduct	-100.41		
		For >20 To 40, Deduct	-184.22		
		For >40, Deduct	-385.04		
26 56 13 00-0247	EA	35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,337.42	718.73	
		For Galvanized Finish, Add	57.00		
		For >10 To 20, Deduct	-111.94		
		For >20 To 40, Deduct	-204.87		
		For >40, Deduct	-428.74		
26 56 13 00-0248	EA	30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,403.59	680.90	
		For Galvanized Finish, Add	61.25		
		For >10 To 20, Deduct	-115.72		
		For >20 To 40, Deduct	-211.02		
		For >40, Deduct	-442.45		
26 56 13 00-0249	EA	35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,722.08	718.73	
		For Galvanized Finish, Add	68.54		
		For >10 To 20, Deduct	-127.32		
		For >20 To 40, Deduct	-231.80		
		For >40, Deduct	-486.44		
26 56 13 00-0250	EA	40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,935.67	756.55	
		For Galvanized Finish, Add	72.68		
		For >10 To 20, Deduct	-134.73		
		For >20 To 40, Deduct	-245.23		
		For >40, Deduct	-514.70		
26 56 13 00-0251		Hinged, Square Straight, Steel Area Light Poles (26 56 13 00-0178)			
26 56 13 00-0252		Hinged, Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0251)			
26 56 13 00-0253	EA	20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,129.28	453.94	
		For Galvanized Finish, Add	96.64		
		For >10 To 20, Deduct	-151.55		
		For >20 To 40, Deduct	-270.89		
		For >40, Deduct	-574.00		
26 56 13 00-0254	EA	25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,650.94	605.25	
		For Galvanized Finish, Add	103.21		
		For >10 To 20, Deduct	-167.88		
		For >20 To 40, Deduct	-301.36		
		For >40, Deduct	-637.12		
26 56 13 00-0255	EA	30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,438.79	680.90	
		For Galvanized Finish, Add	152.31		
		For >10 To 20, Deduct	-237.12		
		For >20 To 40, Deduct	-423.48		
		For >40, Deduct	-897.73		
26 56 13 00-0256	EA	20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,207.80	453.94	
		For Galvanized Finish, Add	99.00		
		For >10 To 20, Deduct	-154.69		
		For >20 To 40, Deduct	-276.39		
		For >40, Deduct	-585.78		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0257	EA		25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,107.60	605.25
			For Galvanized Finish, Add	116.91	
			For >10 To 20, Deduct	-186.15	
			For >20 To 40, Deduct	-333.32	
			For >40, Deduct	-705.62	
26 56 13 00-0258	EA		30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,118.61	680.90
			For Galvanized Finish, Add	172.70	
			For >10 To 20, Deduct	-264.32	
			For >20 To 40, Deduct	-471.07	
			For >40, Deduct	-999.70	
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,142.71	718.73
			For Galvanized Finish, Add	201.16	
			For >10 To 20, Deduct	-304.15	
			For >20 To 40, Deduct	-541.24	
			For >40, Deduct	-1,149.53	
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	9,534.63	756.55
			For Galvanized Finish, Add	240.65	
			For >10 To 20, Deduct	-358.69	
			For >20 To 40, Deduct	-637.16	
			For >40, Deduct	-1,354.54	
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,005.30	453.94
			For Galvanized Finish, Add	92.92	
			For >10 To 20, Deduct	-146.59	
			For >20 To 40, Deduct	-262.21	
			For >40, Deduct	-555.40	
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,452.57	605.25
			For Galvanized Finish, Add	97.26	
			For >10 To 20, Deduct	-159.95	
			For >20 To 40, Deduct	-287.47	
			For >40, Deduct	-607.36	
26 56 13 00-0263	EA		30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,089.58	680.90
			For Galvanized Finish, Add	141.83	
			For >10 To 20, Deduct	-223.16	
			For >20 To 40, Deduct	-399.03	
			For >40, Deduct	-845.35	
26 56 13 00-0264	EA		20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,147.88	453.94
			For Galvanized Finish, Add	97.20	
			For >10 To 20, Deduct	-152.30	
			For >20 To 40, Deduct	-272.19	
			For >40, Deduct	-576.79	
26 56 13 00-0265	EA		25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,921.63	605.25
			For Galvanized Finish, Add	111.33	
			For >10 To 20, Deduct	-178.71	
			For >20 To 40, Deduct	-320.30	
			For >40, Deduct	-677.72	
26 56 13 00-0266	EA		30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	6,860.32	680.90
			For Galvanized Finish, Add	164.96	
			For >10 To 20, Deduct	-253.99	
			For >20 To 40, Deduct	-452.99	
			For >40, Deduct	-960.96	
26 56 13 00-0267	EA		20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,366.91	453.94
			For Galvanized Finish, Add	103.77	
			For >10 To 20, Deduct	-161.06	
			For >20 To 40, Deduct	-287.53	
			For >40, Deduct	-609.64	
26 56 13 00-0268	EA		25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,316.30	605.25
			For Galvanized Finish, Add	123.17	
			For >10 To 20, Deduct	-194.49	
			For >20 To 40, Deduct	-347.93	
			For >40, Deduct	-736.92	
26 56 13 00-0269	EA		30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,325.25	680.90
			For Galvanized Finish, Add	178.90	
			For >10 To 20, Deduct	-272.58	
			For >20 To 40, Deduct	-485.53	
			For >40, Deduct	-1,030.70	
26 56 13 00-0270	EA		35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,394.81	718.73
			For Galvanized Finish, Add	208.72	
			For >10 To 20, Deduct	-314.23	
			For >20 To 40, Deduct	-558.89	
			For >40, Deduct	-1,187.35	
26 56 13 00-0271	EA		39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	9,668.94	756.55
			For Galvanized Finish, Add	244.67	
			For >10 To 20, Deduct	-364.06	
			For >20 To 40, Deduct	-646.56	
			For >40, Deduct	-1,374.69	
26 56 13 00-0272			Square Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0273			Square Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0272)		
26 56 13 00-0274	EA		20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,175.00	453.94
			For Galvanized Finish, Add	68.01	
			For >10 To 20, Deduct	-113.38	
			For >20 To 40, Deduct	-204.09	
			For >40, Deduct	-430.86	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0275	EA	25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,877.83	605.25	
		For Galvanized Finish, Add	80.02		
		For >10 To 20, Deduct	-136.96		
		For >20 To 40, Deduct	-247.24		
		For >40, Deduct	-521.15		
26 56 13 00-0276	EA	30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,318.60	680.90	
		For Galvanized Finish, Add	88.70		
		For >10 To 20, Deduct	-152.32		
		For >20 To 40, Deduct	-275.07		
		For >40, Deduct	-579.70		
26 56 13 00-0277	EA	35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,776.97	718.73	
		For Galvanized Finish, Add	100.19		
		For >10 To 20, Deduct	-169.52		
		For >20 To 40, Deduct	-305.64		
		For >40, Deduct	-644.67		
26 56 13 00-0278	EA	39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,035.24	756.55	
		For Galvanized Finish, Add	105.66		
		For >10 To 20, Deduct	-178.71		
		For >20 To 40, Deduct	-322.20		
		For >40, Deduct	-679.63		
26 56 13 00-0279	EA	20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,047.28	453.94	
		For Galvanized Finish, Add	94.18		
		For >10 To 20, Deduct	-148.27		
		For >20 To 40, Deduct	-265.15		
		For >40, Deduct	-561.70		
26 56 13 00-0280	EA	25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,561.66	605.25	
		For Galvanized Finish, Add	100.54		
		For >10 To 20, Deduct	-164.31		
		For >20 To 40, Deduct	-295.11		
		For >40, Deduct	-623.72		
26 56 13 00-0281	EA	30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,878.11	680.90	
		For Galvanized Finish, Add	105.49		
		For >10 To 20, Deduct	-174.70		
		For >20 To 40, Deduct	-314.23		
		For >40, Deduct	-663.63		
26 56 13 00-0282	EA	30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,390.98	680.90	
		For Galvanized Finish, Add	120.88		
		For >10 To 20, Deduct	-195.21		
		For >20 To 40, Deduct	-350.13		
		For >40, Deduct	-740.56		
26 56 13 00-0283	EA	35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,835.75	718.73	
		For Galvanized Finish, Add	131.95		
		For >10 To 20, Deduct	-211.87		
		For >20 To 40, Deduct	-379.75		
		For >40, Deduct	-803.49		
26 56 13 00-0284	EA	35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	6,471.01	718.73	
		For Galvanized Finish, Add	151.01		
		For >10 To 20, Deduct	-237.28		
		For >20 To 40, Deduct	-424.22		
		For >40, Deduct	-898.78		
26 56 13 00-0285	EA	39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,940.55	756.55	
		For Galvanized Finish, Add	132.82		
		For >10 To 20, Deduct	-214.93		
		For >20 To 40, Deduct	-385.58		
		For >40, Deduct	-815.43		
26 56 13 00-0286	EA	39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	7,504.43	756.55	
		For Galvanized Finish, Add	179.74		
		For >10 To 20, Deduct	-277.48		
		For >20 To 40, Deduct	-495.05		
		For >40, Deduct	-1,050.01		
26 56 13 00-0287	EA	45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	7,053.04	983.52	
		For Galvanized Finish, Add	152.58		
		For >10 To 20, Deduct	-252.62		
		For >20 To 40, Deduct	-454.37		
		For >40, Deduct	-959.60		
26 56 13 00-0288	EA	45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	8,119.59	983.52	
		For Galvanized Finish, Add	184.58		
		For >10 To 20, Deduct	-295.28		
		For >20 To 40, Deduct	-529.03		
		For >40, Deduct	-1,119.59		
26 56 13 00-0289	EA	50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	8,476.62	1,134.83	
		For Galvanized Finish, Add	186.21		
		For >10 To 20, Deduct	-305.02		
		For >20 To 40, Deduct	-547.97		
		For >40, Deduct	-1,158.01		

26 56 13 00-0290 Factory Accessories For Steel Area Light Poles (26 56 13 00-0178)

26 56 13 00-0291	EA	1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	68.88
26 56 13 00-0292	EA	Extra Handhole For Steel Area Light Poles	102.43
26 56 13 00-0293	EA	Vibration Dampener For Steel Area Light Poles	104.20

26 56 13 00-0294 Aluminum Area Light Poles (26 56 13 00-0177)

Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0295		Round Straight, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0296		Round Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0295)		
26 56 13 00-0297	EA	8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	826.31 37.24 74.47 -26.24 -48.76 -101.25	226.96
26 56 13 00-0298	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	921.06 39.15 78.29 -28.90 -53.88 -111.68	264.79
26 56 13 00-0299	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,020.59 41.53 83.07 -31.74 -59.34 -122.83	302.62
26 56 13 00-0300	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,121.06 44.02 88.03 -34.63 -64.86 -134.11	340.44
26 56 13 00-0301	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,175.12 45.64 91.28 -36.22 -67.88 -140.33	359.36
26 56 13 00-0302	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,228.22 47.17 94.33 -37.78 -70.84 -146.41	378.27
26 56 13 00-0303	EA	16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,285.51 52.90 105.79 -40.07 -74.85 -155.00	378.27
26 56 13 00-0304	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,397.45 56.52 113.05 -43.41 -81.18 -168.01	416.11
26 56 13 00-0305	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,503.66 59.58 119.16 -46.53 -87.10 -180.16	453.94
26 56 13 00-0306	EA	15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,386.14 66.74 133.48 -44.66 -82.66 -171.98	359.36
26 56 13 00-0307	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,714.67 80.68 161.36 -54.97 -101.87 -211.81	453.94
26 56 13 00-0308	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,821.60 91.37 182.75 -59.25 -109.35 -227.85	453.94
26 56 13 00-0309	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,224.49 101.40 202.80 -70.82 -131.50 -273.15	605.25



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0310	EA	30'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,565.80 120.40 240.80 -82.21 -152.37 -316.78	680.90
26 56 13 00-0311	EA	20'	High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,569.54 66.17 132.34 -49.16 -91.71 -190.04	453.94
26 56 13 00-0312	EA	20'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,813.01 90.52 181.03 -58.90 -108.75 -226.56	453.94
26 56 13 00-0313	EA	25'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,209.21 99.87 199.74 -70.21 -130.43 -270.86	605.25
26 56 13 00-0314	EA	25'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,347.66 113.72 227.43 -75.75 -140.13 -291.62	605.25
26 56 13 00-0315	EA	30'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,722.39 136.06 272.12 -88.47 -163.33 -340.27	680.90
26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)					
26 56 13 00-0317	EA	8'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	923.70 70.46 -30.14 -55.58 -115.86	226.96
26 56 13 00-0318	EA	10'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,037.54 76.19 -33.56 -62.04 -129.15	264.79
26 56 13 00-0319	EA	12'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,147.58 81.35 -36.82 -68.23 -141.87	302.62
26 56 13 00-0320	EA	14'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,239.46 83.78 -39.36 -73.14 -151.87	340.44
26 56 13 00-0321	EA	16'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,342.80 87.94 -42.36 -78.87 -163.59	378.27
26 56 13 00-0322	EA	10'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,057.59 79.20 -34.36 -63.44 -132.16	264.79
26 56 13 00-0323	EA	12'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,165.72 84.07 -37.55 -69.50 -144.60	302.62
26 56 13 00-0324	EA	14'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,276.70 89.37 -40.85 -75.75 -157.46	340.44
26 56 13 00-0325	EA	16'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,386.72 94.53 -44.12 -81.94 -170.18	378.27

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0326 EA 18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,501.52		416.11
For Bronze, Satin Or Black Anodized Finish, Add	100.40	
For >10 To 20, Deduct	-47.58	
For >20 To 40, Deduct	-88.46	
For >40, Deduct	-183.62	
26 56 13 00-0327 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,610.59		453.94
For Bronze, Satin Or Black Anodized Finish, Add	105.41	
For >10 To 20, Deduct	-50.81	
For >20 To 40, Deduct	-94.58	
For >40, Deduct	-196.20	
26 56 13 00-0328 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,202.95		302.62
For Bronze, Satin Or Black Anodized Finish, Add	89.66	
For >10 To 20, Deduct	-39.04	
For >20 To 40, Deduct	-72.10	
For >40, Deduct	-150.18	
26 56 13 00-0329 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,320.62		340.44
For Bronze, Satin Or Black Anodized Finish, Add	95.96	
For >10 To 20, Deduct	-42.61	
For >20 To 40, Deduct	-78.83	
For >40, Deduct	-164.05	
26 56 13 00-0330 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,437.32		378.27
For Bronze, Satin Or Black Anodized Finish, Add	102.12	
For >10 To 20, Deduct	-46.14	
For >20 To 40, Deduct	-85.48	
For >40, Deduct	-177.77	
26 56 13 00-0331 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,555.95		416.11
For Bronze, Satin Or Black Anodized Finish, Add	108.56	
For >10 To 20, Deduct	-49.75	
For >20 To 40, Deduct	-92.27	
For >40, Deduct	-191.78	
26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,490.79		378.27
For Bronze, Satin Or Black Anodized Finish, Add	110.14	
For >10 To 20, Deduct	-48.28	
For >20 To 40, Deduct	-89.22	
For >40, Deduct	-185.79	
26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,735.67		453.94
For Bronze, Satin Or Black Anodized Finish, Add	124.17	
For >10 To 20, Deduct	-55.81	
For >20 To 40, Deduct	-103.34	
For >40, Deduct	-214.96	
26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,238.28		302.62
For Bronze, Satin Or Black Anodized Finish, Add	94.95	
For >10 To 20, Deduct	-40.45	
For >20 To 40, Deduct	-74.57	
For >40, Deduct	-155.48	
26 56 13 00-0335 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,366.45		340.44
For Bronze, Satin Or Black Anodized Finish, Add	102.83	
For >10 To 20, Deduct	-44.44	
For >20 To 40, Deduct	-82.03	
For >40, Deduct	-170.92	
26 56 13 00-0336 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,485.06		378.27
For Bronze, Satin Or Black Anodized Finish, Add	109.28	
For >10 To 20, Deduct	-48.05	
For >20 To 40, Deduct	-88.82	
For >40, Deduct	-184.93	
26 56 13 00-0337 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,609.42		416.11
For Bronze, Satin Or Black Anodized Finish, Add	116.58	
For >10 To 20, Deduct	-51.89	
For >20 To 40, Deduct	-96.02	
For >40, Deduct	-199.80	
26 56 13 00-0338 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,730.90		453.94
For Bronze, Satin Or Black Anodized Finish, Add	123.46	
For >10 To 20, Deduct	-55.62	
For >20 To 40, Deduct	-103.01	
For >40, Deduct	-214.24	
26 56 13 00-0339 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,554.76		378.27
For Bronze, Satin Or Black Anodized Finish, Add	119.73	
For >10 To 20, Deduct	-50.84	
For >20 To 40, Deduct	-93.70	
For >40, Deduct	-195.39	
26 56 13 00-0340 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,687.71		416.11
For Bronze, Satin Or Black Anodized Finish, Add	128.33	
For >10 To 20, Deduct	-55.03	
For >20 To 40, Deduct	-101.50	
For >40, Deduct	-211.55	
26 56 13 00-0341 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base 1,760.50		453.94
For Bronze, Satin Or Black Anodized Finish, Add	127.90	
For >10 To 20, Deduct	-56.80	
For >20 To 40, Deduct	-105.08	
For >40, Deduct	-218.68	

26 56 13 00-0342 Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0295)
 Note: Includes rubberized undercoating on embedded portion.



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0343	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	729.64	189.14
		For Bronze Or Satin Anodized Finish, Add	35.14	
		For Black Anodized Finish, Add	70.27	
		For >10 To 20, Deduct	-23.51	
		For >20 To 40, Deduct	-43.51	
		For >40, Deduct	-90.53	
26 56 13 00-0344	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	785.62	208.05
		For Bronze Or Satin Anodized Finish, Add	36.95	
		For Black Anodized Finish, Add	73.90	
		For >10 To 20, Deduct	-25.18	
		For >20 To 40, Deduct	-46.67	
		For >40, Deduct	-97.04	
26 56 13 00-0345	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	866.41	226.96
		For Bronze Or Satin Anodized Finish, Add	41.25	
		For Black Anodized Finish, Add	82.49	
		For >10 To 20, Deduct	-27.85	
		For >20 To 40, Deduct	-51.57	
		For >40, Deduct	-107.26	
26 56 13 00-0346	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	888.37	226.96
		For Bronze Or Satin Anodized Finish, Add	43.44	
		For Black Anodized Finish, Add	86.89	
		For >10 To 20, Deduct	-28.73	
		For >20 To 40, Deduct	-53.11	
		For >40, Deduct	-110.56	
26 56 13 00-0347	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	916.06	226.96
		For Bronze Or Satin Anodized Finish, Add	46.21	
		For Black Anodized Finish, Add	92.42	
		For >10 To 20, Deduct	-29.83	
		For >20 To 40, Deduct	-55.05	
		For >40, Deduct	-114.71	
26 56 13 00-0348	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,037.91	245.88
		For Bronze Or Satin Anodized Finish, Add	54.62	
		For Black Anodized Finish, Add	109.23	
		For >10 To 20, Deduct	-34.14	
		For >20 To 40, Deduct	-62.82	
		For >40, Deduct	-131.10	
26 56 13 00-0349	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,111.06	264.79
		For Bronze Or Satin Anodized Finish, Add	58.15	
		For Black Anodized Finish, Add	116.29	
		For >10 To 20, Deduct	-36.50	
		For >20 To 40, Deduct	-67.18	
		For >40, Deduct	-140.18	
26 56 13 00-0350	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,259.06	264.79
		For Bronze Or Satin Anodized Finish, Add	72.95	
		For Black Anodized Finish, Add	145.89	
		For >10 To 20, Deduct	-42.42	
		For >20 To 40, Deduct	-77.54	
		For >40, Deduct	-162.38	
26 56 13 00-0351	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,524.72	302.62
		For Bronze Or Satin Anodized Finish, Add	91.95	
		For Black Anodized Finish, Add	183.89	
		For >10 To 20, Deduct	-51.91	
		For >20 To 40, Deduct	-94.63	
		For >40, Deduct	-198.45	
26 56 13 00-0352	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,728.32	340.44
		For Bronze Or Satin Anodized Finish, Add	104.74	
		For Black Anodized Finish, Add	209.48	
		For >10 To 20, Deduct	-58.92	
		For >20 To 40, Deduct	-107.36	
		For >40, Deduct	-225.20	
26 56 13 00-0353	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	1,903.04	340.44
		For Bronze Or Satin Anodized Finish, Add	122.21	
		For Black Anodized Finish, Add	244.43	
		For >10 To 20, Deduct	-65.91	
		For >20 To 40, Deduct	-119.59	
		For >40, Deduct	-251.41	
26 56 13 00-0354		Round Tapered, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0355		Round Tapered, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0354)		
26 56 13 00-0356	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	724.15	226.96
		For Bronze Or Satin Anodized Finish, Add	27.02	
		For Black Anodized Finish, Add	54.04	
		For >10 To 20, Deduct	-22.16	
		For >20 To 40, Deduct	-41.61	
		For >40, Deduct	-85.93	
26 56 13 00-0357	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	821.76	264.79
		For Bronze Or Satin Anodized Finish, Add	29.22	
		For Black Anodized Finish, Add	58.43	
		For >10 To 20, Deduct	-24.93	
		For >20 To 40, Deduct	-46.93	
		For >40, Deduct	-96.78	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0358	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	919.38	302.62
		For Bronze Or Satin Anodized Finish, Add	31.41	
		For Black Anodized Finish, Add	62.83	
		For >10 To 20, Deduct	-27.70	
		For >20 To 40, Deduct	-52.25	
		For >40, Deduct	-107.64	
26 56 13 00-0359	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,025.58	340.44
		For Bronze Or Satin Anodized Finish, Add	34.47	
		For Black Anodized Finish, Add	68.94	
		For >10 To 20, Deduct	-30.81	
		For >20 To 40, Deduct	-58.17	
		For >40, Deduct	-119.79	
26 56 13 00-0360	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,130.83	378.27
		For Bronze Or Satin Anodized Finish, Add	37.43	
		For Black Anodized Finish, Add	74.86	
		For >10 To 20, Deduct	-33.88	
		For >20 To 40, Deduct	-64.03	
		For >40, Deduct	-131.80	
26 56 13 00-0361	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	846.58	264.79
		For Bronze Or Satin Anodized Finish, Add	31.70	
		For Black Anodized Finish, Add	63.40	
		For >10 To 20, Deduct	-25.92	
		For >20 To 40, Deduct	-48.67	
		For >40, Deduct	-100.51	
26 56 13 00-0362	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	958.53	302.62
		For Bronze Or Satin Anodized Finish, Add	35.33	
		For Black Anodized Finish, Add	70.66	
		For >10 To 20, Deduct	-29.26	
		For >20 To 40, Deduct	-54.99	
		For >40, Deduct	-113.52	
26 56 13 00-0363	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,067.59	340.44
		For Bronze Or Satin Anodized Finish, Add	38.67	
		For Black Anodized Finish, Add	77.34	
		For >10 To 20, Deduct	-32.49	
		For >20 To 40, Deduct	-61.11	
		For >40, Deduct	-126.09	
26 56 13 00-0364	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,279.06	416.11
		For Bronze Or Satin Anodized Finish, Add	44.69	
		For Black Anodized Finish, Add	89.37	
		For >10 To 20, Deduct	-38.68	
		For >20 To 40, Deduct	-72.89	
		For >40, Deduct	-150.25	
26 56 13 00-0365	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,378.58	453.94
		For Bronze Or Satin Anodized Finish, Add	47.07	
		For Black Anodized Finish, Add	94.14	
		For >10 To 20, Deduct	-41.53	
		For >20 To 40, Deduct	-78.34	
		For >40, Deduct	-161.39	
26 56 13 00-0366	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	993.85	302.62
		For Bronze Or Satin Anodized Finish, Add	38.86	
		For Black Anodized Finish, Add	77.72	
		For >10 To 20, Deduct	-30.68	
		For >20 To 40, Deduct	-57.46	
		For >40, Deduct	-118.82	
26 56 13 00-0367	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,108.65	340.44
		For Bronze Or Satin Anodized Finish, Add	42.78	
		For Black Anodized Finish, Add	85.55	
		For >10 To 20, Deduct	-34.13	
		For >20 To 40, Deduct	-63.99	
		For >40, Deduct	-132.25	
26 56 13 00-0368	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,230.13	378.27
		For Bronze Or Satin Anodized Finish, Add	47.36	
		For Black Anodized Finish, Add	94.72	
		For >10 To 20, Deduct	-37.86	
		For >20 To 40, Deduct	-70.98	
		For >40, Deduct	-146.69	
26 56 13 00-0369	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,334.43	416.11
		For Bronze Or Satin Anodized Finish, Add	50.22	
		For Black Anodized Finish, Add	100.44	
		For >10 To 20, Deduct	-40.89	
		For >20 To 40, Deduct	-76.77	
		For >40, Deduct	-158.55	
26 56 13 00-0370	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,452.10	453.94
		For Bronze Or Satin Anodized Finish, Add	54.42	
		For Black Anodized Finish, Add	108.85	
		For >10 To 20, Deduct	-44.47	
		For >20 To 40, Deduct	-83.49	
		For >40, Deduct	-172.42	
26 56 13 00-0371	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,323.70	378.27
		For Bronze Or Satin Anodized Finish, Add	56.72	
		For Black Anodized Finish, Add	113.43	
		For >10 To 20, Deduct	-41.60	
		For >20 To 40, Deduct	-77.53	
		For >40, Deduct	-160.73	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0372	EA	18'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,453.78 62.16 124.31 -45.67 -85.12 -176.46	416.11
26 56 13 00-0373	EA	20'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,544.71 63.69 127.37 -48.17 -89.97 -186.31	453.94
26 56 13 00-0374	EA	23'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,781.00 72.18 144.37 -55.35 -103.49 -214.19	529.59
26 56 13 00-0375	EA	25'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,023.02 81.25 162.51 -62.76 -117.40 -242.93	605.25
26 56 13 00-0376	EA	18'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,547.36 71.52 143.03 -49.41 -91.67 -190.49	416.11
26 56 13 00-0377	EA	20'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,658.33 75.05 150.09 -52.72 -97.93 -203.36	453.94
26 56 13 00-0378	EA	23'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,870.75 81.16 162.32 -58.94 -109.77 -227.65	529.59
26 56 13 00-0379	EA	25'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,091.77 88.13 176.26 -65.51 -122.21 -253.24	605.25
26 56 13 00-0380	EA	28'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,244.77 95.86 191.72 -70.50 -131.41 -272.41	643.07
26 56 13 00-0381	EA	30'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,399.67 103.79 207.57 -75.56 -140.74 -291.86	680.90
26 56 13 00-0382	EA	23'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,959.55 90.04 180.08 -62.49 -115.99 -240.97	529.59
26 56 13 00-0383	EA	25'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,150.97 94.05 188.10 -67.88 -126.36 -262.12	605.25
26 56 13 00-0384	EA	28'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,308.74 102.26 204.52 -73.06 -135.89 -282.00	643.07
26 56 13 00-0385	EA	30'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,498.97 113.72 227.43 -79.53 -147.69 -306.76	680.90

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0386	EA	33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,579.76	699.81
		For Bronze Or Satin Anodized Finish, Add	118.01	
		For Black Anodized Finish, Add	236.03	
		For >10 To 20, Deduct	-82.20	
		For >20 To 40, Deduct	-152.59	
		For >40, Deduct	-316.98	
26 56 13 00-0387	EA	35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,733.11	718.73
		For Bronze Or Satin Anodized Finish, Add	129.57	
		For Black Anodized Finish, Add	259.13	
		For >10 To 20, Deduct	-87.76	
		For >20 To 40, Deduct	-162.57	
		For >40, Deduct	-338.09	
26 56 13 00-0388	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,033.00	302.62
		For Bronze Or Satin Anodized Finish, Add	42.78	
		For Black Anodized Finish, Add	85.55	
		For >10 To 20, Deduct	-32.24	
		For >20 To 40, Deduct	-60.21	
		For >40, Deduct	-124.69	
26 56 13 00-0389	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,154.48	340.44
		For Bronze Or Satin Anodized Finish, Add	47.36	
		For Black Anodized Finish, Add	94.72	
		For >10 To 20, Deduct	-35.97	
		For >20 To 40, Deduct	-67.20	
		For >40, Deduct	-139.13	
26 56 13 00-0390	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,279.78	378.27
		For Bronze Or Satin Anodized Finish, Add	52.32	
		For Black Anodized Finish, Add	104.65	
		For >10 To 20, Deduct	-39.84	
		For >20 To 40, Deduct	-74.45	
		For >40, Deduct	-154.14	
26 56 13 00-0391	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,394.59	416.11
		For Bronze Or Satin Anodized Finish, Add	56.24	
		For Black Anodized Finish, Add	112.48	
		For >10 To 20, Deduct	-43.30	
		For >20 To 40, Deduct	-80.98	
		For >40, Deduct	-167.58	
26 56 13 00-0392	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,508.43	453.94
		For Bronze Or Satin Anodized Finish, Add	60.06	
		For Black Anodized Finish, Add	120.11	
		For >10 To 20, Deduct	-46.72	
		For >20 To 40, Deduct	-87.43	
		For >40, Deduct	-180.87	
26 56 13 00-0393	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,383.85	378.27
		For Bronze Or Satin Anodized Finish, Add	62.73	
		For Black Anodized Finish, Add	125.46	
		For >10 To 20, Deduct	-44.01	
		For >20 To 40, Deduct	-81.74	
		For >40, Deduct	-169.75	
26 56 13 00-0394	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,516.80	416.11
		For Bronze Or Satin Anodized Finish, Add	68.46	
		For Black Anodized Finish, Add	136.92	
		For >10 To 20, Deduct	-48.19	
		For >20 To 40, Deduct	-89.53	
		For >40, Deduct	-185.91	
26 56 13 00-0395	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,620.14	453.94
		For Bronze Or Satin Anodized Finish, Add	71.23	
		For Black Anodized Finish, Add	142.46	
		For >10 To 20, Deduct	-51.19	
		For >20 To 40, Deduct	-95.25	
		For >40, Deduct	-197.63	
26 56 13 00-0396	EA	23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,851.65	529.59
		For Bronze Or Satin Anodized Finish, Add	79.25	
		For Black Anodized Finish, Add	158.50	
		For >10 To 20, Deduct	-58.18	
		For >20 To 40, Deduct	-108.43	
		For >40, Deduct	-224.79	
26 56 13 00-0397	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,088.91	605.25
		For Bronze Or Satin Anodized Finish, Add	87.84	
		For Black Anodized Finish, Add	175.68	
		For >10 To 20, Deduct	-65.40	
		For >20 To 40, Deduct	-122.01	
		For >40, Deduct	-252.81	
26 56 13 00-0398	EA	23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,067.44	529.59
		For Bronze Or Satin Anodized Finish, Add	100.83	
		For Black Anodized Finish, Add	201.65	
		For >10 To 20, Deduct	-66.81	
		For >20 To 40, Deduct	-123.54	
		For >40, Deduct	-257.16	
26 56 13 00-0399	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,294.19	605.25
		For Bronze Or Satin Anodized Finish, Add	108.37	
		For Black Anodized Finish, Add	216.74	
		For >10 To 20, Deduct	-73.61	
		For >20 To 40, Deduct	-136.38	
		For >40, Deduct	-283.60	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0400	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,463.42	643.07
		For Bronze Or Satin Anodized Finish, Add	.....	117.73	
		For Black Anodized Finish, Add	.....	235.45	
		For >10 To 20, Deduct	.....	-79.24	
		For >20 To 40, Deduct	.....	-146.72	
		For >40, Deduct	.....	-305.21	
26 56 13 00-0401	EA	30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,616.41	680.90
		For Bronze Or Satin Anodized Finish, Add	.....	125.46	
		For Black Anodized Finish, Add	.....	250.92	
		For >10 To 20, Deduct	.....	-84.23	
		For >20 To 40, Deduct	.....	-155.91	
		For >40, Deduct	.....	-324.37	
26 56 13 00-0402	EA	33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,746.85	699.81
		For Bronze Or Satin Anodized Finish, Add	.....	134.72	
		For Black Anodized Finish, Add	.....	269.44	
		For >10 To 20, Deduct	.....	-88.88	
		For >20 To 40, Deduct	.....	-164.29	
		For >40, Deduct	.....	-342.05	
26 56 13 00-0403	EA	35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,862.01	718.73
		For Bronze Or Satin Anodized Finish, Add	.....	142.46	
		For Black Anodized Finish, Add	.....	284.91	
		For >10 To 20, Deduct	.....	-92.92	
		For >20 To 40, Deduct	.....	-171.59	
		For >40, Deduct	.....	-357.43	
26 56 13 00-0404	EA	37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,961.90	737.64
		For Bronze Or Satin Anodized Finish, Add	.....	148.66	
		For Black Anodized Finish, Add	.....	297.32	
		For >10 To 20, Deduct	.....	-96.35	
		For >20 To 40, Deduct	.....	-177.83	
		For >40, Deduct	.....	-370.52	
26 56 13 00-0405	EA	39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	3,133.41	756.55
		For Bronze Or Satin Anodized Finish, Add	.....	162.03	
		For Black Anodized Finish, Add	.....	324.06	
		For >10 To 20, Deduct	.....	-102.64	
		For >20 To 40, Deduct	.....	-189.08	
		For >40, Deduct	.....	-394.36	
26 56 13 00-0406	EA	28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,875.89	643.07
		For Bronze Or Satin Anodized Finish, Add	.....	158.97	
		For Black Anodized Finish, Add	.....	317.95	
		For >10 To 20, Deduct	.....	-95.74	
		For >20 To 40, Deduct	.....	-175.59	
		For >40, Deduct	.....	-367.08	
26 56 13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	3,093.81	680.90
		For Bronze Or Satin Anodized Finish, Add	.....	173.20	
		For Black Anodized Finish, Add	.....	346.40	
		For >10 To 20, Deduct	.....	-103.33	
		For >20 To 40, Deduct	.....	-189.33	
		For >40, Deduct	.....	-395.98	
26 56 13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	3,243.35	699.81
		For Bronze Or Satin Anodized Finish, Add	.....	184.37	
		For Black Anodized Finish, Add	.....	368.74	
		For >10 To 20, Deduct	.....	-108.74	
		For >20 To 40, Deduct	.....	-199.04	
		For >40, Deduct	.....	-416.52	
26 56 13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	3,359.46	718.73
		For Bronze Or Satin Anodized Finish, Add	.....	192.20	
		For Black Anodized Finish, Add	.....	384.40	
		For >10 To 20, Deduct	.....	-112.82	
		For >20 To 40, Deduct	.....	-206.41	
		For >40, Deduct	.....	-432.05	
26 56 13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	3,428.80	737.64
		For Bronze Or Satin Anodized Finish, Add	.....	195.35	
		For Black Anodized Finish, Add	.....	390.70	
		For >10 To 20, Deduct	.....	-115.02	
		For >20 To 40, Deduct	.....	-210.51	
		For >40, Deduct	.....	-440.56	
26 56 13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	3,616.53	756.55
		For Bronze Or Satin Anodized Finish, Add	.....	210.34	
		For Black Anodized Finish, Add	.....	420.68	
		For >10 To 20, Deduct	.....	-121.96	
		For >20 To 40, Deduct	.....	-222.89	
		For >40, Deduct	.....	-466.82	
26 56 13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,745.08	643.07
		For Bronze Or Satin Anodized Finish, Add	.....	145.89	
		For Black Anodized Finish, Add	.....	291.79	
		For >10 To 20, Deduct	.....	-90.51	
		For >20 To 40, Deduct	.....	-166.43	
		For >40, Deduct	.....	-347.45	
26 56 13 00-0413	EA	30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,945.81	680.90
		For Bronze Or Satin Anodized Finish, Add	.....	158.40	
		For Black Anodized Finish, Add	.....	316.80	
		For >10 To 20, Deduct	.....	-97.41	
		For >20 To 40, Deduct	.....	-178.97	
		For >40, Deduct	.....	-373.78	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0414	EA	33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,026.61	699.81
		For Bronze Or Satin Anodized Finish, Add	162.70	
		For Black Anodized Finish, Add	325.40	
		For >10 To 20, Deduct	-100.07	
		For >20 To 40, Deduct	-183.87	
		For >40, Deduct	-384.01	
26 56 13 00-0415	EA	35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,217.20	718.73
		For Bronze Or Satin Anodized Finish, Add	177.98	
		For Black Anodized Finish, Add	355.95	
		For >10 To 20, Deduct	-107.13	
		For >20 To 40, Deduct	-196.46	
		For >40, Deduct	-410.71	
26 56 13 00-0416	EA	37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,316.13	737.64
		For Bronze Or Satin Anodized Finish, Add	184.09	
		For Black Anodized Finish, Add	368.17	
		For >10 To 20, Deduct	-110.52	
		For >20 To 40, Deduct	-202.62	
		For >40, Deduct	-423.66	
26 56 13 00-0417	EA	39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,504.82	756.55
		For Bronze Or Satin Anodized Finish, Add	199.17	
		For Black Anodized Finish, Add	398.34	
		For >10 To 20, Deduct	-117.50	
		For >20 To 40, Deduct	-215.08	
		For >40, Deduct	-450.07	
26 56 13 00-0418	EA	28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,342.79	643.07
		For Bronze Or Satin Anodized Finish, Add	205.66	
		For Black Anodized Finish, Add	411.33	
		For >10 To 20, Deduct	-114.42	
		For >20 To 40, Deduct	-208.27	
		For >40, Deduct	-437.11	
26 56 13 00-0419	EA	30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,534.92	680.90
		For Bronze Or Satin Anodized Finish, Add	217.31	
		For Black Anodized Finish, Add	434.62	
		For >10 To 20, Deduct	-120.97	
		For >20 To 40, Deduct	-220.21	
		For >40, Deduct	-462.15	
26 56 13 00-0420	EA	33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,686.38	699.81
		For Bronze Or Satin Anodized Finish, Add	228.68	
		For Black Anodized Finish, Add	457.35	
		For >10 To 20, Deduct	-126.46	
		For >20 To 40, Deduct	-230.05	
		For >40, Deduct	-482.98	
26 56 13 00-0421	EA	35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,915.16	718.73
		For Bronze Or Satin Anodized Finish, Add	247.77	
		For Black Anodized Finish, Add	495.54	
		For >10 To 20, Deduct	-135.04	
		For >20 To 40, Deduct	-245.31	
		For >40, Deduct	-515.40	
26 56 13 00-0422	EA	37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,973.99	737.64
		For Bronze Or Satin Anodized Finish, Add	249.87	
		For Black Anodized Finish, Add	499.74	
		For >10 To 20, Deduct	-136.83	
		For >20 To 40, Deduct	-248.67	
		For >40, Deduct	-522.33	
26 56 13 00-0423	EA	39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,201.83	756.55
		For Bronze Or Satin Anodized Finish, Add	268.87	
		For Black Anodized Finish, Add	537.74	
		For >10 To 20, Deduct	-145.38	
		For >20 To 40, Deduct	-263.87	
		For >40, Deduct	-554.62	
26 56 13 00-0424	EA	48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,400.45	1,134.83
		For Bronze Or Satin Anodized Finish, Add	313.08	
		For Black Anodized Finish, Add	626.16	
		For >10 To 20, Deduct	-181.97	
		For >20 To 40, Deduct	-332.64	
		For >40, Deduct	-696.58	
26 56 13 00-0425	EA	50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,518.84	1,134.83
		For Bronze Or Satin Anodized Finish, Add	324.92	
		For Black Anodized Finish, Add	649.84	
		For >10 To 20, Deduct	-186.71	
		For >20 To 40, Deduct	-340.93	
		For >40, Deduct	-714.34	
26 56 13 00-0426		Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)		
26 56 13 00-0427	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	929.43	226.96
		For Bronze, Satin Or Black Anodized Finish, Add	71.32	
		For >10 To 20, Deduct	-30.37	
		For >20 To 40, Deduct	-55.98	
		For >40, Deduct	-116.72	
26 56 13 00-0428	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,025.13	264.79
		For Bronze, Satin Or Black Anodized Finish, Add	74.33	
		For >10 To 20, Deduct	-33.06	
		For >20 To 40, Deduct	-61.17	
		For >40, Deduct	-127.29	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0429	EA	12'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,121.80 77.48 -35.79 -66.42 -138.01	302.62
26 56 13 00-0430	EA	14'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,220.36 80.92 -38.60 -71.81 -149.01	340.44
26 56 13 00-0431	EA	16'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,317.97 84.21 -41.37 -77.13 -159.87	378.27
26 56 13 00-0432	EA	10'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,036.59 76.05 -33.52 -61.97 -129.01	264.79
26 56 13 00-0433	EA	12'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,135.16 79.49 -36.33 -67.36 -140.01	302.62
26 56 13 00-0434	EA	14'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,235.64 83.21 -39.21 -72.88 -151.30	340.44
26 56 13 00-0435	EA	16'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,335.16 86.79 -42.06 -78.33 -162.45	378.27
26 56 13 00-0436	EA	18'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,447.10 92.23 -45.40 -84.65 -175.45	416.11
26 56 13 00-0437	EA	20'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,550.44 96.39 -48.40 -90.37 -187.17	453.94
26 56 13 00-0438	EA	12'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,172.40 85.07 -37.82 -69.96 -145.60	302.62
26 56 13 00-0439	EA	14'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,277.65 89.51 -40.89 -75.82 -157.60	340.44
26 56 13 00-0440	EA	16'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,394.36 95.67 -44.43 -82.47 -171.33	378.27
26 56 13 00-0441	EA	18'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,501.52 100.40 -47.58 -88.46 -183.62	416.11
26 56 13 00-0442	EA	20'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,621.10 106.99 -51.23 -95.32 -197.77	453.94
26 56 13 00-0443	EA	16'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,448.78 103.83 -46.60 -86.28 -179.49	378.27
26 56 13 00-0444	EA	18'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,575.04 111.42 -50.52 -93.61 -194.65	416.11
26 56 13 00-0445	EA	20'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,680.29 115.86 -53.59 -99.46 -206.65	453.94

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0446	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	.....	1,202.00	302.62
		For Bronze, Satin Or Black Anodized Finish, Add	.....	89.51	
		For >10 To 20, Deduct	.....	-39.00	
		For >20 To 40, Deduct	.....	-72.04	
		For >40, Deduct	.....	-150.04	
26 56 13 00-0447	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	.....	1,322.53	340.44
		For Bronze, Satin Or Black Anodized Finish, Add	.....	96.24	
		For >10 To 20, Deduct	.....	-42.69	
		For >20 To 40, Deduct	.....	-78.96	
		For >40, Deduct	.....	-164.33	
26 56 13 00-0448	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	.....	1,448.78	378.27
		For Bronze, Satin Or Black Anodized Finish, Add	.....	103.83	
		For >10 To 20, Deduct	.....	-46.60	
		For >20 To 40, Deduct	.....	-86.28	
		For >40, Deduct	.....	-179.49	
26 56 13 00-0449	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	.....	1,563.59	416.11
		For Bronze, Satin Or Black Anodized Finish, Add	.....	109.71	
		For >10 To 20, Deduct	.....	-50.06	
		For >20 To 40, Deduct	.....	-92.81	
		For >40, Deduct	.....	-192.93	
26 56 13 00-0450	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	.....	1,685.07	453.94
		For Bronze, Satin Or Black Anodized Finish, Add	.....	116.58	
		For >10 To 20, Deduct	.....	-53.78	
		For >20 To 40, Deduct	.....	-99.80	
		For >40, Deduct	.....	-207.37	
26 56 13 00-0451	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	.....	1,510.84	378.27
		For Bronze, Satin Or Black Anodized Finish, Add	.....	113.14	
		For >10 To 20, Deduct	.....	-49.09	
		For >20 To 40, Deduct	.....	-90.63	
		For >40, Deduct	.....	-188.80	
26 56 13 00-0452	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	.....	1,644.74	416.11
		For Bronze, Satin Or Black Anodized Finish, Add	.....	121.88	
		For >10 To 20, Deduct	.....	-53.31	
		For >20 To 40, Deduct	.....	-98.49	
		For >40, Deduct	.....	-205.10	
26 56 13 00-0453	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	.....	1,754.77	453.94
		For Bronze, Satin Or Black Anodized Finish, Add	.....	127.04	
		For >10 To 20, Deduct	.....	-56.57	
		For >20 To 40, Deduct	.....	-104.68	
		For >40, Deduct	.....	-217.82	
26 56 13 00-0454 Round Tapered, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0354)					
Note: Includes rubberized undercoating on embedded portion.					
26 56 13 00-0455	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	660.89	189.14
		For Bronze Or Satin Anodized Finish, Add	.....	28.26	
		For Black Anodized Finish, Add	.....	56.52	
		For >10 To 20, Deduct	.....	-20.76	
		For >20 To 40, Deduct	.....	-38.70	
		For >40, Deduct	.....	-80.22	
26 56 13 00-0456	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	687.63	189.14
		For Bronze Or Satin Anodized Finish, Add	.....	30.94	
		For Black Anodized Finish, Add	.....	61.87	
		For >10 To 20, Deduct	.....	-21.83	
		For >20 To 40, Deduct	.....	-40.57	
		For >40, Deduct	.....	-84.23	
26 56 13 00-0457	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	747.43	208.05
		For Bronze Or Satin Anodized Finish, Add	.....	33.13	
		For Black Anodized Finish, Add	.....	66.26	
		For >10 To 20, Deduct	.....	-23.66	
		For >20 To 40, Deduct	.....	-44.00	
		For >40, Deduct	.....	-91.31	
26 56 13 00-0458	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	800.53	226.96
		For Bronze Or Satin Anodized Finish, Add	.....	34.66	
		For Black Anodized Finish, Add	.....	69.32	
		For >10 To 20, Deduct	.....	-25.21	
		For >20 To 40, Deduct	.....	-46.96	
		For >40, Deduct	.....	-97.38	
26 56 13 00-0459	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	834.91	226.96
		For Bronze Or Satin Anodized Finish, Add	.....	38.10	
		For Black Anodized Finish, Add	.....	76.19	
		For >10 To 20, Deduct	.....	-26.59	
		For >20 To 40, Deduct	.....	-49.36	
		For >40, Deduct	.....	-102.54	
26 56 13 00-0460	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	773.21	208.05
		For Bronze Or Satin Anodized Finish, Add	.....	35.71	
		For Black Anodized Finish, Add	.....	71.42	
		For >10 To 20, Deduct	.....	-24.69	
		For >20 To 40, Deduct	.....	-45.80	
		For >40, Deduct	.....	-95.18	
26 56 13 00-0461	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	837.77	226.96
		For Bronze Or Satin Anodized Finish, Add	.....	38.38	
		For Black Anodized Finish, Add	.....	76.77	
		For >10 To 20, Deduct	.....	-26.70	
		For >20 To 40, Deduct	.....	-49.57	
		For >40, Deduct	.....	-102.97	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0462	EA	16'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	856.87 40.29 80.59 -27.47 -50.90 -105.83	226.96
26 56 13 00-0463	EA	18'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	925.24 43.35 86.70 -29.63 -54.93 -114.20	245.88
26 56 13 00-0464	EA	20'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	989.80 46.02 92.04 -31.65 -58.69 -121.99	264.79
26 56 13 00-0465	EA	16'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	912.24 45.83 91.66 -29.68 -54.78 -114.14	226.96
26 56 13 00-0466	EA	18'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	986.35 49.46 98.92 -32.08 -59.21 -123.36	245.88
26 56 13 00-0467	EA	20'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,055.68 52.61 105.22 -34.28 -63.31 -131.87	264.79
26 56 13 00-0468	EA	18'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,064.64 57.29 114.58 -35.21 -64.69 -135.11	245.88
26 56 13 00-0469	EA	25'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,356.68 75.14 150.29 -45.19 -82.86 -173.24	302.62
26 56 13 00-0470	EA	25'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,464.57 85.93 171.86 -49.50 -90.41 -189.42	302.62
26 56 13 00-0471	EA	30'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,632.84 95.19 190.39 -55.10 -100.68 -210.88	340.44
26 56 13 00-0472	EA	30'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,750.28 106.94 213.88 -59.80 -108.90 -228.50	340.44
26 56 13 00-0473	Square Straight, Aluminum Area Light Poles (26 56 13 00-0294)				
26 56 13 00-0474	Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0473)				
26 56 13 00-0475	EA	8'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	848.27 39.43 78.87 -27.12 -50.30 -104.54	226.96
26 56 13 00-0476	EA	10'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	943.97 41.44 82.88 -29.81 -55.49 -115.12	264.79

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0477	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,047.32	302.62
		For Bronze Or Satin Anodized Finish, Add	44.21	
		For Black Anodized Finish, Add	88.41	
		For >10 To 20, Deduct	-32.81	
		For >20 To 40, Deduct	-61.21	
		For >40, Deduct	-126.84	
26 56 13 00-0478	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,149.71	340.44
		For Bronze Or Satin Anodized Finish, Add	46.88	
		For Black Anodized Finish, Add	93.76	
		For >10 To 20, Deduct	-35.77	
		For >20 To 40, Deduct	-66.86	
		For >40, Deduct	-138.41	
26 56 13 00-0479	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,204.72	359.36
		For Bronze Or Satin Anodized Finish, Add	48.60	
		For Black Anodized Finish, Add	97.20	
		For >10 To 20, Deduct	-37.41	
		For >20 To 40, Deduct	-69.96	
		For >40, Deduct	-144.77	
26 56 13 00-0480	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,259.73	378.27
		For Bronze Or Satin Anodized Finish, Add	50.32	
		For Black Anodized Finish, Add	100.64	
		For >10 To 20, Deduct	-39.04	
		For >20 To 40, Deduct	-73.05	
		For >40, Deduct	-151.13	
26 56 13 00-0481	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,367.85	416.11
		For Bronze Or Satin Anodized Finish, Add	53.56	
		For Black Anodized Finish, Add	107.13	
		For >10 To 20, Deduct	-42.23	
		For >20 To 40, Deduct	-79.11	
		For >40, Deduct	-163.57	
26 56 13 00-0482	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,484.56	453.94
		For Bronze Or Satin Anodized Finish, Add	57.67	
		For Black Anodized Finish, Add	115.34	
		For >10 To 20, Deduct	-45.76	
		For >20 To 40, Deduct	-85.76	
		For >40, Deduct	-177.29	
26 56 13 00-0483	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,325.61	378.27
		For Bronze Or Satin Anodized Finish, Add	56.91	
		For Black Anodized Finish, Add	113.81	
		For >10 To 20, Deduct	-41.68	
		For >20 To 40, Deduct	-77.66	
		For >40, Deduct	-161.01	
26 56 13 00-0484	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,435.64	416.11
		For Bronze Or Satin Anodized Finish, Add	60.34	
		For Black Anodized Finish, Add	120.69	
		For >10 To 20, Deduct	-44.94	
		For >20 To 40, Deduct	-83.85	
		For >40, Deduct	-173.74	
26 56 13 00-0485	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,558.08	453.94
		For Bronze Or Satin Anodized Finish, Add	65.02	
		For Black Anodized Finish, Add	130.04	
		For >10 To 20, Deduct	-48.71	
		For >20 To 40, Deduct	-90.91	
		For >40, Deduct	-188.32	
26 56 13 00-0486	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,491.16	359.36
		For Bronze Or Satin Anodized Finish, Add	77.24	
		For Black Anodized Finish, Add	154.49	
		For >10 To 20, Deduct	-48.87	
		For >20 To 40, Deduct	-90.01	
		For >40, Deduct	-187.74	
26 56 13 00-0487	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,832.11	453.94
		For Bronze Or Satin Anodized Finish, Add	92.43	
		For Black Anodized Finish, Add	184.85	
		For >10 To 20, Deduct	-59.67	
		For >20 To 40, Deduct	-110.09	
		For >40, Deduct	-229.42	
26 56 13 00-0488	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	2,254.09	605.25
		For Bronze Or Satin Anodized Finish, Add	104.36	
		For Black Anodized Finish, Add	208.72	
		For >10 To 20, Deduct	-72.01	
		For >20 To 40, Deduct	-133.58	
		For >40, Deduct	-277.59	
26 56 13 00-0489	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,617.28	453.94
		For Bronze Or Satin Anodized Finish, Add	70.94	
		For Black Anodized Finish, Add	141.88	
		For >10 To 20, Deduct	-51.07	
		For >20 To 40, Deduct	-95.05	
		For >40, Deduct	-197.20	
26 56 13 00-0490	EA	20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,947.64	453.94
		For Bronze Or Satin Anodized Finish, Add	103.98	
		For Black Anodized Finish, Add	207.96	
		For >10 To 20, Deduct	-64.29	
		For >20 To 40, Deduct	-118.18	
		For >40, Deduct	-246.75	



	Electrical	26	
	Lighting	26 50	26
	Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0491 EA 25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,359.11 114.86 229.72 -76.21 -140.93 -293.34	605.25
26 56 13 00-0492 EA 20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,129.05 122.12 244.24 -71.54 -130.88 -273.96	453.94
26 56 13 00-0493 EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,595.90 138.54 277.08 -85.68 -157.50 -328.86	605.25
26 56 13 00-0494 EA 30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,993.55 163.18 326.35 -99.32 -182.31 -380.94	680.90
26 56 13 00-0495 Square Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0473) Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0496 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	754.46 37.62 75.24 -24.50 -45.25 -94.26	189.14
26 56 13 00-0497 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	841.00 42.49 84.98 -27.40 -50.55 -105.34	208.05
26 56 13 00-0498 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	898.88 44.49 88.99 -29.15 -53.84 -112.14	226.96
26 56 13 00-0499 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	922.75 46.88 93.76 -30.10 -55.51 -115.72	226.96
26 56 13 00-0500 EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	952.35 49.84 99.68 -31.28 -57.59 -120.16	226.96
26 56 13 00-0501 EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,091.37 59.96 119.92 -36.28 -66.56 -139.12	245.88
26 56 13 00-0502 EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,170.26 64.07 128.13 -38.87 -71.33 -149.06	264.79
26 56 13 00-0503 EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,320.16 79.06 158.11 -44.86 -81.82 -171.54	264.79
26 56 13 00-0504 EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,516.13 91.09 182.18 -51.57 -94.02 -197.16	302.62

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0505	EA	25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,851.26 124.60 249.20 -64.97 -117.48 -247.43	302.62
26 56 13 00-0506		Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0507	EA	1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	68.88	
26 56 13 00-0508	EA	Extra Handhole For Aluminum Area Light Poles.....	35.59	
26 56 13 00-0509	EA	Vibration Dampener For Aluminum Area Light Poles.....	104.20	
26 56 13 00-0510		Fiberglass Area Light Poles (26 56 13 00-0177) Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56 13 00-0511		Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0512		Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0511)		
26 56 13 00-0513	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,483.23 -51.39 -93.23 -196.01	264.79
26 56 13 00-0514	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,615.66 -55.55 -100.99 -212.09	302.62
26 56 13 00-0515	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,749.69 -59.77 -108.86 -228.41	340.44
26 56 13 00-0516	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,882.11 -63.94 -116.62 -244.49	378.27
26 56 13 00-0517	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,043.72 -69.27 -126.42 -264.95	416.11
26 56 13 00-0518	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,179.38 -73.56 -134.40 -281.51	453.94
26 56 13 00-0519	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,389.08 -79.68 -146.05 -305.40	529.59
26 56 13 00-0520	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,597.16 -85.73 -157.59 -329.05	605.25
26 56 13 00-0521	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,728.53 -90.98 -166.79 -348.76	605.25
26 56 13 00-0522	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,919.34 -97.48 -178.63 -373.59	643.07
26 56 13 00-0523	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,110.14 -103.98 -190.47 -398.43	680.90
26 56 13 00-0524	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,632.44 -57.35 -103.68 -218.39	264.79
26 56 13 00-0525	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,735.67 -60.35 -109.39 -230.09	302.62
26 56 13 00-0526	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,840.52 -63.41 -115.22 -242.03	340.44
26 56 13 00-0527	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,948.60 -66.60 -121.27 -254.46	378.27
26 56 13 00-0528	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,064.81 -70.11 -127.89 -268.11	416.11



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0529	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,179.38	453.94
		For >10 To 20, Deduct	-73.56	
		For >20 To 40, Deduct	-134.40	
		For >40, Deduct	-281.51	
26 56 13 00-0530	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,369.62	529.59
		For >10 To 20, Deduct	-78.90	
		For >20 To 40, Deduct	-144.69	
		For >40, Deduct	-302.48	
26 56 13 00-0531	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,597.16	605.25
		For >10 To 20, Deduct	-85.73	
		For >20 To 40, Deduct	-157.59	
		For >40, Deduct	-329.05	
26 56 13 00-0532	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,652.31	605.25
		For >10 To 20, Deduct	-87.94	
		For >20 To 40, Deduct	-161.45	
		For >40, Deduct	-337.32	
26 56 13 00-0533	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,784.73	643.07
		For >10 To 20, Deduct	-92.10	
		For >20 To 40, Deduct	-169.21	
		For >40, Deduct	-353.40	
26 56 13 00-0534	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,917.14	680.90
		For >10 To 20, Deduct	-96.26	
		For >20 To 40, Deduct	-176.96	
		For >40, Deduct	-369.48	
26 56 13 00-0535	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,851.39	264.79
		For >10 To 20, Deduct	-66.11	
		For >20 To 40, Deduct	-119.01	
		For >40, Deduct	-251.23	
26 56 13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,977.33	302.62
		For >10 To 20, Deduct	-70.01	
		For >20 To 40, Deduct	-126.31	
		For >40, Deduct	-266.34	
26 56 13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,103.25	340.44
		For >10 To 20, Deduct	-73.92	
		For >20 To 40, Deduct	-133.61	
		For >40, Deduct	-281.44	
26 56 13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,230.80	378.27
		For >10 To 20, Deduct	-77.88	
		For >20 To 40, Deduct	-141.03	
		For >40, Deduct	-296.79	
26 56 13 00-0539	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,364.85	416.11
		For >10 To 20, Deduct	-82.11	
		For >20 To 40, Deduct	-148.90	
		For >40, Deduct	-313.12	
26 56 13 00-0540	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,508.62	453.94
		For >10 To 20, Deduct	-86.73	
		For >20 To 40, Deduct	-157.45	
		For >40, Deduct	-330.90	
26 56 13 00-0541	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,742.64	529.59
		For >10 To 20, Deduct	-93.82	
		For >20 To 40, Deduct	-170.80	
		For >40, Deduct	-358.44	
26 56 13 00-0542	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,978.30	605.25
		For >10 To 20, Deduct	-100.97	
		For >20 To 40, Deduct	-184.27	
		For >40, Deduct	-386.22	
26 56 13 00-0543	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,062.63	605.25
		For >10 To 20, Deduct	-104.35	
		For >20 To 40, Deduct	-190.17	
		For >40, Deduct	-398.87	
26 56 13 00-0544	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,271.28	643.07
		For >10 To 20, Deduct	-111.56	
		For >20 To 40, Deduct	-203.27	
		For >40, Deduct	-426.38	
26 56 13 00-0545	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,442.62	680.90
		For >10 To 20, Deduct	-117.28	
		For >20 To 40, Deduct	-213.75	
		For >40, Deduct	-448.30	
26 56 13 00-0546	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,576.14	699.81
		For >10 To 20, Deduct	-122.05	
		For >20 To 40, Deduct	-222.34	
		For >40, Deduct	-466.44	
26 56 13 00-0547	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,709.65	718.73
		For >10 To 20, Deduct	-126.82	
		For >20 To 40, Deduct	-230.93	
		For >40, Deduct	-484.58	
26 56 13 00-0548		Round Tapered, Fiberglass Area Light Poles, Direct Burial (26 56 13 00-0511)		
26 56 13 00-0549	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	923.21	189.14
		For >10 To 20, Deduct	-31.25	
		For >20 To 40, Deduct	-57.06	
		For >40, Deduct	-119.57	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	991.86	208.05
		For >10 To 20, Deduct	-33.43	
		For >20 To 40, Deduct	-61.11	
		For >40, Deduct	-127.97	
26 56 13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,058.89	226.96
		For >10 To 20, Deduct	-35.55	
		For >20 To 40, Deduct	-65.04	
		For >40, Deduct	-136.14	
26 56 13 00-0552	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,086.46	226.96
		For >10 To 20, Deduct	-36.65	
		For >20 To 40, Deduct	-66.97	
		For >40, Deduct	-140.27	
26 56 13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,169.69	245.88
		For >10 To 20, Deduct	-39.41	
		For >20 To 40, Deduct	-72.04	
		For >40, Deduct	-150.87	
26 56 13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,239.96	264.79
		For >10 To 20, Deduct	-41.65	
		For >20 To 40, Deduct	-76.21	
		For >40, Deduct	-159.51	
26 56 13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,315.09	283.71
		For >10 To 20, Deduct	-44.09	
		For >20 To 40, Deduct	-80.71	
		For >40, Deduct	-168.89	
26 56 13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,398.33	302.62
		For >10 To 20, Deduct	-46.85	
		For >20 To 40, Deduct	-85.78	
		For >40, Deduct	-179.49	
26 56 13 00-0557	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,554.03	302.62
		For >10 To 20, Deduct	-53.08	
		For >20 To 40, Deduct	-96.68	
		For >40, Deduct	-202.84	
26 56 13 00-0558	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,747.54	321.54
		For >10 To 20, Deduct	-60.26	
		For >20 To 40, Deduct	-109.47	
		For >40, Deduct	-229.98	
26 56 13 00-0559	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,941.07	340.44
		For >10 To 20, Deduct	-67.43	
		For >20 To 40, Deduct	-122.26	
		For >40, Deduct	-257.12	
26 56 13 00-0560	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,072.42	189.14
		For >10 To 20, Deduct	-37.22	
		For >20 To 40, Deduct	-67.50	
		For >40, Deduct	-141.95	
26 56 13 00-0561	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,149.18	208.05
		For >10 To 20, Deduct	-39.73	
		For >20 To 40, Deduct	-72.12	
		For >40, Deduct	-151.57	
26 56 13 00-0562	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,225.94	226.96
		For >10 To 20, Deduct	-42.23	
		For >20 To 40, Deduct	-76.74	
		For >40, Deduct	-161.19	
26 56 13 00-0563	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,266.48	226.96
		For >10 To 20, Deduct	-43.85	
		For >20 To 40, Deduct	-79.57	
		For >40, Deduct	-167.28	
26 56 13 00-0564	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,343.23	245.88
		For >10 To 20, Deduct	-46.35	
		For >20 To 40, Deduct	-84.19	
		For >40, Deduct	-176.90	
26 56 13 00-0565	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,419.98	264.79
		For >10 To 20, Deduct	-48.86	
		For >20 To 40, Deduct	-88.81	
		For >40, Deduct	-186.52	
26 56 13 00-0566	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,496.73	283.71
		For >10 To 20, Deduct	-51.36	
		For >20 To 40, Deduct	-93.42	
		For >40, Deduct	-196.14	
26 56 13 00-0567	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,610.79	302.62
		For >10 To 20, Deduct	-55.35	
		For >20 To 40, Deduct	-100.65	
		For >40, Deduct	-211.36	
26 56 13 00-0568	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,761.62	302.62
		For >10 To 20, Deduct	-61.39	
		For >20 To 40, Deduct	-111.21	
		For >40, Deduct	-233.98	
26 56 13 00-0569	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,951.89	321.54
		For >10 To 20, Deduct	-68.43	
		For >20 To 40, Deduct	-123.77	
		For >40, Deduct	-260.63	
26 56 13 00-0570	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,140.56	340.44
		For >10 To 20, Deduct	-75.41	
		For >20 To 40, Deduct	-136.22	
		For >40, Deduct	-287.04	



		Electrical	26	26
		Lighting	26 50	
		Exterior Lighting	26 56	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 56 13 00-0571	EA 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,203.79 -42.48 -76.70 -161.66		189.14
26 56 13 00-0572	EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,270.82 -44.59 -80.64 -169.82		208.05
26 56 13 00-0573	EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,336.22 -46.64 -84.46 -177.74		226.96
26 56 13 00-0574	EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,363.79 -47.74 -86.39 -181.87		226.96
26 56 13 00-0575	EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,429.18 -49.79 -90.21 -189.79		245.88
26 56 13 00-0576	EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,496.21 -51.90 -94.14 -197.95		264.79
26 56 13 00-0577	EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,618.37 -56.22 -101.94 -214.38		283.71
26 56 13 00-0578	EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,760.00 -61.32 -111.10 -233.74		302.62
26 56 13 00-0579	EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,854.07 -65.08 -117.68 -247.85		302.62
26 56 13 00-0580	EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,987.58 -69.86 -126.27 -265.98		321.54
26 56 13 00-0581	EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,121.09 -74.63 -134.86 -284.12		340.44
26 56 13 00-0582	Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)			
26 56 13 00-0583	EA Open Or Capped Top For Fiberglass Area Light Poles	57.50		
26 56 13 00-0584	EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	57.50		
26 56 13 00-0585	EA Smooth Shaft Finish For Fiberglass Area Light Poles	109.11		
26 56 13 00-0586	EA Vibration Dampener For Fiberglass Area Light Poles.....	144.49		
26 56 13 00-0587	Concrete Area Light Poles (26 56 13 00-0177)			
26 56 13 00-0588	Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)			
26 56 13 00-0589	EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,729.48		643.07
26 56 13 00-0590	EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,877.30		680.90
26 56 13 00-0591	EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,985.62		699.81
26 56 13 00-0592	EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	3,734.69		718.73
26 56 13 00-0593	EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	4,154.93		756.55
26 56 13 00-0594	EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	5,135.68		983.52
26 56 13 00-0595	EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	6,147.76		1,210.49
26 56 13 00-0596	EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	6,038.09		643.07
	Note: Polished brown with acrylic coating finish.			
26 56 13 00-0597	EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	6,977.75		680.90
	Note: Polished brown with acrylic coating finish.			
26 56 13 00-0598	EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'	664.48		226.96
26 56 13 00-0599	EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	3,621.26		453.78
26 56 13 00-0600	EA Pole Base Cover For All Octagon Poles	258.63		92.60
26 56 13 00-0601	EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	528.67		185.21
26 56 13 00-0602	Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)			
	Note: Round or square.			
26 56 13 00-0603	EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,989.46		302.62
26 56 13 00-0604	EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,372.64		378.27
26 56 13 00-0605	EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,718.80		453.94
26 56 13 00-0606	EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,174.51		680.90
26 56 13 00-0607	EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,976.82		718.73
26 56 13 00-0608	EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	6,844.80		756.55
26 56 13 00-0609	EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	7,918.99		983.52



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0610	Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)			
26 56 13 00-0611	EA	60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	15,842.42	1,702.24
26 56 13 00-0612	EA	70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	18,830.25	2,073.75
26 56 13 00-0613	EA	80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	22,397.53	2,801.38
26 56 13 00-0614	Treated Wood Area Light Poles (26 56 13 00-0177) See CSI section 26 05 46 00-0001 for wood poles.			
26 56 13 00-0615	Cast Iron Decorative Light Posts (26 56 13 00-0177)			
26 56 13 00-0616	Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615) Note: As manufactured by Hadco and King Luminaries or an approved equal.			
26 56 13 00-0617	EA	10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,358.02	189.14
26 56 13 00-0618	EA	12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,441.54	217.88
26 56 13 00-0619	EA	14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,558.47	226.96
26 56 13 00-0620	EA	16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,907.64	264.79
26 56 13 00-0621	EA	18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,216.96	287.49
26 56 13 00-0622	EA	20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,540.66	310.19
26 56 13 00-0623	Landscape Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.			
26 56 13 00-0624	Aluminum Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.			
26 56 13 00-0625	Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)			
26 56 13 00-0626	Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)			
26 56 13 00-0627	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base	538.91	226.96
26 56 13 00-0628	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base	874.16	302.62
26 56 13 00-0629	Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)			
26 56 13 00-0630	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial	498.92	226.96
26 56 13 00-0631	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial	834.17	302.62
26 56 13 00-0632	Steel Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.			
26 56 13 00-0633	Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)			
26 56 13 00-0634	Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)			
26 56 13 00-0635	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base	571.53	226.96
26 56 13 00-0636	Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)			
26 56 13 00-0637	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial	545.19	226.96
26 56 13 00-0638	Light Pole Brackets And Arms (26 56 13 00-0001)			
26 56 13 00-0639	Light Pole Brackets (26 56 13 00-0638)			
26 56 13 00-0640	Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)			
26 56 13 00-0641	Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)			
26 56 13 00-0642	Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes powdercoat finish.			
26 56 13 00-0643	EA	Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	562.36	45.39
		For Galvanized Finish, Add	47.16	
26 56 13 00-0644	EA	Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	704.64	45.39
		For Galvanized Finish, Add	61.39	
26 56 13 00-0645	EA	Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	748.07	45.39
		For Galvanized Finish, Add	65.73	
26 56 13 00-0646	EA	Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	1,016.15	45.39
		For Galvanized Finish, Add	92.54	
26 56 13 00-0647	EA	Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	1,057.90	45.39
		For Galvanized Finish, Add	96.71	
26 56 13 00-0648	Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes satin brushed or painted finish.			
26 56 13 00-0649	EA	Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	246.42	45.39
		For Bronze Or Satin Anodized Finish, Add	15.56	
		For Black Anodized Finish, Add	31.13	
26 56 13 00-0650	EA	Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	296.07	45.39
		For Bronze Or Satin Anodized Finish, Add	20.53	
		For Black Anodized Finish, Add	41.06	
26 56 13 00-0651	EA	Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	309.44	45.39
		For Bronze Or Satin Anodized Finish, Add	21.87	
		For Black Anodized Finish, Add	43.73	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0652	EA		Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	356.22 26.54 53.09	45.39
26 56 13 00-0653	EA		Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	365.77 27.50 55.00	45.39
26 56 13 00-0654			Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0655			Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654) Note: Includes powdercoat finish.		
26 56 13 00-0656	EA		Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	602.99 51.22	45.39
26 56 13 00-0657	EA		Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket <i>For Galvanized Finish, Add</i>	739.27 64.85	45.39
26 56 13 00-0658	EA		Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket <i>For Galvanized Finish, Add</i>	899.34 80.86	45.39
26 56 13 00-0659	EA		Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket <i>For Galvanized Finish, Add</i>	1,060.15 96.94	45.39
26 56 13 00-0660			Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0661			Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660) Note: Includes powdercoat finish.		
26 56 13 00-0662	EA		One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	587.50	75.65
26 56 13 00-0663	EA		Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	866.44	75.65
26 56 13 00-0664	EA		Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,196.48	75.65
26 56 13 00-0665	EA		Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,305.06	75.65
26 56 13 00-0666			Light Pole Arms (26 56 13 00-0638)		
26 56 13 00-0667			Wood Pole Streetlight Arms (26 56 13 00-0666)		
26 56 13 00-0668			Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0669	EA		1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	353.71	68.09
26 56 13 00-0670	EA		1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	376.15	75.65
26 56 13 00-0671	EA		1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	439.62	94.57
26 56 13 00-0672	EA		2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	509.81	75.65
26 56 13 00-0673	EA		2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	572.91	94.57
26 56 13 00-0674	EA		2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	694.79	113.48
26 56 13 00-0675			Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676	EA		1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	258.22	75.65
26 56 13 00-0677	EA		2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	313.06	75.65
26 56 13 00-0678	EA		2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	416.03	94.57
26 56 13 00-0679	EA		2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	541.72	113.48
26 56 13 00-0680			Area Light Arms (26 56 13 00-0666)		
26 56 13 00-0681			Steel Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0682	EA		Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	648.64	75.65
26 56 13 00-0683	EA		Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	999.86	83.22
26 56 13 00-0684	EA		Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,110.19	90.79
26 56 13 00-0685	EA		Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,313.76	98.36
26 56 13 00-0686	EA		Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	775.84	94.57
26 56 13 00-0687	EA		Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,092.09	102.13
26 56 13 00-0688			Aluminum Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0689	EA		Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	306.94	75.65
26 56 13 00-0690	EA		Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	379.15	94.57
26 56 13 00-0691	EA		Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	453.25	113.48
26 56 13 00-0692	EA		Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	305.03	75.65
26 56 13 00-0693	EA		Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	423.28	83.22
26 56 13 00-0694	EA		Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	375.33	94.57
26 56 13 00-0695	EA		Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	516.49	102.13
26 56 13 00-0696	EA		Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	455.16	113.48
26 56 13 00-0697	EA		Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	625.93	121.05
26 56 13 00-0698			Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0699	EA		Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms	2,496.63	
26 56 13 00-0700			High Mast Lighting (26 56 13 00-0001)		



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 56 13 00-0701	High Mast Lighting Assemblies (26 56 13 00-0700) Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole.				
26 56 13 00-0702	EA 60' High Mast Lighting Assembly	47,066.17		2,301.94	
26 56 13 00-0703	EA 70' High Mast Lighting Assembly	49,709.41		2,410.94	
26 56 13 00-0704	EA 80' High Mast Lighting Assembly	52,398.60		2,568.39	
26 56 13 00-0705	EA 90' High Mast Lighting Assembly	55,132.19		2,774.31	
26 56 13 00-0706	EA 100' High Mast Lighting Assembly	57,893.57		3,028.59	
26 56 13 00-0707	EA 110' High Mast Lighting Assembly	61,448.19		3,331.67	
26 56 13 00-0708	EA 120' High Mast Lighting Assembly	64,336.76		3,634.52	
26 56 13 00-0709	EA 130' High Mast Lighting Assembly	67,012.55		3,937.35	
26 56 13 00-0710	EA 140' High Mast Lighting Assembly	69,901.12		4,240.34	
26 56 13 00-0711	EA 150' High Mast Lighting Assembly	73,391.84		4,543.18	
26 56 13 00-0712	High Mast Light Poles (26 56 13 00-0700)				
26 56 13 00-0713	EA 60' High Mast Light Poles	18,231.66		1,382.50	
26 56 13 00-0714	EA 70' High Mast Light Poles	20,842.15		1,447.98	
26 56 13 00-0715	EA 80' High Mast Light Poles	23,484.05		1,542.58	
26 56 13 00-0716	EA 90' High Mast Light Poles	26,155.80		1,666.27	
26 56 13 00-0717	EA 100' High Mast Light Poles	28,858.96		1,819.07	
26 56 13 00-0718	EA 110' High Mast Light Poles	31,593.53		2,000.99	
26 56 13 00-0719	EA 120' High Mast Light Poles	33,681.81		2,182.90	
26 56 13 00-0720	EA 130' High Mast Light Poles	33,190.92		4,045.63	
26 56 13 00-0721	EA 140' High Mast Light Poles	37,644.02		2,546.71	
26 56 13 00-0722	EA 150' High Mast Light Poles	39,946.67		2,728.61	
26 56 13 00-0723	High Mast Lighting Accessories (26 56 13 00-0700)				
26 56 13 00-0724	EA Bottom Latching System For High Mast Lighting	842.90			
26 56 13 00-0725	EA Top Latching System For High Mast Lighting	2,352.17			
26 56 13 00-0726	EA Centering Springs For High Mast Lighting	1,781.07			
26 56 13 00-0727	EA Electric Power Cord For High Mast Lighting	757.58			
26 56 13 00-0728	EA Aircraft Warning Lights For High Mast Lighting	1,425.46			
26 56 13 00-0729	EA Internal Motorized Hoist For High Mast Lighting	14,910.93			
26 56 13 00-0730	EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting	15,021.52			
26 56 13 00-0731	Concrete Bases (26 56 13 00-0001)				
26 56 13 00-0732	Concrete Bases, Cast In Place (26 56 13 00-0731) Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.				
26 56 13 00-0733	EA Cast In Place Concrete Base For Poles Minimum Charge	326.39			
	Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.				
26 56 13 00-0734	VLF 1-1/2' Diameter Concrete Base For Poles	49.36			
26 56 13 00-0735	VLF 2' Diameter Concrete Base For Poles	76.33			
26 56 13 00-0736	VLF 2-1/2' Diameter Concrete Base For Poles	109.83			
26 56 13 00-0737	VLF 3' Diameter Concrete Base For Poles	150.50			
26 56 13 00-0738	VLF 3-1/2' Diameter Concrete Base For Poles	201.43			
26 56 13 00-0739	VLF 4' Diameter Concrete Base For Poles	256.81			
26 56 13 00-0740	VLF 5' Diameter Concrete Base For Poles	382.34			
26 56 13 00-0741	VLF 6' Diameter Concrete Base For Poles	534.20			
26 56 19	LED Exterior Lighting (26 56)				
26 56 19 00-0001	LED, Roadway Lighting (26 56 19)				
26 56 19 00-0002	LED Roadway Lighting (Philips Lumec) (26 56 19 00-0001)				
26 56 19 00-0003	Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0002) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.				
26 56 19 00-0004	EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series)	1,402.20		183.18	
	For >50 To 100, Deduct	-70.11			
	For >100 To 250, Deduct	-105.17			
	For >250 To 500, Deduct	-166.12			
	For >500 To 1000, Deduct	-227.07			
	For >1000, Deduct	-288.02			
26 56 19 00-0005	EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	2,143.65		188.13	
	For >50 To 100, Deduct	-107.18			
	For >100 To 250, Deduct	-160.77			
	For >250 To 500, Deduct	-258.55			
	For >500 To 1000, Deduct	-356.33			
	For >1000, Deduct	-454.10			



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 56 19 00-0006	Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) (26 56 19 00-0002) Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.			
26 56 19 00-0007	EA 48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,044.16		183.18
	For >50 To 100, Deduct	-52.21		
	For >100 To 250, Deduct	-78.31		
	For >250 To 500, Deduct	-121.36		
	For >500 To 1000, Deduct	-164.41		
	For >1000, Deduct	-207.46		
26 56 19 00-0008	EA 48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,044.16		183.18
	For >50 To 100, Deduct	-52.21		
	For >100 To 250, Deduct	-78.31		
	For >250 To 500, Deduct	-121.36		
	For >500 To 1000, Deduct	-164.41		
	For >1000, Deduct	-207.46		
26 56 19 00-0009	EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,044.16		183.18
	For >50 To 100, Deduct	-52.21		
	For >100 To 250, Deduct	-78.31		
	For >250 To 500, Deduct	-121.36		
	For >500 To 1000, Deduct	-164.41		
	For >1000, Deduct	-207.46		
26 56 19 00-0010	LED Roadway Lighting (Lithonia) (26 56 19 00-0001)			
26 56 19 00-0011	Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) (26 56 19 00-0010) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.			
26 56 19 00-0012	EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	1,994.27		173.28
	For >50 To 100, Deduct	-99.71		
	For >100 To 250, Deduct	-149.57		
	For >250 To 500, Deduct	-240.62		
	For >500 To 1000, Deduct	-331.67		
	For >1000, Deduct	-422.72		
26 56 19 00-0013	EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	3,247.16		178.23
	For >50 To 100, Deduct	-162.36		
	For >100 To 250, Deduct	-243.54		
	For >250 To 500, Deduct	-396.98		
	For >500 To 1000, Deduct	-550.43		
	For >1000, Deduct	-703.88		
26 56 19 00-0014	LED Roadway Lighting (CREE® BetaLED®) (26 56 19 00-0001)			
26 56 19 00-0015	Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) (26 56 19 00-0014) Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.			
26 56 19 00-0016	EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	823.53		168.32
	For >50 To 100, Deduct	-41.18		
	For >100 To 250, Deduct	-61.76		
	For >250 To 500, Deduct	-94.52		
	For >500 To 1000, Deduct	-127.28		
	For >1000, Deduct	-160.04		
26 56 19 00-0017	EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	916.00		173.28
	For >50 To 100, Deduct	-45.80		
	For >100 To 250, Deduct	-68.70		
	For >250 To 500, Deduct	-105.84		
	For >500 To 1000, Deduct	-142.97		
	For >1000, Deduct	-180.11		
26 56 19 00-0018	EA 40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,026.97		178.23
	For >50 To 100, Deduct	-51.35		
	For >100 To 250, Deduct	-77.02		
	For >250 To 500, Deduct	-119.46		
	For >500 To 1000, Deduct	-161.90		
	For >1000, Deduct	-204.33		
26 56 19 00-0019	EA 50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,120.87		183.18
	For >50 To 100, Deduct	-56.04		
	For >100 To 250, Deduct	-84.07		
	For >250 To 500, Deduct	-130.95		
	For >500 To 1000, Deduct	-177.83		
	For >1000, Deduct	-224.72		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0020 EA 60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,214.76	188.13
For >50 To 100, Deduct	-60.74	
For >100 To 250, Deduct	-91.11	
For >250 To 500, Deduct	-142.44	
For >500 To 1000, Deduct	-193.77	
For >1000, Deduct	-245.10	
26 56 19 00-0021 EA 70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,433.93	193.08
For >50 To 100, Deduct	-71.70	
For >100 To 250, Deduct	-107.54	
For >250 To 500, Deduct	-169.59	
For >500 To 1000, Deduct	-231.63	
For >1000, Deduct	-293.67	
26 56 19 00-0022 EA 80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,527.82	198.03
For >50 To 100, Deduct	-76.39	
For >100 To 250, Deduct	-114.59	
For >250 To 500, Deduct	-181.08	
For >500 To 1000, Deduct	-247.57	
For >1000, Deduct	-314.05	
26 56 19 00-0023 EA 90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,620.29	202.98
For >50 To 100, Deduct	-81.01	
For >100 To 250, Deduct	-121.52	
For >250 To 500, Deduct	-192.39	
For >500 To 1000, Deduct	-263.25	
For >1000, Deduct	-334.12	
26 56 19 00-0024 EA 100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,798.19	207.93
For >50 To 100, Deduct	-89.91	
For >100 To 250, Deduct	-134.86	
For >250 To 500, Deduct	-214.38	
For >500 To 1000, Deduct	-293.89	
For >1000, Deduct	-373.40	
26 56 19 00-0025 EA 110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,892.08	212.88
For >50 To 100, Deduct	-94.60	
For >100 To 250, Deduct	-141.91	
For >250 To 500, Deduct	-225.87	
For >500 To 1000, Deduct	-309.83	
For >1000, Deduct	-393.78	
26 56 19 00-0026 EA 120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,985.97	217.83
For >50 To 100, Deduct	-99.30	
For >100 To 250, Deduct	-148.95	
For >250 To 500, Deduct	-237.35	
For >500 To 1000, Deduct	-325.76	
For >1000, Deduct	-414.17	
26 56 19 00-0027 Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) (26 56 19 00-0014) Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0028 EA 40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,546.58	178.23
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-77.33	
For >100 To 250, Deduct	-115.99	
For >250 To 500, Deduct	-184.41	
For >500 To 1000, Deduct	-252.83	
For >1000, Deduct	-321.25	
26 56 19 00-0029 EA 60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,775.66	188.13
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-88.78	
For >100 To 250, Deduct	-133.17	
For >250 To 500, Deduct	-212.55	
For >500 To 1000, Deduct	-291.93	
For >1000, Deduct	-371.30	
26 56 19 00-0030 EA 80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,004.73	198.03
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-100.24	
For >100 To 250, Deduct	-150.35	
For >250 To 500, Deduct	-240.69	
For >500 To 1000, Deduct	-331.02	
For >1000, Deduct	-421.36	
26 56 19 00-0031 EA 100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,233.80	207.93
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-111.69	
For >100 To 250, Deduct	-167.54	
For >250 To 500, Deduct	-268.83	
For >500 To 1000, Deduct	-370.12	
For >1000, Deduct	-471.41	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0032	EA		120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,907.03	217.83
			For Multi-Level Drive Currents, Add	199.30	
			For >50 To 100, Deduct	-145.35	
			For >100 To 250, Deduct	-218.03	
			For >250 To 500, Deduct	-352.49	
			For >500 To 1000, Deduct	-486.95	
			For >1000, Deduct	-621.41	
26 56 19 00-0033	EA		140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,136.10	227.74
			For Multi-Level Drive Currents, Add	199.30	
			For >50 To 100, Deduct	-156.81	
			For >100 To 250, Deduct	-235.21	
			For >250 To 500, Deduct	-380.63	
			For >500 To 1000, Deduct	-526.04	
			For >1000, Deduct	-671.46	
26 56 19 00-0034	EA		160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,365.17	237.64
			For Multi-Level Drive Currents, Add	199.30	
			For >50 To 100, Deduct	-168.26	
			For >100 To 250, Deduct	-252.39	
			For >250 To 500, Deduct	-408.76	
			For >500 To 1000, Deduct	-565.14	
			For >1000, Deduct	-721.52	
26 56 19 00-0035			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) (26 56 19 00-0014)		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0036	EA		4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	707.29	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Backlight Control Shield, Add	33.69	
			For Field Adjustable Output, Add	25.19	
			For Bird Spikes, Add	49.55	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Fuse, Add	50.37	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For 480 Volt, Add	75.56	
			For Multi-Level, Add	109.13	
			For >50 To 100, Deduct	-35.36	
			For >100 To 250, Deduct	-53.05	
			For >250 To 500, Deduct	-79.50	
			For >500 To 1000, Deduct	-105.95	
			For >1000, Deduct	-132.41	
26 56 19 00-0037	EA		5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	707.29	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Backlight Control Shield, Add	33.69	
			For Field Adjustable Output, Add	25.19	
			For Bird Spikes, Add	49.55	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Fuse, Add	50.37	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For 480 Volt, Add	75.56	
			For Multi-Level, Add	109.13	
			For >50 To 100, Deduct	-35.36	
			For >100 To 250, Deduct	-53.05	
			For >250 To 500, Deduct	-79.50	
			For >500 To 1000, Deduct	-105.95	
			For >1000, Deduct	-132.41	
26 56 19 00-0038	EA		8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	770.75	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Backlight Control Shield, Add	33.69	
			For Field Adjustable Output, Add	25.19	
			For Bird Spikes, Add	49.55	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For 480 Volt, Add	75.56	
			For >50 To 100, Deduct	-38.54	
			For >100 To 250, Deduct	-57.81	
			For >250 To 500, Deduct	-87.43	
			For >500 To 1000, Deduct	-117.06	
			For >1000, Deduct	-146.68	
26 56 19 00-0039	EA		8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	770.75	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Backlight Control Shield, Add	33.69	
			For Field Adjustable Output, Add	25.19	
			For Bird Spikes, Add	49.55	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For 480 Volt, Add	75.56	
			For >50 To 100, Deduct	-38.54	
			For >100 To 250, Deduct	-57.81	
			For >250 To 500, Deduct	-87.43	
			For >500 To 1000, Deduct	-117.06	
			For >1000, Deduct	-146.68	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0040	EA		9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	883.57	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Field Adjustable Output, Add	25.19	
			For Backlight Control Shield, Add	46.02	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Fuse, Add	50.37	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For Bird Spikes, Add	77.77	
			For 480 Volt, Add	75.56	
			For Multi-Level, Add	109.13	
			For >50 To 100, Deduct	-44.18	
			For >100 To 250, Deduct	-66.27	
			For >250 To 500, Deduct	-101.53	
			For >500 To 1000, Deduct	-136.80	
			For >1000, Deduct	-172.07	
26 56 19 00-0041	EA		10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	883.57	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Field Adjustable Output, Add	25.19	
			For Backlight Control Shield, Add	46.02	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Fuse, Add	50.37	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For Bird Spikes, Add	77.77	
			For 480 Volt, Add	75.56	
			For Multi-Level, Add	109.13	
			For >50 To 100, Deduct	-44.18	
			For >100 To 250, Deduct	-66.27	
			For >250 To 500, Deduct	-101.53	
			For >500 To 1000, Deduct	-136.80	
			For >1000, Deduct	-172.07	
26 56 19 00-0042	EA		13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	989.36	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Field Adjustable Output, Add	25.19	
			For Backlight Control Shield, Add	46.02	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For Bird Spikes, Add	77.77	
			For 480 Volt, Add	75.56	
			For >50 To 100, Deduct	-49.47	
			For >100 To 250, Deduct	-74.20	
			For >250 To 500, Deduct	-114.76	
			For >500 To 1000, Deduct	-155.32	
			For >1000, Deduct	-195.87	
26 56 19 00-0043	EA		14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	989.36	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Field Adjustable Output, Add	25.19	
			For Backlight Control Shield, Add	46.02	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For Bird Spikes, Add	77.77	
			For 480 Volt, Add	75.56	
			For >50 To 100, Deduct	-49.47	
			For >100 To 250, Deduct	-74.20	
			For >250 To 500, Deduct	-114.76	
			For >500 To 1000, Deduct	-155.32	
			For >1000, Deduct	-195.87	
26 56 19 00-0044	EA		2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	594.46	178.23
			For Utility Label, Add	8.39	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	25.19	
			For 0 To 10 Volt Dimming, Add	50.37	
			For >50 To 100, Deduct	-29.72	
			For >100 To 250, Deduct	-44.58	
			For >250 To 500, Deduct	-65.40	
			For >500 To 1000, Deduct	-86.21	
			For >1000, Deduct	-107.02	
26 56 19 00-0045	EA		2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	594.46	178.23
			For Utility Label, Add	8.39	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	25.19	
			For 0 To 10 Volt Dimming, Add	50.37	
			For >50 To 100, Deduct	-29.72	
			For >100 To 250, Deduct	-44.58	
			For >250 To 500, Deduct	-65.40	
			For >500 To 1000, Deduct	-86.21	
			For >1000, Deduct	-107.02	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0046	EA		3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	620.91	178.23
			For Utility Label, Add	8.39	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	25.19	
			For 0 To 10 Volt Dimming, Add	50.37	
			For >50 To 100, Deduct	-31.05	
			For >100 To 250, Deduct	-46.57	
			For >250 To 500, Deduct	-68.70	
			For >500 To 1000, Deduct	-90.84	
			For >1000, Deduct	-112.97	
26 56 19 00-0047	EA		4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	620.91	178.23
			For Utility Label, Add	8.39	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	25.19	
			For 0 To 10 Volt Dimming, Add	50.37	
			For >50 To 100, Deduct	-31.05	
			For >100 To 250, Deduct	-46.57	
			For >250 To 500, Deduct	-68.70	
			For >500 To 1000, Deduct	-90.84	
			For >1000, Deduct	-112.97	
26 56 19 00-0048	EA		4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	629.72	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Field Adjustable Output, Add	25.19	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For 0 To 10 Volt Dimming, Add	50.37	
			For >50 To 100, Deduct	-31.49	
			For >100 To 250, Deduct	-47.23	
			For >250 To 500, Deduct	-69.80	
			For >500 To 1000, Deduct	-92.38	
			For >1000, Deduct	-114.95	
26 56 19 00-0049	EA		4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	629.72	178.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Field Adjustable Output, Add	25.19	
			For Field Adjustable Output And Utility Label, Add	33.58	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
			For 0 To 10 Volt Dimming, Add	50.37	
			For >50 To 100, Deduct	-31.49	
			For >100 To 250, Deduct	-47.23	
			For >250 To 500, Deduct	-69.80	
			For >500 To 1000, Deduct	-92.38	
			For >1000, Deduct	-114.95	
26 56 19 00-0050			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™) (26 56 19 00-0014) Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0051	EA		3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....	612.09	178.23
			For Field Adjustable Output, Add	25.19	
			For Backlight Control Shield, Add	59.80	
			For Bird Spikes, Add	78.26	
			For >50 To 100, Deduct	-30.60	
			For >100 To 250, Deduct	-45.91	
			For >250 To 500, Deduct	-67.60	
			For >500 To 1000, Deduct	-89.29	
			For >1000, Deduct	-110.99	
26 56 19 00-0052	EA		3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	612.09	178.23
			For Field Adjustable Output, Add	25.19	
			For Backlight Control Shield, Add	59.80	
			For Bird Spikes, Add	78.26	
			For >50 To 100, Deduct	-30.60	
			For >100 To 250, Deduct	-45.91	
			For >250 To 500, Deduct	-67.60	
			For >500 To 1000, Deduct	-89.29	
			For >1000, Deduct	-110.99	
26 56 19 00-0053	EA		5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	629.72	178.23
			For Field Adjustable Output, Add	25.19	
			For Backlight Control Shield, Add	59.80	
			For Bird Spikes, Add	78.26	
			For >50 To 100, Deduct	-31.49	
			For >100 To 250, Deduct	-47.23	
			For >250 To 500, Deduct	-69.80	
			For >500 To 1000, Deduct	-92.38	
			For >1000, Deduct	-114.95	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0054	EA		5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	629.72	178.23
			For Field Adjustable Output, Add	25.19	
			For Backlight Control Shield, Add	59.80	
			For Bird Spikes, Add	78.26	
			For >50 To 100, Deduct	-31.49	
			For >100 To 250, Deduct	-47.23	
			For >250 To 500, Deduct	-69.80	
			For >500 To 1000, Deduct	-92.38	
			For >1000, Deduct	-114.95	
26 56 19 00-0055			LED Roadway Lighting (Cooper Lighting) (26 56 19 00-0001)		
26 56 19 00-0056			Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) (26 56 19 00-0055)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0057	EA		1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	923.07	178.23
			For >50 To 100, Deduct	-46.15	
			For >100 To 250, Deduct	-69.23	
			For >250 To 500, Deduct	-106.47	
			For >500 To 1000, Deduct	-143.71	
			For >1000, Deduct	-180.96	
26 56 19 00-0058	EA		2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,230.96	198.03
			For >50 To 100, Deduct	-61.55	
			For >100 To 250, Deduct	-92.32	
			For >250 To 500, Deduct	-143.97	
			For >500 To 1000, Deduct	-195.61	
			For >1000, Deduct	-247.26	
26 56 19 00-0059	EA		3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,327.48	227.74
			For >50 To 100, Deduct	-66.37	
			For >100 To 250, Deduct	-99.56	
			For >250 To 500, Deduct	-154.55	
			For >500 To 1000, Deduct	-209.54	
			For >1000, Deduct	-264.52	
26 56 19 00-0060	EA		4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,932.83	247.54
			For >50 To 100, Deduct	-96.64	
			For >100 To 250, Deduct	-144.96	
			For >250 To 500, Deduct	-229.23	
			For >500 To 1000, Deduct	-313.49	
			For >1000, Deduct	-397.76	
26 56 19 00-0061	EA		6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,515.16	281.81
			For >50 To 100, Deduct	-125.76	
			For >100 To 250, Deduct	-188.64	
			For >250 To 500, Deduct	-300.30	
			For >500 To 1000, Deduct	-411.97	
			For >1000, Deduct	-523.64	
26 56 19 00-0062			LED Roadway Lighting (PlanLED) (26 56 19 00-0001)		
26 56 19 00-0063			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) (26 56 19 00-0062)		
			Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0064	EA		8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W).....	1,091.13	173.28
			For >50 To 100, Deduct	-54.56	
			For >100 To 250, Deduct	-81.83	
			For >250 To 500, Deduct	-127.73	
			For >500 To 1000, Deduct	-173.62	
			For >1000, Deduct	-219.51	
26 56 19 00-0065	EA		11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W).....	1,180.72	175.19
			For >50 To 100, Deduct	-59.04	
			For >100 To 250, Deduct	-88.55	
			For >250 To 500, Deduct	-138.83	
			For >500 To 1000, Deduct	-189.11	
			For >1000, Deduct	-239.38	
26 56 19 00-0066	EA		15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W).....	1,252.00	178.23
			For >50 To 100, Deduct	-62.60	
			For >100 To 250, Deduct	-93.90	
			For >250 To 500, Deduct	-147.59	
			For >500 To 1000, Deduct	-201.28	
			For >1000, Deduct	-254.97	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0067			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0062) Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0068	EA		7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060)	744.78	169.09
			For >50 To 100, Deduct	-37.24	
			For >100 To 250, Deduct	-55.86	
			For >250 To 500, Deduct	-84.64	
			For >500 To 1000, Deduct	-113.43	
			For >1000, Deduct	-142.21	
26 56 19 00-0069	EA		10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080)	793.76	172.14
			For >50 To 100, Deduct	-39.69	
			For >100 To 250, Deduct	-59.53	
			For >250 To 500, Deduct	-90.61	
			For >500 To 1000, Deduct	-121.69	
			For >1000, Deduct	-152.78	
26 56 19 00-0070	EA		12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	870.20	175.19
			For >50 To 100, Deduct	-43.51	
			For >100 To 250, Deduct	-65.27	
			For >250 To 500, Deduct	-100.02	
			For >500 To 1000, Deduct	-134.77	
			For >1000, Deduct	-169.52	
26 56 19 00-0071			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0062) Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0072	EA		13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100)	919.95	175.19
			For 0 To 10 Volt Dimming, Add	73.52	
			For 347-480 Volt, Add	73.52	
			For >50 To 100, Deduct	-46.00	
			For >100 To 250, Deduct	-69.00	
			For >250 To 500, Deduct	-106.23	
			For >500 To 1000, Deduct	-143.47	
			For >1000, Deduct	-180.71	
26 56 19 00-0073	EA		16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130)	1,012.21	176.71
			For 0 To 10 Volt Dimming, Add	73.52	
			For 347-480 Volt, Add	21.74	
			For >50 To 100, Deduct	-50.61	
			For >100 To 250, Deduct	-75.92	
			For >250 To 500, Deduct	-117.69	
			For >500 To 1000, Deduct	-159.47	
			For >1000, Deduct	-201.24	
26 56 19 00-0074	EA		19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150)	1,083.87	178.23
			For 0 To 10 Volt Dimming, Add	73.52	
			For 347-480 Volt, Add	-7.74	
			For >50 To 100, Deduct	-54.19	
			For >100 To 250, Deduct	-81.29	
			For >250 To 500, Deduct	-126.57	
			For >500 To 1000, Deduct	-171.85	
			For >1000, Deduct	-217.14	
26 56 19 00-0075			LED Roadway Lighting (General Electric) (26 56 19 00-0001)		
26 56 19 00-0076			Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) (26 56 19 00-0075) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0077	EA		2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY)	587.29	168.32
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-29.36	
			For >100 To 250, Deduct	-44.05	
			For >250 To 500, Deduct	-64.99	
			For >500 To 1000, Deduct	-85.94	
			For >1000, Deduct	-106.89	
26 56 19 00-0078	EA		3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY)	591.86	170.61
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-29.59	
			For >100 To 250, Deduct	-44.39	
			For >250 To 500, Deduct	-65.45	
			For >500 To 1000, Deduct	-86.51	
			For >1000, Deduct	-107.58	
26 56 19 00-0079	EA		4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY)	614.53	173.28
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-30.73	
			For >100 To 250, Deduct	-46.09	
			For >250 To 500, Deduct	-68.15	
			For >500 To 1000, Deduct	-90.21	
			For >1000, Deduct	-112.28	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0080	EA	5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY)	637.26	175.19
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-31.86	
		For >100 To 250, Deduct	-47.79	
		For >250 To 500, Deduct	-70.90	
		For >500 To 1000, Deduct	-94.00	
		For >1000, Deduct	-117.11	
26 56 19 00-0081	EA	7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY)	696.88	179.00
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-34.84	
		For >100 To 250, Deduct	-52.27	
		For >250 To 500, Deduct	-78.16	
		For >500 To 1000, Deduct	-104.06	
		For >1000, Deduct	-129.95	
26 56 19 00-0082	EA	8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY)	728.31	180.51
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-36.42	
		For >100 To 250, Deduct	-54.62	
		For >250 To 500, Deduct	-82.01	
		For >500 To 1000, Deduct	-109.40	
		For >1000, Deduct	-136.79	
26 56 19 00-0083	EA	9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY)	787.24	183.18
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-39.36	
		For >100 To 250, Deduct	-59.04	
		For >250 To 500, Deduct	-89.25	
		For >500 To 1000, Deduct	-119.45	
		For >1000, Deduct	-149.65	
26 56 19 00-0084	EA	13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY)	912.21	188.13
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-45.61	
		For >100 To 250, Deduct	-68.42	
		For >250 To 500, Deduct	-104.62	
		For >500 To 1000, Deduct	-140.82	
		For >1000, Deduct	-177.03	
26 56 19 00-0085	EA	19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY)	1,058.12	198.03
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-52.91	
		For >100 To 250, Deduct	-79.36	
		For >250 To 500, Deduct	-122.36	
		For >500 To 1000, Deduct	-165.37	
		For >1000, Deduct	-208.37	
26 56 19 00-0086		LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0001)		
26 56 19 00-0087		Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0086)		
		Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0088	EA	4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70)	1,059.60	173.28
		For >50 To 100, Deduct	-52.98	
		For >100 To 250, Deduct	-79.47	
		For >250 To 500, Deduct	-123.79	
		For >500 To 1000, Deduct	-168.10	
		For >1000, Deduct	-212.42	
26 56 19 00-0089	EA	6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70)	1,298.15	178.23
		For >50 To 100, Deduct	-64.91	
		For >100 To 250, Deduct	-97.36	
		For >250 To 500, Deduct	-153.36	
		For >500 To 1000, Deduct	-209.35	
		For >1000, Deduct	-265.35	
26 56 19 00-0090	EA	9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70)	1,779.03	183.18
		For >50 To 100, Deduct	-88.95	
		For >100 To 250, Deduct	-133.43	
		For >250 To 500, Deduct	-213.22	
		For >500 To 1000, Deduct	-293.01	
		For >1000, Deduct	-372.80	
26 56 19 00-0091	EA	13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70)	2,264.32	190.42
		For >50 To 100, Deduct	-113.22	
		For >100 To 250, Deduct	-169.82	
		For >250 To 500, Deduct	-273.52	
		For >500 To 1000, Deduct	-377.21	
		For >1000, Deduct	-480.91	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0092	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	2,737.79	195.75
			For >50 To 100, Deduct	-136.89	
			For >100 To 250, Deduct	-205.33	
			For >250 To 500, Deduct	-332.44	
			For >500 To 1000, Deduct	-459.54	
			For >1000, Deduct	-586.64	
26 56 19 00-0093			LED Roadway Lighting (Leotek) (26 56 19 00-0001)		
26 56 19 00-0094			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0093)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0095	EA		Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	601.45	173.28
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-30.07	
			For >100 To 250, Deduct	-45.11	
			For >250 To 500, Deduct	-66.52	
			For >500 To 1000, Deduct	-87.93	
			For >1000, Deduct	-109.33	
26 56 19 00-0096	EA		Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	613.53	175.19
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-30.68	
			For >100 To 250, Deduct	-46.01	
			For >250 To 500, Deduct	-67.93	
			For >500 To 1000, Deduct	-89.85	
			For >1000, Deduct	-111.77	
26 56 19 00-0097	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	648.93	176.32
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-32.45	
			For >100 To 250, Deduct	-48.67	
			For >250 To 500, Deduct	-72.30	
			For >500 To 1000, Deduct	-95.93	
			For >1000, Deduct	-119.56	
26 56 19 00-0098	EA		Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	742.08	183.18
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-37.10	
			For >100 To 250, Deduct	-55.66	
			For >250 To 500, Deduct	-83.60	
			For >500 To 1000, Deduct	-111.55	
			For >1000, Deduct	-139.49	
26 56 19 00-0099	EA		Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....	854.60	188.13
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-42.73	
			For >100 To 250, Deduct	-64.10	
			For >250 To 500, Deduct	-97.42	
			For >500 To 1000, Deduct	-130.74	
			For >1000, Deduct	-164.06	
26 56 19 00-0100	EA		Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....	860.69	191.18
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-43.03	
			For >100 To 250, Deduct	-64.55	
			For >250 To 500, Deduct	-98.03	
			For >500 To 1000, Deduct	-131.50	
			For >1000, Deduct	-164.98	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0101	EA		Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL)	1,033.94	194.22
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-51.70	
			For >100 To 250, Deduct	-77.55	
			For >250 To 500, Deduct	-119.53	
			For >500 To 1000, Deduct	-161.52	
			For >1000, Deduct	-203.50	
26 56 19 00-0102	EA		Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL)	1,081.29	198.03
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-54.06	
			For >100 To 250, Deduct	-81.10	
			For >250 To 500, Deduct	-125.26	
			For >500 To 1000, Deduct	-169.42	
			For >1000, Deduct	-213.59	
26 56 19 00-0103	EA		Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL)	1,196.63	201.08
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-59.83	
			For >100 To 250, Deduct	-89.75	
			For >250 To 500, Deduct	-139.52	
			For >500 To 1000, Deduct	-189.30	
			For >1000, Deduct	-239.08	
26 56 19 00-0104	EA		Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL)	1,277.19	204.13
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-63.86	
			For >100 To 250, Deduct	-95.79	
			For >250 To 500, Deduct	-149.44	
			For >500 To 1000, Deduct	-203.10	
			For >1000, Deduct	-256.75	
26 56 19 00-0105	EA		Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	683.05	175.19
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-34.15	
			For >100 To 250, Deduct	-51.23	
			For >250 To 500, Deduct	-76.62	
			For >500 To 1000, Deduct	-102.02	
			For >1000, Deduct	-127.41	
26 56 19 00-0106	EA		Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	743.50	179.76
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-37.18	
			For >100 To 250, Deduct	-55.76	
			For >250 To 500, Deduct	-83.95	
			For >500 To 1000, Deduct	-112.14	
			For >1000, Deduct	-140.32	
26 56 19 00-0107	EA		Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	796.70	183.18
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-39.84	
			For >100 To 250, Deduct	-59.75	
			For >250 To 500, Deduct	-90.43	
			For >500 To 1000, Deduct	-121.10	
			For >1000, Deduct	-151.78	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0108	EA		Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	843.14	187.37
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-42.16	
			For >100 To 250, Deduct	-63.24	
			For >250 To 500, Deduct	-96.02	
			For >500 To 1000, Deduct	-128.81	
			For >1000, Deduct	-161.60	
26 56 19 00-0109	EA		Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	889.22	188.90
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-44.46	
			For >100 To 250, Deduct	-66.69	
			For >250 To 500, Deduct	-101.71	
			For >500 To 1000, Deduct	-136.72	
			For >1000, Deduct	-171.74	
26 56 19 00-0110	EA		Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	1,043.61	195.75
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-52.18	
			For >100 To 250, Deduct	-78.27	
			For >250 To 500, Deduct	-120.66	
			For >500 To 1000, Deduct	-163.06	
			For >1000, Deduct	-205.45	
26 56 19 00-0111	EA		Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	1,168.75	199.56
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-58.44	
			For >100 To 250, Deduct	-87.66	
			For >250 To 500, Deduct	-136.12	
			For >500 To 1000, Deduct	-184.58	
			For >1000, Deduct	-233.03	
26 56 19 00-0112	EA		Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	1,236.47	200.32
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-61.82	
			For >100 To 250, Deduct	-92.74	
			For >250 To 500, Deduct	-144.54	
			For >500 To 1000, Deduct	-196.35	
			For >1000, Deduct	-248.16	
26 56 19 00-0113	EA		Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....	1,302.27	202.61
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-65.11	
			For >100 To 250, Deduct	-97.67	
			For >250 To 500, Deduct	-152.65	
			For >500 To 1000, Deduct	-207.64	
			For >1000, Deduct	-262.62	
26 56 19 00-0114	EA		Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....	734.90	191.18
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-36.75	
			For >100 To 250, Deduct	-55.12	
			For >250 To 500, Deduct	-82.30	
			For >500 To 1000, Deduct	-109.49	
			For >1000, Deduct	-136.68	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0115	EA		Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP)	788.36	193.08
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-39.42	
			For >100 To 250, Deduct	-59.13	
			For >250 To 500, Deduct	-88.89	
			For >500 To 1000, Deduct	-118.65	
			For >1000, Deduct	-148.42	
26 56 19 00-0116	EA		Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL)	579.67	174.80
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-28.98	
			For >100 To 250, Deduct	-43.48	
			For >250 To 500, Deduct	-63.72	
			For >500 To 1000, Deduct	-83.96	
			For >1000, Deduct	-104.21	
26 56 19 00-0117	EA		Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL)	589.34	176.32
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-29.47	
			For >100 To 250, Deduct	-44.20	
			For >250 To 500, Deduct	-64.85	
			For >500 To 1000, Deduct	-85.50	
			For >1000, Deduct	-106.15	
26 56 19 00-0118	EA		Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL)	634.26	179.76
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-31.71	
			For >100 To 250, Deduct	-47.57	
			For >250 To 500, Deduct	-70.29	
			For >500 To 1000, Deduct	-93.02	
			For >1000, Deduct	-115.75	
26 56 19 00-0119	EA		Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL)	932.98	194.22
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-46.65	
			For >100 To 250, Deduct	-69.97	
			For >250 To 500, Deduct	-106.91	
			For >500 To 1000, Deduct	-143.85	
			For >1000, Deduct	-180.79	
26 56 19 00-0120	EA		Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL)	1,190.13	200.32
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-59.51	
			For >100 To 250, Deduct	-89.26	
			For >250 To 500, Deduct	-138.75	
			For >500 To 1000, Deduct	-188.24	
			For >1000, Deduct	-237.73	
26 56 19 00-0121	EA		Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL)	1,072.49	201.08
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-53.62	
			For >100 To 250, Deduct	-80.44	
			For >250 To 500, Deduct	-124.01	
			For >500 To 1000, Deduct	-167.58	
			For >1000, Deduct	-211.15	
26 56 19 00-0122	EA		Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY)	560.57	175.19
			For Twist Lock Shorting Cap, Add	7.88	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.64	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.31	
			For >50 To 100, Deduct	-28.03	
			For >100 To 250, Deduct	-42.04	
			For >250 To 500, Deduct	-61.31	
			For >500 To 1000, Deduct	-80.58	
			For >1000, Deduct	-99.85	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 HID Exterior Lighting (26 56)		
26 56 21 00-0001 High Mast Fixtures (26 56 21)		
26 56 21 00-0002 Metal Halide, High Mast Fixtures (26 56 21 00-0001)		
26 56 21 00-0003 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,693.80	188.49
26 56 21 00-0004 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,806.08	188.49
26 56 21 00-0005 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,799.86	215.34
26 56 21 00-0006 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,867.22	215.34
26 56 21 00-0007 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,905.32	269.18
26 56 21 00-0008 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,972.69	269.18
26 56 21 00-0009 High Pressure Sodium, High Mast Fixtures (26 56 21 00-0001)		
26 56 21 00-0010 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	1,748.30	188.49
26 56 21 00-0011 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,815.67	188.49
26 56 21 00-0012 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,105.40	199.26
26 56 21 00-0013 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,160.61	215.34
26 56 21 00-0014 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,299.76	269.18
26 56 21 00-0015 HID, Pole Mounted (26 56 21)		
26 56 21 00-0016 Metal Halide, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0017 EA 175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	636.11	307.36
26 56 21 00-0018 EA 250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	708.23	333.63
26 56 21 00-0019 EA 400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	809.33	358.90
26 56 21 00-0020 EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,057.99	420.63
26 56 21 00-0021 High Pressure Sodium, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0022 EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	792.09	358.90
26 56 21 00-0023 EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	813.11	358.90
26 56 21 00-0024 EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	849.82	358.90
26 56 21 00-0025 EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	941.10	358.90
26 56 21 00-0026 EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,087.85	358.90
26 56 21 00-0027 EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,033.45	358.90
26 56 21 00-0028 Low Pressure Sodium, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0029 EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	645.62	195.25
26 56 21 00-0030 EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	760.81	287.12
26 56 21 00-0031 EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	860.44	287.12
26 56 21 00-0032 Induction, Roadway Lighting (26 56 21)		
26 56 21 00-0033 Induction Roadway Lighting (US Lighting Tech) (26 56 21 00-0032)		
Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.		
26 56 21 00-0034 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	687.26	228.50
26 56 21 00-0035 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	747.66	236.12
26 56 21 00-0036 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	778.13	251.35
26 56 21 00-0037 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	808.59	266.59
26 56 21 00-0038 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	927.66	274.20
26 56 21 00-0039 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	946.51	281.81
26 56 21 00-0040 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	649.34	228.50
26 56 21 00-0041 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	715.15	236.12
26 56 21 00-0042 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	745.62	251.35
26 56 21 00-0043 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	776.08	266.59

END OF SECTION 26

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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	Communications	27	
	Structured Cabling	27 10	27
	Communications Backbone Cabling	27 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 10 Structured Cabling⁽²⁷⁾

Note: Includes testing.

27 13 Communications Backbone Cabling^(27 10)

27 13 13 Communications Copper Backbone Cabling^(27 13)

27 13 13 13 Communications Copper Cable Splicing and Terminations^(27 13 13)

27 13 13 13-0001	Building Entrance Terminals ^(27 13 13 13)		
27 13 13 13-0002	EA 25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,840.56	303.58
27 13 13 13-0003	EA 50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,572.59	505.97
27 13 13 13-0004	EA 100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,758.28	810.19

27 15 Communications Horizontal Cabling^(27 10)

27 15 13 Communications Copper Horizontal Cabling^(27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 13 00-0001	Copper Telecommunications Cable ^(27 15 13)		
27 15 13 00-0002	Indoor Telecommunications Cable ^(27 15 13 00-0001)		
	Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.		
27 15 13 00-0003	Category 3, Indoor Telecommunications Cable ^(27 15 13 00-0002)		
	Note: Un-shielded twisted pair cables (UTP).		
27 15 13 00-0004	Category 3, Indoor Telecommunications Riser Cable ^(27 15 13 00-0003)		
27 15 13 00-0005	24 AWG, Category 3, Indoor Telecommunications Riser Cable ^(27 15 13 00-0004)		
27 15 13 00-0006	24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit ^(27 15 13 00-0005)		
27 15 13 00-0007	MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,056.12	581.47
27 15 13 00-0008	MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,093.26	581.47
27 15 13 00-0009	MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,106.38	581.47
27 15 13 00-0010	MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,318.71	664.53
27 15 13 00-0011	MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,592.08	664.53
27 15 13 00-0012	MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,026.13	664.53
27 15 13 00-0013	MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,123.68	830.67
27 15 13 00-0014	MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	5,568.44	1,329.06
27 15 13 00-0015	MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	7,397.83	1,495.19
27 15 13 00-0016	MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	9,677.42	1,661.33
27 15 13 00-0017	MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	14,106.00	2,325.86
27 15 13 00-0018	MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	18,407.37	2,874.09
27 15 13 00-0019	MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	28,903.86	3,987.19
27 15 13 00-0020	MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	47,646.16	7,974.37
27 15 13 00-0021	MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	65,299.72	11,961.55
27 15 13 00-0022	24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed ^(27 15 13 00-0006)		
27 15 13 00-0023	MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	2,025.22 581.46	1,162.93
27 15 13 00-0024	MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	2,062.36 581.46	1,162.93
27 15 13 00-0025	MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	2,075.48 581.46	1,162.93
27 15 13 00-0026	MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	2,149.37 581.46	1,162.93
27 15 13 00-0027	MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	2,422.74 581.46	1,162.93
27 15 13 00-0028	MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	3,133.69 664.53	1,329.06
27 15 13 00-0029	MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	4,508.12 830.66	1,661.33
27 15 13 00-0030	MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	6,675.98 996.80	1,993.59
27 15 13 00-0031	MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	8,643.82 1,121.39	2,242.79
27 15 13 00-0032	MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	11,061.86 1,246.00	2,491.99
27 15 13 00-0033	MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	16,044.21 1,744.39	3,488.79

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0034 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	20,816.29 2,159.72	4,319.45
27 15 13 00-0035 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	32,226.51 2,990.39	5,980.77
27 15 13 00-0036 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	54,291.48 5,980.78	11,961.55
27 15 13 00-0037 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	75,267.69 8,971.17	17,942.33
27 15 13 00-0038 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0004)		
27 15 13 00-0039 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0038)		
27 15 13 00-0040 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,107.24	664.53
27 15 13 00-0041 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	4,558.69	830.67
27 15 13 00-0042 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	8,243.44	1,329.06
27 15 13 00-0043 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	14,336.75	1,661.33
27 15 13 00-0044 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	21,035.13	2,325.86
27 15 13 00-0045 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	27,331.94	2,874.09
27 15 13 00-0046 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	40,404.49	3,987.19
27 15 13 00-0047 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0038)		
27 15 13 00-0048 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,214.80 664.53	1,329.06
27 15 13 00-0049 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,943.13 830.66	1,661.33
27 15 13 00-0050 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,350.98 996.80	1,993.59
27 15 13 00-0051 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	15,721.19 1,246.00	2,491.99
27 15 13 00-0052 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	22,973.34 1,744.39	3,488.79
27 15 13 00-0053 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	29,740.86 2,159.72	4,319.45
27 15 13 00-0054 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	43,727.14 2,990.39	5,980.77
27 15 13 00-0055 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0003)		
27 15 13 00-0056 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0055)		
27 15 13 00-0057 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0056)		
27 15 13 00-0058 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,086.16	581.47
27 15 13 00-0059 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,123.14	581.47
27 15 13 00-0060 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,150.80	581.47
27 15 13 00-0061 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,368.59	664.53
27 15 13 00-0062 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,666.57	664.53
27 15 13 00-0063 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,474.31	664.53
27 15 13 00-0064 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,036.15	830.67
27 15 13 00-0065 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	7,480.29	1,329.06
27 15 13 00-0066 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	12,673.41	1,661.33
27 15 13 00-0067 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	18,920.99	2,325.86
27 15 13 00-0068 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0056)		
27 15 13 00-0069 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,055.26 581.46	1,162.93
27 15 13 00-0070 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,092.24 581.46	1,162.93
27 15 13 00-0071 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,119.90 581.46	1,162.93
27 15 13 00-0072 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,199.25 581.46	1,162.93
27 15 13 00-0073 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,497.23 581.46	1,162.93
27 15 13 00-0074 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,581.87 664.53	1,329.06
27 15 13 00-0075 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,420.59 830.66	1,661.33
27 15 13 00-0076 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,587.83 996.80	1,993.59
27 15 13 00-0077 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	14,057.85 1,246.00	2,491.99
27 15 13 00-0078 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	20,859.20 1,744.39	3,488.79



Communications		27	27
Structured Cabling		27 10	
Communications Horizontal Cabling		27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0079 Category 5E, Indoor Telecommunications Cable (27 15 13 00-0002)		
27 15 13 00-0080 Category 5E, Indoor Telecommunications Riser Cable (27 15 13 00-0079)		
27 15 13 00-0081 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0080)		
27 15 13 00-0082 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,173.02	581.47
27 15 13 00-0083 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,220.79	581.47
27 15 13 00-0084 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,360.14	664.53
27 15 13 00-0085 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,407.89	664.53
27 15 13 00-0086 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0086)		
27 15 13 00-0087 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,142.12 581.46	1,162.93
27 15 13 00-0088 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,189.89 581.46	1,162.93
27 15 13 00-0089 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,467.70 664.53	1,329.06
27 15 13 00-0090 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,515.45 664.53	1,329.06
27 15 13 00-0091 Category 5E, Indoor Telecommunications Plenum Cable (27 15 13 00-0079)		
27 15 13 00-0092 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0091)		
27 15 13 00-0093 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,348.66	581.47
27 15 13 00-0094 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,860.30	664.53
27 15 13 00-0095 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0091)		
27 15 13 00-0096 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,317.76 581.46	1,162.93
27 15 13 00-0097 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,967.86 664.53	1,329.06
27 15 13 00-0098 Category 6, Indoor Telecommunications Cable (27 15 13 00-0002)		
27 15 13 00-0099 Category 6, Indoor Telecommunications Riser Cable (27 15 13 00-0098)		
27 15 13 00-0100 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0099)		
27 15 13 00-0101 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,579.67	581.47
27 15 13 00-0102 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,647.93	581.47
27 15 13 00-0103 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0099)		
27 15 13 00-0104 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,548.77 581.46	1,162.93
27 15 13 00-0105 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,617.03 581.46	1,162.93
27 15 13 00-0106 Category 6, Indoor Telecommunications Plenum Cable (27 15 13 00-0098)		
27 15 13 00-0107 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0106)		
27 15 13 00-0108 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	2,211.30	581.47
27 15 13 00-0109 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0106)		
27 15 13 00-0110 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... For Work In Restricted Working Space, Add	3,180.40 581.46	1,162.93
27 15 13 00-0111 Category 6a, Indoor Telecommunications Cable (27 15 13 00-0002)		
27 15 13 00-0112 Category 6a, Indoor Telecommunications Riser Cable (27 15 13 00-0111)		
27 15 13 00-0113 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0112)		
27 15 13 00-0114 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,688.75	581.47
27 15 13 00-0115 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0112)		
27 15 13 00-0116 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,657.85 581.46	1,162.93

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0117 Category 6a, Indoor Telecommunications Plenum Cable (27 15 13 00-0111)		
27 15 13 00-0118 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0117)		
27 15 13 00-0119 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,534.15	581.47
27 15 13 00-0120 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0117)		
27 15 13 00-0121 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed	3,503.25	1,162.93
For Work In Restricted Working Space, Add	581.46	
27 15 13 00-0122 Category 7, Indoor Telecommunications Cable (27 15 13 00-0002)		
27 15 13 00-0123 Category 7, Indoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0122)		
27 15 13 00-0124 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit	3,881.79	664.53
27 15 13 00-0125 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit	7,879.64	664.53
27 15 13 00-0126 Category 7, Indoor Telecommunications Cable, Installed Exposed (27 15 13 00-0122)		
27 15 13 00-0127 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed	4,989.35	1,329.06
For Work In Restricted Working Space, Add	664.53	
27 15 13 00-0128 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed	8,987.20	1,329.06
For Work In Restricted Working Space, Add	664.53	
27 15 13 00-0129 Outdoor Telecommunications Cable (27 15 13 00-0001)		
Note: Cable buried in trench excludes excavation.		
27 15 13 00-0130 PE-89 Outdoor Telecommunications Cable (27 15 13 00-0129)		
Note: Includes foam-skin polyolefin insulated conductors.		
27 15 13 00-0131 24 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0130)		
27 15 13 00-0132 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0131)		
27 15 13 00-0133 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,758.53	664.53
27 15 13 00-0134 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,033.87	1,162.93
27 15 13 00-0135 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,765.45	747.60
27 15 13 00-0136 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,033.87	830.67
27 15 13 00-0137 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,710.76	1,162.93
27 15 13 00-0138 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,113.39	1,329.06
27 15 13 00-0139 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	11,786.80	1,495.19
27 15 13 00-0140 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	17,306.24	2,159.73
27 15 13 00-0141 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	22,911.23	2,824.26
27 15 13 00-0142 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	31,107.79	3,821.05
27 15 13 00-0143 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	50,000.04	7,642.10
27 15 13 00-0144 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	68,803.68	11,297.02
27 15 13 00-0145 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0131)		
27 15 13 00-0146 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,550.86	
27 15 13 00-0147 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,826.20	
27 15 13 00-0148 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,488.57	
27 15 13 00-0149 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,756.98	
27 15 13 00-0150 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	5,295.44	
27 15 13 00-0151 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,421.17	
27 15 13 00-0152 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	11,509.92	
27 15 13 00-0153 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	16,475.57	
27 15 13 00-0154 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	21,180.68	
27 15 13 00-0155 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	28,062.02	
27 15 13 00-0156 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	41,693.40	
27 15 13 00-0157 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	56,620.61	
27 15 13 00-0158 22 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0130)		
27 15 13 00-0159 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0158)		
27 15 13 00-0160 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,933.57	664.53
27 15 13 00-0161 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,360.90	664.53
27 15 13 00-0162 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,434.86	747.60
27 15 13 00-0163 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,225.35	830.67
27 15 13 00-0164 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,572.71	1,162.93
27 15 13 00-0165 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	9,644.67	1,329.06
27 15 13 00-0166 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	16,670.00	1,495.19
27 15 13 00-0167 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	24,270.66	2,159.73
27 15 13 00-0168 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	32,299.87	2,824.26
27 15 13 00-0169 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	47,503.32	3,821.05
27 15 13 00-0170 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	70,706.23	7,642.10



Communications		27
Structured Cabling		27 10
Communications Horizontal Cabling		27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0171 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	99,782.04	11,297.02
27 15 13 00-0172 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0158)		
27 15 13 00-0173 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,725.90	
27 15 13 00-0174 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,153.23	
27 15 13 00-0175 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,157.98	
27 15 13 00-0176 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	4,948.46	
27 15 13 00-0177 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	7,157.39	
27 15 13 00-0178 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	9,229.33	
27 15 13 00-0179 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	16,393.12	
27 15 13 00-0180 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	23,439.99	
27 15 13 00-0181 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	30,569.32	
27 15 13 00-0182 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	44,457.55	
27 15 13 00-0183 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	62,399.59	
27 15 13 00-0184 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	87,598.97	
27 15 13 00-0185 19 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0130)		
27 15 13 00-0186 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0185)		
27 15 13 00-0187 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,498.53	747.60
27 15 13 00-0188 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	9,259.15	830.67
27 15 13 00-0189 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	14,748.11	1,162.93
27 15 13 00-0190 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	17,634.47	1,329.06
27 15 13 00-0191 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0185)		
27 15 13 00-0192 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	5,221.65	
27 15 13 00-0193 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	8,982.26	
27 15 13 00-0194 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	14,332.79	
27 15 13 00-0195 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	17,219.13	
27 15 13 00-0196 PE-39 Outdoor Telecommunications Cable (27 15 13 00-0129) Note: Includes solid polyolefin insulated conductors.		
27 15 13 00-0197 24 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)		
27 15 13 00-0198 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0197)		
27 15 13 00-0199 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,613.80	1,162.93
27 15 13 00-0200 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,950.65	1,162.93
27 15 13 00-0201 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,630.24	1,162.93
27 15 13 00-0202 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,854.04	1,162.93
27 15 13 00-0203 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	7,336.10	1,162.93
27 15 13 00-0204 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	12,929.39	1,495.19
27 15 13 00-0205 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,864.78	2,159.73
27 15 13 00-0206 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	24,810.29	2,824.26
27 15 13 00-0207 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	33,880.57	3,821.05
27 15 13 00-0208 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	53,585.93	7,642.10
27 15 13 00-0209 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	78,104.02	11,297.02
27 15 13 00-0210 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0197)		
27 15 13 00-0211 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,198.48	
27 15 13 00-0212 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,535.33	
27 15 13 00-0213 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,214.92	
27 15 13 00-0214 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,438.72	
27 15 13 00-0215 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	6,920.78	
27 15 13 00-0216 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	12,652.51	
27 15 13 00-0217 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	18,034.11	
27 15 13 00-0218 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	23,079.74	
27 15 13 00-0219 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	30,834.80	
27 15 13 00-0220 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	45,279.29	
27 15 13 00-0221 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	65,920.95	
27 15 13 00-0222 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)		
27 15 13 00-0223 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0222)		
27 15 13 00-0224 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,808.54	1,162.93
27 15 13 00-0225 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,303.53	1,162.93
27 15 13 00-0226 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,356.90	1,162.93
27 15 13 00-0227 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,294.72	1,162.93
27 15 13 00-0228 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,338.70	1,162.93
27 15 13 00-0229 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,707.82	1,495.19
27 15 13 00-0230 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	27,394.47	2,159.73
27 15 13 00-0231 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	35,126.78	2,824.26
27 15 13 00-0232 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	48,996.60	3,821.05

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0233 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	78,062.28	7,642.10
27 15 13 00-0234 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0222)		
27 15 13 00-0235 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,393.22	
27 15 13 00-0236 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,888.21	
27 15 13 00-0237 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,941.58	
27 15 13 00-0238 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	5,879.40	
27 15 13 00-0239 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	9,923.38	
27 15 13 00-0240 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	18,430.94	
27 15 13 00-0241 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	26,563.80	
27 15 13 00-0242 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	33,396.23	
27 15 13 00-0243 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	45,950.83	
27 15 13 00-0244 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	69,755.64	
27 15 13 00-0245 19 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)		
27 15 13 00-0246 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0245)		
27 15 13 00-0247 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,690.35	1,162.93
27 15 13 00-0248 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,620.51	1,162.93
27 15 13 00-0249 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,770.26	1,162.93
27 15 13 00-0250 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0245)		
27 15 13 00-0251 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	6,275.03	
27 15 13 00-0252 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	10,205.19	
27 15 13 00-0253 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	18,354.94	
27 15 13 00-0254 (Aerial) Outdoor Telecommunications Cable (27 15 13 00-0129)		
Note: Includes support wire.		
27 15 13 00-0255 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0254)		
27 15 13 00-0256 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,642.66	2,296.97
27 15 13 00-0257 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,922.94	2,296.97
27 15 13 00-0258 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,618.82	2,296.97
27 15 13 00-0259 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,907.22	2,296.97
27 15 13 00-0260 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	12,359.74	2,296.97
27 15 13 00-0261 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	17,895.51	2,526.67
27 15 13 00-0262 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	23,426.06	2,756.36
27 15 13 00-0263 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0254)		
27 15 13 00-0264 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,977.98	2,296.97
27 15 13 00-0265 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,392.08	2,296.97
27 15 13 00-0266 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,389.47	2,296.97
27 15 13 00-0267 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,359.90	2,296.97
27 15 13 00-0268 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	15,958.31	2,296.97
27 15 13 00-0269 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	24,091.51	2,526.67
27 15 13 00-0270 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0254)		
27 15 13 00-0271 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,421.31	2,296.97
27 15 13 00-0272 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,357.77	2,296.97
27 15 13 00-0273 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,199.00	2,296.97
27 15 13 00-0274 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,881.48	2,296.97
27 15 13 00-0275 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	22,542.77	2,296.97
27 15 13 00-0276 Solid Conductor Low Voltage Cable (27 15 13)		
27 15 13 00-0277 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)		
27 15 13 00-0278 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0279 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,594.89	1,252.28
For #10 AWG, Add		584.96
For Work In Restricted Working Space, Add		626.20
27 15 13 00-0280 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,098.21	1,296.56
For #10 AWG, Add		741.41
For Work In Restricted Working Space, Add		648.47
27 15 13 00-0281 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,541.13	1,342.09
For #10 AWG, Add		877.87
For Work In Restricted Working Space, Add		670.86



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0282	MLF	4	Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,009.82	1,387.63
			For #10 AWG, Add	1,022.50	
			For Work In Restricted Working Space, Add	694.03	
27 15 13 00-0283	MLF	5	Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,534.14	1,481.24
			For #10 AWG, Add	1,175.24	
			For Work In Restricted Working Space, Add	740.84	
27 15 13 00-0284	MLF	6	Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,014.58	1,573.58
			For #10 AWG, Add	1,313.78	
			For Work In Restricted Working Space, Add	787.00	
27 15 13 00-0285	MLF	8	Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,452.22	1,760.79
			For #10 AWG, Add	1,417.80	
			For Work In Restricted Working Space, Add	880.23	
27 15 13 00-0286	MLF	12	Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,225.36	2,321.16
			For #10 AWG, Add	1,881.55	
			For Work In Restricted Working Space, Add	1,160.36	
27 15 13 00-0287	MLF	24	Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,748.09	3,427.98
			For #10 AWG, Add	2,804.33	
			For Work In Restricted Working Space, Add	1,713.55	
27 15 13 00-0288			#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0289	MLF	1	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,310.28	1,095.44
			For Work In Restricted Working Space, Add	547.59	
27 15 13 00-0290	MLF	2	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,786.00	1,134.65
			For Work In Restricted Working Space, Add	567.32	
27 15 13 00-0291	MLF	3	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,203.68	1,173.86
			For Work In Restricted Working Space, Add	587.06	
27 15 13 00-0292	MLF	4	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,644.75	1,214.34
			For Work In Restricted Working Space, Add	607.17	
27 15 13 00-0293	MLF	5	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,133.24	1,296.56
			For Work In Restricted Working Space, Add	648.15	
27 15 13 00-0294	MLF	6	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,579.36	1,377.51
			For Work In Restricted Working Space, Add	688.38	
27 15 13 00-0295	MLF	8	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,973.81	1,540.70
			For Work In Restricted Working Space, Add	770.35	
27 15 13 00-0296	MLF	12	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,591.68	2,030.22
			For Work In Restricted Working Space, Add	1,015.11	
27 15 13 00-0297	MLF	24	Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,811.00	2,999.17
			For Work In Restricted Working Space, Add	1,499.71	
27 15 13 00-0298			#16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0299	MLF	1	Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,057.56	977.79
			For Work In Restricted Working Space, Add	489.15	
27 15 13 00-0300	MLF	2	Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,373.96	1,013.21
			For Work In Restricted Working Space, Add	506.60	
27 15 13 00-0301	MLF	3	Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,844.82	1,048.63
			For Work In Restricted Working Space, Add	524.06	
27 15 13 00-0302	MLF	4	Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,234.92	1,084.05
			For Work In Restricted Working Space, Add	542.28	
27 15 13 00-0303	MLF	5	Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,666.22	1,157.41
			For Work In Restricted Working Space, Add	578.71	
27 15 13 00-0304	MLF	6	Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,061.17	1,229.51
			For Work In Restricted Working Space, Add	614.76	
27 15 13 00-0305	MLF	7	Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,235.97	1,302.89
			For Work In Restricted Working Space, Add	651.19	
27 15 13 00-0306	MLF	8	Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,412.04	1,376.25
			For Work In Restricted Working Space, Add	688.00	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0307	MLF	9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,910.63 731.64	1,463.53
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0308	MLF	12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,846.25 906.39	1,812.65
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0309	MLF	24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,700.75 1,339.00	2,677.87
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0310 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)				
27 15 13 00-0311	MLF	1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,735.99 430.33	861.43
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0312	MLF	2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,042.74 445.89	891.78
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0313	MLF	3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,313.42 461.45	922.14
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0314	MLF	4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,597.85 477.01	953.76
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0315	MLF	5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,924.15 509.26	1,018.27
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0316	MLF	6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,224.43 541.14	1,081.52
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0317	MLF	8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,513.59 605.27	1,210.54
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0318	MLF	12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,653.57 797.67	1,595.09
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0319	MLF	24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,919.63 1,178.28	2,356.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0320 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)				
27 15 13 00-0321	MLF	1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,535.88 391.25	782.99
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0322	MLF	2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,779.84 405.29	810.82
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0323	MLF	3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,993.53 419.33	839.29
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0324	MLF	4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,218.18 433.75	867.75
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0325	MLF	5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,485.22 462.78	925.93
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0326	MLF	6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,731.08 491.81	984.12
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0327	MLF	8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,000.54 550.25	1,100.50
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0328	MLF	12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,950.16 725.19	1,450.89
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0329	MLF	24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,870.22 1,071.27	2,142.80
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0330	MLF	25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,214.45 1,096.70	2,193.40
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0331	MLF	36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,391.94 1,276.96	2,553.91
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0332	MLF	40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,929.57 1,366.89	2,733.53
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0333	MLF	50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	9,513.63 1,708.04	3,416.60
		<i>For Work In Restricted Working Space, Add</i>		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0334 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... For Work In Restricted Working Space, Add	12,901.87 2,248.79	4,498.11
27 15 13 00-0335 #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0336 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... For Work In Restricted Working Space, Add	1,295.09 352.16	704.57
27 15 13 00-0337 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... For Work In Restricted Working Space, Add	1,381.49 364.68	729.87
27 15 13 00-0338 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... For Work In Restricted Working Space, Add	1,486.18 377.58	755.17
27 15 13 00-0339 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... For Work In Restricted Working Space, Add	1,599.36 390.49	780.47
27 15 13 00-0340 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... For Work In Restricted Working Space, Add	1,770.86 416.67	833.59
27 15 13 00-0341 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... For Work In Restricted Working Space, Add	1,943.57 441.71	882.92
27 15 13 00-0342 Triad (27 15 13 00-0277)		
27 15 13 00-0343 MLF 1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit	2,444.46	1,048.63
27 15 13 00-0344 MLF 4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	3,256.16	1,450.89
27 15 13 00-0345 MLF 8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	4,983.75	2,142.80
27 15 13 00-0346 MLF 12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	6,110.87	2,553.91
27 15 13 00-0347 MLF 24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	9,817.15	3,956.72
27 15 13 00-0348 MLF 36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	11,248.82	4,498.11
27 15 13 00-0349 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0276)		
27 15 13 00-0350 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)		
27 15 13 00-0351 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,682.21	2,504.58
For #10 AWG, Add	1,002.43	
For Work In Restricted Working Space, Add	1,252.39	
27 15 13 00-0352 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,259.79	2,593.12
For #10 AWG, Add	1,173.72	
For Work In Restricted Working Space, Add	1,296.95	
27 15 13 00-0353 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,777.32	2,684.20
For #10 AWG, Add	1,325.11	
For Work In Restricted Working Space, Add	1,341.71	
27 15 13 00-0354 MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,323.26	2,775.27
For #10 AWG, Add	1,485.18	
For Work In Restricted Working Space, Add	1,388.06	
27 15 13 00-0355 MLF 5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,003.60	2,962.48
For #10 AWG, Add	1,669.13	
For Work In Restricted Working Space, Add	1,481.68	
27 15 13 00-0356 MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,637.91	3,147.16
For #10 AWG, Add	1,838.45	
For Work In Restricted Working Space, Add	1,574.00	
27 15 13 00-0357 MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,386.32	3,521.58
For #10 AWG, Add	2,004.62	
For Work In Restricted Working Space, Add	1,760.46	
27 15 13 00-0358 MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	11,093.20	4,642.32
For #10 AWG, Add	2,655.12	
For Work In Restricted Working Space, Add	2,320.71	
27 15 13 00-0359 MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	16,459.90	6,855.95
For #10 AWG, Add	3,946.69	
For Work In Restricted Working Space, Add	3,427.09	
27 15 13 00-0360 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0361	MLF	1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,135.58	2,190.87
		<i>For Work In Restricted Working Space, Add</i>	1,095.18	
27 15 13 00-0362	MLF	2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,677.09	2,269.30
		<i>For Work In Restricted Working Space, Add</i>	1,134.65	
27 15 13 00-0363	MLF	3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,160.53	2,347.72
		<i>For Work In Restricted Working Space, Add</i>	1,174.11	
27 15 13 00-0364	MLF	4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,668.65	2,428.68
		<i>For Work In Restricted Working Space, Add</i>	1,214.34	
27 15 13 00-0365	MLF	5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,293.76	2,593.12
		<i>For Work In Restricted Working Space, Add</i>	1,296.31	
27 15 13 00-0366	MLF	6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,873.96	2,755.03
		<i>For Work In Restricted Working Space, Add</i>	1,376.76	
27 15 13 00-0367	MLF	8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,541.63	3,081.38
		<i>For Work In Restricted Working Space, Add</i>	1,540.69	
27 15 13 00-0368	MLF	12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,975.38	4,060.45
		<i>For Work In Restricted Working Space, Add</i>	2,030.22	
27 15 13 00-0369	MLF	24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	14,810.04	5,998.33
		<i>For Work In Restricted Working Space, Add</i>	2,999.42	
27 15 13 00-0370 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0371	MLF	1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,688.07	1,955.59
		<i>For Work In Restricted Working Space, Add</i>	978.30	
27 15 13 00-0372	MLF	2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,062.66	2,026.43
		<i>For Work In Restricted Working Space, Add</i>	1,013.21	
27 15 13 00-0373	MLF	3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,591.71	2,097.26
		<i>For Work In Restricted Working Space, Add</i>	1,048.13	
27 15 13 00-0374	MLF	4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,042.51	2,168.10
		<i>For Work In Restricted Working Space, Add</i>	1,084.56	
27 15 13 00-0375	MLF	5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,595.25	2,314.84
		<i>For Work In Restricted Working Space, Add</i>	1,157.42	
27 15 13 00-0376	MLF	6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,110.36	2,459.04
		<i>For Work In Restricted Working Space, Add</i>	1,229.52	
27 15 13 00-0377	MLF	7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,406.60	2,605.77
		<i>For Work In Restricted Working Space, Add</i>	1,302.38	
27 15 13 00-0378	MLF	8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,705.37	2,752.50
		<i>For Work In Restricted Working Space, Add</i>	1,376.00	
27 15 13 00-0379	MLF	9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,349.42	2,927.07
		<i>For Work In Restricted Working Space, Add</i>	1,463.28	
27 15 13 00-0380	MLF	12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,867.55	3,625.31
		<i>For Work In Restricted Working Space, Add</i>	1,812.78	
27 15 13 00-0381	MLF	24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,164.09	5,355.74
		<i>For Work In Restricted Working Space, Add</i>	2,678.00	
27 15 13 00-0382 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0383	MLF	1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,170.43	1,722.84
		<i>For Work In Restricted Working Space, Add</i>	860.66	
27 15 13 00-0384	MLF	2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,529.05	1,783.56
		<i>For Work In Restricted Working Space, Add</i>	891.78	
27 15 13 00-0385	MLF	3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,851.59	1,844.28
		<i>For Work In Restricted Working Space, Add</i>	922.90	
27 15 13 00-0386	MLF	4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,187.87	1,907.52
		<i>For Work In Restricted Working Space, Add</i>	954.02	
27 15 13 00-0387	MLF	5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,621.70	2,036.55
		<i>For Work In Restricted Working Space, Add</i>	1,018.53	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0388	MLF	6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	5,028.23 1,082.28	2,163.04
27 15 13 00-0389	MLF	8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	5,531.16 1,210.55	2,421.09
27 15 13 00-0390	MLF	12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	7,312.47 1,595.34	3,190.17
27 15 13 00-0391	MLF	24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	10,847.24 2,356.57	4,713.15
27 15 13 00-0392 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0393	MLF	1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,840.03 782.49	1,565.99
27 15 13 00-0394	MLF	2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,130.80 810.57	1,621.65
27 15 13 00-0395	MLF	3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,391.28 838.65	1,678.57
27 15 13 00-0396	MLF	4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,664.01 867.50	1,735.49
27 15 13 00-0397	MLF	5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	4,027.81 925.55	1,851.87
27 15 13 00-0398	MLF	6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	4,370.45 983.62	1,968.24
27 15 13 00-0399	MLF	8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	4,834.70 1,100.50	2,200.99
27 15 13 00-0400	MLF	12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	6,367.46 1,450.38	2,901.76
27 15 13 00-0401	MLF	24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	9,441.12 2,142.54	4,285.61
27 15 13 00-0402	MLF	25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	9,870.09 2,193.39	4,386.80
27 15 13 00-0403	MLF	36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	11,648.47 2,553.92	5,107.82
27 15 13 00-0404	MLF	40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	12,485.86 2,733.77	5,467.05
27 15 13 00-0405	MLF	50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	15,207.08 3,416.07	6,833.18
27 15 13 00-0406	MLF	100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	20,397.82 4,497.58	8,996.23
27 15 13 00-0407 #22 AWG, Shielded, Low Voltage Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0408	MLF	1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,468.95 704.32	1,409.14
27 15 13 00-0409	MLF	2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,597.10 729.36	1,459.74
27 15 13 00-0410	MLF	3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,744.80 755.17	1,510.34
27 15 13 00-0411	MLF	4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,900.98 780.97	1,560.93
27 15 13 00-0412	MLF	5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,159.76 833.34	1,667.19
27 15 13 00-0413	MLF	6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,415.96 883.43	1,765.86
27 15 13 00-0414 Triad, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0415	MLF	1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	2,444.46	1,048.63
27 15 13 00-0416	MLF	4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	3,256.16	1,450.89

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0417 MLF 8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	4,983.75	2,142.80
27 15 13 00-0418 MLF 12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	6,110.87	2,553.91
27 15 13 00-0419 MLF 24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	9,817.15	3,956.72
27 15 13 00-0420 MLF 36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	11,248.82	4,498.11
27 15 13 00-0421 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)		
27 15 13 00-0422 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0423 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,075.25	1,095.44
For Work In Restricted Working Space, Add	547.59	
27 15 13 00-0424 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,352.33	1,134.65
For Work In Restricted Working Space, Add	567.32	
27 15 13 00-0425 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,599.47	1,173.86
For Work In Restricted Working Space, Add	587.06	
27 15 13 00-0426 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,859.29	1,214.34
For Work In Restricted Working Space, Add	607.17	
27 15 13 00-0427 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,174.72	1,295.30
For Work In Restricted Working Space, Add	647.39	
27 15 13 00-0428 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,470.90	1,376.25
For Work In Restricted Working Space, Add	688.00	
27 15 13 00-0429 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,807.86	1,540.70
For Work In Restricted Working Space, Add	770.35	
27 15 13 00-0430 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,037.08	2,030.22
For Work In Restricted Working Space, Add	1,015.11	
27 15 13 00-0431 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,479.11	2,999.17
For Work In Restricted Working Space, Add	1,499.71	
27 15 13 00-0432 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0433 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,850.61	977.79
For Work In Restricted Working Space, Add	489.15	
27 15 13 00-0434 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,094.85	1,013.21
For Work In Restricted Working Space, Add	506.60	
27 15 13 00-0435 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,312.75	1,048.63
For Work In Restricted Working Space, Add	524.06	
27 15 13 00-0436 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,543.24	1,084.05
For Work In Restricted Working Space, Add	542.28	
27 15 13 00-0437 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,823.11	1,156.15
For Work In Restricted Working Space, Add	578.33	
27 15 13 00-0438 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,086.16	1,229.51
For Work In Restricted Working Space, Add	614.76	
27 15 13 00-0439 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,235.11	1,302.89
For Work In Restricted Working Space, Add	651.19	
27 15 13 00-0440 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,455.90	1,376.25
For Work In Restricted Working Space, Add	688.00	
27 15 13 00-0441 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,795.00	1,463.53
For Work In Restricted Working Space, Add	731.60	
27 15 13 00-0442 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,477.28	1,812.65
For Work In Restricted Working Space, Add	906.39	
27 15 13 00-0443 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,647.91	2,677.87
For Work In Restricted Working Space, Add	1,339.19	
27 15 13 00-0444 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0445 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,618.14	860.15
For Work In Restricted Working Space, Add	430.33	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0446	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,815.68	891.78
		<i>For Work In Restricted Working Space, Add</i>	445.89	
27 15 13 00-0447	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,943.57	923.40
		<i>For Work In Restricted Working Space, Add</i>	461.45	
27 15 13 00-0448	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,109.46	953.76
		<i>For Work In Restricted Working Space, Add</i>	477.01	
27 15 13 00-0449	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,318.32	1,018.27
		<i>For Work In Restricted Working Space, Add</i>	509.26	
27 15 13 00-0450	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,525.93	1,082.79
		<i>For Work In Restricted Working Space, Add</i>	541.14	
27 15 13 00-0451	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,005.77	1,210.54
		<i>For Work In Restricted Working Space, Add</i>	605.27	
27 15 13 00-0452	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,912.37	1,595.09
		<i>For Work In Restricted Working Space, Add</i>	797.67	
27 15 13 00-0453	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,296.69	2,356.58
		<i>For Work In Restricted Working Space, Add</i>	1,178.28	
27 15 13 00-0454		#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0455	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,433.82	782.99
		<i>For Work In Restricted Working Space, Add</i>	391.25	
27 15 13 00-0456	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,572.00	810.82
		<i>For Work In Restricted Working Space, Add</i>	405.29	
27 15 13 00-0457	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,845.22	923.40
		<i>For Work In Restricted Working Space, Add</i>	461.45	
27 15 13 00-0458	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,015.93	970.71
		<i>For Work In Restricted Working Space, Add</i>	485.36	
27 15 13 00-0459	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,183.37	1,018.27
		<i>For Work In Restricted Working Space, Add</i>	509.26	
27 15 13 00-0460	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,366.47	1,082.79
		<i>For Work In Restricted Working Space, Add</i>	541.14	
27 15 13 00-0461	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,609.87	1,204.98
		<i>For Work In Restricted Working Space, Add</i>	602.62	
27 15 13 00-0462	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,207.33	1,450.89
		<i>For Work In Restricted Working Space, Add</i>	725.19	
27 15 13 00-0463	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,755.97	2,142.80
		<i>For Work In Restricted Working Space, Add</i>	1,071.27	
27 15 13 00-0464	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,974.46	2,193.40
		<i>For Work In Restricted Working Space, Add</i>	1,096.70	
27 15 13 00-0465	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,872.51	2,553.91
		<i>For Work In Restricted Working Space, Add</i>	1,276.96	
27 15 13 00-0466	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,294.87	2,733.53
		<i>For Work In Restricted Working Space, Add</i>	1,366.89	
27 15 13 00-0467	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,662.36	3,416.60
		<i>For Work In Restricted Working Space, Add</i>	1,708.04	
27 15 13 00-0468	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,282.16	4,498.11
		<i>For Work In Restricted Working Space, Add</i>	2,248.79	
27 15 13 00-0469		#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0470	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,259.83	704.57
		<i>For Work In Restricted Working Space, Add</i>	352.16	
27 15 13 00-0471	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,333.24	729.87
		<i>For Work In Restricted Working Space, Add</i>	364.68	
27 15 13 00-0472	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,425.88	755.17
		<i>For Work In Restricted Working Space, Add</i>	377.58	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0473	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,525.87	780.47
		<i>For Work In Restricted Working Space, Add</i>	390.49	
27 15 13 00-0474	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,666.45	833.59
		<i>For Work In Restricted Working Space, Add</i>	416.67	
27 15 13 00-0475	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,814.77	882.92
		<i>For Work In Restricted Working Space, Add</i>	441.71	
27 15 13 00-0476		Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0477		#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0478	MLF	1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,900.56	2,190.87
		<i>For Work In Restricted Working Space, Add</i>	1,095.18	
27 15 13 00-0479	MLF	2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,243.41	2,269.30
		<i>For Work In Restricted Working Space, Add</i>	1,134.65	
27 15 13 00-0480	MLF	3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,556.32	2,347.72
		<i>For Work In Restricted Working Space, Add</i>	1,174.11	
27 15 13 00-0481	MLF	4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,883.19	2,428.68
		<i>For Work In Restricted Working Space, Add</i>	1,214.34	
27 15 13 00-0482	MLF	5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,332.71	2,590.59
		<i>For Work In Restricted Working Space, Add</i>	1,294.79	
27 15 13 00-0483	MLF	6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,764.23	2,752.50
		<i>For Work In Restricted Working Space, Add</i>	1,376.00	
27 15 13 00-0484	MLF	8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,375.68	3,081.38
		<i>For Work In Restricted Working Space, Add</i>	1,540.69	
27 15 13 00-0485	MLF	12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,420.78	4,060.45
		<i>For Work In Restricted Working Space, Add</i>	2,030.22	
27 15 13 00-0486	MLF	24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,478.15	5,998.33
		<i>For Work In Restricted Working Space, Add</i>	2,999.42	
27 15 13 00-0487		#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0488	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,481.12	1,955.59
		<i>For Work In Restricted Working Space, Add</i>	978.30	
27 15 13 00-0489	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,783.55	2,026.43
		<i>For Work In Restricted Working Space, Add</i>	1,013.21	
27 15 13 00-0490	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,059.64	2,097.26
		<i>For Work In Restricted Working Space, Add</i>	1,048.13	
27 15 13 00-0491	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,350.83	2,168.10
		<i>For Work In Restricted Working Space, Add</i>	1,084.56	
27 15 13 00-0492	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,750.86	2,312.30
		<i>For Work In Restricted Working Space, Add</i>	1,156.66	
27 15 13 00-0493	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,135.35	2,459.04
		<i>For Work In Restricted Working Space, Add</i>	1,229.52	
27 15 13 00-0494	MLF	7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,405.74	2,605.77
		<i>For Work In Restricted Working Space, Add</i>	1,302.38	
27 15 13 00-0495	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,749.23	2,752.50
		<i>For Work In Restricted Working Space, Add</i>	1,376.00	
27 15 13 00-0496	MLF	9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,233.67	2,927.07
		<i>For Work In Restricted Working Space, Add</i>	1,463.20	
27 15 13 00-0497	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,498.58	3,625.31
		<i>For Work In Restricted Working Space, Add</i>	1,812.78	
27 15 13 00-0498	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	11,111.86	5,355.74
		<i>For Work In Restricted Working Space, Add</i>	2,678.37	
27 15 13 00-0499		#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0500 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,052.58 860.66	1,720.31
27 15 13 00-0501 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,301.99 891.78	1,783.56
27 15 13 00-0502 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,481.74 922.90	1,846.81
27 15 13 00-0503 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,699.48 954.02	1,907.52
27 15 13 00-0504 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,015.87 1,018.53	2,036.55
27 15 13 00-0505 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,329.73 1,082.28	2,165.57
27 15 13 00-0506 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,023.34 1,210.55	2,421.09
27 15 13 00-0507 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,571.27 1,595.34	3,190.17
27 15 13 00-0508 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,224.30 2,356.57	4,713.15
27 15 13 00-0509 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0510 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,737.97 782.49	1,565.99
27 15 13 00-0511 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,922.96 810.57	1,621.65
27 15 13 00-0512 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,383.39 922.90	1,846.81
27 15 13 00-0513 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,633.77 970.71	1,941.43
27 15 13 00-0514 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,880.92 1,018.53	2,036.55
27 15 13 00-0515 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,170.27 1,082.28	2,165.57
27 15 13 00-0516 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,618.59 1,205.23	2,409.96
27 15 13 00-0517 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,624.63 1,450.38	2,901.76
27 15 13 00-0518 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,326.87 2,142.54	4,285.61
27 15 13 00-0519 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,630.10 2,193.39	4,386.80
27 15 13 00-0520 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,129.04 2,553.92	5,107.82
27 15 13 00-0521 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,851.16 2,733.77	5,467.05
27 15 13 00-0522 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,355.81 3,416.07	6,833.18
27 15 13 00-0523 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,778.11 4,497.58	8,996.23
27 15 13 00-0524 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0525 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,433.69 704.32	1,409.14
27 15 13 00-0526 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,548.85 729.36	1,459.74

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0527	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,684.50	1,510.34
		<i>For Work In Restricted Working Space, Add</i>	755.17	
27 15 13 00-0528	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,827.49	1,560.93
		<i>For Work In Restricted Working Space, Add</i>	780.97	
27 15 13 00-0529	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,055.35	1,667.19
		<i>For Work In Restricted Working Space, Add</i>	833.34	
27 15 13 00-0530	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,287.16	1,765.86
		<i>For Work In Restricted Working Space, Add</i>	883.43	
27 15 13 00-0531 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench (27 15 13 00-0276)				
		Note: Excludes excavation.		
27 15 13 00-0532	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	2,123.66	
27 15 13 00-0533	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	2,591.13	
27 15 13 00-0534	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	3,002.03	
27 15 13 00-0535	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	3,437.02	
27 15 13 00-0536	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	3,911.02	
27 15 13 00-0537	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	4,344.11	
27 15 13 00-0538 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) (27 15 13 00-0276)				
27 15 13 00-0539	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,238.43	670.00
27 15 13 00-0540	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,773.63	717.80
27 15 13 00-0541	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,621.71	907.44
27 15 13 00-0542	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	4,367.78	1,049.57
27 15 13 00-0543	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	6,830.21	1,196.29
27 15 13 00-0544	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	8,284.41	1,528.35
27 15 13 00-0545 Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)				
27 15 13 00-0546	MLF	1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,831.05	977.79
27 15 13 00-0547	MLF	2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,162.41	1,013.21
27 15 13 00-0548	MLF	3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,398.72	1,048.63
27 15 13 00-0549	MLF	4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,530.51	1,084.05
27 15 13 00-0550	MLF	5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,994.92	1,156.15
27 15 13 00-0551	MLF	6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,233.52	1,229.51
27 15 13 00-0552	MLF	8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,998.75	1,376.25
27 15 13 00-0553	MLF	12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,998.02	1,812.65
27 15 13 00-0554	MLF	24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,566.87	2,677.87
27 15 13 00-0555	MLF	1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,586.71	860.15
27 15 13 00-0556	MLF	2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,859.32	891.78
27 15 13 00-0557	MLF	3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,086.47	923.40
27 15 13 00-0558	MLF	4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,203.70	953.76
27 15 13 00-0559	MLF	5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,601.10	1,018.27
27 15 13 00-0560	MLF	6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,902.77	1,082.79
27 15 13 00-0561	MLF	8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,275.25	1,210.54
27 15 13 00-0562	MLF	12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,241.21	1,595.09
27 15 13 00-0563	MLF	24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,718.94	2,356.58
27 15 13 00-0564	MLF	1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,408.37	782.99
27 15 13 00-0565	MLF	2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,584.02	810.82
27 15 13 00-0566	MLF	3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,754.52	838.65
27 15 13 00-0567	MLF	4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,865.54	867.75



	Communications	27	
	Structured Cabling	27 10	27
	Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0568 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,025.90	925.93
27 15 13 00-0569 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,203.91	984.12
27 15 13 00-0570 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,468.01	1,100.50
27 15 13 00-0571 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,383.70	1,450.89
27 15 13 00-0572 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,123.30	2,142.80
27 15 13 00-0573 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,383.12	2,193.40
27 15 13 00-0574 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,336.74	2,553.91
27 15 13 00-0575 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,833.79	2,733.53
27 15 13 00-0576 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,272.67	3,416.60
27 15 13 00-0577 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	11,145.81	4,498.11
27 15 13 00-0578 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	21,395.48	8,285.33
27 15 13 00-0579 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	31,866.90	10,964.47
27 15 13 00-0580 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	42,408.56	13,816.90
27 15 13 00-0581 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	59,571.30	18,952.54
27 15 13 00-0582 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,370.82	782.99
27 15 13 00-0583 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,500.04	810.82
27 15 13 00-0584 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,625.98	838.65
27 15 13 00-0585 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,714.31	867.75
27 15 13 00-0586 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,851.98	925.93
27 15 13 00-0587 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,000.49	984.12
27 15 13 00-0588 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,239.61	1,100.50
27 15 13 00-0589 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,035.48	1,450.89
27 15 13 00-0590 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,563.94	2,142.80
27 15 13 00-0591 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,760.68	2,193.40
27 15 13 00-0592 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,610.66	2,553.91
27 15 13 00-0593 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,013.15	2,733.53
27 15 13 00-0594 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,343.32	3,416.60
27 15 13 00-0595 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	9,830.69	4,498.11
27 15 13 00-0596 MLF 250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	18,612.35	8,285.33
27 15 13 00-0597 MLF 500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	26,953.23	10,964.47
27 15 13 00-0598 MLF 750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	35,404.67	13,816.90
27 15 13 00-0599 MLF 1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	49,459.90	18,952.54
27 15 13 00-0600 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)		
27 15 13 00-0601 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,910.17	977.79
27 15 13 00-0602 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,190.16	1,013.21
27 15 13 00-0603 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,364.08	1,048.63
27 15 13 00-0604 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,597.13	1,084.05
27 15 13 00-0605 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,874.13	1,156.15
27 15 13 00-0606 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,148.60	1,229.51
27 15 13 00-0607 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,797.78	1,376.25
27 15 13 00-0608 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,931.42	1,812.65

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0609 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,357.11	2,677.87
27 15 13 00-0610 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,672.17	860.15
27 15 13 00-0611 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,912.55	891.78
27 15 13 00-0612 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,062.79	923.40
27 15 13 00-0613 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,262.22	953.76
27 15 13 00-0614 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,500.88	1,018.27
27 15 13 00-0615 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,738.30	1,082.79
27 15 13 00-0616 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,296.36	1,210.54
27 15 13 00-0617 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,281.96	1,595.09
27 15 13 00-0618 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,386.80	2,356.58
27 15 13 00-0619 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,471.95	782.99
27 15 13 00-0620 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,678.84	810.82
27 15 13 00-0621 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,824.02	838.65
27 15 13 00-0622 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,086.93	867.75
27 15 13 00-0623 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,318.59	925.93
27 15 13 00-0624 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,762.67	984.12
27 15 13 00-0625 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,087.86	1,100.50
27 15 13 00-0626 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,902.45	1,450.89
27 15 13 00-0627 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,885.44	2,142.80
27 15 13 00-0628 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,229.86	2,193.40
27 15 13 00-0629 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,411.06	2,553.91
27 15 13 00-0630 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,950.14	2,733.53
27 15 13 00-0631 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	9,536.90	3,416.60
27 15 13 00-0632 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	12,934.82	4,498.11
27 15 13 00-0633 MLF 250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	25,182.02	8,285.33
27 15 13 00-0634 MLF 500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	38,551.91	10,964.47
27 15 13 00-0635 MLF 750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	51,936.29	13,816.90
27 15 13 00-0636 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	73,326.60	18,951.27
27 15 13 00-0637 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,411.49	782.99
27 15 13 00-0638 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,560.70	810.82
27 15 13 00-0639 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,670.44	838.65
27 15 13 00-0640 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,855.92	867.75
27 15 13 00-0641 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit	2,039.21	925.93
27 15 13 00-0642 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,357.92	984.12
27 15 13 00-0643 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,636.13	1,100.50
27 15 13 00-0644 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,367.32	1,450.89
27 15 13 00-0645 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,051.46	2,142.80
27 15 13 00-0646 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,302.32	2,193.40
27 15 13 00-0647 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,274.40	2,553.91
27 15 13 00-0648 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,727.26	2,733.53
27 15 13 00-0649 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,152.02	3,416.60
27 15 13 00-0650 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	10,975.08	4,498.11



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0651 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	21,034.31	8,285.33
27 15 13 00-0652 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	31,229.45	10,964.47
27 15 13 00-0653 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	41,499.62	13,816.90
27 15 13 00-0654 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	58,259.66	18,952.54
27 15 13 00-0655 Sound System Cables (27 15 13) Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656 Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0655)		
27 15 13 00-0657 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0656)		
27 15 13 00-0658 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,041.34	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0659 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,950.13	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0660 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,879.78	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0661 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,956.72	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0662 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,204.01	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0663 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,450.48	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0664 MLF 4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,205.05	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0665 MLF 4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,086.30	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0656)		
27 15 13 00-0667 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,079.03	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0668 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,974.10	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0669 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,914.71	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0670 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,013.81	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0671 MLF 8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,223.19	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0672 MLF 2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,200.09	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0673 MLF 2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,054.95	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0674 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,301.66	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0675 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,547.70	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0676 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,944.49	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0677 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,993.51	885.46
For Work In Restricted Working Space, Add	531.27	
27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0655)		
27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0680	MLF	2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,155.89	442.72
27 15 13 00-0681	MLF	2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,064.68	442.72
27 15 13 00-0682	MLF	2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	994.33	442.72
27 15 13 00-0683	MLF	4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,071.27	442.72
27 15 13 00-0684	MLF	4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,318.56	442.72
27 15 13 00-0685	MLF	6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,565.03	442.72
27 15 13 00-0686	MLF	4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	1,319.60	442.72
27 15 13 00-0687	MLF	4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	1,200.85	442.72
27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)				
27 15 13 00-0689	MLF	2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,193.58	442.72
27 15 13 00-0690	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,088.65	442.72
27 15 13 00-0691	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,029.26	442.72
27 15 13 00-0692	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,128.36	442.72
27 15 13 00-0693	MLF	8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,337.74	442.72
27 15 13 00-0694	MLF	2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,314.64	442.72
27 15 13 00-0695	MLF	2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,169.50	442.72
27 15 13 00-0696	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,416.21	442.72
27 15 13 00-0697	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,662.25	442.72
27 15 13 00-0698	MLF	2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,108.06	442.72
27 15 13 00-0699	MLF	2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,059.04	442.72
27 15 33 Communications Coaxial Horizontal Cabling (27 15)				
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 33 00-0001 Indoor Coaxial Cable (27 15 33)				
27 15 33 00-0002 Coaxial Distribution Cable (27 15 33 00-0001)				
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.				
27 15 33 00-0003	MLF	RG-6/U Coaxial Distribution Cable, Installed In Conduit.....	2,106.78	404.78
27 15 33 00-0004	MLF	RG-6A/U Coaxial Distribution Cable, Installed In Conduit.....	6,659.44	404.78
27 15 33 00-0005	MLF	RG-8/U Coaxial Distribution Cable, Installed In Conduit.....	3,731.23	427.55
27 15 33 00-0006	MLF	RG-8A/U Coaxial Distribution Cable, Installed In Conduit.....	4,586.41	427.55
27 15 33 00-0007	MLF	RG-11/U Coaxial Distribution Cable, Installed In Conduit.....	4,209.73	505.97
27 15 33 00-0008	MLF	RG-11A/U Coaxial Distribution Cable, Installed In Conduit.....	5,863.59	505.97
27 15 33 00-0009	MLF	RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	12,282.41	708.36
27 15 33 00-0010	MLF	RG-58/U Coaxial Distribution Cable, Installed In Conduit.....	1,611.55	354.18
27 15 33 00-0011	MLF	RG-58A/U Coaxial Distribution Cable, Installed In Conduit.....	1,781.01	354.18
27 15 33 00-0012	MLF	RG-58C/U Coaxial Distribution Cable, Installed In Conduit.....	2,079.53	354.18
27 15 33 00-0013	MLF	RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	4,914.84	708.36
27 15 33 00-0014	MLF	RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	2,403.25	354.18
27 15 33 00-0015	MLF	RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	5,803.04	708.36
27 15 33 00-0016	MLF	1/2" Hard Line Coaxial, Installed In Conduit.....	2,229.96	505.97
27 15 33 00-0017 Coaxial, Indoor Telecommunications Cable (27 15 33 00-0001)				
27 15 33 00-0018 Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 15 33 00-0017)				
27 15 33 00-0019	MLF	RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,443.60	581.47
27 15 33 00-0020	MLF	RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	2,797.00	581.47
27 15 33 00-0021	MLF	RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,336.04	664.53
27 15 33 00-0022	MLF	RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	3,468.57	664.53
27 15 33 00-0023 Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 15 33 00-0017)				
27 15 33 00-0024	MLF	RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108).....	2,412.70	1,162.93
		<i>For Work In Restricted Working Space, Add</i>	581.46	
27 15 33 00-0025	MLF	RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108).....	3,766.10	1,162.93
		<i>For Work In Restricted Working Space, Add</i>	581.46	



Communications		27	27
Structured Cabling		27 10	
Communications Horizontal Cabling		27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 33 00-0026 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114)..... <i>For Work In Restricted Working Space, Add</i>	2,443.60 664.53	1,329.06
27 15 33 00-0027 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120)..... <i>For Work In Restricted Working Space, Add</i>	4,576.13 664.53	1,329.06
27 15 33 00-0028 Outdoor Coaxial Cable (27 15 33)		
27 15 33 00-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 15 33 00-0029) Note: Corrugated steel armor jacket.		
27 15 33 00-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	6,618.94	1,893.86
27 15 33 00-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial	4,296.87	1,332.10
27 15 33 00-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	3,326.12	785.91
27 15 33 00-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial.....	2,139.06	785.91
27 15 33 00-0034 MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	3,244.30	1,228.00

END OF SECTION 27

27	27	Communications
	27 10	Structured Cabling
	27 15	Communications Horizontal Cabling



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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		Earthwork	31	31
		Maintenance of Earthwork	31 01	
		Maintenance of Earth Moving	31 01 20	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 Earthwork

31 01 Maintenance of Earthwork⁽³¹⁾

31 01 20 Maintenance of Earth Moving^(31 01)

31 01 20 00-0001 Rip Settling Basins^(31 01 20)

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR	Rip Light Soil And Sand, By Dozer	632.94
31 01 20 00-0003	ACR	Rip Light Soil And Sand, By Grader With Rear Ripper	971.51
31 01 20 00-0004	ACR	Rip Light Soil And Sand, By Rubber Tire Front End Loader	831.12

31 05 Common Work Results for Earthwork⁽³¹⁾

31 05 13 Soils for Earthwork^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 05 13 00-0001 Fill Material (Loose, Purchased Material)^(31 05 13)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 05 13 00-0002	CY	Bank Run/Fill Sand	35.84
		For Up To 8, Add	7.17
		For >8 To 16, Add	3.58
		For >48 To 64, Deduct	-2.57
		For >64 To 96, Deduct	-4.36
		For >96, Deduct	-6.16
31 05 13 00-0003	CY	Screened/Washed Filter/Septic Sand	42.82
		For Up To 8, Add	8.56
		For >8 To 16, Add	4.28
		For >48 To 64, Deduct	-2.92
		For >64 To 96, Deduct	-5.06
		For >96, Deduct	-7.20
31 05 13 00-0004	CY	3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	59.57
		For Up To 8, Add	11.91
		For >8 To 16, Add	5.96
		For >48 To 64, Deduct	-3.76
		For >64 To 96, Deduct	-6.74
		For >96, Deduct	-9.72
31 05 13 00-0005	CY	3/16" Minus, Screened/Washed Concrete Sand	53.29
		For Up To 8, Add	10.66
		For >8 To 16, Add	5.33
		For >48 To 64, Deduct	-3.44
		For >64 To 96, Deduct	-6.11
		For >96, Deduct	-8.77
31 05 13 00-0006	CY	3/32" Minus, Screened/Washed Masonry/Mortar Sand	96.56
		For Up To 8, Add	19.31
		For >8 To 16, Add	9.66
		For >48 To 64, Deduct	-5.61
		For >64 To 96, Deduct	-10.44
		For >96, Deduct	-15.26
31 05 13 00-0007	CY	Common Fill, Native Soil/Dirt	44.91
		For Up To 8, Add	8.98
		For >8 To 16, Add	4.49
		For >48 To 64, Deduct	-3.03
		For >64 To 96, Deduct	-5.27
		For >96, Deduct	-7.52
31 05 13 00-0008	CY	Lime Rock Screening	40.52
		For Up To 8, Add	8.10
		For >8 To 16, Add	4.05
		For >48 To 64, Deduct	-2.81
		For >64 To 96, Deduct	-4.83
		For >96, Deduct	-6.86
31 05 13 00-0009	CY	Crushed Lime Rock Maximum 3-1/2"	40.52
		For Up To 8, Add	8.10
		For >8 To 16, Add	4.05
		For >48 To 64, Deduct	-2.81
		For >64 To 96, Deduct	-4.83
		For >96, Deduct	-6.86
31 05 13 00-0010	CY	Sand/Clay	44.82
		For Up To 8, Add	8.96
		For >8 To 16, Add	4.48
		For >48 To 64, Deduct	-3.02
		For >64 To 96, Deduct	-5.26
		For >96, Deduct	-7.50
31 05 13 00-0011	CY	Recycled Concrete Aggregate	36.19
		For Up To 8, Add	7.24
		For >8 To 16, Add	3.62
		For >48 To 64, Deduct	-2.59
		For >64 To 96, Deduct	-4.40
		For >96, Deduct	-6.21

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0012 CY Pitrun Clay	65.85	
For Up To 8, Add	13.17	
For >8 To 16, Add	6.59	
For >48 To 64, Deduct	-4.07	
For >64 To 96, Deduct	-7.37	
For >96, Deduct	-10.66	
31 05 13 00-0013 CY Light Clay / Loam	53.22	
For Up To 8, Add	10.64	
For >8 To 16, Add	5.32	
For >48 To 64, Deduct	-3.44	
For >64 To 96, Deduct	-6.10	
For >96, Deduct	-8.76	
31 05 13 00-0014 CY Heavy Clay	65.85	
For Up To 8, Add	13.17	
For >8 To 16, Add	6.59	
For >48 To 64, Deduct	-4.07	
For >64 To 96, Deduct	-7.37	
For >96, Deduct	-10.66	

31 05 16 Aggregates for Earthwork (31 05)

See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 05 16 00-0001 Aggregate (Loose, Purchased Material) (31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 05 16 00-0002 CY #2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	54.68	
For Up To 8, Add	10.94	
For >8 To 16, Add	5.47	
For >48 To 64, Deduct	-3.51	
For >64 To 96, Deduct	-6.25	
For >96, Deduct	-8.98	
31 05 16 00-0003 CY #3 Stone Aggregate Fill (1" To 2" Clean)	56.97	
For Up To 8, Add	11.39	
For >8 To 16, Add	5.70	
For >48 To 64, Deduct	-3.63	
For >64 To 96, Deduct	-6.48	
For >96, Deduct	-9.33	
31 05 16 00-0004 CY #4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	54.68	
For Up To 8, Add	10.94	
For >8 To 16, Add	5.47	
For >48 To 64, Deduct	-3.51	
For >64 To 96, Deduct	-6.25	
For >96, Deduct	-8.98	
31 05 16 00-0005 CY #5 Stone Aggregate Fill (1/2" To 1" Clean)	58.63	
For Up To 8, Add	11.73	
For >8 To 16, Add	5.86	
For >48 To 64, Deduct	-3.71	
For >64 To 96, Deduct	-6.64	
For >96, Deduct	-9.57	
31 05 16 00-0006 CY #6 Stone Aggregate Fill (3/8" To 3/4" Clean)	60.96	
For Up To 8, Add	12.19	
For >8 To 16, Add	6.10	
For >48 To 64, Deduct	-3.83	
For >64 To 96, Deduct	-6.88	
For >96, Deduct	-9.92	
31 05 16 00-0007 CY #56 Stone Aggregate Fill (3/8" To 1")	59.00	
For Up To 8, Add	11.80	
For >8 To 16, Add	5.90	
For >48 To 64, Deduct	-3.73	
For >64 To 96, Deduct	-6.68	
For >96, Deduct	-9.63	
31 05 16 00-0008 CY #57 Stone Aggregate Fill (3/8" To 1")	63.06	
For Up To 8, Add	12.61	
For >8 To 16, Add	6.31	
For >48 To 64, Deduct	-3.93	
For >64 To 96, Deduct	-7.09	
For >96, Deduct	-10.24	
31 05 16 00-0009 CY #67 Or #68 Stone Aggregate Fill (3/16" To 3/4")	56.85	
For Up To 8, Add	11.37	
For >8 To 16, Add	5.69	
For >48 To 64, Deduct	-3.62	
For >64 To 96, Deduct	-6.47	
For >96, Deduct	-9.31	
31 05 16 00-0010 CY #7 Stone Aggregate Fill (3/8" To 1/2")	57.98	
For Up To 8, Add	11.60	
For >8 To 16, Add	5.80	
For >48 To 64, Deduct	-3.68	
For >64 To 96, Deduct	-6.58	
For >96, Deduct	-9.48	
31 05 16 00-0011 CY #78 Stone Aggregate Fill (3/32" To 1/2")	58.46	
For Up To 8, Add	11.69	
For >8 To 16, Add	5.85	
For >48 To 64, Deduct	-3.70	
For >64 To 96, Deduct	-6.63	
For >96, Deduct	-9.55	



		Earthwork	31
		Common Work Results for Earthwork	31 05
		Aggregates for Earthwork	31 05 16

31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0012	CY		#8 Stone Aggregate Fill (3/32" To 3/8")	60.96	
			For Up To 8, Add	12.19	
			For >8 To 16, Add	6.10	
			For >48 To 64, Deduct	-3.83	
			For >64 To 96, Deduct	-6.88	
			For >96, Deduct	-9.92	
31 05 16 00-0013	CY		#89 Stone Aggregate Fill (1/16" To 3/8")	61.66	
			For Up To 8, Add	12.33	
			For >8 To 16, Add	6.17	
			For >48 To 64, Deduct	-3.86	
			For >64 To 96, Deduct	-6.95	
			For >96, Deduct	-10.03	
31 05 16 00-0014	CY		#9 Stone Aggregate Fill (3/32" To 3/16")	60.96	
			For Up To 8, Add	12.19	
			For >8 To 16, Add	6.10	
			For >48 To 64, Deduct	-3.83	
			For >64 To 96, Deduct	-6.88	
			For >96, Deduct	-9.92	
31 05 16 00-0015	CY		#10 Stone Aggregate Fill (1/16" To 3/16")	62.40	
			For Up To 8, Add	12.48	
			For >8 To 16, Add	6.24	
			For >48 To 64, Deduct	-3.90	
			For >64 To 96, Deduct	-7.02	
			For >96, Deduct	-10.14	
31 05 16 00-0016	CY		#610 Modified Stone Aggregate Fill (1/16" To 3/4")	61.66	
			For Up To 8, Add	12.33	
			For >8 To 16, Add	6.17	
			For >48 To 64, Deduct	-3.86	
			For >64 To 96, Deduct	-6.95	
			For >96, Deduct	-10.03	
31 05 16 00-0017	CY		Screenings Stone Aggregate Fill (3/16" Max)	51.47	
			For Up To 8, Add	10.29	
			For >8 To 16, Add	5.15	
			For >48 To 64, Deduct	-3.35	
			For >64 To 96, Deduct	-5.93	
			For >96, Deduct	-8.50	
31 05 16 00-0018	CY		Over 6" To 12" Stone Aggregate Fill, Random Size	56.08	
			For Up To 8, Add	11.22	
			For >8 To 16, Add	5.61	
			For >48 To 64, Deduct	-3.58	
			For >64 To 96, Deduct	-6.39	
			For >96, Deduct	-9.19	
31 05 16 00-0019	CY		Over 6" To 12" Graded Stone Aggregate Fill	56.08	
			For Up To 8, Add	11.22	
			For >8 To 16, Add	5.61	
			For >48 To 64, Deduct	-3.58	
			For >64 To 96, Deduct	-6.39	
			For >96, Deduct	-9.19	
31 05 16 00-0020	CY		3" To 7" Surge Stone Aggregate Fill, Random Size	60.68	
			For Up To 8, Add	12.14	
			For >8 To 16, Add	6.07	
			For >48 To 64, Deduct	-3.81	
			For >64 To 96, Deduct	-6.85	
			For >96, Deduct	-9.88	
31 05 16 00-0021	CY		3" To 7" Surge Stone Graded Aggregate Fill	63.96	
			For Up To 8, Add	12.79	
			For >8 To 16, Add	6.40	
			For >48 To 64, Deduct	-3.98	
			For >64 To 96, Deduct	-7.18	
			For >96, Deduct	-10.37	
31 05 16 00-0022	CY		Crusher Run Aggregate Fill (2-1/2" Minus)	35.43	
			For Up To 8, Add	7.09	
			For >8 To 16, Add	3.54	
			For >48 To 64, Deduct	-2.55	
			For >64 To 96, Deduct	-4.32	
			For >96, Deduct	-6.09	
31 05 16 00-0023	CY		Crusher Run Aggregate Fill (1-1/2" Minus)	39.05	
			For Up To 8, Add	7.81	
			For >8 To 16, Add	3.91	
			For >48 To 64, Deduct	-2.73	
			For >64 To 96, Deduct	-4.69	
			For >96, Deduct	-6.64	
31 05 16 00-0024	CY		Crusher Run Aggregate Fill (3/4" Minus)	36.70	
			For Up To 8, Add	7.34	
			For >8 To 16, Add	3.67	
			For >48 To 64, Deduct	-2.62	
			For >64 To 96, Deduct	-4.45	
			For >96, Deduct	-6.29	
31 05 16 00-0025	CY		Miscellaneous Crushed Base, Processed Concrete, Paving	54.18	
			For Up To 8, Add	10.84	
			For >8 To 16, Add	5.42	
			For >48 To 64, Deduct	-3.49	
			For >64 To 96, Deduct	-6.20	
			For >96, Deduct	-8.91	

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization⁽³¹⁾

⁽⁰⁵⁾
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing⁽³¹⁾**31 11 Clearing and Grubbing^(31 10)****31 11 00 00-0001 Clear And Grub Roots And Stumps^(31 11)**

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002	ACR	Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	7,804.76
		Note: Includes grub and removal of stump	
31 11 00 00-0003	ACR	Clear And Grub Light Stumps Only Up To 6" Diameter	2,059.63
31 11 00 00-0004	ACR	Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	9,105.56
		Note: Includes grub and removal of stump	
31 11 00 00-0005	ACR	Clear And Grub Medium Stumps Only Up To 10" Diameter	3,432.71
31 11 00 00-0006	ACR	Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	10,347.23
		Note: Includes grub and removal of stump	
31 11 00 00-0007	ACR	Clear And Grub Heavy Stumps Only Up To 16" Diameter	3,901.28
31 11 00 00-0008	ACR	Clearing By Machine - Light Brush Without Grub	300.49
31 11 00 00-0009	ACR	Clearing By Machine - Medium Brush Without Grub	632.39
31 11 00 00-0010	ACR	Clearing By Machine - Heavy Brush Without Grub	894.29
31 11 00 00-0011	ACR	Chipping - Light Brush	2,428.58
31 11 00 00-0012	ACR	Chipping - Medium Brush	3,122.61
31 11 00 00-0013	ACR	Chipping - Heavy Brush	4,372.06

31 11 00 00-0014 Loading Of Cleared And Grubbed Material^(31 11)

See CSI section 01 74 19 00-0029 for hauling.

31 11 00 00-0015	CY	Machine Loading Of Cleared And Grubbed Material	10.62
31 11 00 00-0016	CY	Chute Loading Of Cleared And Grubbed Material	12.75
31 11 00 00-0017	CY	Hand Loading Of Cleared And Grubbed Material	35.85
31 11 00 00-0018	CY	Wheel And Ramp Loading Of Cleared And Grubbed Material	28.17

31 13 Selective Tree and Shrub Removal and Trimming^(31 10)**31 13 13 Selective Tree and Shrub Removal^(31 13)****31 13 13 00-0001 Individual Tree Removal^(31 13 13)**

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002	EA	Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	569.10
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0003	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	853.64
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0004	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,138.19
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0005	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	1,707.29
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0006	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	2,276.39
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0007	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	2,845.49
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-711.37
31 13 13 00-0008	EA	>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	3,414.58
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-853.65
31 13 13 00-0009	EA	>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	4,552.78
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-1,138.20

31 13 13 00-0010 Stump Removal^(31 13 13)

Note: Measured by diameter of stump.

31 13 13 00-0011 Stump Removal By Machine^(31 13 13 00-0010)

31 13 13 00-0012	EA	Up To 6" Diameter Stump Removal	102.98
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0013	EA	>6" To 12" Diameter Stump Removal	197.38
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0014	EA	>12" To 24" Diameter Stump Removal	257.45
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0015	EA	>24" To 36" Diameter Stump Removal	386.19
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0016	EA	>36" To 48" Diameter Stump Removal	454.87
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0017	EA	>48" To 60" Diameter Stump Removal	535.51
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0018	EA	>60" To 72" Diameter Stump Removal	635.05
		Note: Includes excavation necessary to remove stump and loading.	



		Earthwork	31	31
		Site Clearing	31 10	
		Selective Tree and Shrub Removal and Trimming	31 13	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
31 13 13 00-0019	EA	>72" To 84" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	746.61	
31 13 13 00-0020 Stump Removal By Hand (31 13 13 00-0019)				
31 13 13 00-0021	EA	Up To 6" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	590.68	
31 13 13 00-0022	EA	>6" To 12" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	738.36	
31 13 13 00-0023	EA	>12" To 24" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,082.92	
31 13 13 00-0024	EA	>24" To 36" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,476.71	
31 13 13 00-0025	EA	>36" To 48" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,968.94	
31 13 13 00-0026	EA	>48" To 60" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,461.18	
31 13 13 00-0027	EA	>60" To 72" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,953.42	
31 13 13 00-0028	EA	>72" To 84" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,445.65	
31 13 13 00-0029 Stump Grinding (31 13 13)				
Note: Measured by diameter of stump.				
31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil (31 13 13 00-0029)				
Note: Level soil to match existing surface area.				
31 13 13 00-0031	EA	Stump Grinding Up To 6" Tree For 24" Depth, Add	110.48 22.10	
31 13 13 00-0032	EA	Stump Grinding >6" To 12" Tree..... For 24" Depth, Add	147.31 29.46	
31 13 13 00-0033	EA	Stump Grinding >12" To 15" Tree..... For 24" Depth, Add	165.73 33.15	
31 13 13 00-0034	EA	Stump Grinding >15" To 18" Tree..... For 24" Depth, Add	184.14 36.83	
31 13 13 00-0035	EA	Stump Grinding >18" To 21" Tree..... For 24" Depth, Add	197.95 39.59	
31 13 13 00-0036	EA	Stump Grinding >21" To 24" Tree..... For 24" Depth, Add	211.76 42.35	
31 13 13 00-0037	EA	Stump Grinding >24" To 27" Tree..... For 24" Depth, Add	230.17 46.03	
31 13 13 00-0038	EA	Stump Grinding >27" To 30" Tree..... For 24" Depth, Add	251.43 50.29	
31 13 13 00-0039	EA	Stump Grinding >30" To 33" Tree..... For 24" Depth, Add	279.36 55.87	
31 13 13 00-0040	EA	Stump Grinding >33" To 36" Tree..... For 24" Depth, Add	298.00 59.60	
31 13 13 00-0041	EA	Stump Grinding >36" To 42" Tree..... For 24" Depth, Add	335.24 67.05	
31 13 13 00-0042	EA	Stump Grinding >42" To 48" Tree..... For 24" Depth, Add	372.49 74.50	
31 13 13 00-0043	EA	Stump Grinding >48" To 60" Tree..... For 24" Depth, Add	465.61 93.12	
31 13 13 00-0044	EA	Stump Grinding >60" To 72" Tree..... For 24" Depth, Add	582.02 116.40	
31 13 13 00-0045	EA	Stump Grinding >72" To 84" Tree..... For 24" Depth, Add	744.99 149.00	
31 13 13 00-0046 Shrub Removal (31 13 13)				
31 13 13 00-0047	EA	Removal Of 18" To 24" Shrub, Broadleaf Evergreen.....	42.22	
31 13 13 00-0048	EA	Removal Of 2' To 3' Shrub, Broadleaf Evergreen.....	66.20	
31 13 13 00-0049	EA	Removal Of 3' To 4' Shrub, Broadleaf Evergreen.....	76.76	
31 13 13 00-0050	EA	Removal Of 4' To 5' Shrub, Broadleaf Evergreen.....	115.14	
31 13 13 00-0051	EA	Removal Of 12" To 15" Shrub, Deciduous.....	21.10	
31 13 13 00-0052	EA	Removal Of 18" To 24" Shrub, Deciduous.....	32.62	
31 13 13 00-0053	EA	Removal Of 2' To 3' Shrub, Deciduous.....	42.22	
31 13 13 00-0054	EA	Removal Of 3' To 4' Shrub, Deciduous.....	46.05	
31 13 13 00-0055	EA	Removal Of 18" To 24" Shrub, Evergreen.....	42.22	
31 13 13 00-0056	EA	Removal Of 24" To 30" Shrub, Evergreen.....	46.05	
31 13 13 00-0057	EA	Removal Of 30" To 36" Shrub, Evergreen.....	66.20	
31 13 13 00-0058	EA	Removal Of 36" To 42" Shrub, Evergreen.....	115.14	

31 13 16 Selective Tree and Shrub Trimming (31 13)

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree and Shrub Removal and Trimming**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 13 16 00-0001		Tree Trimming For Pole Line Construction And Maintenance ^(31 13 16) Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.	
31 13 16 00-0002	LF	Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	1.84
31 13 16 00-0003	LF	Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	2.77
31 13 16 00-0004	LF	Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction.....	3.26

31 20 Earth Moving ⁽³¹⁾

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 23 Excavation and Fill ^(31 20)**31 23 16 Excavation** ^(31 23)**31 23 16 13 Trenching** ^(31 23 16)

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001		Excavation For Trenching By Machine ^(31 23 16 13) Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0002	CY	12" Wide or Less, Excavation for Trenching by Machine in Soil	10.32
		For Excavation In Light Material (Class A), Deduct	-1.29
		For Excavation In Heavy/Wet Material (Class C), Add	4.13
		For Up To 20, Add	8.26
		For >20 To 50, Add	5.16
		For >50 To 250, Add	2.58
		For >500 To 1,000, Deduct	-1.55
		For >1,000, Deduct	-3.10
31 23 16 13-0003	CY	Over 12" Wide, Excavation for Trenching by Machine in Soil	6.87
		For Excavation In Light Material (Class A), Deduct	-0.86
		For Excavation In Heavy/Wet Material (Class C), Add	2.75
		For Up To 20, Add	5.50
		For >20 To 50, Add	3.44
		For >50 To 250, Add	1.72
		For >500 To 1,000, Deduct	-1.03
		For >1,000, Deduct	-2.06
31 23 16 13-0004	CY	12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	17.08
		Note: Includes compacted aggregate	
		For Up To 20, Add	13.66
		For >20 To 50, Add	8.54
		For >50 To 250, Add	4.27
		For >500 To 1,000, Deduct	-2.56
		For >1,000, Deduct	-5.12
31 23 16 13-0005	CY	Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	12.20
		Note: Includes compacted aggregate	
		For Up To 20, Add	9.76
		For >20 To 50, Add	6.10
		For >50 To 250, Add	3.05
		For >500 To 1,000, Deduct	-1.83
		For >1,000, Deduct	-3.66
31 23 16 13-0006		Excavation For Trenching By Hand ^(31 23 16 13)	
31 23 16 13-0007	CY	Excavation For Trenching By Hand In Soil	118.30
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0008	CY	Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate.....	202.93
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0009		Backfilling Or Placing Subbase For Trenches ^(31 23 16 13) Note: With imported or stockpiled materials.	
31 23 16 13-0010	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	3.69
		For Up To 20, Add	2.95
		For >20 To 50, Add	1.85
		For >50 To 250, Add	0.92
		For >500 To 1,000, Deduct	-0.55
		For >1,000, Deduct	-1.11
31 23 16 13-0011	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	32.87
31 23 16 13-0012		Compaction Of Fill Or Subbase For Trenches ^(31 23 16 13) Note: Includes restoration of final grade.	



	Earthwork	31	
	Earth Moving	31 20	31
	Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera.....	6.88	
For Up To 20, Add	5.50	
For >20 To 50, Add	3.44	
For >50 To 250, Add	1.72	
For >500 To 1,000, Deduct	-1.03	
For >1,000, Deduct	-2.06	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand	37.07	
31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0029 for hauling.		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching	6.42	
For Up To 20, Add	5.14	
For >20 To 50, Add	3.21	
For >50 To 250, Add	1.61	
For >500 To 1,000, Deduct	-0.96	
For >1,000, Deduct	-1.93	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching	86.75	
31 23 16 13-0018 Spread Excess Or Imported Material For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up.		
31 23 16 13-0019 CY Spread Excess Or Imported Material On Site With Machine	3.01	
For Up To 20, Add	2.41	
For >20 To 50, Add	1.51	
For >50 To 250, Add	0.75	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.90	
31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13)		
Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021 LF Direct Burial of Cable or Piping up to 12" Deep	2.33	
31 23 16 13-0022 LF Direct Burial of Cable or Piping >12" to 24" Deep.....	2.57	
31 23 16 13-0023 LF Direct Burial of Cable or Piping >24" to 36" Deep.....	3.66	
31 23 16 13-0024 LF Direct Burial of Cable or Piping >36" to 48" Deep.....	4.13	
31 23 16 13-0025 Utility Chain Trencher (31 23 16 13)		
31 23 16 13-0026 Utility Trench, Chain Trencher (31 23 16 13-0025)		
Note: Earth left adjacent to trench.		
31 23 16 13-0027 LF 4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.22	
31 23 16 13-0028 LF 4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.34	
31 23 16 13-0029 LF 4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.39	
31 23 16 13-0030 LF 6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.47	
31 23 16 13-0031 LF 6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.61	
31 23 16 13-0032 LF 6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.84	
31 23 16 13-0033 LF 6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.20	
31 23 16 13-0034 LF 8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.08	
31 23 16 13-0035 LF 8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.45	
31 23 16 13-0036 LF 8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.78	
31 23 16 13-0037 LF 8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	3.30	
31 23 16 13-0038 Backfill Trenches With Compaction (31 23 16 13-0025)		
31 23 16 13-0039 LF Backfill 4" Wide, 12" Deep Trench, With Compaction.....	0.19	
31 23 16 13-0040 LF Backfill 4" Wide, 18" Deep Trench, With Compaction.....	0.30	
31 23 16 13-0041 LF Backfill 4" Wide, 24" Deep Trench, With Compaction.....	0.39	
31 23 16 13-0042 LF Backfill 6" Wide, 12" Deep Trench, With Compaction.....	0.30	
31 23 16 13-0043 LF Backfill 6" Wide, 18" Deep Trench, With Compaction.....	0.39	
31 23 16 13-0044 LF Backfill 6" Wide, 24" Deep Trench, With Compaction.....	0.59	
31 23 16 13-0045 LF Backfill 6" Wide, 36" Deep Trench, With Compaction.....	0.86	
31 23 16 13-0046 LF Backfill 8" Wide, 12" Deep Trench, With Compaction.....	0.39	
31 23 16 13-0047 LF Backfill 8" Wide, 18" Deep Trench, With Compaction.....	0.59	
31 23 16 13-0048 LF Backfill 8" Wide, 24" Deep Trench, With Compaction.....	0.80	
31 23 16 13-0049 LF Backfill 8" Wide, 36" Deep Trench, With Compaction.....	1.19	
31 23 16 26 Rock Removal (31 23 16)		
31 23 16 26-0001 Rock Breaking By Machine (31 23 16 26)		
Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone)	27.48	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate).....	29.30	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt)	34.80	
31 23 16 33 Bulk Excavation (31 23 16)		
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0001			Excavation (31 23 16 33) Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002	CY		Bulk Excavation by Dozer in Soil	9.41	
			For Excavation In Light Material (Class A), Deduct	-1.18	
			For Excavation In Heavy/Wet Material (Class C), Add	3.76	
			For >1,000, Deduct	-1.41	
31 23 16 33-0003	CY		Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	5.54	
			For Excavation In Light Material (Class A), Deduct	-0.69	
			For Excavation In Heavy/Wet Material (Class C), Add	2.22	
			For >1,000, Deduct	-0.83	
31 23 16 33-0004	CY		Bulk Excavation by Dozer in Loose Rock	11.58	
			Note: Includes compacted aggregate		
			For >1,000, Deduct	-1.74	
31 23 16 33-0005	CY		Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock	6.83	
			Note: Includes compacted aggregate		
			For >1,000, Deduct	-1.02	
31 23 16 33-0006			Spreading, Shaping And Rough Grading (31 23 16 33) Note: Imported or stockpiled material for bulk excavation.		
31 23 16 33-0007	CY		Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine	5.80	
			For >1,000, Deduct	-0.87	
31 23 16 33-0008			Cutting, Shaping and Rough Grading Of Existing Elevations (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0009	CY		Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine	6.45	
			For >1,000, Deduct	-0.97	
31 23 16 33-0010			Relocating On Site Excavated Material From Excavation (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0011	CY		Relocating On Site Excavated Material From Bulk Excavation >100' to 300'	5.16	
			For >1,000, Deduct	-0.77	
31 23 16 33-0012	CY		Relocating On Site Excavated Material From Bulk Excavation >300' to 500'	7.74	
			For >1,000, Deduct	-1.16	
31 23 16 33-0013	CY		Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000'	11.62	
			For >1,000, Deduct	-1.74	
31 23 16 33-0014	CY		Relocating On Site Excavated Material From Bulk Excavation >1,000'	15.48	
			For >1,000, Deduct	-2.32	
31 23 16 33-0015			Finish Grading (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0016	SY		Finish Grading for Bulk Excavation by Machine	0.65	
31 23 16 33-0017			Compaction Of Fill Or Subbase, Per Lift (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0018	SY		Compaction of Fill or Subbase for Bulk Excavation by Machine	0.65	
			Note: Per Lift		
31 23 16 33-0019			Loading Excess Material For Removal From Excavation (31 23 16 33) Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0029 for hauling.		
31 23 16 33-0020	CY		Loading Excess Material For Removal From Bulk Excavation	5.55	
			For >1,000, Deduct	-0.83	
31 23 16 36			Excavation for Building Foundations and Other Structures (31 23 16) Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001			Excavation (31 23 16 36) Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.		
31 23 16 36-0002			Excavation For Building Foundations And Other Structures By Skid-Steer Loader (31 23 16 36-0001)		
31 23 16 36-0003	CY		Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil	8.54	
			For Excavation In Light Material (Class A), Deduct	-1.07	
			For Excavation In Heavy/Wet Material (Class C), Add	3.42	
			For Up To 20, Add	8.54	
			For >20 To 50, Add	6.41	
			For >50 To 250, Add	3.42	
			For >250 To 500, Add	1.28	
31 23 16 36-0004	CY		Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock	10.62	
			Note: Includes compacted aggregate		
			For Up To 20, Add	10.62	
			For >20 To 50, Add	7.97	
			For >50 To 250, Add	4.25	
			For >250 To 500, Add	1.59	



	Earthwork	31	
	Earth Moving	31 20	
	Excavation and Fill	31 23	31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader (31 23 16 36-0001)		
31 23 16 36-0006 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil	6.66	
For Excavation In Light Material (Class A), Deduct	-0.83	
For Excavation In Heavy/Wet Material (Class C), Add	2.66	
For Up To 20, Add	6.66	
For >20 To 50, Add	5.00	
For >50 To 250, Add	2.66	
For >250 To 500, Add	1.00	
31 23 16 36-0007 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock	7.92	
Note: Includes compacted aggregate		
For Up To 20, Add	7.92	
For >20 To 50, Add	5.94	
For >50 To 250, Add	3.17	
For >250 To 500, Add	1.19	
31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand (31 23 16 36- 0001)		
Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009 CY Excavation For Building Foundations And Other Structures By Hand in Soil	118.30	
For Excavation In Light Material (Class A), Deduct	-14.79	
For Excavation In Heavy/Wet Material (Class C), Add	47.32	
31 23 16 36-0010 CY Excavation For Building Foundations And Other Structures By Hand in Loose Rock	202.93	
Note: Includes compacted aggregate		
31 23 16 36-0011 Relocating On Site Excavated Material From Excavation (31 23 16 36)		
Note: For building foundations and other structures over 100'.		
31 23 16 36-0012 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300'	5.16	
For Up To 20, Add	5.16	
For >20 To 50, Add	3.87	
For >50 To 250, Add	2.06	
For >250 To 500, Add	0.77	
31 23 16 36-0013 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500'	7.74	
For Up To 20, Add	7.74	
For >20 To 50, Add	5.81	
For >50 To 250, Add	3.10	
For >250 To 500, Add	1.16	
31 23 16 36-0014 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000'	11.62	
For Up To 20, Add	11.62	
For >20 To 50, Add	8.72	
For >50 To 250, Add	4.65	
For >250 To 500, Add	1.74	
31 23 16 36-0015 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000'	15.48	
For Up To 20, Add	15.48	
For >20 To 50, Add	11.61	
For >50 To 250, Add	6.19	
For >250 To 500, Add	2.32	
31 23 16 36-0016 Backfilling (31 23 16 36)		
Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	4.22	
For Up To 20, Add	4.22	
For >20 To 50, Add	3.17	
For >50 To 250, Add	1.69	
For >250 To 500, Add	0.63	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	5.15	
For Up To 20, Add	5.15	
For >20 To 50, Add	3.86	
For >50 To 250, Add	2.06	
For >250 To 500, Add	0.77	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand	56.34	
31 23 16 36-0020 Compaction Of Fill Or Subbase (31 23 16 36)		
Note: For building foundations and other structures.		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	10.90	
For Up To 20, Add	10.90	
For >20 To 50, Add	8.18	
For >50 To 250, Add	4.36	
For >250 To 500, Add	1.64	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	37.07	
31 23 16 36-0023 Grading (31 23 16 36)		
Note: For building foundations and other structures.		

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0024	SY	Rough Grading For Building Foundations And Other Structures by Machine	1.11	
31 23 16 36-0025	SY	Finish Grading For Building Foundations And Other Structures by Machine	1.80	
31 23 16 36-0026	SY	Finish Grading For Building Foundations And Other Structures by Hand	10.95	
31 23 16 36-0027		Loading Excess Material For Removal From Excavation (31 23 16 36)		
		Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0029 for hauling.		
31 23 16 36-0028	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	5.78	
		For Up To 20, Add	5.78	
		For >20 To 50, Add	4.34	
		For >50 To 250, Add	2.31	
		For >250 To 500, Add	0.87	
31 23 16 36-0029	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	86.75	
31 23 16 36-0030		Spread Material (31 23 16 36)		
		Note: For building foundations and other structures.		
31 23 16 36-0031	CY	Spread Excess Or Imported Material On Site By Machine	3.01	
		For Up To 20, Add	3.01	
		For >20 To 50, Add	2.26	
		For >50 To 250, Add	1.20	
		For >250 To 500, Add	0.45	
31 23 16 36-0032	CY	Spread Excess Or Imported Material On Site By Hand	47.87	
31 23 16 46		Excavation Operations to Expose Underground Pipes and Structures (31 23 16)		
		Note: Includes work above, beside and under pipe. Pipes up to 82" in diameter. Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine. See CSI section 31 23 16 13-0015 for loading excess material, 31 23 16 13-0018 for spreading excess material.		
31 23 16 46-0001		Excavation To Expose Underground Pipe Or Structures (31 23 16 46)		
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench. Excludes rock breaking.		
31 23 16 46-0002		Excavation By Machine To Expose Underground Pipe Or Structure (31 23 16 46-0001)		
31 23 16 46-0003	CY	Excavation By Hydraulic Excavator, Backhoe, Loader in Soil/Common Excavation To Expose Underground Pipes And Structures	13.31	
		For Excavation In Light Material (Class A), Deduct	-1.66	
		For Excavation In Heavy/Wet Material (Class C), Add	5.32	
		For Up To 20, Add	13.31	
		For >20 To 50, Add	9.98	
		For >50 To 250, Add	5.32	
		For >250 To 500, Add	2.00	
31 23 16 46-0004	CY	Excavation By Hydraulic Excavator, Backhoe, Loader in Loose Rock To Expose Underground Pipes And Structures	15.81	
		For Up To 20, Add	15.81	
		For >20 To 50, Add	11.86	
		For >50 To 250, Add	6.32	
		For >250 To 500, Add	2.37	
31 23 16 46-0005		Excavation By Hand To Expose Underground Pipe Or Structure (31 23 16 46-0001)		
31 23 16 46-0006	CY	Excavation By Hand In Soil To Expose Underground Pipes And Structures	147.88	
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 46-0007	CY	Excavation By Hand In Loose Rock To Expose Underground Pipes And Structures	220.83	
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 46-0008		Backfilling Or Placing Subbase At Exposed Underground Pipe Or Structures (31 23 16 46)		
		Note: With imported or stockpiled materials		
31 23 16 46-0009	CY	Backfilling By Hydraulic Excavator, Backhoe, Loader At Exposed Underground Pipes And Structures	9.99	
		For >20 To 50, Add	7.49	
		For >50 To 250, Add	4.00	
		For >250 To 500, Add	1.50	
31 23 16 46-0010	CY	Backfilling by Hand At Exposed Underground Pipes And Structures	67.04	
31 23 16 46-0011		Compaction Of Fill Or Subbase At Exposed Underground Pipe Or Structures (31 23 16 46)		
		Note: With imported or stockpiled materials		
31 23 16 46-0012	CY	Compaction of Fill or Subbase by Mechanical Means At Exposed Underground Pipe Or Structures	13.75	
		For Up To 20, Add	13.75	
		For >20 To 50, Add	10.31	
		For >50 To 250, Add	5.50	
		For >250 To 500, Add	2.06	
31 23 16 46-0013	CY	Compaction of Fill or Subbase by Hand At Exposed Underground Pipe Or Structures	44.49	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 46-0014 Loading Excess Material For Removal From Excavation At Exposed Underground Pipe Or Structures (31 23 16 46) Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0029 for hauling.		
31 23 16 46-0015 CY Load Excess Material by Machine for Removal from Excavation At Exposed Underground Pipe Or Structures.....	6.42	
For Up To 20, Add	5.14	
For >20 To 50, Add	3.21	
For >50 To 250, Add	1.61	
For >500 To 1,000, Deduct	-0.96	
For >1,000, Deduct	-1.93	
31 23 16 46-0016 CY Load Excess Material by Hand for Removal from Excavation At Exposed Underground Pipe Or Structures.....	86.75	
31 23 16 46-0017 Spread Excess Or Imported Material At Exposed Underground Pipe Or Structures (31 23 16 46) Note: Includes hand work by laborer for clean-up.		
31 23 16 46-0018 CY Spread Excess Or Imported Material On Site By Machine At Exposed Underground Pipe Or Structures.....	3.01	
For Up To 20, Add	2.41	
For >20 To 50, Add	1.51	
For >50 To 250, Add	0.75	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.90	
31 23 16 46-0019 CY Spread Excess Or Imported Material On Site By Hand At Exposed Underground Pipe Or Structures.....	47.87	
31 23 19 Dewatering (31 23)		
31 23 19 00-0001 Well Point Dewatering System (31 23 19)		
31 23 19 00-0002 Delivery, Installation And Removal Cost (31 23 19 00-0001) Note: Priced by linear foot of header used.		
31 23 19 00-0003 LF Up To 100' In Length Well Point System Delivery, Installation And Removal	119.93	
31 23 19 00-0004 LF >100' To 250' In Length Well Point System Delivery, Installation And Removal	65.96	
31 23 19 00-0005 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal	59.97	
31 23 19 00-0006 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal	53.97	
31 23 19 00-0007 LF >500' To 1,000' In Length Well Point System Delivery, Installation And Removal	47.97	
31 23 19 00-0008 LF >1,000' In Length Well Point System Delivery, Installation And Removal	41.98	
31 23 19 00-0009 Well Point Dewatering System Rental (31 23 19 00-0001) Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.		
31 23 19 00-0010 LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	2.92	
For >5 Days And <1 Month, Deduct	-0.64	
For >1 Month, Deduct	-0.82	
31 23 19 00-0011 LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.70	
For >5 Days And <1 Month, Deduct	-0.37	
For >1 Month, Deduct	-0.48	
31 23 19 00-0012 LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	1.22	
For >5 Days And <1 Month, Deduct	-0.27	
For >1 Month, Deduct	-0.34	
31 23 19 00-0013 LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.89	
For >5 Days And <1 Month, Deduct	-0.20	
For >1 Month, Deduct	-0.25	
31 23 19 00-0014 LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.81	
For >5 Days And <1 Month, Deduct	-0.18	
For >1 Month, Deduct	-0.23	
31 23 19 00-0015 Well Point Dewatering System Operation Costs (31 23 19 00-0001) Note: The quantity for operation shall be the total number of hours the well point system is operational.		
31 23 19 00-0016 HR Operation Costs.....	143.57	
31 24 Embankments (31 20)		
31 24 13 Roadway Embankments (31 24)		
31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13) Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY.		
31 24 13 00-0002 Cutting, Shaping And Rough Grading (31 24 13 00-0001) Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.		
31 24 13 00-0003 Cutting, Shaping, And Rough Grading (31 24 13 00-0002)		

31 Earthwork**31 20 Earth Moving****31 24 Embankments**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0004 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil.....	6.45	
For Up To 20, Add	6.45	
For >20 To 50, Add	4.84	
For >50 To 250, Add	2.58	
For >250 To 500, Add	0.97	
For >1,000, Deduct	-0.97	
31 24 13 00-0005 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock.....	8.00	
Note: Includes compacted aggregate		
For Up To 20, Add	8.00	
For >20 To 50, Add	6.00	
For >50 To 250, Add	3.20	
For >250 To 500, Add	1.20	
For >1,000, Deduct	-1.20	
31 24 13 00-0006 Cutting, Shaping, And Rough Grading By Hand (31 24 13 00-0002)		
31 24 13 00-0007 SY Shape Embankment/Slope By Hand Up To 1 On 4 Slope	6.06	
31 24 13 00-0008 SY Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	7.89	
31 24 13 00-0009 Scarify Soil (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010 CSF Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	5.97	
For Up To 20, Add	2.99	
For >20 To 50, Add	1.49	
For >250 To 500, Deduct	-0.60	
For >500, Deduct	-1.19	
31 24 13 00-0011 Relocating On Site Excavated Material (31 24 13 00-0001)		
31 24 13 00-0012 CY >500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	11.62	
For Up To 20, Add	11.62	
For >20 To 50, Add	8.72	
For >50 To 250, Add	4.65	
For >250 To 500, Add	1.74	
For >1,000, Deduct	-1.74	
31 24 13 00-0013 CY >1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	15.48	
For Up To 20, Add	15.48	
For >20 To 50, Add	11.61	
For >50 To 250, Add	6.19	
For >250 To 500, Add	2.32	
For >1,000, Deduct	-2.32	
31 24 13 00-0014 Spread And Shape Imported Or Stockpiled Material (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.		
31 24 13 00-0015 CY Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	7.10	
For Up To 20, Add	7.10	
For >20 To 50, Add	5.33	
For >50 To 250, Add	2.84	
For >250 To 500, Add	1.07	
For >1,000, Deduct	-1.07	
31 24 13 00-0016 Grading (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017 SY Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.73	
31 24 13 00-0018 SY Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.97	
31 24 13 00-0019 LF Finish Grade For Curb	1.10	
31 24 13 00-0020 LF Finish Grade For Curb And Gutter	1.33	
31 24 13 00-0021 Compaction Of Fill Or Subbase (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		
31 24 13 00-0022 SY Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.65	
For Up To 250, Add	0.65	
For >250 To 500, Add	0.49	
For >500 To 1,000, Add	0.26	
For >5,000, Deduct	-0.10	
31 24 13 00-0023 Loading Excess Material For Removal From Excavation (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine 5.55 For Up To 20, Add 5.55 For >20 To 50, Add 4.16 For >50 To 250, Add 2.22 For >250 To 500, Add 0.83 For >1,000, Deduct -0.83		
31 25 Erosion and Sedimentation Controls (31 20)		
31 25 14 Stabilization Measures for Erosion and Sedimentation Control (31 25)		
31 25 14 13 Hydraulically-Applied Erosion Control (31 25 14)		
31 25 14 13-0001 Bonded Fiber Matrix (31 25 14 13)		
31 25 14 13-0002 MSF Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied 53.17		
31 25 14 13-0003 MSF >25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied.....48.66		
31 25 14 13-0004 MSF >50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied.....44.84		
31 25 14 13-0005 MSF >100,000 Bonded Fiber Matrix, Hydraulically Applied 42.65		
31 25 14 16 Rolled Erosion Control Mats and Blankets (31 25 14)		
Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.		
31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)		
31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)		
31 25 14 16-0003 SY S75 Single Net Erosion Control Blanket 2.53 Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004 SY S75BN Single Net Erosion Control Blanket 3.23 Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005 SY Curlex 1, Single Net Erosion Control Blanket 2.41 Note: As manufactured by American Excelsior		
31 25 14 16-0006 SY Curlex 1, Single Net Erosion Control Blanket 2.53 Note: As manufactured by American Green.		
31 25 14 16-0007 SY Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting 2.25		
31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)		
31 25 14 16-0009 SY S150 Double Net Erosion Control Blanket 3.25 Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0010 SY S150 BN Double Net Erosion Control Blanket 4.34 Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.		
31 25 14 16-0011 SY Curlex II, Double Net Erosion Control Blanket, Natural 2.73 Note: As manufactured by American Excelsior.		
31 25 14 16-0012 SY Curlex II, Double Net Erosion Control Blanket, Green 2.85 Note: As manufactured by American Excelsior.		
31 25 14 16-0013 SY Enforcer Double Net Erosion Control Blanket.....3.03 Note: As manufactured by American Excelsior.		
31 25 14 16-0014 Turf Reinforcement Mats (TRM) (31 25 14 16-0001)		
Note: Permanent, UV stabilized.		
31 25 14 16-0015 SY P300 Permanent Polypropylene Turf Reinforcement Mat.....12.05 Note: 100% synthetic, UV stabilized, two layer netting.		
31 25 14 16-0016 SY C350 Permanent Turf Reinforcement Mat 11.10 Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.		
31 25 14 16-0017 SY Recyclex TRM, Permanent Turf Reinforcement Mat 13.27 Note: As manufactured by American Excelsior, 100% recycled		
31 25 14 16-0018 Jute Mesh Erosion Control Blankets (31 25 14 16-0001)		
31 25 14 16-0019 SY Jute Mesh, Open Uniform Weave 3.02		
31 25 14 16-0020 Revegetation Mat (31 25 14 16-0001)		
31 25 14 16-0021 SY 3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber 9.24 Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.		
31 25 14 16-0022 SY Webbed Revegetation Mat, Polypropylene Fiber 13.21 Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.		
31 25 14 23 Stabilization Measures for Erosion Control (31 25 14)		
See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.		
31 25 14 23-0001 Sand Bags (31 25 14 23)		
Note: Bags filled on site with delivered material. Includes material and placement of bags.		

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0002	BAG	50 LB Capacity Sand Bag With Sand	6.15	2.49
		For >2,500 To 5,000, Deduct	-0.50	
		For >5,000, Deduct	-1.11	
31 25 14 23-0003	BAG	75 LB Capacity Sand Bag With Sand	7.98	3.10
		For >2,500 To 5,000, Deduct	-0.62	
		For >5,000, Deduct	-1.42	
31 25 14 23-0004	BAG	100 LB Capacity Sand Bag With Sand	10.08	3.70
		For >2,500 To 5,000, Deduct	-0.74	
		For >5,000, Deduct	-1.75	
31 25 14 23-0005	BAG	125 LB Capacity Sand Bag With Sand	12.41	4.63
		For >2,500 To 5,000, Deduct	-0.93	
		For >5,000, Deduct	-2.17	
31 25 14 23-0006	BAG	150 LB Capacity Sand Bag With Sand	15.09	5.55
		For >2,500 To 5,000, Deduct	-1.11	
		For >5,000, Deduct	-2.62	
31 25 14 23-0007	BAG	175 LB Capacity Sand Bag With Sand	17.57	6.32
		For >2,500 To 5,000, Deduct	-1.26	
		For >5,000, Deduct	-3.02	
31 25 14 23-0008	BAG	2,000 LB Capacity Sand Bag With Sand	144.16	44.64
		For >2,500 To 5,000, Deduct	-8.39	
		For >5,000, Deduct	-22.81	
31 25 14 23-0009	BAG	3,000 LB Capacity Sand Bag With Sand	189.34	49.11
		For >2,500 To 5,000, Deduct	-9.23	
		For >5,000, Deduct	-28.17	
31 25 14 23-0010		Gravel Bags (31 25 14 23)		
		Note: Bags filled on site with delivered material. Includes material and placement of bags.		
31 25 14 23-0011	BAG	30 LB Capacity Gravel Bag With Gravel	6.05	1.66
		For >2,500 To 5,000, Deduct	-0.33	
		For >5,000, Deduct	-0.93	
31 25 14 23-0012	BAG	50 LB Capacity Gravel Bag With Gravel	10.65	2.49
		For >2,500 To 5,000, Deduct	-0.50	
		For >5,000, Deduct	-1.56	
31 25 14 23-0013		Floating Turbidity Curtain (31 25 14 23)		
		Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.		
31 25 14 23-0014	LF	3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	25.08	
		For Type 1, Deduct	-3.96	
		For 13 Oz PVC Fabric, Type 2, Deduct	-2.41	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	2.92	
31 25 14 23-0015	LF	4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	27.20	
		For Type 1, Deduct	-4.35	
		For 13 Oz PVC Fabric, Type 2, Deduct	-2.65	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	3.22	
31 25 14 23-0016	LF	5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	30.13	
		For Type 1, Deduct	-4.93	
		For 13 Oz PVC Fabric, Type 2, Deduct	-3.00	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	3.65	
31 25 14 23-0017	LF	6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	32.63	
		For Type 1, Deduct	-5.41	
		For 13 Oz PVC Fabric, Type 2, Deduct	-3.29	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.00	
31 25 14 23-0018	LF	7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	34.24	
		For Type 1, Deduct	-5.67	
		For 13 Oz PVC Fabric, Type 2, Deduct	-3.45	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.19	
31 25 14 23-0019	LF	8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	35.85	
		For Type 1, Deduct	-5.94	
		For 13 Oz PVC Fabric, Type 2, Deduct	-3.61	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.39	
31 25 14 23-0020	LF	9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	37.74	
		For Type 1, Deduct	-6.25	
		For 13 Oz PVC Fabric, Type 2, Deduct	-3.81	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.62	
31 25 14 23-0021	LF	10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	40.33	
		For Type 1, Deduct	-6.73	
		For 13 Oz PVC Fabric, Type 2, Deduct	-4.10	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.97	
31 25 14 23-0022	LF	12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	42.37	
		For Type 1, Deduct	-7.07	
		For 13 Oz PVC Fabric, Type 2, Deduct	-4.30	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.23	
31 25 14 23-0023	LF	13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	45.13	
		For Type 1, Deduct	-7.57	
		For 13 Oz PVC Fabric, Type 2, Deduct	-4.61	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.60	
31 25 14 23-0024	LF	14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	47.70	
		For Type 1, Deduct	-8.02	
		For 13 Oz PVC Fabric, Type 2, Deduct	-4.88	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.93	



Earthwork		31	31
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Erosion and Sedimentation Controls		31 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0025 LF 15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	50.17	
For Type 1, Deduct	-8.44	
For 13 Oz PVC Fabric, Type 2, Deduct	-5.14	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.24	
31 25 14 23-0026 LF 16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	54.64	
For Type 1, Deduct	-9.31	
For 13 Oz PVC Fabric, Type 2, Deduct	-5.67	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.88	
31 25 14 23-0027 LF 17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	57.29	
For Type 1, Deduct	-9.76	
For 13 Oz PVC Fabric, Type 2, Deduct	-5.94	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.21	
31 25 14 23-0028 LF 18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	59.87	
For Type 1, Deduct	-10.18	
For 13 Oz PVC Fabric, Type 2, Deduct	-6.20	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.53	
31 25 14 23-0029 LF 19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	62.59	
For Type 1, Deduct	-10.63	
For 13 Oz PVC Fabric, Type 2, Deduct	-6.47	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.86	
31 25 14 23-0030 LF 20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	65.25	
For Type 1, Deduct	-11.05	
For 13 Oz PVC Fabric, Type 2, Deduct	-6.73	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.17	
31 25 14 23-0031 Turbidity Curtain Anchors (31 25 14 23)		
31 25 14 23-0032 EA 14 LB, Turbidity Curtain Anchor System.....	683.32	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033 EA 25 LB, Turbidity Curtain Anchor System.....	937.75	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034 EA 40 LB, Turbidity Curtain Anchor System.....	1,193.29	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035 EA 65 LB, Turbidity Curtain Anchor System.....	1,561.39	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0036 Filter Bags (31 25 14 23)		
31 25 14 23-0037 Non-Woven Filter Bags (31 25 14 23-0036)		
31 25 14 23-0038 EA 6' x 15' Non-Woven Filter Bag	203.37	
31 25 14 23-0039 EA 13' x 15' Non-Woven Filter Bag	294.11	
31 25 14 23-0040 EA 15' x 15' Non-Woven Filter Bag	338.34	
31 25 14 23-0041 Monofilament Filter Bags (31 25 14 23-0036)		
31 25 14 23-0042 EA 5' x 15' Monofilament Filter Bag.....	211.38	
31 25 14 23-0043 EA 10' x 15' Monofilament Filter Bag.....	292.47	
31 25 14 23-0044 Cable Articulating Concrete Block (31 25 14 23)		
Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045 SF 4.75" Open Cell Articulated Concrete Block With Earth Backfill	42.95	
For Up To 500, Add	9.60	
For >500 To 1,000, Add	5.31	
31 25 14 23-0046 SF 6" Open Cell Articulated Concrete Block With Earth Backfill	49.32	
For Up To 500, Add	10.97	
For >500 To 1,000, Add	6.04	
31 25 14 23-0047 SF 7.5" Open Cell Articulated Concrete Block With Earth Backfill	56.59	
For Up To 500, Add	12.53	
For >500 To 1,000, Add	6.87	
31 25 14 23-0048 SF 9" Open Cell Articulated Concrete Block With Earth Backfill	63.87	
For Up To 500, Add	14.12	
For >500 To 1,000, Add	7.74	
31 25 14 23-0049 SF 4.75" Closed Cell Articulated Concrete Block	46.37	
For Up To 500, Add	10.29	
For >500 To 1,000, Add	5.65	
31 25 14 23-0050 SF 6" Closed Cell Articulated Concrete Block	53.40	
For Up To 500, Add	11.78	
For >500 To 1,000, Add	6.44	
31 25 14 23-0051 SF 7.5" Closed Cell Articulated Concrete Block	61.44	
For Up To 500, Add	13.50	
For >500 To 1,000, Add	7.36	
31 25 14 23-0052 SF 9" Closed Cell Articulated Concrete Block	69.41	
For Up To 500, Add	15.23	
For >500 To 1,000, Add	8.29	
31 25 14 26 Stabilization Measures for Sedimentation Control (31 25 14)		
31 25 14 26-0001 Silt Fences And Dike Barriers (31 25 14 26)		
Note: Includes stakes and embedding.		

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26-0002			Silt Fences 2' High (31 25 14 26-0001)		
31 25 14 26-0003	LF		2' High Silt Fence with Stakes at 4' On Center.....	3.27	
31 25 14 26-0004	LF		2' High Silt Fence with Stakes at 6' On Center.....	2.59	
31 25 14 26-0005	LF		2' High Silt Fence with Stakes at 8' On Center.....	1.89	
31 25 14 26-0006	LF		2' High Silt Fence with Stakes at 10' On Center.....	1.68	
31 25 14 26-0007			Silt Fences 3' High (31 25 14 26-0001)		
31 25 14 26-0008	LF		3' High Silt Fence with Stakes at 4' On Center.....	3.41	
31 25 14 26-0009	LF		3' High Silt Fence with Stakes at 6' On Center.....	2.87	
31 25 14 26-0010	LF		3' High Silt Fence with Stakes at 8' On Center.....	1.77	
31 25 14 26-0011	LF		3' High Silt Fence with Stakes at 10' On Center.....	1.78	
31 25 14 26-0012			Silt Dike Barrier (31 25 14 26-0001)		
31 25 14 26-0013	LF		Silt Dike Barrier With Stakes.....	4.27	
31 25 14 26-0014			Silt Fences Removal (31 25 14 26-0001)		
31 25 14 26-0015	LF		Removal Of Silt Fence And Stakes.....	0.79	
31 25 14 26-0016			Hay And Straw Bales (31 25 14 26)		
			Note: Includes trench for placement, and stakes.		
31 25 14 26-0017	LF		Place Sterilized Straw Bales.....	4.72	
			Note: Includes securing in ground with stakes.		
31 25 14 26-0018	LF		Place Hay Bales.....	4.34	
			Note: Includes securing in ground with stakes.		
31 25 14 26-0019	LF		Removal Of Hay Or Straw Bales.....	1.41	
			Note: Includes removal of stakes.		
31 25 14 26-0020			Sediment Logs (Degradable) (31 25 14 26)		
31 25 14 26-0021			Sediment Logs (Degradable) (31 25 14 26-0020)		
			Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0022	LF		12" Sediment Log	9.11	
31 25 14 26-0023	LF		20" Sediment Log	10.83	
31 25 14 26-0024			Wattles (Degradable) With UV Stabilized Synthetic Netting (31 25 14 26-0020)		
			Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0025	EA		Wattles (Sterile Straw Filled Rolls), 9" x 25'	159.88	
31 25 14 26-0026	EA		Wattles (Sterile Straw Filled Rolls), 12" x 20'	153.84	
31 25 14 26-0027			Fiber Roll (CALTRANS Type 1) (31 25 14 26)		
			Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0028	LF		8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	6.56	
			For >1,000 To 10,000, Deduct	-0.71	
			For >10,000, Deduct	-1.21	
31 25 14 26-0029	LF		9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	7.54	
			For >1,000 To 10,000, Deduct	-0.74	
			For >10,000, Deduct	-1.26	
31 25 14 26-0030	LF		12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	9.51	
			For >1,000 To 10,000, Deduct	-0.89	
			For >10,000, Deduct	-1.51	
31 25 14 26-0031			Fiber Roll (CALTRANS Type 2) (31 25 14 26)		
			Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0032	LF		8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.67	
			For >1,000 To 10,000, Deduct	-0.58	
			For >10,000, Deduct	-0.98	
31 25 14 26-0033	LF		9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	6.61	
			For >1,000 To 10,000, Deduct	-0.60	
			For >10,000, Deduct	-1.03	
31 25 14 26-0034	LF		12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	7.92	
			For >1,000 To 10,000, Deduct	-0.65	
			For >10,000, Deduct	-1.11	
31 25 14 26-0035			Inlet Protection Sediment Bags (31 25 14 26)		
			Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0036	EA		2' x 2' x 3' Inlet Protection Sediment Bag	54.20	
31 25 14 26-0037	EA		2' x 3' x 3' Inlet Protection Sediment Bag	68.20	
31 25 14 26-0038	EA		2' x 4' x 3' Inlet Protection Sediment Bag	84.48	

31 30 Earthwork Methods (31)



	Earthwork	31	
	Earthwork Methods	31 30	
	Soil Treatment	31 31	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 31 Soil Treatment (31 30)**31 31 16 Termite Control** (31 31)**31 31 16 13 Chemical Termite Control** (31 31 16)**31 31 16 13-0001 Commercial Use** (31 31 16 13)

31 31 16 13-0002	SF	Termite Pretreatment, Commercial Soil Poisoning Under Slab	1.02
31 31 16 13-0003	SF	Termite Pretreatment, Commercial Slab And Walls.....	1.02

31 31 16 13-0004 Residential Use (31 31 16 13)

31 31 16 13-0005	SF	Termite Pretreatment, Residential General Spraying Walls And Slab	0.88
31 31 16 13-0006	SF	Termite Treatment, Existing Residential Structure.....	1.19

31 31 19 Vegetation Control (31 31)**31 31 19 13 Chemical Vegetation Control** (31 31 19)**31 31 19 13-0001 Soil Sterilants** (31 31 19 13)

31 31 19 13-0002	MSF	Soil Sterilant.....	27.27
Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.			
		For >45 To 90, Deduct	-0.43
		For >90 To 225, Deduct	-2.21
		For >225, Deduct	-3.07

31 32 Soil Stabilization (31 30)**31 32 13 Soil Mixing Stabilization** (31 32)**31 32 13 16 Cement Soil Stabilization** (31 32 13)**31 32 13 16-0001 Cementitious Soil Binder** (31 32 13 16)

31 32 13 16-0002	CY	Cementitious Soil Binder, 4% Cement Mix By Volume	40.54
31 32 13 16-0003	CY	Cementitious Soil Binder, 6% Cement Mix By Volume	48.05
31 32 13 16-0004	CY	Cementitious Soil Binder, 9% Cement Mix By Volume	60.43
31 32 13 16-0005	CY	Cementitious Soil Binder, 12% Cement Mix By Volume	72.62

31 32 13 19 Lime Soil Stabilization (31 32 13)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 32 13 19-0001 Lime Slurry (31 32 13 19)

31 32 13 19-0002	LCY	Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume.....	34.30
31 32 13 19-0003	TON	Cement Stabilized Base Material	182.97
31 32 13 19-0004	CWT	Lime For Soil Stabilization	30.75
Note: Excludes the cost for spreading or backfilling			
31 32 13 19-0005	LCY	Roller, Grader - Lime Stabilization	17.37
31 32 13 19-0006	LCY	Roller, Grader - Cement Stabilization	3.90

31 32 13 19-0007 Lime Stabilized Subgrade (31 32 13 19)

Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).

31 32 13 19-0008	SY	6" Thick Lime Stabilized Subgrade, 25 LB.....	15.63
		For 4% Lime Instead Of 5%, Deduct	-0.55
		For 6% Lime Instead Of 5%, Add	0.55
31 32 13 19-0009	SY	7" Thick Lime Stabilized Subgrade, 29 LB.....	18.10
		For 4% Lime Instead Of 5%, Deduct	-0.63
		For 6% Lime Instead Of 5%, Add	0.63
31 32 13 19-0010	SY	8" Thick Lime Stabilized Subgrade, 33 LB.....	20.64
		For 4% Lime Instead Of 5%, Deduct	-0.72
		For 6% Lime Instead Of 5%, Add	0.72

31 32 13 29 Liquid Soil Stabilization (31 32 13)

31 32 13 29-0001	GAL	Polyacrylamide And Calcium Solution	3.29

31 32 19 Geosynthetic Soil Stabilization and Layer Separation (31 32)**31 32 19 13 Geogrid Soil Stabilization** (31 32 19)**31 32 19 13-0001 Geogrid Fabrics** (31 32 19 13)

Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 13-0002	SY	5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)	3.47	
		For Up To 50, Add	0.79	
		For >50 To 150, Add	0.59	
		For >150 To 250, Add	0.38	
		For >250 To 500, Add	0.19	
31 32 19 13-0003	SY	6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)	3.95	
		For Up To 50, Add	0.89	
		For >50 To 150, Add	0.66	
		For >150 To 250, Add	0.43	
		For >250 To 500, Add	0.21	
31 32 19 13-0004	SY	8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)	4.31	
		For Up To 50, Add	0.97	
		For >50 To 150, Add	0.72	
		For >150 To 250, Add	0.47	
		For >250 To 500, Add	0.23	
31 32 19 13-0005	SY	12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)	6.16	
		For Up To 50, Add	1.34	
		For >50 To 150, Add	1.00	
		For >150 To 250, Add	0.65	
		For >250 To 500, Add	0.33	
31 32 19 13-0006	SY	14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)	7.04	
		For Up To 50, Add	1.53	
		For >50 To 150, Add	1.13	
		For >150 To 250, Add	0.74	
		For >250 To 500, Add	0.37	
31 32 19 13-0007	SY	4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	3.52	
		For Up To 50, Add	0.80	
		For >50 To 150, Add	0.59	
		For >150 To 250, Add	0.39	
		For >250 To 500, Add	0.19	
31 32 19 13-0008	SY	5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	5.15	
		For Up To 50, Add	1.13	
		For >50 To 150, Add	0.84	
		For >150 To 250, Add	0.55	
		For >250 To 500, Add	0.27	

31 32 19 16 Geotextile Soil Stabilization (31 32 19 16)

31 32 19 16-0001	Nonwoven Polypropylene Geotextiles (31 32 19 16)			
	Note: For drainage, filtration and separation.			
31 32 19 16-0002	SY	3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS)	1.09	
		For Up To 50, Add	0.26	
		For >50 To 150, Add	0.19	
		For >150 To 250, Add	0.12	
		For >250 To 500, Add	0.06	
31 32 19 16-0003	SY	3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS)	1.16	
		For Up To 50, Add	0.27	
		For >50 To 150, Add	0.20	
		For >150 To 250, Add	0.13	
		For >250 To 500, Add	0.06	
31 32 19 16-0004	SY	4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS)	1.26	
		For Up To 50, Add	0.29	
		For >50 To 150, Add	0.22	
		For >150 To 250, Add	0.14	
		For >250 To 500, Add	0.07	
31 32 19 16-0005	SY	4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS)	1.35	
		For Up To 50, Add	0.31	
		For >50 To 150, Add	0.23	
		For >150 To 250, Add	0.15	
		For >250 To 500, Add	0.07	
31 32 19 16-0006	SY	6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS)	1.60	
		For Up To 50, Add	0.36	
		For >50 To 150, Add	0.27	
		For >150 To 250, Add	0.17	
		For >250 To 500, Add	0.09	
31 32 19 16-0007	SY	7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS)	1.87	
		For Up To 50, Add	0.42	
		For >50 To 150, Add	0.31	
		For >150 To 250, Add	0.20	
		For >250 To 500, Add	0.10	
31 32 19 16-0008	SY	8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS)	2.06	
		For Up To 50, Add	0.46	
		For >50 To 150, Add	0.34	
		For >150 To 250, Add	0.22	
		For >250 To 500, Add	0.11	



	Earthwork	31	
	Earthwork Methods	31 30	
	Soil Stabilization	31 32	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0009 SY 10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)	2.53	
For Up To 50, Add	0.55	
For >50 To 150, Add	0.41	
For >150 To 250, Add	0.27	
For >250 To 500, Add	0.13	
31 32 19 16-0010 SY 16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	5.54	
For Up To 50, Add	1.16	
For >50 To 150, Add	0.86	
For >150 To 250, Add	0.57	
For >250 To 500, Add	0.29	
31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)		
31 32 19 16-0012 SY 200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	1.56	
For Up To 50, Add	0.35	
For >50 To 150, Add	0.26	
For >150 To 250, Add	0.17	
For >250 To 500, Add	0.08	
31 32 19 16-0013 SY 315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	2.18	
For Up To 50, Add	0.48	
For >50 To 150, Add	0.35	
For >150 To 250, Add	0.23	
For >250 To 500, Add	0.12	
31 32 19 16-0014 SY 4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	3.82	
For Up To 50, Add	0.81	
For >50 To 150, Add	0.61	
For >150 To 250, Add	0.40	
For >250 To 500, Add	0.20	
31 32 19 16-0015 SY 11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%)	3.73	
For Up To 50, Add	0.79	
For >50 To 150, Add	0.59	
For >150 To 250, Add	0.39	
For >250 To 500, Add	0.19	
31 32 19 16-0016 SY 6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF)	3.26	
For Up To 50, Add	0.70	
For >50 To 150, Add	0.52	
For >150 To 250, Add	0.34	
For >250 To 500, Add	0.17	
31 32 19 16-0017 SY 9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF)	3.49	
For Up To 50, Add	0.75	
For >50 To 150, Add	0.56	
For >150 To 250, Add	0.37	
For >250 To 500, Add	0.18	
31 32 19 16-0018 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF)	4.44	
For Up To 50, Add	0.94	
For >50 To 150, Add	0.70	
For >150 To 250, Add	0.46	
For >250 To 500, Add	0.23	
31 32 19 16-0019 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	6.32	
For Up To 50, Add	1.31	
For >50 To 150, Add	0.98	
For >150 To 250, Add	0.65	
For >250 To 500, Add	0.32	
31 32 19 16-0020 Geomembranes (31 32 19 16)		
31 32 19 16-0021 Polyvinyl Chloride (PVC) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0022 SF 20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.18	
31 32 19 16-0023 SF 30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.37	
31 32 19 16-0024 SF 40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.65	
31 32 19 16-0025 SF 50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.99	
31 32 19 16-0026 SF 60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.27	
31 32 19 16-0027 SF 70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.48	
31 32 19 16-0028 SF 80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.69	
31 32 19 16-0029 SF 90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.97	
31 32 19 16-0030 SF 100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.24	
31 32 19 16-0031 High Density Polyethylene (HDPE) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0032 SF 20 Mil High Density Polyethylene Membrane (US Fabrics)	1.17	
31 32 19 16-0033 SF 30 Mil High Density Polyethylene Membrane (US Fabrics)	1.04	
31 32 19 16-0034 SF 40 Mil High Density Polyethylene Membrane (US Fabrics)	1.19	
31 32 19 16-0035 SF 50 Mil High Density Polyethylene Membrane (US Fabrics)	1.83	
31 32 19 16-0036 SF 60 Mil High Density Polyethylene Membrane (US Fabrics)	1.46	
31 32 19 16-0037 SF 80 Mil High Density Polyethylene Membrane (US Fabrics)	1.75	
31 32 19 16-0038 SF 100 Mil High Density Polyethylene Membrane (US Fabrics)	2.05	

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0039 SF 120 Mil High Density Polyethylene Membrane (US Fabrics)	3.54	
31 32 19 16-0040 SF 140 Mil High Density Polyethylene Membrane (US Fabrics)	3.66	
31 32 19 26 Geoweb Cellular Confinement System (31 32 19)		
Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001 Geoweb Cellular Confinement System (31 32 19 26)		
Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002 SF 4" Geoweb Cellular Confinement System (Presto Geosystems)	5.80	
For >20,000, Deduct	-0.12	
For >2:1 Slope, Add	1.11	
31 32 19 26-0003 SF 6" Geoweb Cellular Confinement System (Presto Geosystems)	6.90	
For >20,000, Deduct	-0.18	
For >2:1 Slope, Add	1.11	
31 32 19 26-0004 SF 8" Geoweb Cellular Confinement System (Presto Geosystems)	8.21	
For >20,000, Deduct	-0.24	
For >2:1 Slope, Add	1.11	
31 32 36 Soil Nailing (31 32)		
31 32 36 11 Soil Nailing Stabilization (31 32 36)		
31 32 36 11-0001 Landslide and Slip-Out Stabilization (31 32 36 11)		
Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		
31 32 36 11-0002 BioWall® (31 32 36 11-0001)		
Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0003 SF BioWall® Construction	25.00	
31 32 36 11-0004 Green Terra Mesh (31 32 36 11-0001)		
Note: Furnish and install the Green Terra Mesh. Furnish equipment and incidentals necessary to complete the work. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0005 EA Green Terra Mesh	635.25	



	Earthwork	31	
	Earthwork Methods	31 30	
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0006	GeoSynthetically Confined Soil™ (GCS®) Components (31 32 36 11-0001) Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or 3/4 in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of the See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 11-0007 SF	GeoSynthetically Confined Soil™ (GCS®) Wall Construction	23.75
	Note: Installation sold per square face foot (excludes materials)	
31 32 36 11-0008 EA	GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10' x 120')	108.50
31 32 36 11-0009 EA	GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8' x 8' x 16')	6.50
31 32 36 11-0010 SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile	0.75
31 32 36 11-0011	Turf (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 11-0012	Permanent Turf Reinforcing Mat (TRM) (31 32 36 11-0011) Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.	
31 32 36 11-0013 SF	Permanent Turf Reinforcement Mat	1.50
	Note: sold per square face foot	
31 32 36 11-0014	Biodegradable Turf Reinforcing Mat (TRM) (31 32 36 11-0011) Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.	
31 32 36 11-0015 SF	Biodegradable Turf Reinforcement Mat	0.75
	Note: sold per square face foot	
31 32 36 11-0016	Shotcrete or Gunit (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 11-0017

Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016)

Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement

AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe

ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size

Percent Passing by Weight	1/2"	100 3/8"
90-100 No. 4	70-85 No. 8	100

Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying

31 32 36 11-0018	SFI	Wet-Mix Reinforced Shotcrete	5.50	
Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).				



	Earthwork	31	
	Earthwork Methods	31 30	31
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0019 Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C6		
31 32 36 11-0020 SF Dry-Mix Reinforced Gunite..... Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	8.50	
31 32 36 11-0021 Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016)		
31 32 36 11-0022 SF Steel Fiber Reinforcement Note: sold per inch thickness over one square face foot of area	1.25	
31 32 36 11-0023 Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0024 Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0023) Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 11-0025 SF High Capacity Diamond Mesh Note: sold per square face foot	11.00	
31 32 36 11-0026 SF Double Twist Wire Mesh..... Note: sold per square face foot	13.75	
31 32 36 11-0027 Steel Plates (31 32 36 11-0023)		
31 32 36 11-0028 EA Galvanized Steel Plates (8x8).....	35.00	
31 32 36 11-0029 EA Galvanized Steel Plates (10x10).....	54.75	
31 32 36 11-0030 EA Galvanized Steel Plates (12x12).....	78.75	
31 32 36 11-0031 EA Epoxy Coated Steel Plates (8x8).....	76.00	
31 32 36 11-0032 EA Epoxy Coated Steel Plates (10x10).....	89.25	
31 32 36 11-0033 EA Epoxy Coated Steel Plates (12x12).....	105.25	

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 11-0034**Drilled Horizontal Drains** (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0035	LF	Drilled PVC Horizontal Drains (up to 2" Diameter).....	26.00
31 32 36 11-0036	LF	Stripdrain - 6" Wide.....	3.25
31 32 36 11-0037	LF	Stripdrain - 12" Wide.....	4.00
31 32 36 11-0038	LF	PVC Drain Collector Pipe System.....	26.75

31 32 36 11-0039**Rockfall Stabilization** (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0040	SF	Scaling.....	3.75
31 32 36 11-0041	SF	Trim Blasting.....	155.00
31 32 36 11-0042	SY	Slope Drape - Double Twist Wire Mesh.....	45.00
31 32 36 11-0043	SY	Slope Drape - Cable Net.....	135.00
31 32 36 11-0044	SY	Slope Drape - Tecco Mesh (4mm).....	135.00
31 32 36 11-0045	LF	Temporary Rockfall Barrier.....	500.00
31 32 36 11-0046	LF	Low Reach Drilling (<25 feet).....	25.00
31 32 36 11-0047	LF	High Reach Drilling (>25 feet).....	45.00
31 32 36 11-0048	LF	Limited Access Drilling.....	100.00
31 32 36 11-0049	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized).....	18.50
31 32 36 11-0050	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Epoxy Coated).....	15.25
31 32 36 11-0051	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized).....	23.25
31 32 36 11-0052	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Epoxy Coated).....	17.25
31 32 36 11-0053	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Galvanized).....	23.50
31 32 36 11-0054	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Epoxy Coated).....	18.75
31 32 36 11-0055	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Galvanized).....	26.50
31 32 36 11-0056	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0057	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized).....	29.25
31 32 36 11-0058	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0059	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized).....	34.50
31 32 36 11-0060	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Epoxy Coated).....	31.75
31 32 36 11-0061	EA	Rock Anchor Testing.....	825.00

31 32 36 11-0062**Mobilization / Demobilization** (31 32 36 11-0001)

31 32 36 11-0063	EA	Mobilization - In State.....	10,000.00
31 32 36 11-0064	EA	Mobilization - Out Of State.....	25,000.00
31 32 36 11-0065	EA	Mobilization - Specialty Equipment Adder.....	9,800.00

31 32 36 11-0066**Daily Crew Rates (DCR)** (31 32 36 11-0001)

31 32 36 11-0067	DAY	Soils Stabilization Crew - DCR , Per Workday.....	13,150.00
31 32 36 11-0068	DAY	Rockfall Stabilization Crew - DCR, Per Workday.....	15,200.00
31 32 36 11-0069	DAY	Compaction Grouting Crew - DCR, Per Workday.....	12,925.00
31 32 36 11-0070	DAY	Additional Crew Member/Crew - DCR, Per Workday.....	2,050.00
31 32 36 11-0071	EA	Out of State Crew Rotation.....	4,950.00
31 32 36 11-0072	EA	Spider Excavation.....	5,500.00

31 32 36 13 Driven Soil Nailing (31 32 36)**31 32 36 13-0001****Large Diameter Micropiles** (31 32 36 13)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing).....	94.50
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing).....	130.25
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing).....	166.50
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing).....	213.25

31 32 36 16 Grouted Soil Nailing (31 32 36)**31 32 36 16-0001****Grouting** (31 32 36 16)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).



	Earthwork	31	
	Earthwork Methods	31 30	31
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 16-0002	Compaction Grouting (31 32 36 16-0001) Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.	
31 32 36 16-0003 LF	Compaction Grouting Casing Installation.....	52.75
31 32 36 16-0004 CF	Compaction Grout Injection for Soils Densification.....	55.50
31 32 36 16-0005 CF	Compaction Grout For Void Fill.....	39.00
31 32 36 16-0006	Polyurethane Grouting (31 32 36 16-0001) Note: The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.	
31 32 36 16-0007 LB	Polyurethane Grouting For Void Fill and Re-Leveling.....	11.50
31 32 36 19	Corrosion-Protected Soil Nailing (31 32 36)	
31 32 36 19-0001	Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 19) Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 19-0002	Self-Drilling SuperNails® (31 32 36 19-0001)	
31 32 36 19-0003 EA	Self Drilling SuperNails® Up To 10 Ft. Length.....	559.00
31 32 36 19-0004 EA	Self Drilling SuperNails® Up To 20 Ft. Length.....	939.25
31 32 36 19-0005 EA	Self Drilling SuperNails® Up To 30 Ft. Length.....	1,305.75
31 32 36 19-0006 EA	Self Drilling SuperNails® Up To 40 Ft. Length.....	1,735.75
31 32 36 19-0007 EA	Self Drilling SuperNails® Up To 50 Ft. Length.....	2,119.75
31 32 36 19-0008 EA	Self Drilling SuperNails® Up To 60 Ft. Length.....	2,459.25
31 32 36 19-0009 EA	Self Drilling SuperNails® Up To 70 Ft. Length.....	2,879.25
31 32 36 19-0010 EA	Self Drilling SuperNails® Up To 80 Ft. Length.....	3,253.50
31 32 36 19-0011 EA	Additional Cost for 10' High Capacity X-51 Bar	129.50
31 32 36 19-0012	SuperNail® Testing (31 32 36 19) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 19-0013	EA	SuperNail® Proof Testing	769.00	
31 32 36 19-0014	EA	SuperNail® Verification Testing	2,339.75	

31 32 36 26 Launched Soil Nailing (31 32 36)

31 32 36 26-0001		Launched SuperDrain™ (Horizontal Drains) (31 32 36 26)		
Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90° about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).				
31 32 36 26-0002	EA	GalvaDized™ SuperDrain™ - Up To 20'	605.00	
Note: perforated GalvaDized™ steel tube up to 20 ft. length.				
31 32 36 26-0003	EA	Fiberglass SuperNail® - Up To 20'	621.50	
Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.				
31 32 36 26-0004	EA	GalvaDized™ SuperNail® - Up To 20'	478.50	
Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.				
31 32 36 26-0005	EA	Temporary Launched Soil Nail	379.50	
Note: bare steel tube up to 20 ft. length.				
31 32 36 26-0006	EA	Fiberglass SuperDrain™	495.00	
Note: perforated fiberglass tube up to 20 ft. length.				
31 32 36 26-0007	EA	GalvaDized™ SuperDrain™	379.50	
Note: perforated GalvaDized™ steel tube up to 20 ft. length.				

31 32 36 29 Drilled Soil Nailing (31 32 36)

31 32 36 29-0001		Drilled SuperNails® (Permanently Cased Soil Nails) (31 32 36 29)		
Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).				
31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® Up To 10 Ft. Length	602.25	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.				
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® Up To 20 Ft. Length	693.50	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.				
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® Up To 30 Ft. Length	921.50	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.				
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® Up To 40 Ft. Length	1,056.00	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.				
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® Up To 50 Ft. Length	1,171.50	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.				
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® Up To 60 Ft. Length	1,376.50	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.				
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® Up To 70 Ft. Length	1,624.75	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.				
31 32 36 29-0009	EA	Drilled GalvaDized™ SuperNail® Up To 80 Ft. Length	1,872.75	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.				

31 32 36 33 Drilled / Launched Soil Nailing (31 32 36)

31 32 36 33-0001		Drilled / Launched SuperMicropiles™ (31 32 36 33)		
Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.				
31 32 36 33-0002	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 20 Ft. Length	695.00	
Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.				
31 32 36 33-0003	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 30 Ft. Length	1,020.00	
Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.				
31 32 36 33-0004	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 40 Ft. Length	1,280.00	
Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.				
31 32 36 33-0005	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 50 Ft. Length	1,540.00	
Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.				



	Earthwork	31	
	Earthwork Methods	31 30	31
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 35 Slope Protection (31 30)

31 35 19 Geosynthetic Slope Protection (31 35)

31 35 19 19 Slope Protection with Mulch Control Netting (31 35 19)

31 35 19 19-0001 Erosion Control Fabric (31 35 19 19)

31 35 19 19-0002 SY 26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900) 4.39

31 36 Gabions (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 36 13 Gabion Boxes (31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection (31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002 SY 6" Deep Stone Filled Gabion Slope Protection 63.27
31 36 13 00-0003 SY 9" Deep Stone Filled Gabion Slope Protection 74.65
31 36 13 00-0004 SY 12" Deep Stone Filled Gabion Slope Protection 89.96
31 36 13 00-0005 SY 15" Deep Stone Filled Gabion Slope Protection 106.31
31 36 13 00-0006 SY 18" Deep Stone Filled Gabion Slope Protection 124.84
31 36 13 00-0007 SY 24" Deep Stone Filled Gabion Slope Protection 170.84
31 36 13 00-0008 SY 36" Deep Stone Filled Gabion Slope Protection 215.91

31 37 Riprap (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 37 13 Machined Riprap (31 37)

31 37 13 00-0001 Random - Filter Stone (31 37 13)

31 37 13 00-0002 CY 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap 55.50
For Chinking Material, Add 13.90
31 37 13 00-0003 CY >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap 63.97
For Chinking Material, Add 13.90
31 37 13 00-0004 CY >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap 67.95
For Chinking Material, Add 13.90
31 37 13 00-0005 CY >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap 72.49
For Chinking Material, Add 13.90
31 37 13 00-0006 CY >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap 76.16
For Chinking Material, Add 13.90
31 37 13 00-0007 CY >600 LB Average Pieces Random, Dumped From Truck, Rip Rap 82.14
31 37 13 00-0008 CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip
Rap 99.71
31 37 13 00-0009 TON 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap 37.04
31 37 13 00-0010 TON >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap 42.42
31 37 13 00-0011 TON >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap 44.95
31 37 13 00-0012 TON >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap 47.83
31 37 13 00-0013 TON >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap 50.16
31 37 13 00-0014 TON >600 LB Average Pieces Random, Dumped From Truck, Rip Rap 54.00
31 37 13 00-0015 TON 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip
Rap 67.81

31 40 Shoring and Underpinning (31)

31 41 Shoring (31 40)

31 41 13 Timber Shoring (31 41)

31 41 13 00-0001 Wood Sheet Piling (31 41 13)

31 41 13 00-0002 Pull And Salvage (31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003 SF 8' Deep Excavation, Wood Shoring, Pull And Salvage 12.94
For Wood Sheeting Left In Place -0.85
31 41 13 00-0004 SF 10' Deep Excavation, Wood Shoring, Pull And Salvage 13.99
For Wood Sheeting Left In Place -1.04
31 41 13 00-0005 SF 12' Deep Excavation, Wood Shoring, Pull And Salvage 15.13
For Wood Sheeting Left In Place -1.25
31 41 13 00-0006 SF 14' Deep Excavation, Wood Shoring, Pull And Salvage 16.38
For Wood Sheeting Left In Place -1.48
31 41 13 00-0007 SF 16' Deep Excavation, Wood Shoring, Pull And Salvage 17.73
For Wood Sheeting Left In Place -1.73
31 41 13 00-0008 SF 18' Deep Excavation, Wood Shoring, Pull And Salvage 19.18
For Wood Sheeting Left In Place -2.03
31 41 13 00-0009 SF 20' Deep Excavation, Wood Shoring, Pull And Salvage 20.78
For Wood Sheeting Left In Place -2.35

31	Earthwork
31 40	Shoring and Underpinning
31 41	Shoring



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 41 16 Sheet Piling ^(31 41)

31 41 16 13 Steel Sheet Piling ^(31 41 16)

31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage ^(31 41 16 13)

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002	TON Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage.....	2,315.17
	For Standard Sheeting Left In Place, Add	1,516.44
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	2,103.42
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	146.75
	For High Strength Sheeting 55,000 PSI Grade, Add	163.05
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	505.46
	For Each Additional Month >3 Months, Add	81.53
31 41 16 13-0003	TON Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage.....	2,395.98
	For Standard Sheeting Left In Place, Add	1,476.03
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	2,063.01
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	146.75
	For High Strength Sheeting 55,000 PSI Grade, Add	163.05
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	505.46
	For Each Additional Month >3 Months, Add	81.53
31 41 16 13-0004	TON Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,771.68
	For Standard Sheeting Left In Place, Add	1,288.18
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,875.16
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	146.75
	For High Strength Sheeting 55,000 PSI Grade, Add	163.05
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	505.46
	For Each Additional Month >3 Months, Add	81.53
31 41 16 13-0005	TON Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,133.18
	For Standard Sheeting Left In Place, Add	1,107.43
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,694.41
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	146.75
	For High Strength Sheeting 55,000 PSI Grade, Add	163.05
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	505.46
	For Each Additional Month >3 Months, Add	81.53
31 41 16 13-0006	TON Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,345.84
	For Standard Sheeting Left In Place, Add	1,001.10
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,588.08
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	146.75
	For High Strength Sheeting 55,000 PSI Grade, Add	163.05
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	505.46
	For Each Additional Month >3 Months, Add	81.53
31 41 16 13-0007	TON Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,562.75
	For Standard Sheeting Left In Place, Add	892.65
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,479.63
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	146.75
	For High Strength Sheeting 55,000 PSI Grade, Add	163.05
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	505.46
	For Each Additional Month >3 Months, Add	81.53

31 50 Excavation Support and Protection ⁽³¹⁾

31 52 Cofferdams ^(31 50)

31 52 21 Portable Cofferdams ^(31 52)

31 52 21 00-0001 Portable Cofferdams ^(31 52 21)

Note: Excludes dewatering and pumps.

31 52 21 00-0002 Portable Cofferdam Rental ^(31 52 21 00-0001)

Note: Excludes delivery and installation.

31 52 21 00-0003	LF 3' High x 7' Width, Portable Cofferdam, Rental Per Month	40.51
	Note: Minimum 40'	
31 52 21 00-0004	LF 4' High x 9' Width, Portable Cofferdam, Rental Per Month	51.85
	Note: Minimum 40'	
31 52 21 00-0005	LF 5' High x 11' Width, Portable Cofferdam, Rental Per Month	72.91
	Note: Minimum 40'	
31 52 21 00-0006	LF 6' High x 13' Width, Portable Cofferdam, Rental Per Month	93.98
	Note: Minimum 40'	
31 52 21 00-0007	LF 8' High x 17' Width, Portable Cofferdam, Rental Per Month	121.52
	Note: Minimum 40'	
31 52 21 00-0008	LF 10' High x 21' Width, Portable Cofferdam, Rental Per Month.....	243.04
	Note: Minimum 40'	
31 52 21 00-0009	LF 12' High x 25' Width, Portable Cofferdam, Rental Per Month.....	340.26
	Note: Minimum 40'	
31 52 21 00-0010	LF 16' High x 33' Width, Portable Cofferdam, Rental Per Month.....	481.23
	Note: Minimum 40'	

31 52 21 00-0011 Portable Cofferdam Delivery And Set-up ^(31 52 21 00-0001)

Note: Excludes crane usage where required. See CSI section 01 22 23 00-0768 for crane lifting equipment.

31 52 21 00-0012	LF Up To 5' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	9.86



		Earthwork	31	31
		Excavation Support and Protection	31 50	
		Cofferdams	31 52	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 52 21 00-0013	LF	6' To 8' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	15.77	
31 52 21 00-0014	LF	10' To 12' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	23.66	
31 52 21 00-0015	LF	16' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	31.56	
31 52 21 00-0016	LF	Up To 5' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	5.91	
31 52 21 00-0017	LF	6' To 8' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	9.86	
31 52 21 00-0018	LF	10' To 12' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	15.77	
31 52 21 00-0019	LF	16' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	21.70	
31 52 21 00-0020 Portable Cofferdam Repositioning (31 52 21 00-0001)				
31 52 21 00-0021	LF	Up To 5' High, Portable Cofferdam, Repositioning	4.93	
31 52 21 00-0022	LF	6' To 8' High, Portable Cofferdam, Repositioning	7.89	
31 52 21 00-0023	LF	10' To 12' High, Portable Cofferdam, Repositioning	11.83	
31 52 21 00-0024	LF	16' High, Portable Cofferdam, Repositioning	15.77	
31 60 Special Foundations and Load-bearing Elements (31)				
31 62 Driven Piles (31 60)				
31 62 16 Steel Piles (31 62)				
31 62 16 16 Steel H Piles (31 62 16)				
31 62 16 16-0001 Rolled, Driven Steel H Piles (31 62 16 16)				
31 62 16 16-0002	VLF	8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile	61.93	
		For Piles Driven In Water, Add	19.41	
31 62 16 16-0003	VLF	10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile	70.55	
		For Piles Driven In Water, Add	20.94	
31 62 16 16-0004	VLF	10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile	90.23	
		For Piles Driven In Water, Add	22.91	
31 62 16 16-0005	VLF	12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile	85.43	
		For Piles Driven In Water, Add	22.84	
31 62 16 16-0006	VLF	12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile	98.55	
		For Piles Driven In Water, Add	24.15	
31 62 16 16-0007	VLF	12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile	114.32	
		For Piles Driven In Water, Add	26.92	
31 62 16 16-0008	VLF	12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile	127.44	
		For Piles Driven In Water, Add	28.23	
31 62 16 16-0009	VLF	14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile	113.43	
		For Piles Driven In Water, Add	27.21	
31 62 16 16-0010	VLF	14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile	135.74	
		For Piles Driven In Water, Add	29.44	
31 62 16 16-0011	VLF	14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile	152.95	
		For Piles Driven In Water, Add	32.49	
31 62 16 16-0012	VLF	14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile	173.95	
		For Piles Driven In Water, Add	34.59	
31 62 16 16-0013 Splices, Caps, And Points For H-Piles (31 62 16 16)				
31 62 16 16-0014 Rolled Steel H Pile Splices (31 62 16 16-0013)				
31 62 16 16-0015	EA	8" Rolled Steel H Pile Splice	415.11	
31 62 16 16-0016	EA	10" Rolled Steel H Pile Splice	508.32	
31 62 16 16-0017	EA	12" Rolled Steel H Pile Splice	662.12	
31 62 16 16-0018	EA	14" Rolled Steel H Pile Splice	708.73	
31 62 16 16-0019 Rolled Steel H Driving Caps (31 62 16 16-0013)				
31 62 16 16-0020	EA	8" Rolled Steel H Driving Cap	7,571.05	
31 62 16 16-0021	EA	10" Rolled Steel H Driving Cap	7,571.05	
31 62 16 16-0022	EA	12" Rolled Steel H Driving Cap	7,627.31	
31 62 16 16-0023	EA	14" Rolled Steel H Driving Cap	11,588.70	
31 62 16 16-0024 Rolled Steel H Standard Pile Points (31 62 16 16-0013)				
31 62 16 16-0025	EA	8" Rolled Steel H Standard Pile Point	461.71	
31 62 16 16-0026	EA	10" Rolled Steel H Standard Pile Point	508.32	
31 62 16 16-0027	EA	12" Rolled Steel H Standard Pile Point	662.12	
31 62 16 16-0028	EA	14" Rolled Steel H Standard Pile Point	801.94	
31 62 16 16-0029	EA	10" Rolled Steel H Standard Pile Point	662.12	
31 62 16 16-0030	EA	14" Rolled Steel H Standard Pile Point	892.21	
31 62 16 19 Unfilled Tubular Steel Piles (31 62 16)				
31 62 16 19-0001 Unfilled Tubular Driven Steel Piles (31 62 16 19)				
31 62 16 19-0002	VLF	8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile	48.34	
		For Piles Driven In Water, Add	21.76	
31 62 16 19-0003	VLF	8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile	55.72	
		For Piles Driven In Water, Add	22.50	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0004 VLF 8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	63.69 23.30	
31 62 16 19-0005 VLF 10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	55.72 22.50	
31 62 16 19-0006 VLF 10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	62.73 23.20	
31 62 16 19-0007 VLF 10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	78.23 24.75	
31 62 16 19-0008 VLF 12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	65.40 24.36	
31 62 16 19-0009 VLF 12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	73.61 25.18	
31 62 16 19-0010 VLF 12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	78.17 25.64	
31 62 16 19-0011 VLF 12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	90.94 26.91	
31 62 16 19-0012 VLF 14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	70.75 26.76	
31 62 16 19-0013 VLF 14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	80.04 27.69	
31 62 16 19-0014 VLF 14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	89.33 28.62	
31 62 16 19-0015 VLF 14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	98.62 29.55	
31 62 16 19-0016 VLF 16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	78.73 29.86	
31 62 16 19-0017 VLF 16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	89.58 30.95	
31 62 16 19-0018 VLF 16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	110.76 33.06	
31 62 16 19-0019 VLF 18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	97.03 33.54	
31 62 16 19-0020 VLF 18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	111.13 34.95	
31 62 16 19-0021 VLF 18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	137.94 37.64	
31 62 16 19-0022 Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0023 Steel Pipe Pile Splices (31 62 16 19-0022)		
31 62 16 19-0024 EA 8" Diameter, Steel Pipe Pile Splice	272.36	
31 62 16 19-0025 EA 10" Diameter, Steel Pipe Pile Splice	292.38	
31 62 16 19-0026 EA 12" Diameter, Steel Pipe Pile Splice	380.51	
31 62 16 19-0027 EA 14" Diameter, Steel Pipe Pile Splice	400.25	
31 62 16 19-0028 EA 16" Diameter, Steel Pipe Pile Splice	483.25	
31 62 16 19-0029 EA 18" Diameter, Steel Pipe Pile Splice	582.92	
31 62 16 19-0030 Steel Pipe Standard Pile Points (31 62 16 19-0022)		
31 62 16 19-0031 EA 8" Diameter, Steel Pipe Standard Pile Point	270.82	
31 62 16 19-0032 EA 10" Diameter, Steel Pipe Standard Pile Point	286.86	
31 62 16 19-0033 EA 12" Diameter, Steel Pipe Standard Pile Point	324.88	
31 62 16 19-0034 EA 14" Diameter, Steel Pipe Standard Pile Point	368.96	
31 62 16 19-0035 EA 16" Diameter, Steel Pipe Standard Pile Point	409.04	
31 62 16 19-0036 EA 18" Diameter, Steel Pipe Standard Pile Point	471.87	
31 62 16 19-0037 Steel Pipe Heavy Duty Pile Points (31 62 16 19-0022)		
31 62 16 19-0038 EA 10" Diameter, Steel Pipe Heavy Duty Pile Point	396.29	
31 62 16 19-0039 EA 12" Diameter, Steel Pipe Heavy Duty Pile Point	416.32	
31 62 16 19-0040 EA 14" Diameter, Steel Pipe Heavy Duty Pile Point	466.95	
31 62 16 19-0041 EA 16" Diameter, Steel Pipe Heavy Duty Pile Point	547.11	
31 62 16 19-0042 EA 18" Diameter, Steel Pipe Heavy Duty Pile Point	617.98	
31 62 23 Composite Piles (31 62)		
31 62 23 13 Concrete-Filled Steel Piles (31 62 23)		
31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles (31 62 23 13)		
Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.		
31 62 23 13-0002 VLF 8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	52.75 6.96 23.68	
31 62 23 13-0003 VLF 8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	60.13 7.70 24.42	
31 62 23 13-0004 VLF 8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	68.10 8.50 25.22	



		Earthwork	31	31
		Special Foundations and Load-bearing Elements	31 60	
		Driven Piles	31 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0005 VLF 10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	62.22 9.96 25.03	
31 62 23 13-0006 VLF 10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	69.23 10.66 25.73	
31 62 23 13-0007 VLF 10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	84.73 12.21 27.28	
31 62 23 13-0008 VLF 12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	74.56 13.58 27.85	
31 62 23 13-0009 VLF 12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	82.77 14.40 28.67	
31 62 23 13-0010 VLF 12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	87.33 14.86 29.13	
31 62 23 13-0011 VLF 12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	100.10 16.13 30.40	
31 62 23 13-0012 VLF 14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	82.89 17.05 32.13	
31 62 23 13-0013 VLF 14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	92.17 17.98 33.06	
31 62 23 13-0014 VLF 14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	101.46 18.91 33.99	
31 62 23 13-0015 VLF 14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	110.75 19.84 34.92	
31 62 23 13-0016 VLF 16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	92.30 21.33 34.50	
31 62 23 13-0017 VLF 16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	103.16 22.42 35.59	
31 62 23 13-0018 VLF 16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	124.34 24.54 37.71	
31 62 23 13-0019 VLF 18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	113.56 27.22 38.66	
31 62 23 13-0020 VLF 18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	127.66 28.63 40.07	
31 62 23 13-0021 VLF 18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	154.47 31.31 42.75	
31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles (31 62 23 13) Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	66.50 20.75	
31 62 23 13-0024 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	80.63 23.18	
31 62 23 13-0025 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	91.23 25.40	
31 62 23 13-0026 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	99.26 27.57	
31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles (31 62 23 13) Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	65.25 20.63	
31 62 23 13-0029 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	67.01 21.82	
31 62 23 13-0030 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	81.68 24.44	
31 62 23 13-0031 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	94.20 27.06	
31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles (31 62 23 13)		
31 62 23 13-0033 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	39.35 15.84 0.07	
31 62 23 13-0034 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	43.43 17.56 0.07	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0035 VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	47.50	
For Piles Driven In Water, Add	19.30	
For Thick Wall Shell, Add	0.08	
31 62 23 13-0036 VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	51.58	
For Piles Driven In Water, Add	21.03	
For Thick Wall Shell, Add	0.08	
31 62 23 13-0037 VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	55.69	
For Piles Driven In Water, Add	22.77	
For Thick Wall Shell, Add	0.09	

31 63 Bored Piles (31 60)**31 63 36 Drilled Steel Piles** (31 63)**31 63 36 00-0001 Drill Hole** (31 63 36)

Note: Excludes removal of excess material.

31 63 36 00-0002 Drilling Mobilization (31 63 36 00-0001)

31 63 36 00-0003 EA >12" To 24" Diameter Hole, Drilling Mobilization	868.24
31 63 36 00-0004 EA >24" Diameter Hole, Drilling Mobilization.....	1,157.65

31 63 36 00-0005 Drill Hole In Soil (31 63 36 00-0001)

31 63 36 00-0006 LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole	48.51
31 63 36 00-0007 LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole	56.40
31 63 36 00-0008 LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole	66.28
31 63 36 00-0009 LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole	78.12
31 63 36 00-0010 LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole	84.44
31 63 36 00-0011 LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole	92.90
31 63 36 00-0012 LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole	101.76

31 63 36 00-0013 Steel H Piles (31 63 36)**31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles** (31 63 36 00-0013)

Note: Includes guides, bracing and alignment.

31 63 36 00-0015 VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	59.42
For >2,400 To 3,600, Deduct	-1.79
For >3,600 To 4,800, Deduct	-3.58
For >4,800 To 6,000, Deduct	-6.55
For >6,000, Deduct	-9.52
31 63 36 00-0016 VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	67.91
For >2,400 To 3,600, Deduct	-2.02
For >3,600 To 4,800, Deduct	-4.04
For >4,800 To 6,000, Deduct	-7.43
For >6,000, Deduct	-10.83
31 63 36 00-0017 VLF 10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	87.59
For >2,400 To 3,600, Deduct	-2.51
For >3,600 To 4,800, Deduct	-5.02
For >4,800 To 6,000, Deduct	-9.40
For >6,000, Deduct	-13.78
31 63 36 00-0018 VLF 12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	82.72
For >2,400 To 3,600, Deduct	-2.40
For >3,600 To 4,800, Deduct	-4.79
For >4,800 To 6,000, Deduct	-8.93
For >6,000, Deduct	-13.07
31 63 36 00-0019 VLF 12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	95.84
For >2,400 To 3,600, Deduct	-2.73
For >3,600 To 4,800, Deduct	-5.45
For >4,800 To 6,000, Deduct	-10.24
For >6,000, Deduct	-15.03
31 63 36 00-0020 VLF 12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	111.37
For >2,400 To 3,600, Deduct	-3.14
For >3,600 To 4,800, Deduct	-6.28
For >4,800 To 6,000, Deduct	-11.85
For >6,000, Deduct	-17.42
31 63 36 00-0021 VLF 12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	124.49
For >2,400 To 3,600, Deduct	-3.47
For >3,600 To 4,800, Deduct	-6.94
For >4,800 To 6,000, Deduct	-13.16
For >6,000, Deduct	-19.39
31 63 36 00-0022 VLF 14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	110.42
For >2,400 To 3,600, Deduct	-3.13
For >3,600 To 4,800, Deduct	-6.25
For >4,800 To 6,000, Deduct	-11.77
For >6,000, Deduct	-17.29
31 63 36 00-0023 VLF 14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	132.73
For >2,400 To 3,600, Deduct	-3.68
For >3,600 To 4,800, Deduct	-7.37
For >4,800 To 6,000, Deduct	-14.00
For >6,000, Deduct	-20.64



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Bored Piles	31 63

T3

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
31 63 36 00-0024	VLF 14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile..... For >2,400 To 3,600, Deduct For >3,600 To 4,800, Deduct For >4,800 To 6,000, Deduct For >6,000, Deduct	149.68 -4.14 -8.28 -15.76 -23.24	
31 63 36 00-0025	VLF 14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile..... For >2,400 To 3,600, Deduct For >3,600 To 4,800, Deduct For >4,800 To 6,000, Deduct For >6,000, Deduct	170.68 -4.66 -9.33 -17.86 -26.39	
31 63 36 00-0026 Welded Steel Stud Pins (31 63 36 00-0013) Note: Includes welding to steel piles.			
31 63 36 00-0027	EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	12.81 -0.58 -1.19 -1.81 -2.42	
31 63 36 00-0028	EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	14.00 -0.58 -1.22 -1.87 -2.51	
31 63 36 00-0029	EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	15.15 -0.58 -1.25 -1.92 -2.59	
31 63 36 00-0030	EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	14.11 -0.61 -1.27 -1.93 -2.59	
31 63 36 00-0031	EA 3/4" Diameter x 5" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	15.91 -0.61 -1.32 -2.02 -2.72	
31 63 36 00-0032	EA 3/4" Diameter x 7" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	17.17 -0.61 -1.35 -2.08 -2.82	
31 63 36 00-0033	EA 7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	15.67 -0.64 -1.35 -2.06 -2.77	
31 63 36 00-0034	EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	18.60 -0.64 -1.42 -2.20 -2.99	
31 63 36 00-0035	EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins For >50 To 150, Deduct For >150 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	20.04 -0.64 -1.46 -2.28 -3.10	
31 63 36 00-0036 Concrete Fill (31 63 36) See CSI section 03 37 16 00-0001 for pumping equipment.			
31 63 36 00-0037	VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	52.09	
31 63 36 00-0038	VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	57.86	
31 63 36 00-0039	VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	63.65	
31 63 36 00-0040	VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	69.43	
31 63 36 00-0041	VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	75.22	
31 63 36 00-0042	VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	81.01	
31 63 36 00-0043	VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	93.06	
31 64 Caissons (31 60)			
31 64 13 Box Caissons (31 64)			
31 64 13 00-0001	Caisson In Stable Ground No Casing Or Ground Water (31 64 13) Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0002	Caisson In Stable Ground (31 64 13 00-0001) Note: Includes 3000 PSI concrete and reinforcing.		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.	57.24	
		For >50' To 100' Deep, Add	5.81	
		For >100' To 150' Deep, Add	14.31	
		For >150' To 200' Deep, Add	19.42	
		For Right Angle Drilling, Add	14.41	
31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.	74.13	
		For >50' To 100' Deep, Add	8.23	
		For >100' To 150' Deep, Add	18.53	
		For >150' To 200' Deep, Add	26.04	
		For Right Angle Drilling, Add	16.44	
31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.	106.04	
		For >50' To 100' Deep, Add	12.25	
		For >100' To 150' Deep, Add	26.51	
		For >150' To 200' Deep, Add	37.85	
		For Right Angle Drilling, Add	22.02	
31 64 13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.	141.68	
		For >50' To 100' Deep, Add	16.86	
		For >100' To 150' Deep, Add	35.42	
		For >150' To 200' Deep, Add	51.19	
		For Right Angle Drilling, Add	27.88	
31 64 13 00-0007	VLF	42" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.	182.96	
		For >50' To 100' Deep, Add	22.48	
		For >100' To 150' Deep, Add	45.74	
		For >150' To 200' Deep, Add	66.98	
		For Right Angle Drilling, Add	33.81	
31 64 13 00-0008	VLF	48" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.	222.38	
		For >50' To 100' Deep, Add	27.80	
		For >100' To 150' Deep, Add	55.60	
		For >150' To 200' Deep, Add	82.00	
		For Right Angle Drilling, Add	39.61	
31 64 13 00-0009	VLF	54" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.	270.26	
		For >50' To 100' Deep, Add	34.67	
		For >100' To 150' Deep, Add	67.57	
		For >150' To 200' Deep, Add	100.77	
		For Right Angle Drilling, Add	45.36	
31 64 13 00-0010	VLF	60" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.	319.72	
		For >50' To 100' Deep, Add	41.78	
		For >100' To 150' Deep, Add	79.93	
		For >150' To 200' Deep, Add	120.17	
		For Right Angle Drilling, Add	51.28	
31 64 13 00-0011	VLF	66" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.	375.46	
		For >50' To 100' Deep, Add	49.76	
		For >100' To 150' Deep, Add	93.87	
		For >150' To 200' Deep, Add	141.98	
		For Right Angle Drilling, Add	58.06	
31 64 13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	438.99	
		For >50' To 100' Deep, Add	58.90	
		For >100' To 150' Deep, Add	109.75	
		For >150' To 200' Deep, Add	166.91	
		For Right Angle Drilling, Add	65.62	
31 64 13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	503.24	
		For >50' To 100' Deep, Add	68.29	
		For >100' To 150' Deep, Add	125.81	
		For >150' To 200' Deep, Add	192.30	
		For Right Angle Drilling, Add	72.82	
31 64 13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	571.97	
		For >50' To 100' Deep, Add	78.38	
		For >100' To 150' Deep, Add	142.99	
		For >150' To 200' Deep, Add	219.52	
		For Right Angle Drilling, Add	80.36	
31 64 13 00-0015		For Bell Excavation And Concrete, Add (31 64 13 00-0001)		
31 64 13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY For >50' To 100' Deep, Add	428.14	
		For >100' To 150' Deep, Add	36.42	
		For >150' To 200' Deep, Add	107.04	
			136.51	
31 64 13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY For >50' To 100' Deep, Add	1,506.01	
		For >100' To 150' Deep, Add	128.36	
		For >150' To 200' Deep, Add	376.50	
			480.48	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 64 13 00-0018	EA Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY.....	2,291.82		
	For >50' To 100' Deep, Add	199.02		
	For >100' To 150' Deep, Add	572.96		
	For >150' To 200' Deep, Add	735.78		
31 64 13 00-0019	EA Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY.....	3,183.68		
	For >50' To 100' Deep, Add	277.10		
	For >100' To 150' Deep, Add	795.92		
	For >150' To 200' Deep, Add	1,022.90		
31 64 13 00-0020	EA Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY.....	4,290.34		
	For >50' To 100' Deep, Add	365.55		
	For >100' To 150' Deep, Add	1,072.59		
	For >150' To 200' Deep, Add	1,368.64		
31 64 13 00-0021	EA Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY.....	5,043.95		
	For >50' To 100' Deep, Add	429.54		
	For >100' To 150' Deep, Add	1,260.99		
	For >150' To 200' Deep, Add	1,608.76		
31 64 13 00-0022	EA Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY.....	8,547.83		
	For >50' To 100' Deep, Add	726.18		
	For >100' To 150' Deep, Add	2,136.96		
	For >150' To 200' Deep, Add	2,724.14		
31 64 13 00-0023	EA Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY.....	12,407.46		
	For >50' To 100' Deep, Add	1,066.84		
	For >100' To 150' Deep, Add	3,101.87		
	For >150' To 200' Deep, Add	3,970.14		
31 64 13 00-0024	Caisson In Wet Ground, Casing Pulled (31 64 13)			
	Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.			
31 64 13 00-0025	Caisson In Wet Ground (31 64 13 00-0024)			
	Note: Includes 3000 PSI concrete and reinforcing.			
31 64 13 00-0026	VLF 18" Diameter Caisson Wet Ground, Casing Pulled.....	62.67		
	Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	6.18		
	For >100' To 150' Deep, Add	15.67		
	For >150' To 200' Deep, Add	21.04		
	For Right Angle Drilling, Add	16.34		
31 64 13 00-0027	VLF 24" Diameter Caisson Wet Ground, Casing Pulled.....	105.20		
	Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	10.40		
	For >100' To 150' Deep, Add	26.30		
	For >150' To 200' Deep, Add	35.36		
	For Right Angle Drilling, Add	27.32		
31 64 13 00-0028	VLF 30" Diameter Caisson Wet Ground, Casing Pulled.....	140.99		
	Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	14.70		
	For >100' To 150' Deep, Add	35.25		
	For >150' To 200' Deep, Add	48.33		
	For Right Angle Drilling, Add	34.25		
31 64 13 00-0029	VLF 36" Diameter Caisson Wet Ground, Casing Pulled.....	194.33		
	Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	20.55		
	For >100' To 150' Deep, Add	48.58		
	For >150' To 200' Deep, Add	66.98		
	For Right Angle Drilling, Add	46.31		
31 64 13 00-0030	VLF 42" Diameter Caisson Wet Ground, Casing Pulled.....	247.95		
	Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	27.03		
	For >100' To 150' Deep, Add	61.99		
	For >150' To 200' Deep, Add	86.48		
	For Right Angle Drilling, Add	56.56		
31 64 13 00-0031	VLF 48" Diameter Caisson Wet Ground, Casing Pulled.....	299.46		
	Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	33.19		
	For >100' To 150' Deep, Add	74.87		
	For >150' To 200' Deep, Add	105.13		
	For Right Angle Drilling, Add	66.59		
31 64 13 00-0032	VLF 54" Diameter Caisson Wet Ground, Casing Pulled.....	385.87		
	Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	42.76		
	For >100' To 150' Deep, Add	96.47		
	For >150' To 200' Deep, Add	135.45		
	For Right Angle Drilling, Add	85.83		
31 64 13 00-0033	VLF 60" Diameter Caisson Wet Ground, Casing Pulled.....	472.84		
	Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	52.50		
	For >100' To 150' Deep, Add	118.21		
	For >150' To 200' Deep, Add	166.10		
	For Right Angle Drilling, Add	104.87		
31 64 13 00-0034	VLF 66" Diameter Caisson Wet Ground, Casing Pulled.....	542.96		
	Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.			
	For >50' To 100' Deep, Add	61.48		
	For >100' To 150' Deep, Add	135.74		
	For >150' To 200' Deep, Add	192.23		
	For Right Angle Drilling, Add	116.68		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	620.86	
		For >50' To 100' Deep, Add	71.63	
		For >100' To 150' Deep, Add	155.22	
		For >150' To 200' Deep, Add	221.47	
		For Right Angle Drilling, Add	129.27	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	708.88	
		For >50' To 100' Deep, Add	82.68	
		For >100' To 150' Deep, Add	177.22	
		For >150' To 200' Deep, Add	253.99	
		For Right Angle Drilling, Add	144.79	
31 64 13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	801.78	
		For >50' To 100' Deep, Add	94.47	
		For >100' To 150' Deep, Add	200.45	
		For >150' To 200' Deep, Add	288.46	
		For Right Angle Drilling, Add	160.80	
31 64 13 00-0038		For Bell Excavation And Concrete, Add (31 64 13 00-0024)		
31 64 13 00-0039	EA	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	487.81 40.60 121.95 154.41	
31 64 13 00-0040	EA	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	1,701.12 142.02 425.28 539.01	
31 64 13 00-0041	EA	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	2,277.51 174.12 569.38 701.62	
31 64 13 00-0042	EA	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	3,751.08 316.81 937.77 1,193.12	
31 64 13 00-0043	EA	Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	4,846.40 404.48 1,211.60 1,535.46	
31 64 13 00-0044	EA	Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	5,698.13 475.33 1,424.53 1,805.02	
31 64 13 00-0045	EA	Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	9,659.95 804.03 2,414.99 3,057.78	
31 64 13 00-0046	EA	Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	13,996.20 1,178.05 3,499.05 4,446.76	
31 64 13 00-0047		Caisson In Soft Rock And Medium Hard Shale (31 64 13) Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048		Caisson In Soft Rock (31 64 13 00-0047) Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049	VLF	18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.	229.87	
		For >50' To 100' Deep, Add	17.88	
		For >100' To 150' Deep, Add	57.47	
		For >150' To 200' Deep, Add	71.20	
		For Right Angle Drilling, Add	74.86	
31 64 13 00-0050	VLF	24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.	383.89	
		For >50' To 100' Deep, Add	29.91	
		For >100' To 150' Deep, Add	95.97	
		For >150' To 200' Deep, Add	118.97	
		For Right Angle Drilling, Add	124.86	
31 64 13 00-0051	VLF	30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.	579.13	
		For >50' To 100' Deep, Add	45.37	
		For >100' To 150' Deep, Add	144.78	
		For >150' To 200' Deep, Add	179.78	
		For Right Angle Drilling, Add	187.60	
31 64 13 00-0052	VLF	36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.	742.11	
		For >50' To 100' Deep, Add	58.89	
		For >100' To 150' Deep, Add	185.53	
		For >150' To 200' Deep, Add	231.32	
		For Right Angle Drilling, Add	238.03	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0053 VLF 42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	952.31	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
For >50' To 100' Deep, Add	76.33	
For >100' To 150' Deep, Add	238.08	
For >150' To 200' Deep, Add	297.78	
For Right Angle Drilling, Add	303.08	
31 64 13 00-0054 VLF 48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,150.56	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
For >50' To 100' Deep, Add	92.77	
For >100' To 150' Deep, Add	287.64	
For >150' To 200' Deep, Add	360.46	
For Right Angle Drilling, Add	364.48	
31 64 13 00-0055 VLF 54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,408.74	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
For >50' To 100' Deep, Add	114.36	
For >100' To 150' Deep, Add	352.19	
For >150' To 200' Deep, Add	442.31	
For Right Angle Drilling, Add	443.83	
31 64 13 00-0056 VLF 60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,667.72	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
For >50' To 100' Deep, Add	136.14	
For >100' To 150' Deep, Add	416.93	
For >150' To 200' Deep, Add	524.57	
For Right Angle Drilling, Add	523.08	
31 64 13 00-0057 VLF 66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,837.82	
Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
For >50' To 100' Deep, Add	152.12	
For >100' To 150' Deep, Add	459.46	
For >150' To 200' Deep, Add	580.69	
For Right Angle Drilling, Add	569.88	
31 64 13 00-0058 VLF 72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,014.91	
Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
For >50' To 100' Deep, Add	169.21	
For >100' To 150' Deep, Add	503.73	
For >150' To 200' Deep, Add	639.69	
For Right Angle Drilling, Add	617.19	
31 64 13 00-0059 VLF 78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,076.06	
Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
For >50' To 100' Deep, Add	178.39	
For >100' To 150' Deep, Add	519.02	
For >150' To 200' Deep, Add	664.15	
For Right Angle Drilling, Add	623.30	
31 64 13 00-0060 VLF 84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,475.91	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For >50' To 100' Deep, Add	211.66	
For >100' To 150' Deep, Add	618.98	
For >150' To 200' Deep, Add	790.70	
For Right Angle Drilling, Add	746.74	
31 64 13 00-0061 For Bell Excavation And Concrete, Add (31 64 13 00-0047)		
31 64 13 00-0062 EA Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY	820.28	
For >50' To 100' Deep, Add	63.87	
For >100' To 150' Deep, Add	205.07	
For >150' To 200' Deep, Add	254.15	
31 64 13 00-0063 EA Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY	2,887.39	
For >50' To 100' Deep, Add	225.06	
For >100' To 150' Deep, Add	721.85	
For >150' To 200' Deep, Add	894.89	
31 64 13 00-0064 EA Bell Excavation And Concrete, 7" Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY	4,341.94	
For >50' To 100' Deep, Add	342.52	
For >100' To 150' Deep, Add	1,085.49	
For >150' To 200' Deep, Add	1,350.82	
31 64 13 00-0065 EA Bell Excavation And Concrete, 8" Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY	6,179.38	
For >50' To 100' Deep, Add	486.80	
For >100' To 150' Deep, Add	1,544.85	
For >150' To 200' Deep, Add	1,921.61	
31 64 13 00-0066 EA Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY	8,144.51	
For >50' To 100' Deep, Add	635.35	
For >100' To 150' Deep, Add	2,036.13	
For >150' To 200' Deep, Add	2,524.89	
31 64 13 00-0067 EA Bell Excavation And Concrete, 10" Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY	9,913.58	
For >50' To 100' Deep, Add	770.41	
For >100' To 150' Deep, Add	2,478.40	
For >150' To 200' Deep, Add	3,069.65	
31 64 13 00-0068 EA Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY	15,034.64	
For >50' To 100' Deep, Add	1,180.26	
For >100' To 150' Deep, Add	3,758.66	
For >150' To 200' Deep, Add	4,670.18	
31 64 13 00-0069 EA Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY	22,634.09	
For >50' To 100' Deep, Add	1,782.71	
For >100' To 150' Deep, Add	5,658.52	
For >150' To 200' Deep, Add	7,038.13	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0070		Caisson Setup And Removal (31 64 13)		
		Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071	EA	Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	3,800.35	
31 64 13 00-0072	EA	Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	5,431.89	
31 64 13 00-0073	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,763.39	
31 64 13 00-0074	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	2,351.19	
31 64 13 00-0075	EA	Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	146.95	
31 68		Foundation Anchors (31 60)		
31 68 13		Rock Foundation Anchors (31 68)		
31 68 13 00-0001		Materials And Placement (31 68 13)		
31 68 13 00-0002		Hollow Core Prestressable Anchor, ASTM A615 (31 68 13 00-0001)		
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0003		3/4" Diameter (31 68 13 00-0002)		
31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor	187.83	
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor	269.14	
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor	326.17	
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor	431.76	
31 68 13 00-0008		1" Diameter (31 68 13 00-0002)		
31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor	235.49	
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor	360.79	
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor	461.81	
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor	611.42	
31 68 13 00-0013		1-3/8" Diameter (31 68 13 00-0002)		
31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor	382.47	
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor	592.05	
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor	777.37	
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor	1,011.23	
31 68 13 00-0018		2" Diameter (31 68 13 00-0002)		
31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor	829.46	
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor	1,231.54	
31 68 13 00-0021	EA	2" Rock Bolt, 15' Hollow Core Prestressable Anchor	1,609.28	
31 68 13 00-0022	EA	2" Rock Bolt, 20' Hollow Core Prestressable Anchor	2,035.64	
31 68 13 00-0023		Super High-Tensile Anchors, ASTM A-108 (31 68 13 00-0001)		
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0024		3/4" Diameter (31 68 13 00-0023)		
31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	139.60	
31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	186.23	
31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	208.50	
31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	277.73	
31 68 13 00-0029		1" Diameter (31 68 13 00-0023)		
31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor.....	164.34	
31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor.....	227.91	
31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor.....	265.21	
31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor.....	351.07	
31 68 13 00-0034		1-1/4" Diameter (31 68 13 00-0023)		
31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor.....	237.00	
31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor.....	332.07	
31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor.....	402.39	
31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor.....	518.35	
31 68 13 00-0039		2" Diameter (31 68 13 00-0023)		
31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor.....	606.86	
31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor.....	861.82	
31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor.....	1,049.40	
31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,296.89	



Earthwork		31	31
Special Foundations and Load-bearing Elements		31 60	
Foundation Anchors		31 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0044 Solid Rebar Anchors, ASTM A615 (31 68 13 00-0001) Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045 3/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0046 EA 3/4" Rock Bolt, 5' Solid Rebar Anchor	131.66	
31 68 13 00-0047 EA 3/4" Rock Bolt, 10' Solid Rebar Anchor	169.43	
31 68 13 00-0048 EA 3/4" Rock Bolt, 15' Solid Rebar Anchor	182.90	
31 68 13 00-0049 EA 3/4" Rock Bolt, 20' Solid Rebar Anchor	244.95	
31 68 13 00-0050 1" Diameter (31 68 13 00-0044)		
31 68 13 00-0051 EA 1" Rock Bolt, 5' Solid Rebar Anchor	146.95	
31 68 13 00-0052 EA 1" Rock Bolt, 10' Solid Rebar Anchor	194.71	
31 68 13 00-0053 EA 1" Rock Bolt, 15' Solid Rebar Anchor	218.23	
31 68 13 00-0054 EA 1" Rock Bolt, 20' Solid Rebar Anchor	290.25	
31 68 13 00-0055 1-1/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0056 EA 1-1/4" Rock Bolt, 5' Solid Rebar Anchor	208.10	
31 68 13 00-0057 EA 1-1/4" Rock Bolt, 10' Solid Rebar Anchor	269.08	
31 68 13 00-0058 EA 1-1/4" Rock Bolt, 15' Solid Rebar Anchor	305.87	
31 68 13 00-0059 EA 1-1/4" Rock Bolt, 20' Solid Rebar Anchor	391.19	
31 68 13 00-0060 Resin Anchoring With Grade 60 Rebar (31 68 13 00-0001) Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061 Rebar #6 (31 68 13 00-0060)		
31 68 13 00-0062 EA #6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	77.98	
31 68 13 00-0063 EA #6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	107.39	
31 68 13 00-0064 EA #6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	112.52	
31 68 13 00-0065 EA #6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	155.95	
31 68 13 00-0066 Rebar #8 (31 68 13 00-0060)		
31 68 13 00-0067 EA #8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	81.97	
31 68 13 00-0068 EA #8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	115.36	
31 68 13 00-0069 EA #8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	124.47	
31 68 13 00-0070 EA #8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	182.14	
31 68 13 00-0071 Rebar #10 (31 68 13 00-0060)		
31 68 13 00-0072 EA #10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	87.67	
31 68 13 00-0073 EA #10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	126.75	
31 68 13 00-0074 EA #10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	141.56	
31 68 13 00-0075 EA #10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	204.92	
31 68 13 00-0076 Rebar #14 (31 68 13 00-0060)		
31 68 13 00-0077 EA #14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	101.33	
31 68 13 00-0078 EA #14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	154.08	
31 68 13 00-0079 EA #14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	182.56	
31 68 13 00-0080 EA #14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	259.59	
31 68 13 00-0081 Plastic Rebar Collars, Sizes #6-#14 (31 68 13 00-0060)		
31 68 13 00-0082 EA Plastic Rebar Collars For Rebar #4 To #14.....	1.84	
31 68 13 00-0083 12" Long Resin Cartridges (31 68 13 00-0001)		
31 68 13 00-0084 EA 7/8" Resin Cartridge 12" Long	1.51	
31 68 13 00-0085 EA 1" Resin Cartridge 12" Long	2.07	
31 68 13 00-0086 EA 1-1/16" Resin Cartridge 12" Long	2.22	
31 68 13 00-0087 EA 1-1/4" Resin Cartridge 12" Long	2.40	
31 68 13 00-0088 EA 1-3/8" Resin Cartridge 12" Long	2.76	
31 68 13 00-0089 EA 1-9/16" Resin Cartridge 12" Long	3.45	
31 68 13 00-0090 EA 1-3/4" Resin Cartridge 12" Long	4.74	
31 68 13 00-0091 Head Assembly (31 68 13 00-0001)		
31 68 13 00-0092 3/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0093 EA 3/4" Rod Head Assembly 1-5/8" Short Cone and Shell	24.91	
31 68 13 00-0094 EA 3/4" Rod Head Assembly 1-3/4" Short Cone and Shell	20.98	
31 68 13 00-0095 EA 3/4" Rod Head Assembly 1-7/8" Short Cone and Shell	22.01	

31	Earthwork
31 60	Special Foundations and Load-bearing Elements
31 68	Foundation Anchors



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0096	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	39.52	
31 68 13 00-0097	EA	3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	39.52	
31 68 13 00-0098	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	37.44	
31 68 13 00-0099		1" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0100	EA	1" Rod Head Assembly 1-5/8" Short Cone and Shell	26.85	
31 68 13 00-0101	EA	1" Rod Head Assembly 1-3/4" Short Cone and Shell	22.98	
31 68 13 00-0102	EA	1" Rod Head Assembly 1-7/8" Short Cone and Shell	24.00	
31 68 13 00-0103	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	41.57	
31 68 13 00-0104	EA	1" Rod Head Assembly 1-7/8" Long Cone and Shell	41.57	
31 68 13 00-0105	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	39.63	
31 68 13 00-0106		1-1/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0107	EA	1-1/4" Rod Head Assembly 2" Short Cone and Shell	59.91	
31 68 13 00-0108	EA	1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	69.98	
31 68 13 00-0109	EA	1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	70.98	
31 68 13 00-0110	EA	1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell	62.95	
31 68 13 00-0111	EA	1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell	73.40	
31 68 13 00-0112		1-7/8" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0113	EA	1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	235.78	
31 68 13 00-0114	EA	1-7/8" Rod Head Assembly 3" Long Cone and Shell	162.55	
31 68 13 00-0115		2" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0116	EA	2" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	235.78	
31 68 13 00-0117	EA	2" Rod Head Assembly 3" Long Cone and Shell	162.55	
31 68 13 00-0118		Steel Plates With Standard Hole And Washers (31 68 13 00-0001)		
31 68 13 00-0119		Steel Plates (31 68 13 00-0118)		
31 68 13 00-0120	EA	1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer	3.64	
31 68 13 00-0121	EA	1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer	6.71	
31 68 13 00-0122	EA	3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer	9.34	
31 68 13 00-0123	EA	3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer	16.38	
31 68 13 00-0124	EA	1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer	6.36	
31 68 13 00-0125	EA	1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer	16.71	
31 68 13 00-0126	EA	3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer	27.73	
31 68 13 00-0127	EA	3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer	39.29	
31 68 13 00-0128	EA	1" x 4" x 7" Steel Plate For Rock Bolt With Washer	23.58	
31 68 13 00-0129	EA	1" x 9" x 9" Steel Plate For Rock Bolt With Washer	66.71	
31 68 13 00-0130	EA	1" x 12" x 12" Steel Plate For Rock Bolt With Washer	98.31	
31 68 13 00-0131	EA	1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer	43.15	
31 68 13 00-0132	EA	1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer	116.71	
31 68 13 00-0133	EA	1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer	58.37	
31 68 13 00-0134	EA	1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer	140.39	
31 68 13 00-0135	EA	1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer	64.43	
31 68 13 00-0136	EA	1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer	155.70	
31 68 13 00-0137		Hardened Washers (31 68 13 00-0118)		
31 68 13 00-0138	EA	Hardened Washer For 3/4" Diameter Rock Bolt	0.83	
31 68 13 00-0139	EA	Hardened Washer For 1" Diameter Rock Bolt	1.14	
31 68 13 00-0140	EA	Hardened Washer For 1-1/4" Diameter Rock Bolt	3.19	
31 68 13 00-0141	EA	Hardened Washer For 2" Diameter Rock Bolt	7.94	
31 68 13 00-0142		Beveled Washers (31 68 13 00-0118)		
31 68 13 00-0143	EA	Beveled Washer For 3/4" Diameter Rock Bolt	2.08	
31 68 13 00-0144	EA	Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt	2.05	
31 68 13 00-0145	EA	Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt	3.10	
31 68 13 00-0146	EA	Beveled Washer For 1-1/2" Diameter Rock Bolt	13.27	
31 68 13 00-0147	EA	Beveled Washer For 2" Diameter Rock Bolt	9.17	
31 68 13 00-0148		Hex Nuts (31 68 13 00-0118)		
31 68 13 00-0149	EA	Hex Nut For 3/4" Diameter Rock Bolt	1.62	
31 68 13 00-0150	EA	Hex Nut For 1" Diameter Rock Bolt	2.65	
31 68 13 00-0151	EA	Hex Nut For 1-1/4" Diameter Rock Bolt	10.85	
31 68 13 00-0152	EA	Hex Nut For 1-1/2" Diameter Rock Bolt	6.83	
31 68 13 00-0153	EA	Hex Nut For 2" Diameter Rock Bolt	43.59	
31 68 13 00-0154		Drilling Operation For Rockbolts (31 68 13)		
31 68 13 00-0155		Drill Holes For Rock Bolts (31 68 13 00-0154)		



Earthwork		31	31
Special Foundations and Load-bearing Elements		31 60	
Foundation Anchors		31 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0156 3/4" Diameter Bolt, 1-3/4" Hole (31 68 13 00-0155)		
31 68 13 00-0157 EA Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	170.56	
31 68 13 00-0158 EA Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	322.16	
31 68 13 00-0159 EA Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	483.24	
31 68 13 00-0160 EA Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	579.88	
31 68 13 00-0161 1" Diameter Bolt, 2" Hole (31 68 13 00-0155)		
31 68 13 00-0162 EA Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	223.03	
31 68 13 00-0163 EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	414.21	
31 68 13 00-0164 EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	579.88	
31 68 13 00-0165 EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	724.85	
31 68 13 00-0166 1-1/4" Diameter Bolt, 2-1/4" Hole (31 68 13 00-0155)		
31 68 13 00-0167 EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt	241.62	
31 68 13 00-0168 EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt	483.24	
31 68 13 00-0169 EA Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt.....	724.85	
31 68 13 00-0170 EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt	966.47	
31 68 13 00-0171 2" Diameter Bolt, 3-1/2" Hole (31 68 13 00-0155)		
31 68 13 00-0172 EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt	289.94	
31 68 13 00-0173 EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt	579.88	
31 68 13 00-0174 EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	966.47	
31 68 13 00-0175 EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt	1,449.71	
31 68 13 00-0176 Tools (31 68 13)		
31 68 13 00-0177 Hydraulic Jacks, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0178 EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke	590.87	
31 68 13 00-0179 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke	870.75	
31 68 13 00-0180 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	1,460.79	
31 68 13 00-0181 EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	2,186.98	
31 68 13 00-0182 EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke	3,269.14	
31 68 13 00-0183 Torque Wrenches And Ratchet Adapter, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0184 0-500 Foot Pounds (0-678J) (31 68 13 00-0183)		
31 68 13 00-0185 EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental.....	206.76	
31 68 13 00-0186 EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds	129.61	
31 68 13 00-0187 EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental	336.62	
31 68 13 00-0188 0-600 Foot Pounds (0-814J) (31 68 13 00-0183)		
31 68 13 00-0189 EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental	234.75	
31 68 13 00-0190 Up To 1,000 Foot Pounds (0-1356J) (31 68 13 00-0183)		
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental	450.85	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental	111.20	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental	562.04	
31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier (31 68 13 00-0176)		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio.....	577.43	
31 68 13 00-0196 Pneumatic Drive Torque Wrench (31 68 13 00-0176)		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J)	1,235.54	
31 68 13 00-0198 Grouting (31 68 13)		
31 68 13 00-0199 Grouting With Pumps (31 68 13 00-0198)		
Note: Grout material and labor only.		
31 68 13 00-0200 GAL Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery.....	19.66	
31 68 13 00-0201 GAL Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery.....	31.54	
31 68 13 00-0202 GAL Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery.....	28.99	
31 68 13 00-0203 Grout Pumps, Monthly Rental (31 68 13 00-0198)		
31 68 13 00-0204 EA Hand Grout Pump, Monthly Rental	139.44	
31 68 13 00-0205 EA Air Powered Programmable Feed Grout Pump Monthly Rental.....	1,172.99	
31 68 13 00-0206 EA Air Powered, Piston Drive Grout Pump Monthly Rental.....	2,047.93	

31	31	Earthwork
	31 60	Special Foundations and Load-bearing Elements
	31 68	Foundation Anchors



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
31 68 13 00-0207			Rock Bolt Testing (31 68 13)			
31 68 13 00-0208	EA		Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing		487.80	

END OF SECTION 31



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Paving Cleaning		32 01 11

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements⁽³²⁾

32 01 11 Paving Cleaning^(32 01)

32 01 11 53 Paint Removal from Paving^(32 01 11)

32 01 11 53-0001 Remove Pavement Markings^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	1.97
		For Up To 250, Add	0.99
		For >250 To 1,000, Add	0.49
		For >5,000 To 10,000, Deduct	-0.30
		For >10,000 To 25,000, Deduct	-0.49
		For >25,000 To 50,000, Deduct	-0.69
		For >50,000, Deduct	-0.79
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.36
		For Up To 250, Add	1.18
		For >250 To 1,000, Add	0.59
		For >5,000 To 10,000, Deduct	-0.35
		For >10,000 To 25,000, Deduct	-0.59
		For >25,000 To 50,000, Deduct	-0.83
		For >50,000, Deduct	-0.94
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	2.83
		For Up To 250, Add	1.42
		For >250 To 1,000, Add	0.71
		For >5,000 To 10,000, Deduct	-0.42
		For >10,000 To 25,000, Deduct	-0.71
		For >25,000 To 50,000, Deduct	-0.99
		For >50,000, Deduct	-1.13
32 01 11 53-0005	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.39
		For Up To 250, Add	1.70
		For >250 To 1,000, Add	0.85
		For >5,000 To 10,000, Deduct	-0.51
		For >10,000 To 25,000, Deduct	-0.85
		For >25,000 To 50,000, Deduct	-1.19
		For >50,000, Deduct	-1.36
32 01 11 53-0006	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	3.39
		For Up To 250, Add	1.70
		For >250 To 1,000, Add	0.85
		For >5,000 To 10,000, Deduct	-0.51
		For >10,000 To 25,000, Deduct	-0.85
		For >25,000 To 50,000, Deduct	-1.19
		For >50,000, Deduct	-1.36
32 01 11 53-0007	LF	Removal Of 4" Wide Thermoplastic Pavement Striping	2.53
		For Up To 250, Add	1.27
		For >250 To 1,000, Add	0.63
		For >5,000 To 10,000, Deduct	-0.38
		For >10,000 To 25,000, Deduct	-0.63
		For >25,000 To 50,000, Deduct	-0.89
		For >50,000, Deduct	-1.01
32 01 11 53-0008	LF	Removal Of 6" Wide Thermoplastic Pavement Striping	2.98
		For Up To 250, Add	1.49
		For >250 To 1,000, Add	0.75
		For >5,000 To 10,000, Deduct	-0.45
		For >10,000 To 25,000, Deduct	-0.75
		For >25,000 To 50,000, Deduct	-1.04
		For >50,000, Deduct	-1.19
32 01 11 53-0009	LF	Removal Of 8" Wide Thermoplastic Pavement Striping	3.60
		For Up To 250, Add	1.80
		For >250 To 1,000, Add	0.90
		For >5,000 To 10,000, Deduct	-0.54
		For >10,000 To 25,000, Deduct	-0.90
		For >25,000 To 50,000, Deduct	-1.26
		For >50,000, Deduct	-1.44
32 01 11 53-0010	LF	Removal Of 12" Wide Thermoplastic Pavement Striping	4.32
		For Up To 250, Add	2.16
		For >250 To 1,000, Add	1.08
		For >5,000 To 10,000, Deduct	-0.65
		For >10,000 To 25,000, Deduct	-1.08
		For >25,000 To 50,000, Deduct	-1.51
		For >50,000, Deduct	-1.73
32 01 11 53-0011	SF	Removal Of Thermoplastic Pavement Marking, Letters Or Symbols	4.32
		For Up To 250, Add	2.16
		For >250 To 1,000, Add	1.08
		For >5,000 To 10,000, Deduct	-0.65
		For >10,000 To 25,000, Deduct	-1.08
		For >25,000 To 50,000, Deduct	-1.51
		For >50,000, Deduct	-1.73

32 01 13 Flexible Paving Surface Treatment^(32 01)

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 13 61 Slurry Seal (Latex Modified) (32 01 13)**32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot** (32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Asphalt Seal Coating Minimum Charge	749.73
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
32 01 13 61-0003	SY	Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.04
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.48
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0004	SY	>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.75
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.47
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0005	SY	>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.54
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0006	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.34
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0007	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.16
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0008	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	2.99
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.43
		For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0009	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.05
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.33
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.39
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.49
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0010	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	4.74
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.48
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0011	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	4.51
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.47
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0012	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	4.29
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0013	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	4.09
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.49
32 01 13 61-0014	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	3.91
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.49

32 01 13 62 Asphalt Surface Treatment (32 01 13)**32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing)** (32 01 13 62)

Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.



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Flexible Paving Surface Treatment		32 01 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 62-0002	SY	Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.95		
32 01 13 62-0003	SY	Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.49		
32 01 13 62-0004	SY	>500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.07		
32 01 13 62-0005	SY	>1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	7.73		
32 01 13 62-0006	SY	>5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	7.41		
32 01 13 62-0007	SY	>10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	7.14		
32 01 13 62-0008	SY	>20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	6.93		
32 01 13 62-0009	SY	>50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	6.83		

32 01 16 Flexible Paving Rehabilitation (32 01)

32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)

32 01 16 71-0001 Removal Of Asphalt Surface Course (32 01 16 71)

Note: Includes direct loading into truck.

32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)

Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0029 for hauling.

32 01 16 71-0003	SY	Up To 3" Depth, Production Cold Milling Of Asphalt	4.22		
		For Up To 2,500, Add	3.17		
		For >2,500 To 5,000, Add	1.06		
		For >10,000 To 25,000, Deduct	-0.42		
		For >25,000, Deduct	-0.63		
32 01 16 71-0004	SY	>3" To 6" Depth, Production Cold Milling Of Asphalt	5.63		
		For Up To 2,500, Add	4.22		
		For >2,500 To 5,000, Add	1.41		
		For >10,000 To 25,000, Deduct	-0.56		
		For >25,000, Deduct	-0.84		
32 01 16 71-0005	SY	>6" To 12" Depth, Production Cold Milling Of Asphalt	7.50		
		For Up To 2,500, Add	5.63		
		For >2,500 To 5,000, Add	1.88		
		For >10,000 To 25,000, Deduct	-0.75		
		For >25,000, Deduct	-1.13		

32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)

Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0029 for hauling.

32 01 16 71-0007	SY	Up To 3" Depth, Limited Cold Milling Of Asphalt	26.73		
		For >100 To 1,000, Deduct	-13.37		
		For >1,000, Deduct	-20.05		
32 01 16 71-0008	SY	>3" To 6" Depth, Limited Cold Milling Of Asphalt	35.40		
		For >100 To 1,000, Deduct	-17.70		
		For >1,000, Deduct	-26.55		
32 01 16 71-0009	SY	>6" To 12" Depth, Limited Cold Milling Of Asphalt	47.14		
		For >100 To 1,000, Deduct	-23.57		
		For >1,000, Deduct	-35.36		

32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)

Note: For use as subbase material, includes spreading and rolling.

32 01 16 71-0011	SY	Grind, Leave In-Place As Subbase Course, 6-9" Depth	6.96		

32 01 16 71-0012 Wedge Grinding Cold Milling (32 01 16 71)

Note: Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes water truck. Excludes mobilization, sweeping and cleaning, hauling and disposal. See CSI section 01 74 16 00-0001 for sweeping and cleaning.

32 01 16 71-0013	LF	5' Wedge Grinding/Cold Milling Of Asphalt Up To 3" Depth	7.42		
32 01 16 71-0014	LF	10' Wedge Grinding/Cold Milling Of Asphalt Up To 3" Depth	14.85		

32 01 16 71-0015 Cutback Ramp (32 01 16 71)

32 01 16 71-0016	LF	1" Differential, 5' Length, Cutback Ramp	11.42		
32 01 16 71-0017	LF	1-1/2" Differential, 5' Length, Cutback Ramp	13.85		
32 01 16 71-0018	LF	2" Differential, 5' Length, Cutback Ramp	16.07		

32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)

32 01 16 73-0001 Cold-In-Place-Partial Depth Recycling Process With Foam Asphalt (32 01 16 73)

Note: Includes milling between 3"-6" of existing AC surface, computerized metered injection of liquid asphalt, cement, and water mix together as binder with milled material, spread and place with paver, follow by vibratory steel drum roller, Cat CB534D or equivalent, then follow by rubber tired roller, Hypac C560A or equivalent. The Contractor will provide all the necessary engineering, preconstruction soil analysis, stamped mix design, in-place compaction testing of recycled material and any other QC/QA during construction. The recycled material (from milled surface mixed with liquid asphalt, cement, and water) shall meet Class II AB (3/4" max.) gradation and shall compact at 96% relative compaction or higher. The Contractor's process shall be capable of producing between 450-500 tons per hour of recycled, in-place material. The Contractor shall warranty their work for a period of two years. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 01 16 73-0002	SF	Up To 30,000 SF Cold In Place Recycling Process With Foam Asphalt.....	3.89
32 01 16 73-0003	SF	>30,000 To 42,000 SF Cold In Place Recycling Process With Foam Asphalt	3.61
32 01 16 73-0004	SF	>42,000 To 71,000 SF Cold In Place Recycling Process With Foam Asphalt	2.98
32 01 16 73-0005	SF	>71,000 To 130,000 SF Cold In Place Recycling Process With Foam Asphalt	2.49

32 01 16 74 In Place Hot Reused Asphalt Paving (32 01 16)**32 01 16 74-0001 Rejuvenate, Respread Asphalt Pavement (32 01 16 74)**

Note: Includes direct loading into truck.

32 01 16 74-0002	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep	11.59
32 01 16 74-0003	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar	13.62
32 01 16 74-0004	TON	Removal, Rejuvenation, And Respreading Of Asphalt Grindings	182.93

32 01 16 74-0005 Reclamation, Pulverize And Blending With Existing (32 01 16 74)

Note: Includes direct loading into truck.

32 01 16 74-0006	SY	Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	14.39
32 01 16 74-0007	SY	Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	7.20
32 01 16 74-0008	SY	Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.60
32 01 16 74-0009	SY	Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.41
32 01 16 74-0010	SY	>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.92
32 01 16 74-0011	SY	>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	15.71
32 01 16 74-0012	SY	>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	7.86
32 01 16 74-0013	SY	>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.71
32 01 16 74-0014	SY	>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	17.28
32 01 16 74-0015	SY	>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.64
32 01 16 74-0016	SY	>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.32
32 01 16 74-0017	SY	>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.99
32 01 16 74-0018	SY	>4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	18.85
32 01 16 74-0019	SY	>4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.43
32 01 16 74-0020	SY	>4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.71
32 01 16 74-0021	SY	>4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.39
32 01 16 74-0022	EA	Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,619.86

32 01 17 Flexible Paving Repair (32 01)

See CSI section 32 12 16 00-0000 for large area resurfacing.

32 01 17 61 Sealing Cracks in Asphalt Paving (32 01 17)

Note: Includes removing loose materials and cleaning.

32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair (32 01 17 61)

Note: Includes removing loose materials and cleaning.

32 01 17 61-0002	LF	Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.60
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	0.45
		For 1" x 1/2" Fill, Add	0.85
		For Backer Rod, Add	0.93
32 01 17 61-0003	LF	>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.31
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	0.38
		For 1" x 1/2" Fill, Add	0.71
		For Backer Rod, Add	0.84
32 01 17 61-0004	LF	>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.05
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	0.30
		For 1" x 1/2" Fill, Add	0.58
		For Backer Rod, Add	0.75
32 01 17 61-0005	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.89
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
		For 3/4" x 1/2" Fill, Add	0.26
		For 1" x 1/2" Fill, Add	0.50
		For Backer Rod, Add	0.70



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Flexible Paving Repair		32 01 17

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0006 LF >5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....0.80 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.24 For 1" x 1/2" Fill, Add 0.45 For Backer Rod, Add 0.66		
32 01 17 61-0007 LF >10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....0.74 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.22 For 1" x 1/2" Fill, Add 0.41 For Backer Rod, Add 0.63		
32 01 17 61-0008 LF Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....2.80		
32 01 17 61-0009 LF >200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....2.26		
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....1.75		
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....1.53		
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....1.39		
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....1.29		
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....0.50		

32 01 17 63 Flexible Pavement Repair (32 01 17 63)

32 01 17 63-0001	Temporary Pot Hole Repair (32 01 17 63) Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.	
32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons.....	1,596.58	
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified.....	484.41	
	Note: Use for each ton over 3 tons.	
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,520.03	
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix.....	458.89	
	Note: Use for each ton over 3 tons.	
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,481.76	
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified.....	446.13	
	Note: Use for each ton over 3 tons.	
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,443.48	
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix.....	433.38	
	Note: Use for each ton over 3 tons.	

32 01 17 63-0010	Permanent Pot Hole Repair (32 01 17 63) Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles. Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.	
32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,693.81	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix.....	550.92	
	Note: Use for each ton over 3 tons.	
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,655.54	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified.....	538.16	
	Note: Use for each ton over 3 tons.	
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,617.26	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix.....	525.41	
	Note: Use for each ton over 3 tons.	

32 01 17 63-0017	Asphalt Placement For Small Repairs (32 01 17 63) Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0001 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.	
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	2,218.17	
	Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified.....	294.90	
	Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons.....	2,141.62	
	Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix.....	269.38	
	Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons.....	2,103.35	
	Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified.....	256.62	
	Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons.....	2,065.07	
	Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix.....	243.87	
	Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	

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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 17 63-0026	Grind Asphalt (32 01 17 63)	
32 01 17 63-0027	SY Grinding Asphalt To Level Bump Or Raised Area.....	19.76

32 01 26 Rigid Paving Rehabilitation (32 01)**32 01 26 71 Grooving Of Concrete Paving (32 01 26)**

32 01 26 71-0001	Roadway Grooving (32 01 26 71)	
32 01 26 71-0002	EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3,693.27
32 01 26 71-0003	SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3.42
32 01 26 71-0004	EA First 500 SY Of Pavement Grooving, Concrete, Traverse	4,114.43
32 01 26 71-0005	SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse.....	4.45

32 01 26 71-0006	Rumble Strips (32 01 26 71)	
32 01 26 71-0007	EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	4,020.01
32 01 26 71-0008	EA Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.73
32 01 26 71-0009	LF First 2000 LF Of MIARDS, Rumble Strips, Concrete	4,479.92
32 01 26 71-0010	LF Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete	0.81

32 01 26 73 Milling Of Concrete Paving (32 01 26)

32 01 26 73-0001	Removal Of Concrete (32 01 26 73)	
Note: Includes direct loading into truck.		
32 01 26 73-0002	Production Milling Of Roads And Parking Areas (32 01 26 73-0001)	
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0029 for hauling.		
32 01 26 73-0003	SY Production Milling Of Concrete Per Inch	6.39

32 01 26 73-0004	Limited Production Milling (32 01 26 73-0001)	
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0029 for hauling.		
32 01 26 73-0005	SY Limited Production Milling Of Concrete Per Inch	40.17

32 01 90 Operation and Maintenance of Planting (32 01)

Note: These tasks are to be used as requested by the owner to maintain existing conditions.

32 01 90 13 Fertilizing (32 01 90)

32 01 90 13-0001	MSF Fertilizer - 2 LB Of Nitrogen/MSF (Granular)	14.00
32 01 90 13-0002	MSF Fertilizer - 2 LB Of Nitrogen/MSF (Liquid).....	9.97
32 01 90 13-0003	MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular).....	10.96
32 01 90 13-0004	MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid).....	8.92

32 01 90 19 Mowing (32 01 90)

32 01 90 19-0001	ACR Vegetation Cutting By Bush Hog.....	182.31
Note: Includes normal debris removal, cutting, and trimming.		
For <1 Acre, Add		45.58
32 01 90 19-0002	MSF Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF.....	6.35
32 01 90 19-0003	MSF Mowing Vegetation With Riding Mower, >45,000 SF	4.92
32 01 90 19-0004	MSF Clear Vegetation With Weed Trimmer, Up To 1,000 SF	22.72
For Work On Slopes >2:1, Add		5.68
For Clearing Light Brush, Add		3.41
32 01 90 19-0005	MSF Clear Vegetation With Weed Trimmer, >1,000 SF	19.08
For Work On Slopes >2:1, Add		4.77
For Clearing Light Brush, Add		2.86
32 01 90 19-0006	MSF Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	18.71

32 01 90 23 Pruning (32 01 90)

32 01 90 23-0001	Tree Pruning (32 01 90 23)	
Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.		
32 01 90 23-0002	Tree Pruning; Crown Cleaning (32 01 90 23-0001)	
Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.		
32 01 90 23-0003	EA 1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	28.30
32 01 90 23-0004	EA 2" Caliper, Tree Pruning (Crown Cleaning), By Hand	32.35
32 01 90 23-0005	EA 2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	36.38
32 01 90 23-0006	EA 3" Caliper, Tree Pruning (Crown Cleaning), By Hand	40.43
32 01 90 23-0007	EA 4" Caliper, Tree Pruning (Crown Cleaning), By Hand	61.44
32 01 90 23-0008	EA 4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	103.87



Exterior Improvements			32
Operation and Maintenance of Exterior Improvements			32 01
Operation and Maintenance of Planting			32 01 90

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0009	EA		6" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	107.52	
32 01 90 23-0010	EA		6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	197.83	
32 01 90 23-0011	EA		9" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	172.19	
32 01 90 23-0012	EA		9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	316.45	
32 01 90 23-0013	EA		12" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	198.97	
32 01 90 23-0014	EA		12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	365.96	
32 01 90 23-0015	EA		18" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	231.30	
32 01 90 23-0016	EA		18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	425.30	
32 01 90 23-0017	EA		24" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	281.55	
32 01 90 23-0018	EA		24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	514.40	
32 01 90 23-0019	EA		30" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	349.74	
32 01 90 23-0020	EA		30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	648.30	
32 01 90 23-0021	EA		36" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	479.03	
32 01 90 23-0022	EA		36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	878.66	
32 01 90 23-0023	EA		48" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	759.97	
32 01 90 23-0024	EA		48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	1,413.03	
32 01 90 23-0025 Tree Pruning; Crown Thinning (32 01 90 23-0001)					
Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.					
32 01 90 23-0026	EA		1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	34.69	
32 01 90 23-0027	EA		2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	39.63	
32 01 90 23-0028	EA		2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	44.56	
32 01 90 23-0029	EA		3" Caliper, Tree Pruning (Crown Thinning), By Hand.....	49.57	
32 01 90 23-0030	EA		4" Caliper, Tree Pruning (Crown Thinning), By Hand.....	75.28	
32 01 90 23-0031	EA		4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	127.20	
32 01 90 23-0032	EA		6" Caliper, Tree Pruning (Crown Thinning), By Hand.....	131.72	
32 01 90 23-0033	EA		6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	242.33	
32 01 90 23-0034	EA		9" Caliper, Tree Pruning (Crown Thinning), By Hand.....	210.97	
32 01 90 23-0035	EA		9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	387.64	
32 01 90 23-0036	EA		12" Caliper, Tree Pruning (Crown Thinning), By Hand.....	243.71	
32 01 90 23-0037	EA		12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	448.27	
32 01 90 23-0038	EA		18" Caliper, Tree Pruning (Crown Thinning), By Hand.....	283.34	
32 01 90 23-0039	EA		18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	520.97	
32 01 90 23-0040	EA		24" Caliper, Tree Pruning (Crown Thinning), By Hand.....	344.87	
32 01 90 23-0041	EA		24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	630.17	
32 01 90 23-0042	EA		30" Caliper, Tree Pruning (Crown Thinning), By Hand.....	428.41	
32 01 90 23-0043	EA		30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	794.16	
32 01 90 23-0044	EA		36" Caliper, Tree Pruning (Crown Thinning), By Hand.....	586.80	
32 01 90 23-0045	EA		36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	1,076.36	
32 01 90 23-0046	EA		48" Caliper, Tree Pruning (Crown Thinning), By Hand.....	930.96	
32 01 90 23-0047	EA		48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	1,730.95	
32 01 90 23-0048 Tree Pruning; Crown Raising (32 01 90 23-0001)					
Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.					
32 01 90 23-0049	EA		1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	38.25	
32 01 90 23-0050	EA		2" Caliper, Tree Pruning (Crown Raising), By Hand.....	43.66	
32 01 90 23-0051	EA		2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	49.17	
32 01 90 23-0052	EA		3" Caliper, Tree Pruning (Crown Raising), By Hand.....	54.58	
32 01 90 23-0053	EA		4" Caliper, Tree Pruning (Crown Raising), By Hand.....	82.97	
32 01 90 23-0054	EA		4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	140.25	
32 01 90 23-0055	EA		6" Caliper, Tree Pruning (Crown Raising), By Hand.....	145.14	
32 01 90 23-0056	EA		6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	267.06	
32 01 90 23-0057	EA		9" Caliper, Tree Pruning (Crown Raising), By Hand.....	232.47	
32 01 90 23-0058	EA		9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	427.20	
32 01 90 23-0059	EA		12" Caliper, Tree Pruning (Crown Raising), By Hand.....	268.62	
32 01 90 23-0060	EA		12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	494.06	
32 01 90 23-0061	EA		18" Caliper, Tree Pruning (Crown Raising), By Hand.....	312.29	
32 01 90 23-0062	EA		18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	574.18	
32 01 90 23-0063	EA		24" Caliper, Tree Pruning (Crown Raising), By Hand.....	380.13	
32 01 90 23-0064	EA		24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	694.46	
32 01 90 23-0065	EA		30" Caliper, Tree Pruning (Crown Raising), By Hand.....	472.15	
32 01 90 23-0066	EA		30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	875.17	
32 01 90 23-0067	EA		36" Caliper, Tree Pruning (Crown Raising), By Hand.....	646.73	
32 01 90 23-0068	EA		36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	1,186.15	
32 01 90 23-0069	EA		48" Caliper, Tree Pruning (Crown Raising), By Hand.....	1,025.97	
32 01 90 23-0070	EA		48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	1,907.62	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 23-0071**Tree Pruning; Crown Reduction** (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	41.08
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand	46.90
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	52.80
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand	58.62
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand	89.11
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	150.64
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand	155.90
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	286.85
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand	249.70
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	458.85
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand	288.51
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	530.66
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand	335.42
32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	616.72
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand	408.26
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	745.89
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand	507.16
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	940.06
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand	694.60
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,274.08
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand	1,101.97
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	2,048.86

32 01 90 23-0094**Tree Pruning; Crown Restoration** (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	47.14
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand	53.93
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	60.64
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand	67.35
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand	102.37
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	173.10
32 01 90 23-0101	EA	6" Caliper, Tree Pruning (Crown Restoration), By Hand	179.19
32 01 90 23-0102	EA	6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	329.67
32 01 90 23-0103	EA	9" Caliper, Tree Pruning (Crown Restoration), By Hand	286.98
32 01 90 23-0104	EA	9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	527.40
32 01 90 23-0105	EA	12" Caliper, Tree Pruning (Crown Restoration), By Hand	331.61
32 01 90 23-0106	EA	12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	609.89
32 01 90 23-0107	EA	18" Caliper, Tree Pruning (Crown Restoration), By Hand	385.47
32 01 90 23-0108	EA	18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	708.80
32 01 90 23-0109	EA	24" Caliper, Tree Pruning (Crown Restoration), By Hand	469.24
32 01 90 23-0110	EA	24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	857.37
32 01 90 23-0111	EA	30" Caliper, Tree Pruning (Crown Restoration), By Hand	582.92
32 01 90 23-0112	EA	30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,080.52
32 01 90 23-0113	EA	36" Caliper, Tree Pruning (Crown Restoration), By Hand	798.42
32 01 90 23-0114	EA	36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,464.49
32 01 90 23-0115	EA	48" Caliper, Tree Pruning (Crown Restoration), By Hand	1,266.61
32 01 90 23-0116	EA	48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	2,355.09

32 01 90 23-0117**Palm Tree Pruning** (32 01 90 23)

32 01 90 23-0118	EA	Trim Mexican Palm Tree	85.73
32 01 90 23-0119	EA	Trim Date Palm Tree	193.44
32 01 90 23-0120	LF	Skin Palm Tree	21.98
32 01 90 23-0121	EA	Trim And Skin Palm Tree, Up To 30' Height	84.08
32 01 90 23-0122	EA	Trim And Skin Palm Tree, >30' To 60' Height	103.85
32 01 90 23-0123	EA	Trim And Skin Palm Tree, >60' To 80' Height	116.22

32 01 90 23-0124**Shrub Pruning** (32 01 90 23)

32 01 90 23-0125	MSF	Shrub Pruning, Prune, Shrub Bed	92.14
32 01 90 23-0126	EA	Shrub Pruning, Prune, Shrub Under 3' Height	3.23
32 01 90 23-0127	EA	Shrub Pruning, Prune, Shrub 4' Height	7.28
32 01 90 23-0128	EA	Shrub Pruning, Prune, Shrub Over 6'	12.94
32 01 90 23-0129	EA	Shrub Pruning, Prune Trees From Ground	32.35
32 01 90 23-0130	EA	Shrub Pruning, Prune Trees From Ground, High Work	80.86



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Operation and Maintenance of Planting		32 01 90

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0131 Root Pruning (32 01 90 23)		
Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
32 01 90 23-0132 EA Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	16.17	
32 01 90 23-0133 EA Root Pruning, One Side Of 2" Caliper Tree	20.21	
32 01 90 23-0134 EA Root Pruning, One Side Of 2-1/2" Caliper Tree	24.26	
32 01 90 23-0135 EA Root Pruning, One Side Of 3" Caliper Tree	32.35	
32 01 90 23-0136 EA Root Pruning, One Side Of 4" Caliper Tree	48.52	
32 01 90 23-0137 EA Root Pruning, One Side Of >4" To 6" Caliper Tree.....	60.64	
32 01 90 23-0138 EA Root Pruning, One Side Of >6" To 9" Caliper Tree.....	84.90	
32 01 90 23-0139 EA Root Pruning, One Side Of >9" To 12" Caliper Tree.....	97.04	
32 01 90 23-0140 EA Root Pruning, One Side Of >12" To 18" Caliper Tree.....	113.20	
32 01 90 23-0141 EA Root Pruning, One Side Of >18" To 24" Caliper Tree.....	141.51	
32 01 90 23-0142 EA Root Pruning, One Side Of >24" To 30" Caliper Tree.....	173.85	
32 01 90 23-0143 EA Root Pruning, One Side Of >30" To 36" Caliper Tree.....	202.15	
32 01 90 23-0144 EA Root Pruning, One Side Of >36" To 42" Caliper Tree.....	222.36	
32 01 90 23-0145 EA Root Pruning, One Side Of >42" To 48" Caliper Tree.....	242.58	
32 01 90 26 Watering (32 01 90)		
Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
32 01 90 26-0001 Watering Lawns, Plants And Trees (32 01 90 26)		
Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.		
32 01 90 26-0002 MSF Watering Sod/Grass, Per Inch Of Water	41.85	
32 01 90 26-0003 CSF Watering Groundcover.....	6.48	
32 01 90 26-0004 CSF Watering Annuals And Perennials	11.52	
32 01 90 26-0005 EA Watering Trees, 1-1/2" To 5" Diameter By Hand	22.33	
32 01 90 26-0006 EA Watering Trees, 6" To 12" Diameter By Hand	29.36	
32 01 90 26-0007 EA Watering Trees, 13" To 18" Diameter By Hand	36.39	
32 01 90 26-0008 EA Watering Trees, >18" Diameter By Hand.....	44.80	
32 01 90 26-0009 EA Watering Shrub Or Bush By Hand	11.23	
32 01 90 36 Weed and Brush Control (32 01 90)		
32 01 90 36-0001 Herbicide, Push Or Hand Spreader Applied (32 01 90 36)		
32 01 90 36-0002 MSF Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF).....	7.41	
For >45 To 90, Deduct	-0.40	
For >90 To 225, Deduct	-1.14	
For >225 To 870, Deduct	-1.89	
For >870, Deduct	-2.29	
32 01 90 36-0003 MSF Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF)	7.95	
For >45 To 90, Deduct	-0.46	
For >90 To 225, Deduct	-1.25	
For >225 To 870, Deduct	-2.05	
For >870, Deduct	-2.50	
32 01 90 36-0004 MSF Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF)	7.92	
Note: Includes pre and post emergent.		
For >45 To 90, Deduct	-0.45	
For >90 To 225, Deduct	-1.25	
For >225 To 870, Deduct	-2.04	
For >870, Deduct	-2.49	
32 01 90 36-0005 MSF Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF)	8.25	
Note: Includes pre and post emergents.		
For >45 To 90, Deduct	-0.49	
For >90 To 225, Deduct	-1.31	
For >225 To 870, Deduct	-2.14	
For >870, Deduct	-2.62	
32 01 90 39 Pesticides (32 01 90)		
32 01 90 39-0001 MSF Pesticide - Surface Eating.....	10.44	
32 01 90 39-0002 MSF Pesticide - Subsurface Eating.....	10.48	
32 01 90 39-0003 MSF Pesticide - Fungicide Application	11.45	
32 01 90 43 Weed and Cultivate Beds (32 01 90)		
32 01 90 43-0001 MSF Weed Mulched Bed	39.43	
32 01 90 43-0002 MSF Weed Unmulched Bed.....	112.67	
32 01 90 43-0003 MSF Cultivate Bed	60.66	
32 01 90 46 Hedge Trimming (32 01 90)		
32 01 90 46-0001 LF Trim 0-5' High Hedge, 0-3' Wide.....	5.23	
32 01 90 46-0002 LF Trim 0-5' High Hedge, 4-6' Wide.....	7.84	
32 01 90 46-0003 LF Trim 5-10' High Hedge, 0-3' Wide.....	11.88	
32 01 90 46-0004 LF Trim 5-10' High Hedge, 4-6' Wide.....	12.09	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001 EA Plant Growth Regulator Application 6.11

32 10 Bases, Ballasts, and Paving (32)**32 11 Base Courses (32 10)****32 11 16 Subbase Courses (32 11)****32 11 16 16 Aggregate Subbase Courses (32 11 16)****32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)**

Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)

32 11 16 16-0003 CY Class II Graded Crushed Aggregate Roadway Base Course 81.78
32 11 16 16-0004 CY Class III Graded Crushed Aggregate Roadway Base Course 79.18

32 11 16 16-0005 Class II Base Courses By The SY (32 11 16 16-0001)

32 11 16 16-0006 SY 2" Class II Graded Crushed Aggregate Base Course 4.47
For Up To 500, Add 1.18
For >500 To 1,000, Add 0.45
For >5,000 To 10,000, Deduct -0.17
For >10,000, Deduct -0.29
32 11 16 16-0007 SY 4" Class II Crushed Aggregate Base Course 8.96
For Up To 500, Add 2.37
For >500 To 1,000, Add 0.90
For >5,000 To 10,000, Deduct -0.34
For >10,000, Deduct -0.58
32 11 16 16-0008 SY 6" Class II Crushed Aggregate Base Course 13.44
For Up To 500, Add 3.56
For >500 To 1,000, Add 1.34
For >5,000 To 10,000, Deduct -0.51
For >10,000, Deduct -0.87
32 11 16 16-0009 SY 9" Class II Crushed Aggregate Base Course 20.17
For Up To 500, Add 5.34
For >500 To 1,000, Add 2.02
For >5,000 To 10,000, Deduct -0.77
For >10,000, Deduct -1.31
32 11 16 16-0010 SY 12" Class II Crushed Aggregate Base Course 26.89
For Up To 500, Add 7.12
For >500 To 1,000, Add 2.69
For >5,000 To 10,000, Deduct -1.02
For >10,000, Deduct -1.75

32 11 23 Aggregate Base Courses (32 11)**32 11 23 16 Aggregate Base Courses (32 11 23)****32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)**

Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

32 11 23 16-0002 SF 2" Crushed Aggregate Base Course For Sidewalks 0.55
For Up To 1,000, Add 0.15
For >1,000 To 2,500, Add 0.06
32 11 23 16-0003 SF 3" Crushed Aggregate Base Course For Sidewalks 0.77
For Up To 1,000, Add 0.22
For >1,000 To 2,500, Add 0.08
32 11 23 16-0004 SF 4" Crushed Aggregate Base Course For Sidewalks 1.00
For Up To 1,000, Add 0.28
For >1,000 To 2,500, Add 0.10
32 11 23 16-0005 SF 5" Crushed Aggregate Base Course For Sidewalks 1.30
For Up To 1,000, Add 0.37
For >1,000 To 2,500, Add 0.13
32 11 23 16-0006 SF 6" Crushed Aggregate Base Course For Sidewalks 1.58
For Up To 1,000, Add 0.44
For >1,000 To 2,500, Add 0.16
32 11 23 16-0007 SF 7" Crushed Aggregate Base Course For Sidewalks 1.84
For Up To 1,000, Add 0.52
For >1,000 To 2,500, Add 0.18
32 11 23 16-0008 SF 8" Crushed Aggregate Base Course For Sidewalks 2.09
For Up To 1,000, Add 0.59
For >1,000 To 2,500, Add 0.21

32 11 26 Asphaltic Base Courses (32 11)**32 11 26 19 Bituminous-Stabilized Base Courses (32 11 26)**



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Base Courses		32 11

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 26 19-0001 Bituminous-Stabilized Base Courses (32 11 26 19)		
32 11 26 19-0002 CY Bituminous Stabilized Base Course..... Note: 3/4" ASTM C33.	106.44	
32 12 Flexible Paving (32 10)		
32 12 13 Preparatory Coats (32 12)		
32 12 13 13 Tack Coats (32 12 13)		
32 12 13 13-0001 SY Tack Coat, 0.04 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	0.55 0.10 0.06 0.03 -0.01 -0.03	
32 12 13 13-0002 SY Tack Coat, 0.05 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	0.60 0.12 0.06 0.03 -0.02 -0.04	
32 12 13 13-0003 SY Tack Coat, 0.07 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	0.71 0.14 0.07 0.04 -0.02 -0.05	
32 12 13 13-0004 SY Tack Coat, 0.08 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	0.77 0.16 0.08 0.04 -0.02 -0.05	
32 12 13 13-0005 SY Tack Coat, 0.10 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	0.87 0.18 0.09 0.04 -0.02 -0.06	
32 12 13 13-0006 SY Tack Coat, 0.11 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	0.93 0.20 0.09 0.05 -0.02 -0.06	
32 12 13 19 Prime Coats (32 12 13)		
32 12 13 19-0001 SY Surface Prime Coat, 0.26 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	1.54 0.35 0.15 0.08 -0.04 -0.11	
32 12 13 19-0002 SY Surface Prime Coat, 0.28 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	1.62 0.37 0.16 0.08 -0.04 -0.11	
32 12 13 19-0003 SY Surface Prime Coat, 0.30 Gallon/SY For Up To 150, Add For >150 To 300, Add For >300 To 500, Add For >3,500 To 5,000, Deduct For >5,000, Deduct	1.71 0.39 0.17 0.09 -0.04 -0.12	
32 12 16 Asphalt Paving (32 12)		
32 12 16 13 Plant-Mix Asphalt Paving (32 12 16)		
Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or prime coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0029 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.		
32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)		
Note: Meets Caltrans requirements.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0002	TON		Bituminous Hot Mix Intermediate Course 3,954 LB/CY Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	146.63	
			For PG64-10 Asphalt, Add	17.58	
			For Up To 25, Add	19.96	
			For >25 To 50, Add	11.01	
			For >500 To 1,000, Deduct	-6.28	
			For >1,000 To 2,500, Deduct	-11.38	
			For >2,500 To 5,000, Deduct	-17.65	
			For >5,000, Deduct	-25.31	
			For Warm Mix Additive, Add	7.62	
32 12 16 13-0003	SY		1" Thick Bituminous Hot Mix Binder Course Note: Includes placement, rolling, finishing and sweeping.	8.30	
			For PG64-10 Asphalt, Add	0.97	
			For Up To 1,000, Add	1.16	
			For >1,000 To 2,000, Add	0.65	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000 To 50,000, Deduct	-0.65	
			For >50,000 To 100,000, Deduct	-1.01	
			For >100,000, Deduct	-1.46	
32 12 16 13-0004	SY		1-1/2" Thick Bituminous Hot Mix Binder Course Note: Includes placement, rolling, finishing and sweeping.	12.32	
			For PG64-10 Asphalt, Add	1.45	
			For Up To 700, Add	1.71	
			For >700 To 1,400, Add	0.95	
			For >7,000 To 14,000, Deduct	-0.54	
			For >14,000 To 32,000, Deduct	-0.98	
			For >32,000 To 64,000, Deduct	-1.51	
			For >64,000, Deduct	-2.17	
32 12 16 13-0005	SY		2" Thick Bituminous Hot Mix Binder Course Note: Includes placement, rolling, finishing and sweeping.	15.95	
			For PG64-10 Asphalt, Add	1.93	
			For Up To 500, Add	2.15	
			For >500 To 1,000, Add	1.18	
			For >5,000 To 10,000, Deduct	-0.71	
			For >10,000 To 24,000, Deduct	-1.28	
			For >24,000 To 48,000, Deduct	-1.99	
			For >48,000, Deduct	-2.85	
32 12 16 13-0006	SY		2-1/2" Thick Bituminous Hot Mix Binder Course Note: Includes placement, rolling, finishing and sweeping.	20.12	
			For PG64-10 Asphalt, Add	2.41	
			For Up To 400, Add	2.74	
			For >400 To 800, Add	1.51	
			For >4,000 To 8,000, Deduct	-0.89	
			For >8,000 To 20,000, Deduct	-1.61	
			For >20,000 To 40,000, Deduct	-2.49	
			For >40,000, Deduct	-3.58	
32 12 16 13-0007	SY		3" Thick Bituminous Hot Mix Binder Course Note: Includes placement, rolling, finishing and sweeping.	24.15	
			For PG64-10 Asphalt, Add	2.90	
			For Up To 340, Add	3.29	
			For >340 To 680, Add	2.78	
			For >3,400 To 6,800, Deduct	-1.06	
			For >6,800 To 17,000, Deduct	-1.93	
			For >17,000 To 34,000, Deduct	-2.99	
			For >34,000, Deduct	-4.30	
32 12 16 13-0008	SY		3-1/2" Thick Bituminous Hot Mix Binder Course Note: Includes placement, rolling, finishing and sweeping.	28.18	
			For PG64-10 Asphalt, Add	3.38	
			For Up To 280, Add	3.84	
			For >280 To 560, Add	2.12	
			For >2,800 To 5,600, Deduct	-1.24	
			For >5,600 To 14,000, Deduct	-2.25	
			For >14,000 To 28,000, Deduct	-3.49	
			For >28,000, Deduct	-5.01	
32 12 16 13-0009	SY		4" Thick Bituminous Hot Mix Binder Course Note: Includes placement, rolling, finishing and sweeping.	32.21	
			For PG64-10 Asphalt, Add	3.86	
			For Up To 250, Add	4.38	
			For >250 To 500, Add	2.42	
			For >2,500 To 5,000, Deduct	-1.42	
			For >5,000 To 12,000, Deduct	-2.58	
			For >12,000 To 24,000, Deduct	-3.99	
			For >24,000, Deduct	-5.73	
32 12 16 13-0010	SY		5" Thick Bituminous Hot Mix Binder Course Note: Includes placement, rolling, finishing and sweeping.	40.26	
			For PG64-10 Asphalt, Add	4.83	
			For Up To 200, Add	5.48	
			For >200 To 400, Add	3.02	
			For >2,000 To 4,000, Deduct	-1.77	
			For >4,000 To 10,000, Deduct	-3.22	
			For >10,000 To 20,000, Deduct	-4.99	
			For >20,000, Deduct	-7.16	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0011 SY 6" Thick Bituminous Hot Mix Binder Course 48.30 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 5.79 For Up To 160, Add 6.57 For >160 To 320, Add 3.63 For >1,600 To 3,200, Deduct -2.12 For >3,200 To 8,000, Deduct -3.86 For >8,000 To 16,000, Deduct -5.99 For >16,000, Deduct -8.60		
32 12 16 13-0012 Surface Courses, Hot Mix Asphalt (HMA) (32 12 16 13) Note: Meets Caltrans requirements.		
32 12 16 13-0013 TON Bituminous Hot Mix Surface Course 3954 LB/CY 148.62 Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section. For PG64-10 Asphalt, Add 2.80 For "PG" Asphalt, Add 26.85 For Up To 25, Add 21.48 For >25 To 50, Add 12.02 For >500 To 1,000, Deduct -6.11 For >1,000 To 2,500, Deduct -11.10 For >2,500 To 5,000, Deduct -17.22 For >5,000, Deduct -24.70 For Warm Mix Additive, Add 7.27		
32 12 16 13-0014 TON Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR) 164.81 Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. For Up To 25, Add 24.20 For >25 To 50, Add 13.60 For >500 To 1,000, Deduct -6.70 For Warm Mix Additive, Add 7.93		
32 12 16 13-0015 TON Asphalt Rubberized Hot Mix (ARHM) Surface Course 176.00 Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. For Up To 25, Add 25.32 For >25 To 50, Add 14.16 For >500 To 1,000, Deduct -7.26 For >1,000 To 2,500, Deduct -13.19 For >2,500 To 5,000, Deduct -20.45 For >5,000, Deduct -29.34 For Warm Mix Additive, Add 8.65		
32 12 16 13-0016 SY 1" Thick Bituminous Hot Mix Surface Course 8.07 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.15 For "PG" Asphalt, Add 1.41 For Up To 1,000, Add 1.20 For >1,000 To 2,000, Add 0.68 For >10,000 To 20,000, Deduct -0.34 For >20,000 To 50,000, Deduct -0.62 For >50,000 To 100,000, Deduct -0.95 For >100,000, Deduct -1.37		
32 12 16 13-0017 SY 1-1/2" Thick Bituminous Hot Mix Surface Course 11.98 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.22 For "PG" Asphalt, Add 2.11 For Up To 700, Add 1.77 For >700 To 1,400, Add 1.00 For >7,000 To 14,000, Deduct -0.50 For >14,000 To 32,000, Deduct -0.92 For >32,000 To 64,000, Deduct -1.42 For >64,000, Deduct -2.05		
32 12 16 13-0018 SY 2" Thick Bituminous Hot Mix Surface Course 15.39 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.29 For "PG" Asphalt, Add 2.82 For Up To 500, Add 2.20 For >500 To 1,000, Add 1.23 For >5,000 To 10,000, Deduct -0.66 For >10,000 To 24,000, Deduct -1.20 For >24,000 To 48,000, Deduct -1.86 For >48,000, Deduct -2.68		
32 12 16 13-0019 SY 2-1/2" Thick Bituminous Hot Mix Surface Course 19.47 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.37 For "PG" Asphalt, Add 3.52 For Up To 400, Add 2.81 For >400 To 800, Add 1.57 For >4,000 To 8,000, Deduct -0.83 For >8,000 To 20,000, Deduct -1.51 For >20,000 To 40,000, Deduct -2.34 For >40,000, Deduct -3.36		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0020	SY	3" Thick Bituminous Hot Mix Surface Course Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For "PG" Asphalt, Add For Up To 340, Add For >340 To 680, Add For >3,400 To 6,800, Deduct For >6,800 To 17,000, Deduct For >17,000 To 34,000, Deduct For >34,000, Deduct	23.37 0.44 4.22 3.38 2.77 -1.00 -1.81 -2.81 -4.04	
32 12 16 13-0021	CSF	Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	79.23	
32 12 16 13-0022		Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)		
32 12 16 13-0023	TON	Hand Placed Hot Mixed Asphalt 3,954 LB/CY Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.	356.41	
32 12 16 13-0024		AC Dikes (32 12 16 13)		
32 12 16 13-0025	LF	Type A, Asphalt Concrete Dike.....	12.63	5.08
32 12 16 13-0026	LF	Type C, Asphalt Concrete Dike.....	10.85	5.08
32 12 16 13-0027	LF	Type D, Asphalt Concrete Dike.....	15.54	5.08
32 12 16 13-0028	LF	Type E, Asphalt Concrete Dike.....	12.56	5.08
32 12 16 13-0029	LF	Type F, Asphalt Concrete Dike.....	11.37	5.08
32 12 16 13-0030		Ditch Lining (32 12 16 13)		
		Note: For sloped ditches		
32 12 16 13-0031	SY	4" Concrete Ditch Pavement.....	65.83	
32 12 16 13-0032	SY	4" Asphalt Ditch Pavement	49.19	
32 12 16 13-0033	SY	4" Soil-Cement Ditch Pavement.....	8.33	
32 12 16 13-0034	SY	4" Rip-Rap Ditch Pavement	7.67	
32 12 16 19		Cold-Mix Asphalt Paving (32 12 16)		
		Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001		Cold Mix Asphalt (CMA) Pavement (32 12 16 19)		
		Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002	SY	Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	13.08	
32 12 16 19-0003	SY	Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course.....	12.72	
32 12 16 19-0004	SY	Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	20.65	
32 12 16 39		Paving Fabrics (32 12 16)		
		See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001	SY	3.6 Oz/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O)	1.26	
		For Up To 50, Add	0.29	
		For >50 To 150, Add	0.22	
		For >150 To 250, Add	0.14	
		For >250 To 500, Add	0.07	
32 12 16 39-0002	SY	4.1 Oz/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O)	1.35	
		For Up To 50, Add	0.31	
		For >50 To 150, Add	0.23	
		For >150 To 250, Add	0.15	
		For >250 To 500, Add	0.07	
32 12 16 43		Waterproofing Membranes (32 12 16)		
32 12 16 43-0001		Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002	SY	Up To 500 SY, Preformed Rubberized Asphalt Membrane	34.71	
32 12 16 43-0003	SY	>500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	26.04	
32 12 16 43-0004	SY	>1,000 SY, Preformed Rubberized Asphalt Membrane	16.22	
32 12 33		Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001		Bituminous Surface Treatment For Roadways (32 12 33)		
		Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002	SY	Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	3.10	
32 12 33 00-0003	SY	Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.56	
32 12 33 00-0004		Bituminous Surface Treatment For Trails (32 12 33)		
		Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005	SY	Bituminous Surface Treatment, For Trails	2.12	
32 12 36		Seal Coats (32 12)		
		See CSI section 32 01 13 62-0000 for slurry seal.		
32 12 36 13		Asphaltic Seal and Fog Coats (32 12 36)		



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0001	Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13) Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0002	Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001) Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0003	SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.86	
	For Each Additional 0.5% Latex Additive, Add	0.38	
32 12 36 13-0004	SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.67	
	For Each Additional 0.5% Latex Additive, Add	0.38	
32 12 36 13-0005	SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.55	
	For Each Additional 0.5% Latex Additive, Add	0.38	
32 12 36 13-0006	SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.39	
	For Each Additional 0.5% Latex Additive, Add	0.38	
32 12 36 13-0007	SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.31	
	For Each Additional 0.5% Latex Additive, Add	0.38	
32 12 36 13-0008	SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.24	
	For Each Additional 0.5% Latex Additive, Add	0.38	
32 12 36 13-0009	SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.17	
	For Each Additional 0.5% Latex Additive, Add	0.38	
32 12 36 13-0010	SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.13	
	For Each Additional 0.5% Latex Additive, Add	0.38	
32 12 36 13-0011	Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001) Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0012	SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.61	
	For Each Additional 0.5% Latex Additive, Add	0.48	
32 12 36 13-0013	SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.37	
	For Each Additional 0.5% Latex Additive, Add	0.48	
32 12 36 13-0014	SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.19	
	For Each Additional 0.5% Latex Additive, Add	0.48	
32 12 36 13-0015	SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.13	
	For Each Additional 0.5% Latex Additive, Add	0.48	
32 12 36 13-0016	SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.88	
	For Each Additional 0.5% Latex Additive, Add	0.48	
32 12 36 13-0017	SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.74	
	For Each Additional 0.5% Latex Additive, Add	0.48	
32 12 36 13-0018	SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.64	
	For Each Additional 0.5% Latex Additive, Add	0.48	
32 12 36 13-0019	SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.60	
	For Each Additional 0.5% Latex Additive, Add	0.48	
32 12 36 13-0020	Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001) Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0021	SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.21	
	For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0022	SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.91	
	For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0023	SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.70	
	For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0024	SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.44	
	For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0025	SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.30	
	For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0026	SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.10	
	For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0027	SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.96	
	For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0028	SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.92	
	For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0029	Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001) Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0030	SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.28	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0031	SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.99	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0032	SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.77	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0033	SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.52	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0034	SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.38	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0035	SY >10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.25	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0036	SY >20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.05	
	For Each Additional 0.5% Latex Additive, Add	0.65	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0037	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	4.00 0.65	
32 12 36 13-0038		Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) ⁽³²⁾ ^{12 36 13-0001} Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0039	SY	Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	8.31 0.94	
32 12 36 13-0040	SY	>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	7.85 0.94	
32 12 36 13-0041	SY	>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	7.50 0.94	
32 12 36 13-0042	SY	>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	7.09 0.94	
32 12 36 13-0043	SY	>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	6.86 0.94	
32 12 36 13-0044	SY	>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	6.59 0.94	
32 12 36 13-0045	SY	>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	6.38 0.94	
32 12 36 13-0046	SY	>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <i>For Each Additional 0.5% Latex Additive, Add</i>	6.29 0.94	
32 12 36 13-0047		Fog Seal, CQS-1h ^(32 12 36 13) Note: A fog seal is a light application of diluted, slow-setting asphalt emulsion without aggregate cover. Includes sweeping and cleaning of area.		
32 12 36 13-0048	SY	Up To 200 SY, CQS-1h, Fog Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.61 0.94	
32 12 36 13-0049	SY	>200 To 500 SY, CQS-1h, Fog Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.14 0.94	
32 12 36 13-0050	SY	>500 To 1,000 SY, CQS-1h, Fog Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	0.96 0.94	
32 12 36 13-0051	SY	>1,000 To 5,000 SY, CQS-1h, Fog Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	0.80 0.94	
32 12 36 13-0052	SY	>5,000 To 10,000 SY, CQS-1h, Fog Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	0.73 0.94	
32 12 36 13-0053	SY	>10,000 To 20,000 SY, CQS-1h, Fog Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	0.66 0.94	
32 12 36 13-0054	SY	>20,000 To 50,000 SY, CQS-1h, Fog Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	0.60 0.94	
32 12 36 13-0055	SY	>50,000 SY, CQS-1h, Fog Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	0.59 0.94	
32 12 36 13-0056		Sand Sealer ^(32 12 36 13) Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 12 36 13-0057	SY	Up To 200 SY, Sand Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	2.53 0.94	
32 12 36 13-0058	SY	>200 To 500 SY, Sand Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.66 0.94	
32 12 36 13-0059	SY	>500 To 1,000 SY, Sand Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.65 0.94	
32 12 36 13-0060	SY	>1,000 To 5,000 SY, Sand Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.45 0.94	
32 12 36 13-0061	SY	>5,000 To 10,000 SY, Sand Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.34 0.94	
32 12 36 13-0062	SY	>10,000 To 20,000 SY, Sand Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.25 0.94	
32 12 36 13-0063	SY	>20,000 To 50,000 SY, Sand Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.19 0.94	
32 12 36 13-0064	SY	>50,000 SY, Sand Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	1.17 0.94	
32 12 36 16		Coal Tar Seal Coats ^(32 12 36)		
32 12 36 16-0001		Thermoplastic Coal-Tar Asphalt Seal ^(32 12 36 16) Note: Includes sweeping and cleaning of area.		
32 12 36 16-0002	SY	Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	11.53 0.94	
32 12 36 16-0003	SY	>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	10.78 0.94	
32 12 36 16-0004	SY	>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	9.48 0.94	
32 12 36 16-0005	SY	>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	8.47 0.94	
32 12 36 16-0006	SY	>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	7.17 0.94	
32 12 36 16-0007	SY	>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	5.85 0.94	
32 12 36 16-0008	SY	Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	13.87 0.94	
32 12 36 16-0009	SY	>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	13.04 0.94	
32 12 36 16-0010	SY	>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	11.49 0.94	
32 12 36 16-0011	SY	>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	10.32 0.94	
32 12 36 16-0012	SY	>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	8.78 0.94	
32 12 36 16-0013	SY	>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal <i>For Each Additional 0.5% Latex Additive, Add</i>	7.22 0.94	
32 12 43		Porous Flexible Paving ^(32 12)		
32 12 43 00-0001		Flexible Recycled Plastic Porous Grid ^(32 12 43) Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.		
32 12 43 00-0002	SY	1" Thick, Recycled Plastic Flexible Pavement With Sand Fill Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.	34.66	
		<i>For Up To 100, Add</i>	11.82	
		<i>For >100 To 500, Add</i>	2.99	
		<i>For >1,000 To 5,000, Deduct</i>	-1.26	
		<i>For >5,000, Deduct</i>	-2.55	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Flexible Paving		32 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 73 Asphalt Paving Joint Sealants (32 12)		
32 12 73 00-0001 Expansion Joint In Sidewalk (32 12 73)		
32 12 73 00-0002 LF For Hot Asphalt Poured Over Expansion Joint In Sidewalk	4.33	
32 13 Rigid Paving (32 10)		
32 13 13 Concrete Paving (32 13)		
Note: The following section includes spreading and placing delivered Portland cement concrete mix.		
32 13 13 33 Plain Concrete Paving (32 13 13)		
32 13 13 33-0001 Concrete Paving Assemblies (32 13 13 33)		
Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.		
32 13 13 33-0002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)		
32 13 13 33-0003 SY 4" 4,500 PSI Concrete Paving Assembly	67.32	
For 2,500 PSI Concrete, Deduct	-4.66	
For 3,000 PSI Concrete, Deduct	-3.04	
For 3,500 PSI Concrete, Deduct	-2.43	
For 4,000 PSI Concrete, Deduct	-1.05	
For 5,000 PSI Concrete, Add	0.65	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.27	
For <12' Wide Pass, Add	10.75	
For 24' Or Greater Wide Pass, Deduct	-13.46	
For Air Entrainment, Add	2.03	
For Slipforming, Deduct	-6.73	
For Up To 100, Add	24.18	
For >100 To 250, Add	14.12	
For >250 To 500, Add	7.06	
For >1,000 To 2,000, Deduct	-2.03	
For >2,000 To 5,000, Deduct	-3.71	
For >5,000 To 10,000, Deduct	-5.39	
For >10,000 To 20,000, Deduct	-7.08	
For >20,000, Deduct	-8.76	
32 13 13 33-0004 SY 5" 4,500 PSI Concrete Paving Assembly	80.64	
For 2,500 PSI Concrete, Deduct	-5.85	
For 3,000 PSI Concrete, Deduct	-3.81	
For 3,500 PSI Concrete, Deduct	-3.05	
For 4,000 PSI Concrete, Deduct	-1.32	
For 5,000 PSI Concrete, Add	0.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.61	
For <12' Wide Pass, Add	12.53	
For 24' Or Greater Wide Pass, Deduct	-16.13	
For Air Entrainment, Add	2.54	
For Slipforming, Deduct	-8.06	
For Up To 100, Add	28.04	
For >100 To 250, Add	16.56	
For >250 To 500, Add	8.28	
For >1,000 To 2,000, Deduct	-2.54	
For >2,000 To 5,000, Deduct	-4.56	
For >5,000 To 10,000, Deduct	-6.58	
For >10,000 To 20,000, Deduct	-8.59	
For >20,000, Deduct	-10.61	
32 13 13 33-0005 SY 6" 4,500 PSI Concrete Paving Assembly	85.89	
For 2,500 PSI Concrete, Deduct	-6.17	
For 3,000 PSI Concrete, Deduct	-4.02	
For 3,500 PSI Concrete, Deduct	-3.22	
For 4,000 PSI Concrete, Deduct	-1.39	
For 5,000 PSI Concrete, Add	0.86	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.97	
For <12' Wide Pass, Add	13.43	
For 24' Or Greater Wide Pass, Deduct	-17.18	
For Air Entrainment, Add	2.68	
For Slipforming, Deduct	-8.59	
For Up To 100, Add	30.08	
For >100 To 250, Add	17.72	
For >250 To 500, Add	8.86	
For >1,000 To 2,000, Deduct	-2.68	
For >2,000 To 5,000, Deduct	-4.83	
For >5,000 To 10,000, Deduct	-6.98	
For >10,000 To 20,000, Deduct	-9.12	
For >20,000, Deduct	-11.27	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0006	SY	7"	4,500 PSI Concrete Paving Assembly.....	103.38	
			For 2,500 PSI Concrete, Deduct	-7.78	
			For 3,000 PSI Concrete, Deduct	-5.07	
			For 3,500 PSI Concrete, Deduct	-4.06	
			For 4,000 PSI Concrete, Deduct	-1.76	
			For 5,000 PSI Concrete, Add	1.08	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	8.79	
			For <12' Wide Pass, Add	15.70	
			For 24' Or Greater Wide Pass, Deduct	-20.68	
			For Air Entrainment, Add	3.38	
			For Slipforming, Deduct	-10.34	
			For Up To 100, Add	34.97	
			For >100 To 250, Add	20.87	
			For >250 To 500, Add	10.43	
			For >1,000 To 2,000, Deduct	-3.38	
			For >2,000 To 5,000, Deduct	-5.97	
			For >5,000 To 10,000, Deduct	-8.55	
			For >10,000 To 20,000, Deduct	-11.14	
			For >20,000, Deduct	-13.72	
32 13 13 33-0007	SY	8"	4,500 PSI Concrete Paving Assembly.....	117.12	
			For 2,500 PSI Concrete, Deduct	-8.54	
			For 3,000 PSI Concrete, Deduct	-5.57	
			For 3,500 PSI Concrete, Deduct	-4.46	
			For 4,000 PSI Concrete, Deduct	-1.93	
			For 5,000 PSI Concrete, Add	1.19	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	9.65	
			For <12' Wide Pass, Add	18.14	
			For 24' Or Greater Wide Pass, Deduct	-23.42	
			For Air Entrainment, Add	3.71	
			For Slipforming, Deduct	-11.71	
			For Up To 100, Add	40.57	
			For >100 To 250, Add	24.00	
			For >250 To 500, Add	12.00	
			For >1,000 To 2,000, Deduct	-3.71	
			For >2,000 To 5,000, Deduct	-6.64	
			For >5,000 To 10,000, Deduct	-9.57	
			For >10,000 To 20,000, Deduct	-12.50	
			For >20,000, Deduct	-15.42	
32 13 13 33-0008	SY	9"	4,500 PSI Concrete Paving Assembly.....	133.14	
			For 2,500 PSI Concrete, Deduct	-9.87	
			For 3,000 PSI Concrete, Deduct	-6.44	
			For 3,500 PSI Concrete, Deduct	-5.15	
			For 4,000 PSI Concrete, Deduct	-2.23	
			For 5,000 PSI Concrete, Add	1.37	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	11.15	
			For <12' Wide Pass, Add	20.42	
			For 24' Or Greater Wide Pass, Deduct	-26.63	
			For Air Entrainment, Add	4.29	
			For Slipforming, Deduct	-13.31	
			For Up To 100, Add	45.56	
			For >100 To 250, Add	27.07	
			For >250 To 500, Add	13.54	
			For >1,000 To 2,000, Deduct	-4.29	
			For >2,000 To 5,000, Deduct	-7.62	
			For >5,000 To 10,000, Deduct	-10.95	
			For >10,000 To 20,000, Deduct	-14.28	
			For >20,000, Deduct	-17.60	
32 13 13 33-0009	SY	10"	4,500 PSI Concrete Paving Assembly.....	147.98	
			For 2,500 PSI Concrete, Deduct	-10.85	
			For 3,000 PSI Concrete, Deduct	-7.08	
			For 3,500 PSI Concrete, Deduct	-5.66	
			For 4,000 PSI Concrete, Deduct	-2.45	
			For 5,000 PSI Concrete, Add	1.51	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	12.27	
			For <12' Wide Pass, Add	22.84	
			For 24' Or Greater Wide Pass, Deduct	-29.60	
			For Air Entrainment, Add	4.72	
			For Slipforming, Deduct	-14.80	
			For Up To 100, Add	51.04	
			For >100 To 250, Add	30.24	
			For >250 To 500, Add	15.12	
			For >1,000 To 2,000, Deduct	-4.72	
			For >2,000 To 5,000, Deduct	-8.42	
			For >5,000 To 10,000, Deduct	-12.12	
			For >10,000 To 20,000, Deduct	-15.82	
			For >20,000, Deduct	-19.52	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Rigid Paving		32 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0010 SY 12" 4,500 PSI Concrete Paving Assembly.....	176.07	
For 2,500 PSI Concrete, Deduct	-12.85	
For 3,000 PSI Concrete, Deduct	-8.38	
For 3,500 PSI Concrete, Deduct	-6.71	
For 4,000 PSI Concrete, Deduct	-2.91	
For 5,000 PSI Concrete, Add	1.79	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	14.53	
For <12' Wide Pass, Add	27.25	
For 24' Or Greater Wide Pass, Deduct	-35.21	
For Air Entrainment, Add	5.59	
For Slipforming, Deduct	-17.61	
For Up To 100, Add	60.94	
For >100 To 250, Add	36.06	
For >250 To 500, Add	18.03	
For >1,000 To 2,000, Deduct	-5.59	
For >2,000 To 5,000, Deduct	-9.99	
For >5,000 To 10,000, Deduct	-14.39	
For >10,000 To 20,000, Deduct	-18.79	
For >20,000, Deduct	-23.20	
32 13 13 33-0011 SY 15" 4,500 PSI Concrete Paving Assembly.....	222.59	
For 2,500 PSI Concrete, Deduct	-15.78	
For 3,000 PSI Concrete, Deduct	-10.29	
For 3,500 PSI Concrete, Deduct	-8.23	
For 4,000 PSI Concrete, Deduct	-3.57	
For 5,000 PSI Concrete, Add	2.20	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	17.84	
For <12' Wide Pass, Add	35.06	
For 24' Or Greater Wide Pass, Deduct	-44.52	
For Air Entrainment, Add	6.86	
For Slipforming, Deduct	-22.26	
For Up To 100, Add	78.66	
For >100 To 250, Add	46.19	
For >250 To 500, Add	23.10	
For >1,000 To 2,000, Deduct	-6.86	
For >2,000 To 5,000, Deduct	-12.43	
For >5,000 To 10,000, Deduct	-17.99	
For >10,000 To 20,000, Deduct	-23.56	
For >20,000, Deduct	-29.12	
32 13 16 Decorative Concrete Paving (32 13)		
32 13 16 13 Patterned Concrete Paving (32 13 16)		
32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk.....	4.68	
32 13 43 Pervious Concrete Paving (32 13)		
32 13 43 00-0001 Pervious Concrete Assembly (32 13 43)		
Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.		
32 13 43 00-0002 SF 6" Thick Pervious Concrete Paving.....	15.38	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-1.65	
For >30,000 To 100,000, Deduct	-3.04	
For >100,000, Deduct	-3.77	
32 13 43 00-0003 SF 9" Thick Pervious Concrete Paving.....	19.45	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-2.03	
For >30,000 To 100,000, Deduct	-3.67	
For >100,000, Deduct	-4.56	
32 13 73 Concrete Paving Joint Sealants (32 13)		
32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)		
32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13)		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 13-0002 LF Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads.....	8.36	
32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)		
32 13 73 16-0001 Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16)		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002 LF Joint Sealing, Concrete Pavement Preformed Elastomeric.....	12.55	
32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)		
32 13 73 19-0001 Silicone Joint Sealant For Concrete Pavement (32 13 73 19)		
Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 73 19-0002 LF 1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	9.62	2.29
32 13 73 19-0003 LF 3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.05	2.33
32 13 73 19-0004 LF 1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.52	2.37
32 13 73 19-0005 LF 3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	12.03	2.42
32 13 73 19-0006 LF 1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	13.86	2.47
32 13 73 19-0007 LF 1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	16.36	2.52
32 13 73 19-0008 LF 2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	20.14	2.57

32 14 Unit Paving (32 10)**32 14 09 Paver Restraints** (32 14)**32 14 09 00-0001 Paver Restraints** (32 14 09)

Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.

32 14 09 00-0002 LF Up To 2" Height, Vinyl Paver Restraint	4.25	1.00
For >1,000 To 2,000, Deduct	-0.59	
For >2,000 To 4,000, Deduct	-0.85	
For >4,000, Deduct	-1.09	
32 14 09 00-0003 LF Up To 2" Height, Galvanized Steel Paver Restraint	4.61	1.00
For >500 To 1,000, Deduct	-0.15	
For >1,000 To 2,000, Deduct	-0.30	
For >2,000, Deduct	-0.45	
32 14 09 00-0004 LF Up To 1" Height, Aluminum Paver Restraint	4.43	1.00
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.43	
For >1,000 To 1,500, Deduct	-0.71	
32 14 09 00-0005 LF >1" To 2" Height, Aluminum Paver Restraint	5.23	1.00
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 1,500, Deduct	-0.91	
32 14 09 00-0006 LF >2" To 3" Height, Aluminum Paver Restraint	6.76	1.00
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 1,500, Deduct	-1.29	
32 14 09 00-0007 LF >3" To 4" Height, Aluminum Paver Restraint	7.93	1.00
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 1,500, Deduct	-1.59	

32 14 11 Bedding for Unit Paving (32 14)**32 14 11 00-0001 Bedding For Brick, Precast Concrete Paver And Stone Sidewalk** (32 14 11)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

32 14 11 00-0002 SF 1" To 2" Sand Bedding, Screeded	1.12	
For Up To 100, Add	0.48	
For >100 To 500, Add	0.14	
For >1,000 To 5,000, Deduct	-0.08	
For >5,000, Deduct	-0.13	
32 14 11 00-0003 SF 1" To 2" Stone Dust Bedding, Screeded	1.38	
For Up To 100, Add	0.55	
For >100 To 500, Add	0.15	
For >1,000 To 5,000, Deduct	-0.08	
For >5,000, Deduct	-0.14	
32 14 11 00-0004 SF 3" Stone Dust Bedding, Screeded	1.82	
For Up To 100, Add	0.69	
For >100 To 500, Add	0.19	
For >1,000 To 5,000, Deduct	-0.10	
For >5,000, Deduct	-0.17	
32 14 11 00-0005 SF 4" Stone Dust Bedding, Screeded	2.32	
For Up To 100, Add	0.87	
For >100 To 500, Add	0.23	
For >1,000 To 5,000, Deduct	-0.12	
For >5,000, Deduct	-0.21	
32 14 11 00-0006 SF 1" Mortar Bedding	3.47	
For Up To 100, Add	1.52	
For >100 To 500, Add	0.44	
For >1,000 To 5,000, Deduct	-0.26	
For >5,000, Deduct	-0.42	
32 14 11 00-0007 SF 2" Mortar Bedding	5.20	
For Up To 100, Add	2.18	
For >100 To 500, Add	0.61	
For >1,000 To 5,000, Deduct	-0.35	
For >5,000, Deduct	-0.58	
32 14 11 00-0008 SF Thin-Set Latex Portland Cement Mortar	1.75	
For Up To 100, Add	0.79	
For >100 To 500, Add	0.23	
For >1,000 To 5,000, Deduct	-0.14	
For >5,000, Deduct	-0.22	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Unit Paving		32 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 13 Precast Concrete Unit Paving (32 14)		
32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)		
32 14 13 16-0001 Precast Concrete Paver Sidewalk (32 14 13 16)		
Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 14 13 16-0002 SF 2-3/8" Thick, Up To 32 SI Precast Concrete Paver.....	13.43	3.27
Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	1.36	
For 3-1/8" Concrete Paver, Add	2.21	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.00	
For Up To 100, Add	5.00	
For >100 To 500, Add	1.33	
For >1,000 To 5,000, Deduct	-0.66	
For >5,000, Deduct	-1.19	
32 14 13 16-0003 SF 2-3/8" Thick, >32 to 64 SI Precast Concrete Paver	12.84	2.98
Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	1.33	
For 3-1/8" Concrete Paver, Add	2.17	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.94	
For Up To 100, Add	4.70	
For >100 To 500, Add	1.24	
For >1,000 To 5,000, Deduct	-0.60	
For >5,000, Deduct	-1.10	
32 14 13 16-0004 SF 2-3/8" Thick, >64 to 144 SI Precast Concrete Paver	12.29	2.37
Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	1.30	
For 3-1/8" Concrete Paver, Add	2.12	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.89	
For Up To 100, Add	4.43	
For >100 To 500, Add	1.16	
For >1,000 To 5,000, Deduct	-0.54	
For >5,000, Deduct	-1.02	
32 14 13 16-0005 SF 2-3/8" Thick, >144 SI Precast Concrete Paver	11.79	2.46
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	1.28	
For 3-1/8" Concrete Paver, Add	2.09	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.84	
For Up To 100, Add	4.18	
For >100 To 500, Add	1.08	
For >1,000 To 5,000, Deduct	-0.49	
For >5,000, Deduct	-0.94	
32 14 13 16-0006 SF 2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns	12.55	2.83
Note: Patterns made by combining pavers from two or more size groups.		
For 2-3/4" Concrete Paver, Add	1.31	
For 3-1/8" Concrete Paver, Add	2.14	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.91	
For Up To 100, Add	4.56	
For >100 To 500, Add	1.20	
For >1,000 To 5,000, Deduct	-0.57	
For >5,000, Deduct	-1.06	
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)		
32 14 13 19-0001 Turf Block (32 14 13 19)		
Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002 SF 3-1/8" Thick, Precast Concrete Turf Block	11.06	2.83
For Up To 100, Add	4.19	
For >100 To 500, Add	1.12	
For >1,000 To 5,000, Deduct	-0.57	
For >5,000, Deduct	-1.01	
32 14 16 Brick Unit Paving (32 14)		
32 14 16 00-0001 Brick Paver Sidewalk (32 14 16)		
Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 14 16 00-0002 SF 4" x 8" x 2-1/4" Brick Paver, Laid Flat	13.64	3.27
For 1-3/8" Thick Paver, Deduct	-2.81	
For 2-3/4" Thick Paver (Vehicular), Add	6.37	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.01	
For Up To 100, Add	5.05	
For >100 To 500, Add	1.34	
For >1,000 To 5,000, Deduct	-0.66	
For >5,000, Deduct	-1.20	
32 14 16 00-0003 SF 4" x 8" x 2-1/4" Brick, Laid On Edge	20.04	3.73
For 1-3/8" Thick Paver, Deduct	-4.78	
For 2-3/4" Thick Paver (Vehicular), Add	11.11	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.38	
For Up To 100, Add	6.88	
For >100 To 500, Add	1.75	
For >1,000 To 5,000, Deduct	-0.75	
For >5,000, Deduct	-1.50	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
32 14 33 Plastic Paving (32 14)**32 14 33 13 Permeable Plastic Paving** (32 14 33)**32 14 33 13-0001 Turf Block Plastic Paving** (32 14 33 13)

32 14 33 13-0002	SF	4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block.....	16.36	2.83
		For Up To 100, Add	5.51	
		For >100 To 500, Add	1.39	
		For >1,000 To 5,000, Deduct	-0.57	
		For >5,000, Deduct	-1.17	

32 14 40 Stone Paving (32 14)**32 14 40 00-0001 Slate Paver Sidewalk** (32 14 40)

Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 40 00-0002	SF	1" Thick, Up to 54 SI Slate Paver.....	16.00	2.71
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.07	
		For 1/4" Thick Paver, Deduct	-8.13	
		For 1/2" Thick Paver, Deduct	-5.68	
		For Up To 100, Add	5.36	
		For >100 To 500, Add	1.34	
		For >1,000 To 5,000, Deduct	-0.54	
		For >5,000, Deduct	-1.13	
32 14 40 00-0003	SF	1" Thick, >54 to 108 SI Slate Paver	15.50	2.46
		Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.02	
		For 1/4" Thick Paver, Deduct	-8.00	
		For 1/2" Thick Paver, Deduct	-5.60	
		For Up To 100, Add	5.11	
		For >100 To 500, Add	1.27	
		For >1,000 To 5,000, Deduct	-0.49	
		For >5,000, Deduct	-1.06	
32 14 40 00-0004	SF	1" Thick, >108 to 216 SI Slate Paver	14.65	2.03
		Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.94	
		For 1/4" Thick Paver, Deduct	-7.79	
		For 1/2" Thick Paver, Deduct	-5.48	
		For Up To 100, Add	4.68	
		For >100 To 500, Add	1.14	
		For >1,000 To 5,000, Deduct	-0.41	
		For >5,000, Deduct	-0.93	
32 14 40 00-0005	SF	1" Thick, >216 SI Slate Paver	14.28	1.85
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.90	
		For 1/4" Thick Paver, Deduct	-7.70	
		For 1/2" Thick Paver, Deduct	-5.42	
		For Up To 100, Add	4.50	
		For >100 To 500, Add	1.08	
		For >1,000 To 5,000, Deduct	-0.37	
		For >5,000, Deduct	-0.87	
32 14 40 00-0006	SF	1" Thick, Slate Paver, Combinations And Patterns.....	15.04	2.23
		Note: Patterns made by combining pavers from two or more size groups.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.98	
		For 1/4" Thick Paver, Deduct	-7.89	
		For 1/2" Thick Paver, Deduct	-5.54	
		For Up To 100, Add	4.88	
		For >100 To 500, Add	1.20	
		For >1,000 To 5,000, Deduct	-0.45	
		For >5,000, Deduct	-0.99	

32 14 40 00-0007 Granite Paver Sidewalk (32 14 40)

Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 40 00-0008	SF	1" Thick, Up to 54 SI Granite Paver	21.41	2.71
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.34	
		For 2" Granite Paver, Add	1.07	
		For 3" Granite Paver, Add	2.14	
		For 4" Granite Paver, Add	2.41	
		For Up To 100, Add	6.71	
		For >100 To 500, Add	1.61	
		For >1,000 To 5,000, Deduct	-0.54	
		For >5,000, Deduct	-1.29	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Unit Paving			32 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0009	SF	1" Thick, >54 to 108 SI Granite Paver	20.91	2.46	
Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.					
For Cement/Sand Mix Or Polymeric Sand Joints, Add				1.29	
For 2" Granite Paver, Add				1.05	
For 3" Granite Paver, Add				2.09	
For 4" Granite Paver, Add				2.34	
For Up To 100, Add				6.46	
For >100 To 500, Add				1.54	
For >1,000 To 5,000, Deduct				-0.49	
For >5,000, Deduct				-1.22	
32 14 40 00-0010	SF	1" Thick, >108 to 216 SI Granite Paver	20.06	2.03	
Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.					
For Cement/Sand Mix Or Polymeric Sand Joints, Add				1.21	
For 2" Granite Paver, Add				1.00	
For 3" Granite Paver, Add				2.01	
For 4" Granite Paver, Add				2.21	
For Up To 100, Add				6.03	
For >100 To 500, Add				1.41	
For >1,000 To 5,000, Deduct				-0.41	
For >5,000, Deduct				-1.09	
32 14 40 00-0011	SF	1" Thick, >216 SI Granite Paver	19.69	1.85	
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers.					
For Cement/Sand Mix Or Polymeric Sand Joints, Add				1.17	
For 2" Granite Paver, Add				0.98	
For 3" Granite Paver, Add				1.97	
For 4" Granite Paver, Add				2.15	
For Up To 100, Add				5.85	
For >100 To 500, Add				1.35	
For >1,000 To 5,000, Deduct				-0.37	
For >5,000, Deduct				-1.03	
32 14 40 00-0012	SF	1" Thick, Granite Paver, Combinations And Patterns	20.45	2.23	
Note: Patterns made by combining pavers from two or more size groups.					
For Cement/Sand Mix Or Polymeric Sand Joints, Add				1.25	
For 2" Granite Paver, Add				1.02	
For 3" Granite Paver, Add				2.05	
For 4" Granite Paver, Add				2.27	
For Up To 100, Add				6.23	
For >100 To 500, Add				1.47	
For >1,000 To 5,000, Deduct				-0.45	
For >5,000, Deduct				-1.15	
32 15 Aggregate Surfacing (32 10)					
32 15 40 Crushed Stone Surfacing (32 15)					
Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.					
32 15 40 00-0001			Gravel Surfacing And Spreading (32 15 40)		
Note: Includes delivered material, placement, rolling and compaction water.					
32 15 40 00-0002	CY		Gravel Surfacing And Spreading	81.43	
32 15 40 00-0003 Limestone Screenings (32 15 40)					
Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.					
32 15 40 00-0004	CY		Limestone Screenings For Trail	92.21	
32 15 40 00-0005 Decomposed Granite (32 15 40)					
Note: Includes delivered material, placement, rolling and compaction water.					
32 15 40 00-0006	SY		3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	16.35	
Note: Placed in 2 lifts.					
For Additional 2" Lift				8.18	
For >45 To 180, Deduct				-1.11	
For >180 To 450, Deduct				-1.40	
For >450, Deduct				-1.70	
32 16 Curbs, Gutters, Sidewalks, and Driveways (32 10)					
32 16 13 Curbs and Gutters (32 16)					
Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0001 for additional saw cuts within the 100'.					
32 16 13 13 Cast-In-Place Concrete Curbs and Gutters (32 16 13)					
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0001 Cast In Place Concrete Curb And Gutter (32 16 13 13)					
Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.					
32 16 13 13-0002	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	28.90	12.39
For Up To 20, Add				19.51	
For >20 To 50, Add				10.84	
For >50 To 100, Add				4.34	
For >500 To 1,000, Deduct				-3.62	
For >1,000, Deduct				-6.15	
For Mountable Or Rolled Curb And Gutter, Add				1.77	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0003	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	31.48	16.53
			For Up To 20, Add	21.26	
			For >20 To 50, Add	11.82	
			For >50 To 100, Add	4.72	
			For >500 To 1,000, Deduct	-3.95	
			For >1,000, Deduct	-6.71	
			For Mountable Or Rolled Curb And Gutter, Add	1.95	
32 16 13 13-0004	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	36.81	13.74
			For Up To 20, Add	24.82	
			For >20 To 50, Add	13.78	
			For >50 To 100, Add	5.52	
			For >500 To 1,000, Deduct	-4.58	
			For >1,000, Deduct	-7.79	
			For Mountable Or Rolled Curb And Gutter, Add	2.22	
32 16 13 13-0005	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	40.62	15.29
			For Up To 20, Add	27.42	
			For >20 To 50, Add	15.23	
			For >50 To 100, Add	6.09	
			For >500 To 1,000, Deduct	-5.08	
			For >1,000, Deduct	-8.63	
			For Mountable Or Rolled Curb And Gutter, Add	2.49	
32 16 13 13-0006	LF		6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight (Type A3-6)	44.72	16.53
			For Up To 20, Add	30.14	
			For >20 To 50, Add	16.72	
			For >50 To 100, Add	6.71	
			For >500 To 1,000, Deduct	-5.54	
			For >1,000, Deduct	-9.43	
			For Mountable Or Rolled Curb And Gutter, Add	2.66	
32 16 13 13-0007	LF		6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius (Type A3-6)	49.74	18.60
			For Up To 20, Add	33.56	
			For >20 To 50, Add	18.64	
			For >50 To 100, Add	7.46	
			For >500 To 1,000, Deduct	-6.20	
			For >1,000, Deduct	-10.55	
			For Mountable Or Rolled Curb And Gutter, Add	3.03	
32 16 13 13-0008	LF		6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	53.17	19.62
			For Up To 20, Add	35.83	
			For >20 To 50, Add	19.88	
			For >50 To 100, Add	7.98	
			For >500 To 1,000, Deduct	-6.58	
			For >1,000, Deduct	-11.20	
			For Mountable Or Rolled Curb And Gutter, Add	3.16	
32 16 13 13-0009	LF		6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	58.37	21.69
			For Up To 20, Add	39.36	
			For >20 To 50, Add	21.85	
			For >50 To 100, Add	8.76	
			For >500 To 1,000, Deduct	-7.26	
			For >1,000, Deduct	-12.34	
			For Mountable Or Rolled Curb And Gutter, Add	3.51	
32 16 13 13-0010	LF		6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	61.60	22.72
			For Up To 20, Add	41.50	
			For >20 To 50, Add	23.02	
			For >50 To 100, Add	9.24	
			For >500 To 1,000, Deduct	-7.62	
			For >1,000, Deduct	-12.98	
			For Mountable Or Rolled Curb And Gutter, Add	3.66	
32 16 13 13-0011	LF		6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	66.99	24.79
			For Up To 20, Add	45.15	
			For >20 To 50, Add	25.06	
			For >50 To 100, Add	10.05	
			For >500 To 1,000, Deduct	-8.31	
			For >1,000, Deduct	-14.14	
			For Mountable Or Rolled Curb And Gutter, Add	4.00	
32 16 13 13-0012	LF		6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	70.04	25.82
			For Up To 20, Add	47.19	
			For >20 To 50, Add	26.18	
			For >50 To 100, Add	10.51	
			For >500 To 1,000, Deduct	-8.67	
			For >1,000, Deduct	-14.75	
			For Mountable Or Rolled Curb And Gutter, Add	4.15	
32 16 13 13-0013	LF		6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	77.67	28.92
			For Up To 20, Add	52.39	
			For >20 To 50, Add	29.09	
			For >50 To 100, Add	11.65	
			For >500 To 1,000, Deduct	-9.67	
			For >1,000, Deduct	-16.44	
			For Mountable Or Rolled Curb And Gutter, Add	4.69	

32 16 13 13-0014 Cast In Place Concrete Curbs (32 16 13 13)

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Curbs, Gutters, Sidewalks, and Driveways		32 16

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0015	LF	6" x 12" Cast In Place Concrete Curb (Type A1-6).....	21.24	10.47
		For Mountable Curb, Add	1.43	
		For Up To 20, Add	12.62	
		For >20 To 50, Add	7.15	
		For >50 To 100, Add	2.74	
		For >500 To 1,000, Deduct	-2.74	
		For >1,000, Deduct	-4.64	
32 16 13 13-0016	LF	6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6).....	24.30	12.04
		For Mountable Curb, Add	1.67	
		For Up To 20, Add	14.55	
		For >20 To 50, Add	8.24	
		For >50 To 100, Add	3.15	
		For >500 To 1,000, Deduct	-3.15	
		For >1,000, Deduct	-5.34	
32 16 13 13-0017	LF	6" x 14" Cast In Place Concrete Curb (Type A1-8).....	23.39	10.47
		For Mountable Curb, Add	1.55	
		For Up To 20, Add	13.84	
		For >20 To 50, Add	7.84	
		For >50 To 100, Add	3.00	
		For >500 To 1,000, Deduct	-3.00	
		For >1,000, Deduct	-5.09	
32 16 13 13-0018	LF	6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8).....	26.77	12.04
		For Mountable Curb, Add	1.81	
		For Up To 20, Add	15.95	
		For >20 To 50, Add	9.04	
		For >50 To 100, Add	3.46	
		For >500 To 1,000, Deduct	-3.46	
		For >1,000, Deduct	-5.86	
32 16 13 13-0019	LF	6" x 16" Cast In Place Concrete Curb.....	25.82	10.47
		For Mountable Curb, Add	1.66	
		For Up To 20, Add	15.11	
		For >20 To 50, Add	8.55	
		For >50 To 100, Add	3.28	
		For >500 To 1,000, Deduct	-3.28	
		For >1,000, Deduct	-5.57	
32 16 13 13-0020	LF	6" x 16" Cast In Place Concrete Curb - Radius.....	29.47	15.71
		For Mountable Curb, Add	1.95	
		For Up To 20, Add	17.41	
		For >20 To 50, Add	9.86	
		For >50 To 100, Add	3.78	
		For >500 To 1,000, Deduct	-3.78	
		For >1,000, Deduct	-6.40	
32 16 13 13-0021	LF	6" x 18" Cast In Place Concrete Curb.....	27.76	10.47
		For Mountable Curb, Add	1.75	
		For Up To 20, Add	16.13	
		For >20 To 50, Add	9.12	
		For >50 To 100, Add	3.50	
		For >500 To 1,000, Deduct	-3.50	
		For >1,000, Deduct	-5.95	
32 16 13 13-0022	LF	6" x 18" Cast In Place Concrete Curb - Radius.....	31.35	12.04
		For Mountable Curb, Add	2.01	
		For Up To 20, Add	18.32	
		For >20 To 50, Add	10.36	
		For >50 To 100, Add	3.98	
		For >500 To 1,000, Deduct	-3.98	
		For >1,000, Deduct	-6.75	
32 16 13 13-0023	LF	6" x 24" Cast In Place Concrete Curb.....	32.17	11.52
		For Mountable Curb, Add	1.84	
		For Up To 20, Add	18.07	
		For >20 To 50, Add	10.20	
		For >50 To 100, Add	3.94	
		For >500 To 1,000, Deduct	-3.94	
		For >1,000, Deduct	-6.71	
32 16 13 13-0024	LF	6" x 24" Cast In Place Concrete Curb - Radius.....	35.96	13.09
		For Mountable Curb, Add	2.08	
		For Up To 20, Add	20.28	
		For >20 To 50, Add	11.45	
		For >50 To 100, Add	4.42	
		For >500 To 1,000, Deduct	-4.42	
		For >1,000, Deduct	-7.52	
32 16 13 13-0025	LF	12" x 24" Cast In Place Concrete Curb.....	43.22	13.09
		For Mountable Curb, Add	1.68	
		For Up To 20, Add	21.73	
		For >20 To 50, Add	12.18	
		For >50 To 100, Add	4.78	
		For >500 To 1,000, Deduct	-4.78	
		For >1,000, Deduct	-8.25	
32 16 13 13-0026	LF	12" x 24" Cast In Place Concrete Curb - Radius.....	48.06	14.66
		For Mountable Curb, Add	1.90	
		For Up To 20, Add	24.27	
		For >20 To 50, Add	13.60	
		For >50 To 100, Add	5.34	
		For >500 To 1,000, Deduct	-5.34	
		For >1,000, Deduct	-9.20	
32 16 13 13-0027	EA	Additional Finish For Handicap Drop Section In Curb.....	78.53	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0028 Concrete Band, Cast In Place (32 16 13 13) Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0029 LF 6" x 6" Concrete Band.....	19.20	10.47
Note: Excludes base course.		
For Up To 20, Add	12.22	
For >20 To 50, Add	6.95	
For >50 To 100, Add	2.64	
For >500 To 1,000, Deduct	-2.64	
For >1,000, Deduct	-4.43	
32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13) Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0001 LF 6" x 12" Straight Concrete Curb, Machine Formed	15.92	
32 16 13 14-0002 LF 6" x 12" Curved Concrete Curb, Machine Formed	20.67	
32 16 13 14-0003 LF 6" x 18" Straight Concrete Curb, Machine Formed	21.20	
32 16 13 14-0004 LF 6" x 18" Curved Concrete Curb, Machine Formed	26.42	
32 16 13 16 Steel Faced Curbs (32 16 13) Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0001 Sidewalk/Curb Facing (32 16 13 16) Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0002 LF 3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	15.90	4.96
For Curved Section, Add	3.44	
32 16 13 16-0003 LF 4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	17.48	5.64
For Curved Section, Add	3.86	
32 16 13 16-0004 LF 6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	23.63	6.31
For Curved Section, Add	4.74	
32 16 13 16-0005 LF 8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	29.04	7.10
For Curved Section, Add	5.55	
32 16 13 16-0006 LF 10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	35.57	7.78
For Curved Section, Add	6.47	
32 16 13 16-0007 LF 12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	46.52	9.92
For Curved Section, Add	8.35	
32 16 13 16-0008 LF 13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	53.58	12.85
For Curved Section, Add	10.16	
32 16 13 16-0009 EA Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section.....	168.21	
32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13) Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19) Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0002 LF 2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	24.94	
For Up To 20, Add	10.37	
For >20 To 50, Add	5.72	
For >50 To 100, Add	2.32	
For >500 To 1,000, Deduct	-2.32	
For >1,000, Deduct	-4.11	
32 16 13 19-0003 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	30.67	
For Up To 20, Add	12.61	
For >20 To 50, Add	6.95	
For >50 To 100, Add	2.83	
For >500 To 1,000, Deduct	-2.83	
For >1,000, Deduct	-5.01	
32 16 13 19-0004 LF 3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	36.37	
For Up To 20, Add	14.82	
For >20 To 50, Add	8.17	
For >50 To 100, Add	3.33	
For >500 To 1,000, Deduct	-3.33	
For >1,000, Deduct	-5.90	
32 16 13 19-0005 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	42.02	
For Up To 20, Add	17.01	
For >20 To 50, Add	9.37	
For >50 To 100, Add	3.82	
For >500 To 1,000, Deduct	-3.82	
For >1,000, Deduct	-6.78	
32 16 13 19-0006 LF 4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	47.71	
For Up To 20, Add	19.22	
For >20 To 50, Add	10.58	
For >50 To 100, Add	4.32	
For >500 To 1,000, Deduct	-4.32	
For >1,000, Deduct	-7.67	
32 16 13 19-0007 LF 5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	57.21	
For Up To 20, Add	22.32	
For >20 To 50, Add	12.25	
For >50 To 100, Add	5.04	
For >500 To 1,000, Deduct	-5.04	
For >1,000, Deduct	-8.99	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Curbs, Gutters, Sidewalks, and Driveways		32 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0008	LF		6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	66.44	
			For Up To 20, Add	25.24	
			For >20 To 50, Add	13.81	
			For >50 To 100, Add	5.71	
			For >500 To 1,000, Deduct	-5.71	
			For >1,000, Deduct	-10.23	
32 16 13 19-0009	SF		>6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	11.07	
			For Up To 100, Add	4.20	
			For >100 To 250, Add	2.30	
			For >250 To 500, Add	0.95	
			For >2,500 To 5,000, Deduct	-0.95	
			For >5,000, Deduct	-1.70	
32 16 13 19-0010	LF		2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	27.65	
			For Up To 20, Add	11.20	
			For >20 To 50, Add	6.16	
			For >50 To 100, Add	2.52	
			For >500 To 1,000, Deduct	-2.52	
			For >1,000, Deduct	-4.46	
32 16 13 19-0011	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	34.21	
			For Up To 20, Add	13.75	
			For >20 To 50, Add	7.57	
			For >50 To 100, Add	3.09	
			For >500 To 1,000, Deduct	-3.09	
			For >1,000, Deduct	-5.49	
32 16 13 19-0012	LF		3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	40.39	
			For Up To 20, Add	16.04	
			For >20 To 50, Add	8.82	
			For >50 To 100, Add	3.61	
			For >500 To 1,000, Deduct	-3.61	
			For >1,000, Deduct	-6.43	
32 16 13 19-0013	LF		3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	46.73	
			For Up To 20, Add	18.44	
			For >20 To 50, Add	10.13	
			For >50 To 100, Add	4.15	
			For >500 To 1,000, Deduct	-4.15	
			For >1,000, Deduct	-7.40	
32 16 13 19-0014	LF		4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	53.05	
			For Up To 20, Add	20.82	
			For >20 To 50, Add	11.43	
			For >50 To 100, Add	4.69	
			For >500 To 1,000, Deduct	-4.69	
			For >1,000, Deduct	-8.37	
32 16 13 19-0015	LF		5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	63.76	
			For Up To 20, Add	24.24	
			For >20 To 50, Add	13.27	
			For >50 To 100, Add	5.49	
			For >500 To 1,000, Deduct	-5.49	
			For >1,000, Deduct	-9.82	
32 16 13 19-0016	LF		6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	74.18	
			For Up To 20, Add	27.45	
			For >20 To 50, Add	14.99	
			For >50 To 100, Add	6.23	
			For >500 To 1,000, Deduct	-6.23	
			For >1,000, Deduct	-11.20	
32 16 13 19-0017	SF		>6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	12.37	
			For Up To 100, Add	4.58	
			For >100 To 250, Add	2.50	
			For >250 To 500, Add	1.04	
			For >2,500 To 5,000, Deduct	-1.04	
			For >5,000, Deduct	-1.87	
32 16 13 19-0018	LF		2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	27.59	
			For Up To 20, Add	11.48	
			For >20 To 50, Add	6.34	
			For >50 To 100, Add	2.57	
			For >500 To 1,000, Deduct	-2.57	
			For >1,000, Deduct	-4.55	
32 16 13 19-0019	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	33.96	
			For Up To 20, Add	13.98	
			For >20 To 50, Add	7.71	
			For >50 To 100, Add	3.14	
			For >500 To 1,000, Deduct	-3.14	
			For >1,000, Deduct	-5.55	
32 16 13 19-0020	LF		3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	40.25	
			For Up To 20, Add	16.43	
			For >20 To 50, Add	9.05	
			For >50 To 100, Add	3.69	
			For >500 To 1,000, Deduct	-3.69	
			For >1,000, Deduct	-6.54	
32 16 13 19-0021	LF		3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	46.55	
			For Up To 20, Add	18.88	
			For >20 To 50, Add	10.39	
			For >50 To 100, Add	4.24	
			For >500 To 1,000, Deduct	-4.24	
			For >1,000, Deduct	-7.52	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0022 LF 4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	52.84	
For Up To 20, Add	21.32	
For >20 To 50, Add	11.73	
For >50 To 100, Add	4.79	
For >500 To 1,000, Deduct	-4.79	
For >1,000, Deduct	-8.51	
32 16 13 19-0023 LF 5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	63.36	
32 16 13 19-0024 LF 6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	73.56	
32 16 13 19-0025 SF >6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	12.26	
For Up To 100, Add	4.67	
For >100 To 250, Add	2.56	
For >250 To 500, Add	1.06	
For >2,500 To 5,000, Deduct	-1.06	
For >5,000, Deduct	-1.89	
32 16 13 23 Precast Concrete Curbs and Gutters (32 16 13)		
32 16 13 23-0001 LF 6" x 18" Precast Concrete Curb.....	48.57	9.20
32 16 13 23-0002 LF 6" x 18" Precast Concrete Curb, Radius.....	58.67	10.59
32 16 13 23-0003 LF 6" x 20" Precast Concrete Curb.....	52.02	9.20
32 16 13 23-0004 LF 6" x 20" Precast Concrete Curb, Radius.....	63.23	10.59
32 16 13 23-0005 LF 7" x 18" Precast Concrete Curb.....	53.59	9.20
32 16 13 23-0006 LF 7" x 18" Precast Concrete Curb, Radius.....	65.05	10.59
32 16 13 23-0007 LF 7" x 20" Precast Concrete Curb.....	57.50	9.20
32 16 13 23-0008 LF 7" x 20" Precast Concrete Curb, Radius.....	70.00	10.59
32 16 13 33 Asphalt Curbs (32 16 13)		
32 16 13 33-0001 Asphalt Curbs (32 16 13 33)		
32 16 13 33-0002 LF 6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain.....	12.50	5.08
32 16 13 33-0003 LF 8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain.....	14.07	5.64
32 16 13 33-0004 LF 8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain.....	15.52	6.21
32 16 13 43 Stone Curbs (32 16 13)		
32 16 13 43-0001 Remove And Reset Stone And Precast Curbing (32 16 13 43)		
Note: Includes storage and cleaning.		
32 16 13 43-0002 LF Removal And Resetting Of Stone Or Precast Curbing.....	35.57	
Note: Includes storage and cleaning.		
32 16 23 Sidewalks (32 16)		
32 16 23 00-0001 Cast In Place Concrete Sidewalk (32 16 23)		
Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0045 for buggies, 03 31 13 00-0052 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0002 SF 4" Cast In Place Concrete Sidewalk.....	9.85	
For Up To 100, Add	4.10	
For >100 To 500, Add	1.15	
For >1,000 To 5,000, Deduct	-0.66	
For >5,000, Deduct	-1.48	
For Welded Wire Reinforcement, Add	0.81	
32 16 23 00-0003 SF 5" Cast In Place Concrete Sidewalk.....	10.84	
For Up To 100, Add	4.41	
For >100 To 500, Add	1.22	
For >1,000 To 5,000, Deduct	-0.68	
For >5,000, Deduct	-1.56	
For Welded Wire Reinforcement, Add	0.81	
32 16 23 00-0004 SF 6" Cast In Place Concrete Sidewalk.....	11.85	
For Up To 100, Add	4.73	
For >100 To 500, Add	1.30	
For >1,000 To 5,000, Deduct	-0.71	
For >5,000, Deduct	-1.65	
For Welded Wire Reinforcement, Add	0.81	
32 16 23 00-0005 SF 7" Cast In Place Concrete Sidewalk.....	13.76	
For Up To 100, Add	5.44	
For >100 To 500, Add	1.49	
For >1,000 To 5,000, Deduct	-0.80	
For >5,000, Deduct	-1.89	
For Welded Wire Reinforcement, Add	0.81	
32 16 23 00-0006 SF 8" Cast In Place Concrete Sidewalk.....	14.65	
For Up To 100, Add	5.70	
For >100 To 500, Add	1.55	
For >1,000 To 5,000, Deduct	-0.81	
For >5,000, Deduct	-1.95	
For Welded Wire Reinforcement, Add	0.81	
32 16 23 00-0007 SF For Exposed Aggregate Finish In Sidewalk.....	2.34	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Curbs, Gutters, Sidewalks, and Driveways			32 16

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0008	EA	Finish Concrete Handicap Drop Section In Sidewalk..... Note: Excludes patterned (tactile) finish.	140.35	
32 16 23 00-0009 Bituminous Sidewalk (32 16 23)				
Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 32 11 23 16-0001 for base course.				
32 16 23 00-0010	SY	1" Bituminous Sidewalk	9.03	
		For Up To 100, Add	3.32	
		For >100 To 500, Add	0.88	
		For >1,000 To 5,000, Deduct	-0.43	
		For >5,000, Deduct	-0.88	
32 16 23 00-0011	SY	1-1/2" Bituminous Sidewalk	11.36	
		For Up To 100, Add	4.12	
		For >100 To 500, Add	1.08	
		For >1,000 To 5,000, Deduct	-0.51	
		For >5,000, Deduct	-1.08	
32 16 23 00-0012	SY	2" Bituminous Sidewalk	15.85	
		For Up To 100, Add	5.55	
		For >100 To 500, Add	1.43	
		For >1,000 To 5,000, Deduct	-0.63	
		For >5,000, Deduct	-1.43	
32 16 23 00-0013	SY	2-1/2" Bituminous Sidewalk	19.83	
		For Up To 100, Add	6.92	
		For >100 To 500, Add	1.78	
		For >1,000 To 5,000, Deduct	-0.79	
		For >5,000, Deduct	-1.78	
32 16 23 00-0014	SY	3" Bituminous Sidewalk	22.89	
		For Up To 100, Add	7.85	
		For >100 To 500, Add	2.00	
		For >1,000 To 5,000, Deduct	-0.85	
		For >5,000, Deduct	-2.00	
32 16 23 00-0015	SY	3-1/2" Bituminous Sidewalk	26.49	
		For Up To 100, Add	8.97	
		For >100 To 500, Add	2.26	
		For >1,000 To 5,000, Deduct	-0.94	
		For >5,000, Deduct	-2.26	
32 16 43 Asphalt Dike (32 16)				
32 16 43 00-0001 Asphalt Dike (32 16 43)				
32 16 43 00-0002	LF	Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	6.74	
32 16 43 00-0003	LF	Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height.....	9.28	
32 16 43 00-0004	LF	Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height.....	9.28	
32 16 43 00-0005	LF	Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height.....	13.29	
32 16 43 00-0006	LF	Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height.....	15.74	
32 16 43 00-0007	LF	Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.51	
32 16 43 00-0008	LF	Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.63	
32 16 43 00-0009	LF	Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	14.86	
32 16 43 00-0010	LF	CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	6.74	
32 16 43 00-0011	LF	CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.51	
32 16 43 00-0012	LF	CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	14.86	
32 16 43 00-0013	LF	CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.63	
32 16 43 00-0014	LF	CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height.....	5.15	
32 17 Paving Specialties (32 10)				
32 17 13 Parking Bumpers (32 17)				
Note: Includes dowels set.				
32 17 13 16 Plastic Parking Bumpers (32 17 13)				
32 17 13 16-0001	EA	4" x 6" x 4' Recycled Plastic Wheel Stop	144.07	6.56
32 17 13 16-0002	EA	4" x 6" x 6' Recycled Plastic Wheel Stop	163.00	6.56
32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)				
32 17 13 19-0001	EA	6" x 8" x 4' Precast Concrete Wheel Stop With Dowels.....	40.44	19.75
32 17 13 19-0002	EA	6" x 6" x 6' Precast Concrete Wheel Stop With Dowels.....	46.49	19.75
32 17 13 19-0003	EA	6" x 8" x 6' Precast Concrete Wheel Stop With Dowels.....	47.27	19.75
32 17 13 19-0004	EA	6" x 10" x 6' Precast Concrete Wheel Stop With Dowels.....	48.87	19.75
32 17 13 19-0005	EA	8" x 4-1/2" x 6' Precast Concrete Wheel Stop With Dowels.....	46.49	19.75
32 17 13 19-0006	EA	8" x 13" x 6' Precast Concrete Wheel Stop With Dowels.....	55.30	19.75
32 17 13 19-0007	EA	Removal And Relocation Of Precast Concrete Wheel Stop.....	31.61	
32 17 13 19-0008	EA	Removal And Relocation Of Plastic Or Wood Wheel Stop	20.55	
32 17 13 23 Rubber Parking Bumpers (32 17 13)				
32 17 13 23-0001	EA	3' Recycled Rubber Wheel Stop	27.27	6.56
32 17 13 23-0002	EA	4' Recycled Rubber Wheel Stop	31.65	6.56
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop	33.41	6.56
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop	36.04	6.56

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 17 13 26 Wood Parking Bumpers (32 17 13)

32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	9.53	1.58
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated	12.68	1.58

32 17 16 Manufactured Traffic-Calming Devices (32 17)**32 17 16 00-0001 Speed Bumps (32 17 16)**

Note: Excludes pavement markings or reflectors.

32 17 16 00-0002	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	35.81	1.71
32 17 16 00-0003	LF	3-1/2" High x 12" Wide, Asphalt Speed Bump	56.63	
		Note: Excludes striping.		
32 17 16 00-0004	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump	26.56	1.14
32 17 16 00-0005	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump	92.42	1.14

32 17 16 00-0006 Modular Rubber Speed Tables (32 17 16)

Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.

32 17 16 00-0007	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table	57.81	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0008	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table	50.49	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0009	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table	47.35	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0010	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table	55.31	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0011	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table	48.60	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0012	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table	45.79	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0013	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table	52.79	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0014	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table	47.10	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0015	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table	44.51	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		

32 17 16 00-0016 Asphalt Speed Table (32 17 16)

Note: Excludes pavement markings or reflectors.

32 17 16 00-0017	LF	Up to 36" Wide Asphalt Speed Table With 3" Center Crown	33.58	
		Note: Tapered on edges to roadway.		
32 17 16 00-0018	LF	>36" To 48" Wide Asphalt Speed Table With 3" Center Crown	39.67	
		Note: Tapered on edges to roadway.		
32 17 16 00-0019	LF	Up to 36" Wide Asphalt Speed Table With 4" Center Crown	42.22	
		Note: Tapered on edges to roadway.		
32 17 16 00-0020	LF	>36" To 48" Wide Asphalt Speed Table With 4" Center Crown	49.90	
		Note: Tapered on edges to roadway.		
32 17 16 00-0021	LF	Up to 36" Wide Asphalt Speed Table With 6" Center Crown	51.45	
		Note: Tapered on edges to roadway.		
32 17 16 00-0022	LF	>36" To 48" Wide Asphalt Speed Table With 6" Center Crown	57.54	
		Note: Tapered on edges to roadway.		

32 17 16 00-0023 Concrete Speed Table (32 17 16)

32 17 16 00-0024	SF	Concrete Speed Table	14.84	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		

32 17 23 Pavement Markings (32 17)

See CSI section 01 55 26 00-0000 for temporary markings and removable line mask tape.

32 17 23 13 Painted Pavement Markings (32 17 23)**32 17 23 13-0001 Painted Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 13)**

Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.

32 17 23 13-0002 Alkyd/Solvent Based/Latex Reflective Pavement Marking (32 17 23 13-0001)

Note: 15 mil thickness.



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0003	LF		Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....	0.31	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.05	
			For Broken Line, Deduct	-0.06	
32 17 23 13-0004	LF		Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....	0.39	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
			For Broken Line, Deduct	-0.08	
32 17 23 13-0005	LF		Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....	0.49	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.07	
			For Broken Line, Deduct	-0.11	
32 17 23 13-0006	LF		Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.66	
			For Up To 5,000 LF, Add	0.13	
			For >25,000 LF, Deduct	-0.10	
			For Broken Line, Deduct	-0.16	
32 17 23 13-0007	LF		Double 4" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.44	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
			For Broken Line On One Side, Deduct	-0.05	
			For Double Broken Line, Deduct	-0.11	
32 17 23 13-0008	LF		Double 6" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.66	
			For Up To 5,000 LF, Add	0.13	
			For >25,000 LF, Deduct	-0.10	
			For Broken Line On One Side, Deduct	-0.08	
			For Double Broken Line, Deduct	-0.16	
32 17 23 13-0009	SF		Solid Area, Painted Reflective Pavement Striping	5.89	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0010	EA		6" High, Letter/Number, Alkyd Reflective Pavement Striping.....	4.24	
			For <10, Add	0.58	
			For >50 To 100, Deduct	-0.29	
			For >100 To 200, Deduct	-0.39	
			For >200, Deduct	-0.78	
32 17 23 13-0011	EA		12" High, Letter/Number, Alkyd Reflective Pavement Striping.....	7.16	
			For <10, Add	0.88	
			For >50 To 100, Deduct	-0.44	
			For >100 To 200, Deduct	-0.59	
			For >200, Deduct	-1.18	
32 17 23 13-0012	EA		24" High, Letter/Number, Alkyd Reflective Pavement Striping.....	12.00	
			For <10, Add	1.46	
			For >50 To 100, Deduct	-0.73	
			For >100 To 200, Deduct	-0.98	
			For >200, Deduct	-1.95	
32 17 23 13-0013	EA		36" High, Letter/Number, Alkyd Reflective Pavement Striping.....	23.47	
			For <10, Add	2.93	
			For >50 To 100, Deduct	-1.46	
			For >100 To 200, Deduct	-1.95	
			For >200, Deduct	-3.90	
32 17 23 13-0014	EA		48" High, Letter/Number, Alkyd Reflective Pavement Striping.....	27.03	
			For <10, Add	3.29	
			For >50 To 100, Deduct	-1.64	
			For >100 To 200, Deduct	-2.19	
			For >200, Deduct	-4.38	
32 17 23 13-0015	EA		72" High, Letter/Number, Alkyd Reflective Pavement Striping.....	48.32	
			For <10, Add	5.84	
			For >50 To 100, Deduct	-2.92	
			For >100 To 200, Deduct	-3.90	
			For >200, Deduct	-7.79	
32 17 23 13-0016	EA		96" High, Letter/Number, Alkyd Reflective Pavement Striping.....	64.64	
			For <10, Add	7.85	
			For >50 To 100, Deduct	-3.92	
			For >100 To 200, Deduct	-5.23	
			For >200, Deduct	-10.46	
32 17 23 13-0017	EA		120" High, Letter/Number, Alkyd Reflective Pavement Striping.....	92.35	
			For <10, Add	9.72	
			For >50 To 100, Deduct	-4.86	
			For >100 To 200, Deduct	-6.48	
			For >200, Deduct	-12.96	
32 17 23 13-0018	SF		Letter/Number, Painted Reflective Pavement Marking	6.77	
32 17 23 13-0019	SF		Symbols, Painted Reflective Pavement Marking	8.09	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0020			Painted Reflective Pavement Marking (CALTRANS) (32 17 23 13-0001)		
			Note: Per LF of detail.		
32 17 23 13-0021	LF		CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.25	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0022	LF		CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.37	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0023	LF		CALTRANS Detail 4 Centerline	0.66	
			For Up To 5,000 LF, Add	0.13	
			For >25,000 LF, Deduct	-0.10	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0024 LF CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.25	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0025 LF CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.38	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0026 LF CALTRANS Detail 7 Centerline	0.47	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0027 LF CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.25	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0028 LF CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.37	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0029 LF CALTRANS Detail 10 Lanelines	0.66	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
32 17 23 13-0030 LF CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.25	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0031 LF CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.37	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0032 LF CALTRANS Detail 13 Lanelines	0.47	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0033 LF CALTRANS Detail 14 Lanelines	0.47	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0034 LF CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping	0.37	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0035 LF CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
For Broken Line On One Side, Deduct	-0.04	
For Double Broken Line, Deduct	-0.08	
32 17 23 13-0036 LF CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.78	
For Up To 5,000 LF, Add	0.16	
For >25,000 LF, Deduct	-0.12	
32 17 23 13-0037 LF CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	1.91	
For Up To 5,000 LF, Add	0.38	
For >25,000 LF, Deduct	-0.29	
32 17 23 13-0038 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
For Broken Line On One Side, Deduct	-0.04	
For Double Broken Line, Deduct	-0.08	
32 17 23 13-0039 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.66	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
32 17 23 13-0040 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	1.61	
For Up To 5,000 LF, Add	0.32	
For >25,000 LF, Deduct	-0.24	
32 17 23 13-0041 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.40	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
For Broken Line On One Side, Deduct	-0.06	
For Double Broken Line, Deduct	-0.13	
32 17 23 13-0042 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.84	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
32 17 23 13-0043 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	2.27	
For Up To 5,000 LF, Add	0.45	
For >25,000 LF, Deduct	-0.34	
32 17 23 13-0044 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.31	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0045 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.43	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0046 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.54	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
32 17 23 13-0047 LF CALTRANS Detail 26 Left Edgelines	0.11	
For Up To 5,000 LF, Add	0.02	
For >25,000 LF, Deduct	-0.02	
32 17 23 13-0048 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.51	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.08	
32 17 23 13-0049 LF CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.31	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0050 LF CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping	0.25	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0051 LF CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping	0.79	
For Up To 5,000 LF, Add	0.16	
For >25,000 LF, Deduct	-0.12	
For Broken Line On One Side, Deduct	-0.13	
For Double Broken Line, Deduct	-0.26	
32 17 23 13-0052 LF CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping	1.23	
For Up To 5,000 LF, Add	0.25	
For >25,000 LF, Deduct	-0.18	
32 17 23 13-0053 LF CALTRANS Detail 30 Median Islands	4.55	
For Up To 5,000 LF, Add	0.91	
For >25,000 LF, Deduct	-0.68	
32 17 23 13-0054 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.66	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
For Broken Line On One Side, Deduct	-0.08	
For Double Broken Line, Deduct	-0.16	
32 17 23 13-0055 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	1.21	
For Up To 5,000 LF, Add	0.24	
For >25,000 LF, Deduct	-0.18	
32 17 23 13-0056 LF CALTRANS Detail 33 Two-Way Left Turn Lanes	3.12	
For Up To 5,000 LF, Add	0.62	
For >25,000 LF, Deduct	-0.47	
32 17 23 13-0057 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	0.66	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
32 17 23 13-0058 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0059 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	0.79	
For Up To 5,000 LF, Add	0.16	
For >25,000 LF, Deduct	-0.12	
32 17 23 13-0060 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0061 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	1.43	
For Up To 5,000 LF, Add	0.29	
For >25,000 LF, Deduct	-0.21	
32 17 23 13-0062 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping.....	0.95	
For Up To 5,000 LF, Add	0.19	
For >25,000 LF, Deduct	-0.14	
32 17 23 13-0063 LF CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	1.02	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
32 17 23 13-0064 LF CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	0.87	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
32 17 23 13-0065 LF CALTRANS Detail 37A Lane Drop At Exit Ramps	1.53	
For Up To 5,000 LF, Add	0.31	
For >25,000 LF, Deduct	-0.23	
32 17 23 13-0066 LF CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping.....	0.87	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
32 17 23 13-0067 LF CALTRANS Detail 37C Lane Drop At Intersections.....	1.53	
For Up To 5,000 LF, Add	0.31	
For >25,000 LF, Deduct	-0.23	
32 17 23 13-0068 LF CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	0.86	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
32 17 23 13-0069 LF CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping.....	0.63	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0070 LF CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping.....	1.08	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.16	
32 17 23 13-0071 LF CALTRANS Detail 38C Channelizing Line	2.27	
For Up To 5,000 LF, Add	0.45	
For >25,000 LF, Deduct	-0.34	
32 17 23 13-0072 LF CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping.....	0.39	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0073 LF CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping.....	0.32	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0074 LF CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.24	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0075 LF CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.10	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.17	
32 17 23 13-0076 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.24	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0077 LF CALTRANS Detail 41A Center Line Extensions Through Intersections.....	1.10	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.17	
32 17 23 13-0078 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	107.74	
For <10, Add	14.22	
For >50 To 100, Deduct	-7.11	
For >100 To 200, Deduct	-9.48	
For >200, Deduct	-18.95	
32 17 23 13-0079 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	189.00	
For <10, Add	24.88	
For >50 To 100, Deduct	-12.44	
For >100 To 200, Deduct	-16.59	
For >200, Deduct	-33.17	
32 17 23 13-0080 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	237.22	
For <10, Add	31.28	
For >50 To 100, Deduct	-15.64	
For >100 To 200, Deduct	-20.85	
For >200, Deduct	-41.70	
32 17 23 13-0081 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	344.95	
For <10, Add	45.49	
For >50 To 100, Deduct	-22.75	
For >100 To 200, Deduct	-30.33	
For >200, Deduct	-60.66	
32 17 23 13-0082 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	452.70	
For <10, Add	59.71	
For >50 To 100, Deduct	-29.85	
For >100 To 200, Deduct	-39.81	
For >200, Deduct	-79.61	
32 17 23 13-0083 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking.....	318.48	
For <10, Add	41.94	
For >50 To 100, Deduct	-20.97	
For >100 To 200, Deduct	-27.96	
For >200, Deduct	-55.92	
32 17 23 13-0084 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking.....	555.70	
For <10, Add	73.21	
For >50 To 100, Deduct	-36.61	
For >100 To 200, Deduct	-48.81	
For >200, Deduct	-97.62	
32 17 23 13-0085 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	113.41	
For <10, Add	14.93	
For >50 To 100, Deduct	-7.46	
For >100 To 200, Deduct	-9.95	
For >200, Deduct	-19.90	
32 17 23 13-0086 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	248.54	
For <10, Add	32.70	
For >50 To 100, Deduct	-16.35	
For >100 To 200, Deduct	-21.80	
For >200, Deduct	-43.60	
32 17 23 13-0087 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	318.48	
For <10, Add	41.94	
For >50 To 100, Deduct	-20.97	
For >100 To 200, Deduct	-27.96	
For >200, Deduct	-55.92	
32 17 23 13-0088 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking	205.27	
For <10, Add	27.01	
For >50 To 100, Deduct	-13.51	
For >100 To 200, Deduct	-18.01	
For >200, Deduct	-36.02	
32 17 23 13-0089 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking	270.28	
For <10, Add	35.54	
For >50 To 100, Deduct	-17.77	
For >100 To 200, Deduct	-23.69	
For >200, Deduct	-47.39	
32 17 23 13-0090 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	53.87	
For <10, Add	7.11	
For >50 To 100, Deduct	-3.55	
For >100 To 200, Deduct	-4.74	
For >200, Deduct	-9.48	
32 17 23 13-0091 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	515.01	
Note: Excludes variable width transverse lines.		
For <10, Add	67.53	
For >50 To 100, Deduct	-33.76	
For >100 To 200, Deduct	-45.02	
For >200, Deduct	-90.04	
32 17 23 13-0092 SF CALTRANS Solid Area, Painted Reflective Pavement Marking.....	6.72	
32 17 23 13-0093 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking	49.35	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.12	
For >50 To 100, Deduct	-2.56	
For >100 To 200, Deduct	-3.41	
For >200, Deduct	-6.82	
32 17 23 13-0094 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	52.27	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.40	
For >50 To 100, Deduct	-2.70	
For >100 To 200, Deduct	-3.60	
For >200, Deduct	-7.20	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0095	EA		CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	86.01	
			For <10, Add	11.37	
			For >50 To 100, Deduct	-5.69	
			For >100 To 200, Deduct	-7.58	
			For >200, Deduct	-15.16	
32 17 23 13-0096	EA		CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking	174.83	
			For <10, Add	23.03	
			For >50 To 100, Deduct	-11.51	
			For >100 To 200, Deduct	-15.35	
			For >200, Deduct	-30.71	
32 17 23 13-0097	EA		CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	37.80	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	5.40	
			For >50 To 100, Deduct	-2.70	
			For >100 To 200, Deduct	-3.60	
			For >200, Deduct	-7.20	
32 17 23 13-0098	SF		CALTRANS Letter/Number, Painted Reflective Pavement Marking	6.81	
32 17 23 13-0099	SF		CALTRANS Symbols, Painted Reflective Pavement Marking	7.57	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0100 Epoxy Reflective Pavement Marking (32 17 23 13-0001)					
			Note: 15 mil thickness.		
32 17 23 13-0101	LF		Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.52	
			For 20 Mil Thickness, Add	0.11	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line, Deduct	-0.22	
32 17 23 13-0102	LF		Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.72	
			For 20 Mil Thickness, Add	0.16	
			For Up To 5,000 LF, Add	0.14	
			For >25,000 LF, Deduct	-0.11	
			For Broken Line, Deduct	-0.33	
32 17 23 13-0103	LF		Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.87	
			For 20 Mil Thickness, Add	0.19	
			For Up To 5,000 LF, Add	0.17	
			For >25,000 LF, Deduct	-0.13	
			For Broken Line, Deduct	-0.39	
32 17 23 13-0104	LF		Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.30	
			For 20 Mil Thickness, Add	0.31	
			For Up To 5,000 LF, Add	0.26	
			For >25,000 LF, Deduct	-0.20	
			For Broken Line, Deduct	-0.64	
32 17 23 13-0105	LF		Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.80	
			For 20 Mil Thickness, Add	0.20	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
			For Broken Line On One Side, Deduct	-0.21	
			For Double Broken Line, Deduct	-0.43	
32 17 23 13-0106	LF		Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.14	
			For 20 Mil Thickness, Add	0.30	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.17	
			For Broken Line On One Side, Deduct	-0.32	
			For Double Broken Line, Deduct	-0.65	
32 17 23 13-0107	SF		Solid Area, Epoxy Reflective Pavement Marking.....	7.21	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
			For 20 Mil Thickness, Add	0.79	
32 17 23 13-0108	EA		6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	4.50	
			For 20 Mil Thickness, Add	0.40	
			For <10, Add	0.58	
			For >50 To 100, Deduct	-0.29	
			For >100 To 200, Deduct	-0.39	
			For >200, Deduct	-0.78	
32 17 23 13-0109	EA		12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	8.09	
			For 20 Mil Thickness, Add	1.03	
			For <10, Add	0.88	
			For >50 To 100, Deduct	-0.44	
			For >100 To 200, Deduct	-0.59	
			For >200, Deduct	-1.18	
32 17 23 13-0110	EA		24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	13.62	
			For 20 Mil Thickness, Add	1.77	
			For <10, Add	1.46	
			For >50 To 100, Deduct	-0.73	
			For >100 To 200, Deduct	-0.98	
			For >200, Deduct	-1.95	
32 17 23 13-0111	EA		36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	26.31	
			For 20 Mil Thickness, Add	3.24	
			For <10, Add	2.93	
			For >50 To 100, Deduct	-1.46	
			For >100 To 200, Deduct	-1.95	
			For >200, Deduct	-3.90	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0112 EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	30.73	
For 20 Mil Thickness, Add	4.04	
For <10, Add	3.29	
For >50 To 100, Deduct	-1.64	
For >100 To 200, Deduct	-2.19	
For >200, Deduct	-4.38	
32 17 23 13-0113 EA 72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	55.09	
For 20 Mil Thickness, Add	7.33	
For <10, Add	5.84	
For >50 To 100, Deduct	-2.92	
For >100 To 200, Deduct	-3.90	
For >200, Deduct	-7.79	
32 17 23 13-0114 EA 96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	73.54	
For 20 Mil Thickness, Add	9.69	
For <10, Add	7.85	
For >50 To 100, Deduct	-3.92	
For >100 To 200, Deduct	-5.23	
For >200, Deduct	-10.46	
32 17 23 13-0115 EA 120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	112.21	
For 20 Mil Thickness, Add	19.04	
For <10, Add	9.72	
For >50 To 100, Deduct	-4.86	
For >100 To 200, Deduct	-6.48	
For >200, Deduct	-12.96	
32 17 23 13-0116 SF Letter/Number, Epoxy Reflective Pavement Marking.....	7.41	
For 20 Mil Thickness, Add	0.80	
32 17 23 13-0117 SF Symbols, Epoxy Reflective Pavement Marking.....	9.39	
Note: Handicap, railroad, diamond, arrows, etc.		
For 20 Mil Thickness, Add	0.90	
32 17 23 13-0118 Painted Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)		
Note: Includes primers. Per Coat.		
32 17 23 13-0119 Painted Pavement Marking For Parking Areas (32 17 23 13-0118)		
Note: 15 mil thickness.		
32 17 23 13-0120 LF Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.15	
32 17 23 13-0121 LF Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.25	
32 17 23 13-0122 LF Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.33	
32 17 23 13-0123 LF Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.49	
32 17 23 13-0124 SF Solid Area, Painted Pavement Marking For Parking Areas.....	5.86	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0125 EA 6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	4.13	
For Up To 10, Add	0.57	
For >50 To 100, Deduct	-0.28	
For >100 To 200, Deduct	-0.38	
For >200, Deduct	-0.76	
32 17 23 13-0126 EA 12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	6.91	
For Up To 10, Add	0.85	
For >50 To 100, Deduct	-0.43	
For >100 To 200, Deduct	-0.57	
For >200, Deduct	-1.14	
32 17 23 13-0127 EA 24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	11.63	
For Up To 10, Add	1.42	
For >50 To 100, Deduct	-0.71	
For >100 To 200, Deduct	-0.95	
For >200, Deduct	-1.89	
32 17 23 13-0128 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	21.80	
For Up To 10, Add	2.70	
For >50 To 100, Deduct	-1.35	
For >100 To 200, Deduct	-1.80	
For >200, Deduct	-3.60	
32 17 23 13-0129 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	29.01	
For Up To 10, Add	3.70	
For >50 To 100, Deduct	-1.85	
For >100 To 200, Deduct	-2.46	
For >200, Deduct	-4.93	
32 17 23 13-0130 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas.....	35.26	
For Up To 10, Add	4.55	
For >50 To 100, Deduct	-2.27	
For >100 To 200, Deduct	-3.03	
For >200, Deduct	-6.07	
32 17 23 13-0131 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas.....	46.92	
For Up To 10, Add	5.69	
For >50 To 100, Deduct	-2.84	
For >100 To 200, Deduct	-3.79	
For >200, Deduct	-7.58	
32 17 23 13-0132 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	82.20	
Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0133 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	93.30	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0134 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	131.08	
Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0135 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	133.64	
Note: Approximate overall dimensions: 7' width x 13' height.		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0136	EA	Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 9' width x 15' height.	173.11	
32 17 23 13-0137	EA	Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.	34.13	
		For Blue Background With White Symbol, Add	24.44	
		For Blue Background With White Symbol And Border, Add	30.55	
32 17 23 13-0138	EA	Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.	49.11	
		For Blue Background With White Symbol, Add	49.08	
		For Blue Background With White Symbol And Border, Add	61.36	
32 17 23 13-0139 Painted Curbs (32 17 23 13)				
		Note: All colors.		
32 17 23 13-0140	LF	Reflective Painted Curb	3.23	
32 17 23 13-0141	LF	Reflective Painted Curb And Gutter	6.14	
32 17 23 13-0142	LF	Painted Curb	2.61	
32 17 23 13-0143	LF	Painted Curb And Gutter	5.59	
32 17 23 13-0144 Markings For Outdoor Play Areas, Courts (32 17 23 13)				
32 17 23 13-0145	LF	2" Wide Marking For Outdoor Play Areas	0.88	
32 17 23 13-0146	LF	3" Wide Marking For Outdoor Play Areas	1.00	
32 17 23 13-0147	LF	4" Wide Marking For Outdoor Play Areas	1.12	
32 17 23 13-0148	LF	6" Wide Marking For Outdoor Play Areas	1.31	
32 17 23 13-0149	EA	Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera)	266.44	
32 17 23 13-0150 Painted Pavement Cycle Lane For Roads (32 17 23 13)				
32 17 23 13-0151	SF	StreetBond or Ride-A-Way Pavement Coating For Cycle Lanes Note: 4-layer system with green bike lane colorant	4.47	
32 17 23 23 Raised Pavement Markings (32 17 23)				
32 17 23 23-0001 Raised Pavement Markers (RPMs) (32 17 23 23)				
32 17 23 23-0002	EA	One-Way Reflective, Raised Pavement Marker (RPM) Note: Type G, H or R	5.06	2.39
		For >100, Deduct	-0.51	
32 17 23 23-0003	EA	Two-Way Reflective, Raised Pavement Marker (RPM) Note: Type B, C, D, AC, RA or RR	5.34	2.39
		For >100, Deduct	-0.53	
32 17 23 23-0004	EA	4" Diameter, Round Reflective, Raised Pavement Marker (RPM) For >100, Deduct	6.34	2.39
			-0.63	
32 17 23 23-0005	EA	4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) Note: Type A or AY	4.70	2.39
		For >100, Deduct	-0.47	
32 17 23 23-0006 Snowplowable Pavement Markers (32 17 23 23)				
32 17 23 23-0007	EA	One-Way Reflective, Snowplowable Pavement Marker With Center Rail Note: Type G, H or R	64.66	28.38
32 17 23 23-0008	EA	Two-Way Reflective, Snowplowable Pavement Marker With Center Rail Note: Type B, C, D, AC, RA or RR	64.91	28.38
32 17 23 23-0009	EA	Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	17.74	
32 17 23 23-0010	EA	Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	22.72	
32 17 23 33 Plastic Pavement Markings (32 17 23)				
32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 33)				
		Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
32 17 23 33-0002 Thermoplastic Reflective Pavement Marking (32 17 23 33-0001)				
		Note: 90 mil thickness.		
32 17 23 33-0003	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	1.32 0.26 -0.20 -0.77 -0.18 0.23	
32 17 23 33-0004	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	1.89 0.38 -0.28 -1.15 -0.27 0.34	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0005	LF		Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping 2.51 Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.50	
			For >25,000 LF, Deduct	-0.38	
			For Broken Line, Deduct	-1.53	
			For 60 mils Thick, Deduct	-0.36	
			For 125 mils Thick, Add	0.46	
32 17 23 33-0006	LF		Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping 3.66 Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.73	
			For >25,000 LF, Deduct	-0.55	
			For Broken Line, Deduct	-2.30	
			For 60 mils Thick, Deduct	-0.54	
			For 125 mils Thick, Add	0.69	
32 17 23 33-0007	LF		Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping 2.49 Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.50	
			For >25,000 LF, Deduct	-0.37	
			For Broken Line On One Side, Deduct	-0.77	
			For Double Broken Line, Deduct	-1.53	
			For 60 mils Thick, Deduct	-0.36	
			For 125 mils Thick, Add	0.46	
32 17 23 33-0008	LF		Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping 3.66 Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.73	
			For >25,000 LF, Deduct	-0.55	
			For Broken Line On One Side, Deduct	-1.15	
			For Double Broken Line, Deduct	-2.30	
			For 60 mils Thick, Deduct	-0.54	
			For 125 mils Thick, Add	0.69	
32 17 23 33-0009	SF		Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 8.72 Note: Includes yellow or white.		
			For 60 mils Thick, Deduct	-0.53	
			For 125 mils Thick, Add	0.68	
32 17 23 33-0010	EA		6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 5.75		
			For Up To 10, Add	0.64	
			For >50 To 100, Deduct	-0.32	
			For >100 To 200, Deduct	-0.43	
			For >200, Deduct	-0.85	
			For 60 mils Thick, Deduct	-0.26	
			For 125 mils Thick, Add	0.33	
32 17 23 33-0011	EA		12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 11.80		
			For Up To 10, Add	0.97	
			For >50 To 100, Deduct	-0.48	
			For >100 To 200, Deduct	-0.64	
			For >200, Deduct	-1.29	
			For 60 mils Thick, Deduct	-0.94	
			For 125 mils Thick, Add	1.21	
32 17 23 33-0012	EA		24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 20.09		
			For Up To 10, Add	1.61	
			For >50 To 100, Deduct	-0.80	
			For >100 To 200, Deduct	-1.07	
			For >200, Deduct	-2.14	
			For 60 mils Thick, Deduct	-1.64	
			For 125 mils Thick, Add	2.11	
32 17 23 33-0013	EA		36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 38.01		
			For Up To 10, Add	3.23	
			For >50 To 100, Deduct	-1.61	
			For >100 To 200, Deduct	-2.15	
			For >200, Deduct	-4.30	
			For 60 mils Thick, Deduct	-2.89	
			For 125 mils Thick, Add	3.71	
32 17 23 33-0014	EA		48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 45.52		
			For Up To 10, Add	3.61	
			For >50 To 100, Deduct	-1.81	
			For >100 To 200, Deduct	-2.41	
			For >200, Deduct	-4.81	
			For 60 mils Thick, Deduct	-3.75	
			For 125 mils Thick, Add	4.83	
32 17 23 33-0015	EA		72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 82.03		
			For Up To 10, Add	6.43	
			For >50 To 100, Deduct	-3.21	
			For >100 To 200, Deduct	-4.28	
			For >200, Deduct	-8.57	
			For 60 mils Thick, Deduct	-6.86	
			For 125 mils Thick, Add	8.82	
32 17 23 33-0016	EA		96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 109.09		
			For Up To 10, Add	8.63	
			For >50 To 100, Deduct	-4.31	
			For >100 To 200, Deduct	-5.75	
			For >200, Deduct	-11.51	
			For 60 mils Thick, Deduct	-9.02	
			For 125 mils Thick, Add	11.60	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0017	EA	120"	High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	186.35	
			For Up To 10, Add	10.69	
			For >50 To 100, Deduct	-5.35	
			For >100 To 200, Deduct	-7.13	
			For >200, Deduct	-14.25	
			For 60 mils Thick, Deduct	-20.14	
			For 125 mils Thick, Add	25.89	
32 17 23 33-0018	SF		Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	10.15	
			For 60 mils Thick, Deduct	-0.65	
			For 125 mils Thick, Add	0.83	
32 17 23 33-0019	SY		Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	30.53	
			Note: Per SY of area.		
			For 60 mils Thick, Deduct	-1.20	
			For 125 mils Thick, Add	1.54	
32 17 23 33-0020	EA		Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	266.31	
			For 60 mils Thick, Deduct	-14.94	
			For 125 mils Thick, Add	19.21	
32 17 23 33-0021	EA		Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	790.59	
			For 60 mils Thick, Deduct	-45.48	
			For 125 mils Thick, Add	58.47	
32 17 23 33-0022	EA		Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	155.48	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For 60 mils Thick, Deduct	-20.57	
			For 125 mils Thick, Add	26.45	
32 17 23 33-0023	EA		Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	127.36	
			For 60 mils Thick, Deduct	-7.15	
			For 125 mils Thick, Add	9.19	
32 17 23 33-0024	SF		Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	11.57	
			Note: Handicap, railroad, diamond, arrows, etc.		
			For 60 mils Thick, Deduct	-0.65	
			For 125 mils Thick, Add	0.83	
32 17 23 33-0025	EA	10'	Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	162.09	
			For 60 mils Thick, Deduct	-9.09	
			For 125 mils Thick, Add	11.69	
32 17 23 33-0026	EA	18'	Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	289.46	
			For 60 mils Thick, Deduct	-16.24	
			For 125 mils Thick, Add	20.88	
32 17 23 33-0027	EA	24'	Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	358.94	
			For 60 mils Thick, Deduct	-20.14	
			For 125 mils Thick, Add	25.89	
32 17 23 33-0028	EA	24'	Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	521.03	
			For 60 mils Thick, Deduct	-29.23	
			For 125 mils Thick, Add	37.59	
32 17 23 33-0029	EA	24'	Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	683.13	
			For 60 mils Thick, Deduct	-38.33	
			For 125 mils Thick, Add	49.28	
32 17 23 33-0030	EA	24'	Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	486.29	
			For 60 mils Thick, Deduct	-27.28	
			For 125 mils Thick, Add	35.08	
32 17 23 33-0031	EA	24'	Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	845.24	
			For 60 mils Thick, Deduct	-47.43	
			For 125 mils Thick, Add	60.98	
32 17 23 33-0032	EA	8'	Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	173.68	
			For 60 mils Thick, Deduct	-9.74	
			For 125 mils Thick, Add	12.53	
32 17 23 33-0033	EA	24'	Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	382.09	
			For 60 mils Thick, Deduct	-21.44	
			For 125 mils Thick, Add	27.56	
32 17 23 33-0034	EA	18'	Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	486.29	
			For 60 mils Thick, Deduct	-27.28	
			For 125 mils Thick, Add	35.08	
32 17 23 33-0035	EA	13'	Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	312.62	
			For 60 mils Thick, Deduct	-17.54	
			For 125 mils Thick, Add	22.55	
32 17 23 33-0036	EA	15'	Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	416.83	
			For 60 mils Thick, Deduct	-23.39	
			For 125 mils Thick, Add	30.07	
32 17 23 33-0037	EA	5'	Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	81.06	
			For 60 mils Thick, Deduct	-4.55	
			For 125 mils Thick, Add	5.85	
32 17 23 33-0038	Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)				
32 17 23 33-0039	LF	Single 4"	Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.02	
			For 60 mils Thick, Deduct	-0.18	
			For 125 mils Thick, Add	0.23	
32 17 23 33-0040	LF	Single 6"	Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.81	
			For 60 mils Thick, Deduct	-0.27	
			For 125 mils Thick, Add	0.34	
32 17 23 33-0041	LF	Single 8"	Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	4.70	
			For 60 mils Thick, Deduct	-0.36	
			For 125 mils Thick, Add	0.46	
32 17 23 33-0042	LF	Single 12"	Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	6.75	
			For 60 mils Thick, Deduct	-0.54	
			For 125 mils Thick, Add	0.69	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0043	LF		Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i>	12.10 -1.07 1.37	
32 17 23 33-0044			Preformed, Thermoplastic Reflective Pavement Marking (32 17 23 33-0001) Note: Heat applied. 125 mil thickness (90 mil for bicycle symbols). (Flint PreMark).		
32 17 23 33-0045	EA		Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 4' width x 8' height.	286.91	
32 17 23 33-0046	EA		Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	759.54	
32 17 23 33-0047	EA		Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 13' height.	157.81	
32 17 23 33-0048	EA		6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 2' width x 6' height.	135.99	
32 17 23 33-0049	EA		9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.	253.92	
32 17 23 33-0050	EA		4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 4' height.	155.57	
32 17 23 33-0051	EA		8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 6' width x 8' height.	281.30	
32 17 23 33-0052	EA		Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.	472.94	
32 17 23 33-0053	EA		Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.	705.89	
32 17 23 33-0054	EA		Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 1-2/3' width x 12' height.	263.21	
32 17 23 33-0055	EA		Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 12' height.	290.59	
32 17 23 33-0056	EA		Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 12' height.	524.33	
32 17 23 33-0057	EA		Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/2' width x 20' height.	483.36	
32 17 23 33-0058	EA		Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 20' height.	486.20	
32 17 23 33-0059	EA		Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 18' height.	660.57	
32 17 23 33-0060	EA		4' x 7' Preformed Bike Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Lightgreen or black background color with white symbol.	395.19	
32 17 23 33-0061	EA		4' x 10' Preformed Shared Bike Lane Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Lightgreen or black background color with white symbol.	562.54	
32 17 23 33-0062	EA		4' x 20' Preformed Bike Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Lightgreen background color with white symbol.	1,125.06	
32 17 23 33-0063			Preformed, Patterned Reflective Pavement Marking Tape (32 17 23 33-0001) Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0064	LF		Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	2.81	
			<i>For Up To 5,000 LF, Add</i>	0.56	
			<i>For >25,000 LF, Deduct</i>	-0.42	
32 17 23 33-0065	LF		Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	4.15	
			<i>For Up To 5,000 LF, Add</i>	0.83	
			<i>For >25,000 LF, Deduct</i>	-0.62	
32 17 23 33-0066	LF		Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	5.52	
			<i>For Up To 5,000 LF, Add</i>	1.10	
			<i>For >25,000 LF, Deduct</i>	-0.83	
32 17 23 33-0067	LF		Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	8.18	
			<i>For Up To 5,000 LF, Add</i>	1.64	
			<i>For >25,000 LF, Deduct</i>	-1.23	
32 17 23 33-0068	SF		Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape Note: Includes yellow or white.	23.07	
32 17 23 33-0069	EA		6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	34.22 1.17 -0.58 -0.78 -1.55	
32 17 23 33-0070	EA		12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	60.20 1.48 -0.74 -0.99 -1.97	
32 17 23 33-0071	EA		24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	103.56 2.93 -1.46 -1.95 -3.90	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Paving Specialties		32 17

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0072 EA 36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape 150.13 For <10, Add 5.86 For >50 To 100, Deduct -2.93 For >100 To 200, Deduct -3.91 For >200, Deduct -7.81		
32 17 23 33-0073 EA 48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape 175.86 For <10, Add 6.57 For >50 To 100, Deduct -3.28 For >100 To 200, Deduct -4.38 For >200, Deduct -8.76		
32 17 23 33-0074 EA 72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape 226.36 For <10, Add 11.69 For >50 To 100, Deduct -5.84 For >100 To 200, Deduct -7.79 For >200, Deduct -15.58		
32 17 23 33-0075 EA 96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape 288.91 For <10, Add 15.69 For >50 To 100, Deduct -7.85 For >100 To 200, Deduct -10.46 For >200, Deduct -20.93		
32 17 23 33-0076 EA 120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape 362.05 For <10, Add 19.45 For >50 To 100, Deduct -9.72 For >100 To 200, Deduct -12.97 For >200, Deduct -25.93		
32 17 23 33-0077 SF Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape 23.83		
32 17 23 33-0078 SF Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape 25.25 Note: Handicap, railroad, diamond symbol, etc.		
32 17 23 33-0079 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 33)		
32 17 23 33-0080 Thermoplastic Pavement Marking Symbols For Parking Areas (32 17 23 33-0079) Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0081 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 100.58 Note: White or blue symbol. Excludes striping.		
32 17 23 33-0082 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 361.81 Note: Approximate overall dimensions: 2-2/3" width x 3" height. White or blue symbol. Excludes striping.		
32 17 23 33-0083 EA 40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 208.12 Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0084 EA 45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 248.98 Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0085 EA 48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 260.78 Note: White symbol on blue background. Excludes striping.		
32 17 26 Tactile Warning Surfaces (32 17)		
32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26) Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002 SF Surface Applied VPC Truncated Dome Detectable Warning Surface 61.69		9.41
32 17 26 00-0003 SF Embedded, VPC Truncated Dome Detectable Warning Surface 49.46 Note: Also raised strips or directional bars. All colors.		9.41
32 17 26 00-0004 Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26) Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0005 SF Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) 69.37 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		9.41
32 17 26 00-0006 SF >15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) 60.91 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		9.41
32 30 Site Improvements (32)		
32 31 Fences and Gates (32 30)		
32 31 11 Gate Operators (32 31)		
32 31 11 00-0001 Gate Operators (32 31 11) Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002 Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0003 Single Gate, Swing Gate Actuator (32 31 11 00-0002)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0004	EA	Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003) 1,507.40 Note: Includes one primary operator with a 10' wide gate capacity.	1,507.40	197.20
32 31 11 00-0005	EA	Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002) 1,989.70 Note: Includes one primary operator with a 14' wide gate capacity.	1,989.70	197.20
32 31 11 00-0006		Dual Gate, Swing Gate Actuator (32 31 11 00-0002)		
32 31 11 00-0007	EA	Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003) 3,014.82 Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.	3,014.82	394.39
32 31 11 00-0008	EA	Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002) 3,979.42 Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.	3,979.42	394.39
32 31 11 00-0009		Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0010		Single Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0011	EA	400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050) 3,016.14 Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.	3,016.14	197.20
32 31 11 00-0012	EA	500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100) 3,275.84 Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.	3,275.84	197.20
32 31 11 00-0013	EA	700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500) 4,425.95 Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.	4,425.95	197.20
		<i>For 208/230/460 Volt AC, Add</i>	322.50	
32 31 11 00-0014	EA	800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500) 5,007.19 Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.	5,007.19	197.20
		<i>For 208/230/460 Volt AC, Add</i>	322.50	
32 31 11 00-0015		Dual Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0016	EA	400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050) 5,352.13 Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.	5,352.13	394.39
32 31 11 00-0017	EA	500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100) 5,871.53 Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.	5,871.53	394.39
32 31 11 00-0018	EA	700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500) 8,159.38 Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.	8,159.38	394.39
		<i>For 208/230/460 Volt AC, Add</i>	322.50	
32 31 11 00-0019	EA	800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500) 9,433.16 Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity.	9,433.16	394.39
		<i>For 208/230/460 Volt AC, Add</i>	322.50	
32 31 11 00-0020		Sliding Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
		Note: Includes 20' of chain. See CSI section 32 31 11 00-0029 for additional chain over 20'.		
32 31 11 00-0021	EA	300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050) 1,975.17 Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	1,975.17	197.20
32 31 11 00-0022	EA	1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100) 2,772.60 Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	2,772.60	236.63
32 31 11 00-0023	EA	1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150) 3,443.24 Note: Includes operator, chain brackets, hardware and 20' of #40 chain.	3,443.24	236.63
32 31 11 00-0024	EA	3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210) 4,504.11 Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	4,504.11	276.08
32 31 11 00-0025	EA	2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220) 5,538.80 Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	5,538.80	276.08
32 31 11 00-0026	EA	5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230) 7,572.11 Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	7,572.11	315.52
32 31 11 00-0027	EA	5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530) 12,702.47 Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	12,702.47	315.52
32 31 11 00-0028	EA	10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550) 21,576.24 Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	21,576.24	354.96
32 31 11 00-0029		Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0030	EA	Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410) 522.80	522.80	
32 31 11 00-0031	EA	Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409) 1,019.61	1,019.61	
32 31 11 00-0032	EA	Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601) 652.43	652.43	
32 31 11 00-0033	EA	Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031) 718.93	718.93	
32 31 11 00-0034	EA	Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020) 644.73	644.73	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0035 EA Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310)	465.41	
32 31 11 00-0036 LF #40 Chain For Sliding Gate Operators.....	6.28	
32 31 11 00-0037 LF #41 Chain For Sliding Gate Operators.....	6.57	
32 31 11 00-0038 LF #50 Chain For Sliding Gate Operators.....	8.43	
32 31 11 00-0039 LF #60 Chain For Sliding Gate Operators.....	13.03	
32 31 11 00-0040 EA Exterior Keypad Gate Operator (Linear AK-11)	688.88	173.30
32 31 11 00-0041 Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		
32 31 11 00-0042 EA Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U).....	2,855.35	236.63
Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL).		
For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add		197.09
For Plug-In Loop Detector Option (Liftmaster LOOPDETLN), Add		141.08
For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add		69.48
For 10 Watt Solar Panel (Liftmaster SP10W12V), Add		279.26
For Each Additional 10' Chain, Add		41.83
32 31 13 Chain Link Fences and Gates (32 31)		
32 31 13 13 Chain Link Fences and Gates (32 31 13)		
32 31 13 13-0001 Post Holes (32 31 13 13)		
Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0027 for core drilling in concrete, 02 41 19 13-0165 for core drilling in asphalt.		
32 31 13 13-0002 Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)		
32 31 13 13-0003 VLF Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	8.95	
32 31 13 13-0004 VLF 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	10.07	
32 31 13 13-0005 VLF 3" Diameter Hole, Auger By Machine Fence Post Hole In Soil	11.94	
32 31 13 13-0006 VLF 4" Diameter Hole, Auger By Machine Fence Post Hole In Soil	13.44	
32 31 13 13-0007 VLF 6" Diameter Hole, Auger By Machine Fence Post Hole In Soil	14.66	
32 31 13 13-0008 VLF 8" Diameter Hole, Auger By Machine Fence Post Hole In Soil	16.12	
32 31 13 13-0009 VLF 10" Diameter Hole, Auger By Machine Fence Post Hole In Soil	17.92	
32 31 13 13-0010 VLF 12" Diameter Hole, Auger By Machine Fence Post Hole In Soil	20.16	
32 31 13 13-0011 VLF 18" Diameter Hole, Auger By Machine Fence Post Hole In Soil	23.03	
32 31 13 13-0012 VLF 24" Diameter Hole, Auger By Machine Fence Post Hole In Soil	26.87	
32 31 13 13-0013 VLF 30" Diameter Hole, Auger By Machine Fence Post Hole In Soil	32.25	
32 31 13 13-0014 VLF 36" Diameter Hole, Auger By Machine Fence Post Hole In Soil	40.31	
32 31 13 13-0015 Post Hole In Rock (32 31 13 13-0001)		
32 31 13 13-0016 CF Jackhammer Post Hole In Rock.....	65.43	
32 31 13 13-0017 CF Rock Drill Post Hole In Rock.....	19.11	
32 31 13 13-0018 Fill For Post Holes (32 31 13 13-0001)		
32 31 13 13-0019 Concrete Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0020 VLF Up To 2-1/2" Diameter, Concrete Fill For Post Hole	6.21	
32 31 13 13-0021 VLF 2-1/2" Diameter, Concrete Fill For Post Hole	7.96	
32 31 13 13-0022 VLF 3" Diameter, Concrete Fill For Post Hole	8.88	
32 31 13 13-0023 VLF 4" Diameter, Concrete Fill For Post Hole	10.48	
32 31 13 13-0024 VLF 6" Diameter, Concrete Fill For Post Hole	14.96	
32 31 13 13-0025 VLF 8" Diameter, Concrete Fill For Post Hole	19.97	
32 31 13 13-0026 VLF 10" Diameter, Concrete Fill For Post Hole	24.53	
32 31 13 13-0027 VLF 12" Diameter, Concrete Fill For Post Hole	28.77	
32 31 13 13-0028 VLF 18" Diameter, Concrete Fill For Post Hole	40.02	
32 31 13 13-0029 VLF 24" Diameter, Concrete Fill For Post Hole	50.48	
32 31 13 13-0030 VLF 30" Diameter, Concrete Fill For Post Hole	60.76	
32 31 13 13-0031 VLF 36" Diameter, Concrete Fill For Post Hole	71.54	
32 31 13 13-0032 Grout Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0033 VLF Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	7.12	
32 31 13 13-0034 VLF 2-1/2" Diameter, Grout Fill For Post Hole	9.13	
32 31 13 13-0035 VLF 3" Diameter, Grout Fill For Post Hole.....	10.07	
32 31 13 13-0036 VLF 4" Diameter, Grout Fill For Post Hole.....	11.62	
32 31 13 13-0037 VLF 6" Diameter, Grout Fill For Post Hole.....	16.41	
32 31 13 13-0038 VLF 8" Diameter, Grout Fill For Post Hole.....	21.91	
32 31 13 13-0039 VLF 10" Diameter, Grout Fill For Post Hole.....	26.81	
32 31 13 13-0040 VLF 12" Diameter, Grout Fill For Post Hole.....	31.30	
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole.....	42.76	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole.....	53.19	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole.....	63.36	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole.....	73.93	
32 31 13 13-0045 Compacted Earth Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	4.39	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	5.71	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole.....	5.97	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole.....	6.15	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole.....	8.21	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole.....	10.95	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole.....	13.14	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole.....	14.90	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole.....	18.16	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole.....	20.38	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole.....	22.35	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole.....	24.10	
32 31 13 13-0058 Fence Posts (32 31 13 13) Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0059 Fence Posts (32 31 13 13-0058)		
32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059) Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length	18.11	3.11
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length	17.23	2.64
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length	16.14	2.19
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length	15.28	1.73
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0065 LF 1-7/8" Galvanized H-beam Post, 21' To 24' In Length	14.71	1.49
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0066 LF 1-7/8" Galvanized H-beam Post, >24' In Length	13.80	1.04
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059) Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0068 LF Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	12.38	2.88
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.66	
For Vinyl Coated, Add	3.97	
For Powder Coated, Add	5.30	
For Aluminum Coated, Add	8.28	
For Schedule 20, Deduct	-1.32	
For Schedule 80, Add	3.75	
32 31 13 13-0069 LF 7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	11.49	2.42
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.66	
For Vinyl Coated, Add	3.97	
For Powder Coated, Add	5.30	
For Aluminum Coated, Add	8.28	
For Schedule 20, Deduct	-1.32	
For Schedule 80, Add	3.66	
32 31 13 13-0070 LF 11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	10.50	1.96
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.66	
For Vinyl Coated, Add	3.97	
For Powder Coated, Add	5.30	
For Aluminum Coated, Add	8.28	
For Schedule 20, Deduct	-1.32	
For Schedule 80, Add	3.57	
32 31 13 13-0071 LF 16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	9.73	1.49
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.66	
For Vinyl Coated, Add	3.97	
For Powder Coated, Add	5.30	
For Aluminum Coated, Add	8.28	
For Schedule 20, Deduct	-1.32	
For Schedule 80, Add	3.49	



Exterior Improvements			32
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Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0072	LF	21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	9.22	1.27	
		For Each Top Rail Fitting, Add	0.85		
		For Each Single Barbed Wire Arm, Add	1.90		
		For Each Double Barbed Wire Arm, Add	3.40		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	1.66		
		For Vinyl Coated, Add	3.97		
		For Powder Coated, Add	5.30		
		For Aluminum Coated, Add	8.28		
		For Schedule 20, Deduct	-1.32		
		For Schedule 80, Add	3.44		
32 31 13 13-0073	LF	>24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	8.65	1.04	
		For Each Top Rail Fitting, Add	0.85		
		For Each Single Barbed Wire Arm, Add	1.90		
		For Each Double Barbed Wire Arm, Add	3.40		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	1.66		
		For Vinyl Coated, Add	3.97		
		For Powder Coated, Add	5.30		
		For Aluminum Coated, Add	8.28		
		For Schedule 20, Deduct	-1.32		
		For Schedule 80, Add	3.38		
32 31 13 13-0074		Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)			
		Note: 2" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0075	LF	2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	14.05	3.00	
		For Each Top Rail Fitting, Add	1.35		
		For Each Single Barbed Wire Arm, Add	2.65		
		For Each Double Barbed Wire Arm, Add	4.88		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.02		
		For Vinyl Coated, Add	4.85		
		For Powder Coated, Add	6.47		
		For Aluminum Coated, Add	10.11		
		For Schedule 20, Deduct	-1.62		
		For Schedule 80, Add	4.48		
32 31 13 13-0076	LF	2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	13.24	2.53	
		For Each Top Rail Fitting, Add	1.35		
		For Each Single Barbed Wire Arm, Add	2.65		
		For Each Double Barbed Wire Arm, Add	4.88		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.02		
		For Vinyl Coated, Add	4.85		
		For Powder Coated, Add	6.47		
		For Aluminum Coated, Add	10.11		
		For Schedule 20, Deduct	-1.62		
		For Schedule 80, Add	4.40		
32 31 13 13-0077	LF	2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	12.20	2.07	
		For Each Top Rail Fitting, Add	1.35		
		For Each Single Barbed Wire Arm, Add	2.65		
		For Each Double Barbed Wire Arm, Add	4.88		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.02		
		For Vinyl Coated, Add	4.85		
		For Powder Coated, Add	6.47		
		For Aluminum Coated, Add	10.11		
		For Schedule 20, Deduct	-1.62		
		For Schedule 80, Add	4.29		
32 31 13 13-0078	LF	2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	11.38	1.61	
		For Each Top Rail Fitting, Add	1.35		
		For Each Single Barbed Wire Arm, Add	2.65		
		For Each Double Barbed Wire Arm, Add	4.88		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.02		
		For Vinyl Coated, Add	4.85		
		For Powder Coated, Add	6.47		
		For Aluminum Coated, Add	10.11		
		For Schedule 20, Deduct	-1.62		
		For Schedule 80, Add	4.21		
32 31 13 13-0079	LF	2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	10.83	1.38	
		For Each Top Rail Fitting, Add	1.35		
		For Each Single Barbed Wire Arm, Add	2.65		
		For Each Double Barbed Wire Arm, Add	4.88		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.02		
		For Vinyl Coated, Add	4.85		
		For Powder Coated, Add	6.47		
		For Aluminum Coated, Add	10.11		
		For Schedule 20, Deduct	-1.62		
		For Schedule 80, Add	4.16		
32 31 13 13-0080	LF	2" Outside Diameter Galvanized Steel Post, >24' In Length.....	10.32	1.15	
		For Each Top Rail Fitting, Add	1.35		
		For Each Single Barbed Wire Arm, Add	2.65		
		For Each Double Barbed Wire Arm, Add	4.88		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.02		
		For Vinyl Coated, Add	4.85		
		For Powder Coated, Add	6.47		
		For Aluminum Coated, Add	10.11		
		For Schedule 20, Deduct	-1.62		
		For Schedule 80, Add	4.11		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 31 13 13-0081 Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)				
Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.				
32 31 13 13-0082	LF	2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	17.03	3.23
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
		For Vinyl Coated, Add	6.45	
		For Powder Coated, Add	8.60	
		For Aluminum Coated, Add	13.44	
		For Schedule 20, Deduct	-2.15	
		For Schedule 80, Add	5.79	
32 31 13 13-0083	LF	2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	16.15	2.76
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
		For Vinyl Coated, Add	6.45	
		For Powder Coated, Add	8.60	
		For Aluminum Coated, Add	13.44	
		For Schedule 20, Deduct	-2.15	
		For Schedule 80, Add	5.70	
32 31 13 13-0084	LF	2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	15.06	2.19
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
		For Vinyl Coated, Add	6.45	
		For Powder Coated, Add	8.60	
		For Aluminum Coated, Add	13.44	
		For Schedule 20, Deduct	-2.15	
		For Schedule 80, Add	5.59	
32 31 13 13-0085	LF	2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	14.20	1.73
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
		For Vinyl Coated, Add	6.45	
		For Powder Coated, Add	8.60	
		For Aluminum Coated, Add	13.44	
		For Schedule 20, Deduct	-2.15	
		For Schedule 80, Add	5.51	
32 31 13 13-0086	LF	2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length	13.63	1.49
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
		For Vinyl Coated, Add	6.45	
		For Powder Coated, Add	8.60	
		For Aluminum Coated, Add	13.44	
		For Schedule 20, Deduct	-2.15	
		For Schedule 80, Add	5.45	
32 31 13 13-0087	LF	2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length	13.08	1.15
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.69	
		For Vinyl Coated, Add	6.45	
		For Powder Coated, Add	8.60	
		For Aluminum Coated, Add	13.44	
		For Schedule 20, Deduct	-2.15	
		For Schedule 80, Add	5.39	
32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0059)				
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.				
32 31 13 13-0089	LF	3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	22.97	3.45
		For Each Top Rail Fitting, Add	1.85	
		For Each Single Barbed Wire Arm, Add	3.85	
		For Each Double Barbed Wire Arm, Add	7.05	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	4.02	
		For Vinyl Coated, Add	9.64	
		For Powder Coated, Add	12.85	
		For Aluminum Coated, Add	20.08	
		For Schedule 20, Deduct	-3.21	
		For Schedule 80, Add	8.40	
32 31 13 13-0090	LF	3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	22.02	3.00
		For Each Top Rail Fitting, Add	1.85	
		For Each Single Barbed Wire Arm, Add	3.85	
		For Each Double Barbed Wire Arm, Add	7.05	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	4.02	
		For Vinyl Coated, Add	9.64	
		For Powder Coated, Add	12.85	
		For Aluminum Coated, Add	20.08	
		For Schedule 20, Deduct	-3.21	
		For Schedule 80, Add	8.30	



Exterior Improvements		32	32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0091	LF		3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	20.86	2.42
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.02	
			For Vinyl Coated, Add	9.64	
			For Powder Coated, Add	12.85	
			For Aluminum Coated, Add	20.08	
			For Schedule 20, Deduct	-3.21	
			For Schedule 80, Add	8.19	
32 31 13 13-0092	LF		3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	19.90	1.96
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.02	
			For Vinyl Coated, Add	9.64	
			For Powder Coated, Add	12.85	
			For Aluminum Coated, Add	20.08	
			For Schedule 20, Deduct	-3.21	
			For Schedule 80, Add	8.09	
32 31 13 13-0093	LF		3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	19.26	1.61
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.02	
			For Vinyl Coated, Add	9.64	
			For Powder Coated, Add	12.85	
			For Aluminum Coated, Add	20.08	
			For Schedule 20, Deduct	-3.21	
			For Schedule 80, Add	8.03	
32 31 13 13-0094	LF		3" Outside Diameter Galvanized Steel Post, >24' In Length	18.66	1.27
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.02	
			For Vinyl Coated, Add	9.64	
			For Powder Coated, Add	12.85	
			For Aluminum Coated, Add	20.08	
			For Schedule 20, Deduct	-3.21	
			For Schedule 80, Add	7.97	
32 31 13 13-0095			Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) (32 31 13 13-0059)		
			Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096	LF		4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	33.38	3.68
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	6.53	
			For Vinyl Coated, Add	15.66	
			For Powder Coated, Add	20.88	
			For Aluminum Coated, Add	32.63	
			For Schedule 20, Deduct	-5.22	
			For Schedule 80, Add	13.26	
32 31 13 13-0097	LF		4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	32.16	3.00
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	6.53	
			For Vinyl Coated, Add	15.66	
			For Powder Coated, Add	20.88	
			For Aluminum Coated, Add	32.63	
			For Schedule 20, Deduct	-5.22	
			For Schedule 80, Add	13.13	
32 31 13 13-0098	LF		4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	31.15	2.53
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	6.53	
			For Vinyl Coated, Add	15.66	
			For Powder Coated, Add	20.88	
			For Aluminum Coated, Add	32.63	
			For Schedule 20, Deduct	-5.22	
			For Schedule 80, Add	13.03	
32 31 13 13-0099	LF		4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	30.15	2.07
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	6.53	
			For Vinyl Coated, Add	15.66	
			For Powder Coated, Add	20.88	
			For Aluminum Coated, Add	32.63	
			For Schedule 20, Deduct	-5.22	
			For Schedule 80, Add	12.93	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0100 LF 4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	30.14	2.07
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	6.53	
For Vinyl Coated, Add	15.66	
For Powder Coated, Add	20.88	
For Aluminum Coated, Add	32.63	
For Schedule 20, Deduct	-5.22	
For Schedule 80, Add	12.93	
32 31 13 13-0101 LF 4" Outside Diameter Galvanized Steel Post, >24' In Length	28.98	1.49
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	6.53	
For Vinyl Coated, Add	15.66	
For Powder Coated, Add	20.88	
For Aluminum Coated, Add	32.63	
For Schedule 20, Deduct	-5.22	
For Schedule 80, Add	12.82	
32 31 13 13-0102 Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) (32 31 13 13-0059)		
Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0103 LF 6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	63.44	4.03
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	13.84	
For Vinyl Coated, Add	33.22	
For Powder Coated, Add	44.29	
For Aluminum Coated, Add	69.20	
For Schedule 20, Deduct	-11.07	
For Schedule 80, Add	27.38	
32 31 13 13-0104 LF 6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	62.13	3.34
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	13.84	
For Vinyl Coated, Add	33.22	
For Powder Coated, Add	44.29	
For Aluminum Coated, Add	69.20	
For Schedule 20, Deduct	-11.07	
For Schedule 80, Add	27.25	
32 31 13 13-0105 LF 6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	60.98	2.76
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	13.84	
For Vinyl Coated, Add	33.22	
For Powder Coated, Add	44.29	
For Aluminum Coated, Add	69.20	
For Schedule 20, Deduct	-11.07	
For Schedule 80, Add	27.13	
32 31 13 13-0106 LF 6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	59.85	2.19
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	13.84	
For Vinyl Coated, Add	33.22	
For Powder Coated, Add	44.29	
For Aluminum Coated, Add	69.20	
For Schedule 20, Deduct	-11.07	
For Schedule 80, Add	27.02	
32 31 13 13-0107 LF 6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	59.20	1.96
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	13.84	
For Vinyl Coated, Add	33.22	
For Powder Coated, Add	44.29	
For Aluminum Coated, Add	69.20	
For Schedule 20, Deduct	-11.07	
For Schedule 80, Add	26.96	
32 31 13 13-0108 LF 6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	58.56	1.61
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	13.84	
For Vinyl Coated, Add	33.22	
For Powder Coated, Add	44.29	
For Aluminum Coated, Add	69.20	
For Schedule 20, Deduct	-11.07	
For Schedule 80, Add	26.89	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0109		Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) (32 31 13 13-0059) Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0110	LF	8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	122.40 7.50 9.15 18.95 28.36 68.06 90.74 141.79 -22.69 55.34	4.49
32 31 13 13-0111	LF	8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	120.94 7.50 9.15 18.95 28.36 68.06 90.74 141.79 -22.69 55.20	3.80
32 31 13 13-0112	LF	8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	119.66 7.50 9.15 18.95 28.36 68.06 90.74 141.79 -22.69 55.07	3.11
32 31 13 13-0113	LF	8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	118.36 7.50 9.15 18.95 28.36 68.06 90.74 141.79 -22.69 54.94	2.42
32 31 13 13-0114	LF	8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	117.70 7.50 9.15 18.95 28.36 68.06 90.74 141.79 -22.69 54.87	2.07
32 31 13 13-0115	LF	8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	116.99 7.50 9.15 18.95 28.36 68.06 90.74 141.79 -22.69 54.80	1.73
32 31 13 13-0116		Driven Post Supports (32 31 13 13) Note: OZ-Post.		
32 31 13 13-0117		Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)		
32 31 13 13-0118	EA	26" Driven Post Support For 1-5/8" Round Chain Link Fence Post..... Note: OZ-Post GB-700.	67.47	
32 31 13 13-0119	EA	26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post..... Note: OZ-Post HB-700.	67.47	
32 31 13 13-0120	EA	26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post IS-600.	69.05	
32 31 13 13-0121	EA	32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post ISW-850.	83.26	
32 31 13 13-0122		Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)		
32 31 13 13-0123	EA	34" Driven Post Support For 1-3/4" Square Ornamental Fence Post..... Note: OZ-Post C175-850.	78.51	
32 31 13 13-0124	EA	24" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-600.	76.14	
32 31 13 13-0125	EA	34" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-850.	78.99	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0126	EA	34" Driven Post Support For 2-1/2" Square Ornamental Fence Post..... Note: OZ-Post I25-850.	83.26	
32 31 13 13-0127	EA	34" Driven Post Support For 3" Square Ornamental Fence Post..... Note: OZ-Post I3-850.	83.26	
32 31 13 13-0128		Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13 13-0129	EA	24" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-600.	75.91	
32 31 13 13-0130	EA	34" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-850.	80.88	
32 31 13 13-0131	EA	34" Driven Post Support For 3-3/4" Square Wooden Fence Post..... Note: OZ-Post C4-850.	86.42	
32 31 13 13-0132	EA	34" Driven Post Support For 4" Square Wooden Fence Post..... Note: OZ-Post P4-850.	86.43	
32 31 13 13-0133	EA	36" Driven Post Support For 4" x 6" Wooden Fence Post..... Note: OZ-Post T46-850.	96.72	
32 31 13 13-0134	EA	36" Driven Post Support For 6" Square Wooden Fence Post..... Note: OZ-Post T6-850.	104.00	
32 31 13 13-0135		Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		
32 31 13 13-0136	EA	24" Driven Post Support For 3-1/2" Square Vinyl Fence Post..... Note: OZ-Post T4-600.	75.91	
32 31 13 13-0137	EA	34" Driven Post Support For 3-1/2" Square Vinyl Fence Post..... Note: OZ-Post T4-850.	80.88	
32 31 13 13-0138	EA	34" Driven Post Support For 4" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	86.43	
32 31 13 13-0139	EA	34" Driven Post Support For 5" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	87.69	
32 31 13 13-0140		Chain Link Fence Assemblies (32 31 13 13)		
32 31 13 13-0141		Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140) Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0653 for barb wire attachments.		
32 31 13 13-0142		Galvanized (32 31 13 13-0141)		
32 31 13 13-0143	LF	3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	35.81 2.56 -7.11 -4.16 6.53 8.90 3.56 -1.78 -2.37 1.97 7.44 6.91 2.56 -1.28 -2.56	3.92
32 31 13 13-0144	LF	3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	37.21 2.64 -7.52 -4.39 6.90 9.41 3.76 -1.88 -2.51 2.05 7.71 7.14 2.64 -1.32 -2.64	3.92



Exterior Improvements		32	32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0145	LF		4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post 38.44		3.92
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.71	
			For 13 Gauge Fabric, Deduct	-7.86	
			For 11 Gauge Fabric, Deduct	-4.59	
			For 6 Gauge Fabric, Add	7.21	
			For 1" Mesh Fabric, Add	9.84	
			For 1-3/4" Mesh Fabric, Add	3.93	
			For 2-1/8" Mesh Fabric, Deduct	-1.97	
			For 2-3/8" Mesh Fabric, Deduct	-2.62	
			For Posts 8' On Centers, Add	2.11	
			For Posts 5' On Centers, Add	7.95	
			For Up To 100, Add	7.35	
			For >100 To 250, Add	2.71	
			For >2,500 To 5,000, Deduct	-1.36	
			For >5,000, Deduct	-2.71	
32 31 13 13-0146	LF		5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post 41.31		3.92
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.88	
			For 13 Gauge Fabric, Deduct	-8.68	
			For 11 Gauge Fabric, Deduct	-5.07	
			For 6 Gauge Fabric, Add	7.97	
			For 1" Mesh Fabric, Add	10.87	
			For 1-3/4" Mesh Fabric, Add	4.35	
			For 2-1/8" Mesh Fabric, Deduct	-2.17	
			For 2-3/8" Mesh Fabric, Deduct	-2.90	
			For Posts 8' On Centers, Add	2.26	
			For Posts 5' On Centers, Add	8.50	
			For Up To 100, Add	7.83	
			For >100 To 250, Add	2.88	
			For >2,500 To 5,000, Deduct	-1.44	
			For >5,000, Deduct	-2.88	
32 31 13 13-0147	LF		6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post 44.75		3.92
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.11	
			For 13 Gauge Fabric, Deduct	-9.51	
			For 11 Gauge Fabric, Deduct	-5.55	
			For 6 Gauge Fabric, Add	8.73	
			For 1" Mesh Fabric, Add	11.90	
			For 1-3/4" Mesh Fabric, Add	4.76	
			For 2-1/8" Mesh Fabric, Deduct	-2.38	
			For 2-3/8" Mesh Fabric, Deduct	-3.17	
			For Posts 8' On Centers, Add	2.45	
			For Posts 5' On Centers, Add	9.19	
			For Up To 100, Add	8.45	
			For >100 To 250, Add	3.11	
			For >2,500 To 5,000, Deduct	-1.55	
			For >5,000, Deduct	-3.11	
32 31 13 13-0148	LF		7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post 46.49		5.87
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.23	
			For 13 Gauge Fabric, Deduct	-9.88	
			For 11 Gauge Fabric, Deduct	-5.77	
			For 6 Gauge Fabric, Add	9.07	
			For 1" Mesh Fabric, Add	12.37	
			For 1-3/4" Mesh Fabric, Add	4.95	
			For 2-1/8" Mesh Fabric, Deduct	-2.47	
			For 2-3/8" Mesh Fabric, Deduct	-3.30	
			For Posts 8' On Centers, Add	2.54	
			For Posts 5' On Centers, Add	9.54	
			For Up To 100, Add	8.78	
			For >100 To 250, Add	3.23	
			For >2,500 To 5,000, Deduct	-1.61	
			For >5,000, Deduct	-3.23	
32 31 13 13-0149	LF		8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post 52.62		6.86
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.59	
			For 13 Gauge Fabric, Deduct	-11.61	
			For 11 Gauge Fabric, Deduct	-6.78	
			For 6 Gauge Fabric, Add	10.65	
			For 1" Mesh Fabric, Add	14.53	
			For 1-3/4" Mesh Fabric, Add	5.81	
			For 2-1/8" Mesh Fabric, Deduct	-2.91	
			For 2-3/8" Mesh Fabric, Deduct	-3.87	
			For Posts 8' On Centers, Add	2.86	
			For Posts 5' On Centers, Add	10.72	
			For Up To 100, Add	9.82	
			For >100 To 250, Add	3.59	
			For >2,500 To 5,000, Deduct	-1.80	
			For >5,000, Deduct	-3.59	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0150	LF		9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	56.12	8.81
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.81	
			For 13 Gauge Fabric, Deduct	-12.51	
			For 11 Gauge Fabric, Deduct	-7.31	
			For 6 Gauge Fabric, Add	11.48	
			For 1" Mesh Fabric, Add	15.66	
			For 1-3/4" Mesh Fabric, Add	6.26	
			For 2-1/8" Mesh Fabric, Deduct	-3.13	
			For 2-3/8" Mesh Fabric, Deduct	-4.17	
			For Posts 8' On Centers, Add	3.05	
			For Posts 5' On Centers, Add	11.41	
			For Up To 100, Add	10.43	
			For >100 To 250, Add	3.81	
			For >2,500 To 5,000, Deduct	-1.91	
			For >5,000, Deduct	-3.81	
32 31 13 13-0151	LF		10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	59.63	9.79
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.03	
			For 13 Gauge Fabric, Deduct	-13.41	
			For 11 Gauge Fabric, Deduct	-7.83	
			For 6 Gauge Fabric, Add	12.31	
			For 1" Mesh Fabric, Add	16.78	
			For 1-3/4" Mesh Fabric, Add	6.71	
			For 2-1/8" Mesh Fabric, Deduct	-3.36	
			For 2-3/8" Mesh Fabric, Deduct	-4.48	
			For Posts 8' On Centers, Add	3.23	
			For Posts 5' On Centers, Add	12.10	
			For Up To 100, Add	11.05	
			For >100 To 250, Add	4.03	
			For >2,500 To 5,000, Deduct	-2.02	
			For >5,000, Deduct	-4.03	
32 31 13 13-0152	LF		12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	66.22	11.75
			For Each Additional Foot >12, Add	4.03	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.45	
			For 13 Gauge Fabric, Deduct	-15.08	
			For 11 Gauge Fabric, Deduct	-8.81	
			For 6 Gauge Fabric, Add	13.84	
			For 1" Mesh Fabric, Add	18.88	
			For 1-3/4" Mesh Fabric, Add	7.55	
			For 2-1/8" Mesh Fabric, Deduct	-3.78	
			For 2-3/8" Mesh Fabric, Deduct	-5.03	
			For Posts 8' On Centers, Add	3.58	
			For Posts 5' On Centers, Add	13.40	
			For Up To 100, Add	12.22	
			For >100 To 250, Add	4.45	
			For >2,500 To 5,000, Deduct	-2.23	
			For >5,000, Deduct	-4.45	
32 31 13 13-0153			Vinyl Coated (32 31 13 13-0141)		
32 31 13 13-0154	LF		4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	39.82	3.92
			For Powder Coated Framework (Posts, Rails, Hardware), Add	3.60	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.78	
			For 13 Gauge Fabric, Deduct	-8.34	
			For 11 Gauge Fabric, Deduct	-4.87	
			For 6 Gauge Fabric, Add	7.65	
			For 1" Mesh Fabric, Add	10.44	
			For 1-3/4" Mesh Fabric, Add	4.17	
			For 2-1/8" Mesh Fabric, Deduct	-2.09	
			For 2-3/8" Mesh Fabric, Deduct	-2.78	
			For Posts 8' On Centers, Add	2.18	
			For Posts 5' On Centers, Add	8.20	
			For Up To 100, Add	7.56	
			For >100 To 250, Add	2.78	
			For >2,500 To 5,000, Deduct	-1.39	
			For >5,000, Deduct	-2.78	
32 31 13 13-0155	LF		5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	43.05	3.92
			For Powder Coated Framework (Posts, Rails, Hardware), Add	4.01	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.97	
			For 13 Gauge Fabric, Deduct	-9.29	
			For 11 Gauge Fabric, Deduct	-5.42	
			For 6 Gauge Fabric, Add	8.52	
			For 1" Mesh Fabric, Add	11.62	
			For 1-3/4" Mesh Fabric, Add	4.65	
			For 2-1/8" Mesh Fabric, Deduct	-2.32	
			For 2-3/8" Mesh Fabric, Deduct	-3.10	
			For Posts 8' On Centers, Add	2.35	
			For Posts 5' On Centers, Add	8.81	
			For Up To 100, Add	8.09	
			For >100 To 250, Add	2.97	
			For >2,500 To 5,000, Deduct	-1.48	
			For >5,000, Deduct	-2.97	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0156	LF		6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	48.29	3.92
			For Powder Coated Framework (Posts, Rails, Hardware), Add	4.64	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.28	
			For 13 Gauge Fabric, Deduct	-10.74	
			For 11 Gauge Fabric, Deduct	-6.27	
			For 6 Gauge Fabric, Add	9.86	
			For 1" Mesh Fabric, Add	13.44	
			For 1-3/4" Mesh Fabric, Add	5.38	
			For 2-1/8" Mesh Fabric, Deduct	-2.69	
			For 2-3/8" Mesh Fabric, Deduct	-3.58	
			For Posts 8' On Centers, Add	2.62	
			For Posts 5' On Centers, Add	9.82	
			For Up To 100, Add	8.98	
			For >100 To 250, Add	3.28	
			For >2,500 To 5,000, Deduct	-1.64	
			For >5,000, Deduct	-3.28	
32 31 13 13-0157	LF		7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	50.60	5.87
			For Powder Coated Framework (Posts, Rails, Hardware), Add	4.88	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.43	
			For 13 Gauge Fabric, Deduct	-11.31	
			For 11 Gauge Fabric, Deduct	-6.61	
			For 6 Gauge Fabric, Add	10.38	
			For 1" Mesh Fabric, Add	14.16	
			For 1-3/4" Mesh Fabric, Add	5.66	
			For 2-1/8" Mesh Fabric, Deduct	-2.83	
			For 2-3/8" Mesh Fabric, Deduct	-3.78	
			For Posts 8' On Centers, Add	2.75	
			For Posts 5' On Centers, Add	10.28	
			For Up To 100, Add	9.40	
			For >100 To 250, Add	3.43	
			For >2,500 To 5,000, Deduct	-1.72	
			For >5,000, Deduct	-3.43	
32 31 13 13-0158	LF		8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	57.41	6.86
			For Powder Coated Framework (Posts, Rails, Hardware), Add	5.73	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.83	
			For 13 Gauge Fabric, Deduct	-13.27	
			For 11 Gauge Fabric, Deduct	-7.75	
			For 6 Gauge Fabric, Add	12.18	
			For 1" Mesh Fabric, Add	16.61	
			For 1-3/4" Mesh Fabric, Add	6.65	
			For 2-1/8" Mesh Fabric, Deduct	-3.32	
			For 2-3/8" Mesh Fabric, Deduct	-4.43	
			For Posts 8' On Centers, Add	3.10	
			For Posts 5' On Centers, Add	11.58	
			For Up To 100, Add	10.53	
			For >100 To 250, Add	3.83	
			For >2,500 To 5,000, Deduct	-1.92	
			For >5,000, Deduct	-3.83	
32 31 13 13-0159	LF		9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	61.27	8.81
			For Powder Coated Framework (Posts, Rails, Hardware), Add	6.17	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.07	
			For 13 Gauge Fabric, Deduct	-14.30	
			For 11 Gauge Fabric, Deduct	-8.35	
			For 6 Gauge Fabric, Add	13.12	
			For 1" Mesh Fabric, Add	17.90	
			For 1-3/4" Mesh Fabric, Add	7.16	
			For 2-1/8" Mesh Fabric, Deduct	-3.58	
			For 2-3/8" Mesh Fabric, Deduct	-4.77	
			For Posts 8' On Centers, Add	3.31	
			For Posts 5' On Centers, Add	12.34	
			For Up To 100, Add	11.20	
			For >100 To 250, Add	4.07	
			For >2,500 To 5,000, Deduct	-2.04	
			For >5,000, Deduct	-4.07	
32 31 13 13-0160	LF		10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	65.13	9.79
			For Powder Coated Framework (Posts, Rails, Hardware), Add	6.61	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.31	
			For 13 Gauge Fabric, Deduct	-15.32	
			For 11 Gauge Fabric, Deduct	-8.95	
			For 6 Gauge Fabric, Add	14.06	
			For 1" Mesh Fabric, Add	19.17	
			For 1-3/4" Mesh Fabric, Add	7.67	
			For 2-1/8" Mesh Fabric, Deduct	-3.83	
			For 2-3/8" Mesh Fabric, Deduct	-5.11	
			For Posts 8' On Centers, Add	3.51	
			For Posts 5' On Centers, Add	13.09	
			For Up To 100, Add	11.87	
			For >100 To 250, Add	4.31	
			For >2,500 To 5,000, Deduct	-2.15	
			For >5,000, Deduct	-4.31	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....		71.05	11.75
		For Each Additional Foot >12, Add		4.28	
		For Powder Coated Framework (Posts, Rails, Hardware), Add		7.23	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		4.69	
		For 13 Gauge Fabric, Deduct		-16.76	
		For 11 Gauge Fabric, Deduct		-9.79	
		For 6 Gauge Fabric, Add		15.39	
		For 1" Mesh Fabric, Add		20.98	
		For 1-3/4" Mesh Fabric, Add		8.39	
		For 2-1/8" Mesh Fabric, Deduct		-4.20	
		For 2-3/8" Mesh Fabric, Deduct		-5.59	
		For Posts 8' On Centers, Add		3.83	
		For Posts 5' On Centers, Add		14.27	
		For Up To 100, Add		12.94	
		For >100 To 250, Add		4.69	
		For >2,500 To 5,000, Deduct		-2.35	
		For >5,000, Deduct		-4.69	
32 31 13 13-0162		Rails (32 31 13 13)			
		Note: Includes rail end fittings.			
32 31 13 13-0163		SS-20 Chain Link Fence Rails (32 31 13 13-0162)			
		Note: Includes tie wires.			
32 31 13 13-0164	LF	1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....		6.43	1.27
		For SS15, Deduct		-0.38	
		For SS40, Add		0.95	
32 31 13 13-0165	LF	1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....		7.71	1.27
		For SS40, Add		0.51	
		For Powder Coated, Add		1.01	
		For Aluminum Coated, Add		2.03	
32 31 13 13-0166	LF	1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....		7.93	1.44
		For SS15, Deduct		-0.51	
		For SS40, Add		1.26	
32 31 13 13-0167	LF	1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....		9.63	1.44
		For SS40, Add		0.68	
		For Powder Coated, Add		1.35	
		For Aluminum Coated, Add		2.70	
32 31 13 13-0168	LF	2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....		9.29	1.61
		For SS40, Add		1.52	
32 31 13 13-0169	LF	2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....		11.34	1.61
		For SS40, Add		0.81	
		For Powder Coated, Add		1.62	
		For Aluminum Coated, Add		3.24	
32 31 13 13-0170		Fabric (32 31 13 13)			
32 31 13 13-0171		Fabric, Galvanized Chain Link (32 31 13 13-0170)			
32 31 13 13-0172	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....		10.89	2.30
		For 1-1/4" Mesh Fabric, Add		0.95	
		For 2 Oz Galvanized Or Zinc Coating, Add		0.85	
		For 13 Gauge Fabric, Deduct		-1.53	
		For 11 Gauge Fabric, Deduct		-0.85	
		For 6 Gauge Fabric, Add		2.72	
		For 1" Mesh Fabric, Add		2.55	
		For 1-1/4" Mesh Fabric, Add		1.70	
		For 1-3/4" Mesh Fabric, Add		1.02	
		For 2-1/8" Mesh Fabric, Deduct		-0.51	
		For 2-3/8" Mesh Fabric, Deduct		-0.68	
32 31 13 13-0173	LF	3-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....		12.03	2.59
		For 1-1/4" Mesh Fabric, Add		1.11	
		For 2 Oz Galvanized Or Zinc Coating, Add		0.99	
		For 13 Gauge Fabric, Deduct		-1.79	
		For 11 Gauge Fabric, Deduct		-0.99	
		For 6 Gauge Fabric, Add		3.18	
		For 1" Mesh Fabric, Add		2.98	
		For 1-1/4" Mesh Fabric, Add		1.99	
		For 1-3/4" Mesh Fabric, Add		1.19	
		For 2-1/8" Mesh Fabric, Deduct		-0.60	
		For 2-3/8" Mesh Fabric, Deduct		-0.79	
32 31 13 13-0174	LF	4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....		13.00	2.88
		For 1-1/4" Mesh Fabric, Add		1.22	
		For 2 Oz Galvanized Or Zinc Coating, Add		1.09	
		For 13 Gauge Fabric, Deduct		-1.96	
		For 11 Gauge Fabric, Deduct		-1.09	
		For 6 Gauge Fabric, Add		3.49	
		For 1" Mesh Fabric, Add		3.27	
		For 1-1/4" Mesh Fabric, Add		2.18	
		For 1-3/4" Mesh Fabric, Add		1.31	
		For 2-1/8" Mesh Fabric, Deduct		-0.65	
		For 2-3/8" Mesh Fabric, Deduct		-0.87	



Exterior Improvements		32	
Site Improvements		32 30	
Fences and Gates		32 31	32

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0175	LF	5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	14.65	3.45
		For 1-1/4" Mesh Fabric, Add	1.52	
		For 2 Oz Galvanized Or Zinc Coating, Add	1.36	
		For 13 Gauge Fabric, Deduct	-2.45	
		For 11 Gauge Fabric, Deduct	-1.36	
		For 6 Gauge Fabric, Add	4.35	
		For 1" Mesh Fabric, Add	4.08	
		For 1-1/4" Mesh Fabric, Add	2.72	
		For 1-3/4" Mesh Fabric, Add	1.63	
		For 2-1/8" Mesh Fabric, Deduct	-0.82	
		For 2-3/8" Mesh Fabric, Deduct	-1.09	
32 31 13 13-0176	LF	6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	16.41	4.03
		For 1-1/4" Mesh Fabric, Add	1.83	
		For 2 Oz Galvanized Or Zinc Coating, Add	1.64	
		For 13 Gauge Fabric, Deduct	-2.94	
		For 11 Gauge Fabric, Deduct	-1.64	
		For 6 Gauge Fabric, Add	5.23	
		For 1" Mesh Fabric, Add	4.91	
		For 1-1/4" Mesh Fabric, Add	3.27	
		For 1-3/4" Mesh Fabric, Add	1.96	
		For 2-1/8" Mesh Fabric, Deduct	-0.98	
		For 2-3/8" Mesh Fabric, Deduct	-1.31	
32 31 13 13-0177	LF	7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	18.25	4.60
		For 1-1/4" Mesh Fabric, Add	2.13	
		For 2 Oz Galvanized Or Zinc Coating, Add	1.91	
		For 13 Gauge Fabric, Deduct	-3.43	
		For 11 Gauge Fabric, Deduct	-1.91	
		For 6 Gauge Fabric, Add	6.10	
		For 1" Mesh Fabric, Add	5.72	
		For 1-1/4" Mesh Fabric, Add	3.81	
		For 1-3/4" Mesh Fabric, Add	2.29	
		For 2-1/8" Mesh Fabric, Deduct	-1.14	
		For 2-3/8" Mesh Fabric, Deduct	-1.52	
32 31 13 13-0178	LF	8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	20.22	5.76
		For 1-1/4" Mesh Fabric, Add	2.44	
		For 2 Oz Galvanized Or Zinc Coating, Add	2.18	
		For 13 Gauge Fabric, Deduct	-3.92	
		For 11 Gauge Fabric, Deduct	-2.18	
		For 6 Gauge Fabric, Add	6.97	
		For 1" Mesh Fabric, Add	6.53	
		For 1-1/4" Mesh Fabric, Add	4.36	
		For 1-3/4" Mesh Fabric, Add	2.61	
		For 2-1/8" Mesh Fabric, Deduct	-1.31	
		For 2-3/8" Mesh Fabric, Deduct	-1.74	
32 31 13 13-0179	LF	10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	24.02	6.34
		For 1-1/4" Mesh Fabric, Add	3.17	
		For 2 Oz Galvanized Or Zinc Coating, Add	2.83	
		For 13 Gauge Fabric, Deduct	-5.09	
		For 11 Gauge Fabric, Deduct	-2.83	
		For 6 Gauge Fabric, Add	9.05	
		For 1" Mesh Fabric, Add	8.48	
		For 1-1/4" Mesh Fabric, Add	5.66	
		For 1-3/4" Mesh Fabric, Add	3.39	
		For 2-1/8" Mesh Fabric, Deduct	-1.70	
		For 2-3/8" Mesh Fabric, Deduct	-2.26	
32 31 13 13-0180	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	27.37	6.91
		For 1-1/4" Mesh Fabric, Add	3.80	
		For 2 Oz Galvanized Or Zinc Coating, Add	3.39	
		For 13 Gauge Fabric, Deduct	-6.10	
		For 11 Gauge Fabric, Deduct	-3.39	
		For 6 Gauge Fabric, Add	10.85	
		For 1" Mesh Fabric, Add	10.17	
		For 1-1/4" Mesh Fabric, Add	6.78	
		For 1-3/4" Mesh Fabric, Add	4.07	
		For 2-1/8" Mesh Fabric, Deduct	-2.03	
		For 2-3/8" Mesh Fabric, Deduct	-2.71	
32 31 13 13-0181	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	30.70	8.06
		For 1-1/4" Mesh Fabric, Add	4.08	
		For 2 Oz Galvanized Or Zinc Coating, Add	3.64	
		For 13 Gauge Fabric, Deduct	-6.56	
		For 11 Gauge Fabric, Deduct	-3.64	
		For 6 Gauge Fabric, Add	11.66	
		For 1" Mesh Fabric, Add	10.93	
		For 1-1/4" Mesh Fabric, Add	7.29	
		For 1-3/4" Mesh Fabric, Add	4.37	
		For 2-1/8" Mesh Fabric, Deduct	-2.19	
		For 2-3/8" Mesh Fabric, Deduct	-2.91	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0182	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	34.00	9.21
		For 1-1/4" Mesh Fabric, Add	4.36	
		For 2 Oz Galvanized Or Zinc Coating, Add	3.89	
		For 13 Gauge Fabric, Deduct	-7.01	
		For 11 Gauge Fabric, Deduct	-3.89	
		For 6 Gauge Fabric, Add	12.46	
		For 1" Mesh Fabric, Add	11.68	
		For 1-1/4" Mesh Fabric, Add	7.79	
		For 1-3/4" Mesh Fabric, Add	4.67	
		For 2-1/8" Mesh Fabric, Deduct	-2.34	
		For 2-3/8" Mesh Fabric, Deduct	-3.11	
32 31 13 13-0183		Fabric, Vinyl Coated Chain Link (32 31 13 13-0170)		
32 31 13 13-0184	LF	4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	14.39	2.30
		For 1-1/4" Mesh Fabric, Add	1.61	
		For 13 Gauge Fabric, Deduct	-2.59	
		For 11 Gauge Fabric, Deduct	-1.44	
		For 6 Gauge Fabric, Add	4.60	
		For 1" Mesh Fabric, Add	4.31	
		For 1-1/4" Mesh Fabric, Add	2.88	
		For 1-3/4" Mesh Fabric, Add	1.73	
		For 2-1/8" Mesh Fabric, Deduct	-0.86	
		For 2-3/8" Mesh Fabric, Deduct	-1.15	
		For Aluminum Coated, Add	2.30	
32 31 13 13-0185	LF	5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	16.39	3.45
		For 1-1/4" Mesh Fabric, Add	2.01	
		For 13 Gauge Fabric, Deduct	-3.23	
		For 11 Gauge Fabric, Deduct	-1.80	
		For 6 Gauge Fabric, Add	5.74	
		For 1" Mesh Fabric, Add	5.39	
		For 1-1/4" Mesh Fabric, Add	3.59	
		For 1-3/4" Mesh Fabric, Add	2.15	
		For 2-1/8" Mesh Fabric, Deduct	-1.08	
		For 2-3/8" Mesh Fabric, Deduct	-1.44	
		For Aluminum Coated, Add	2.87	
32 31 13 13-0186	LF	6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	19.95	4.03
		For 1-1/4" Mesh Fabric, Add	2.82	
		For 13 Gauge Fabric, Deduct	-4.54	
		For 11 Gauge Fabric, Deduct	-2.52	
		For 6 Gauge Fabric, Add	8.06	
		For 1" Mesh Fabric, Add	7.56	
		For 1-1/4" Mesh Fabric, Add	5.04	
		For 1-3/4" Mesh Fabric, Add	3.02	
		For 2-1/8" Mesh Fabric, Deduct	-1.51	
		For 2-3/8" Mesh Fabric, Deduct	-2.02	
		For Aluminum Coated, Add	4.03	
32 31 13 13-0187	LF	7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	22.36	4.60
		For 1-1/4" Mesh Fabric, Add	3.28	
		For 13 Gauge Fabric, Deduct	-5.28	
		For 11 Gauge Fabric, Deduct	-2.93	
		For 6 Gauge Fabric, Add	9.38	
		For 1" Mesh Fabric, Add	8.80	
		For 1-1/4" Mesh Fabric, Add	5.87	
		For 1-3/4" Mesh Fabric, Add	3.52	
		For 2-1/8" Mesh Fabric, Deduct	-1.76	
		For 2-3/8" Mesh Fabric, Deduct	-2.35	
		For Aluminum Coated, Add	4.69	
32 31 13 13-0188	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	25.02	5.76
		For 1-1/4" Mesh Fabric, Add	3.78	
		For 13 Gauge Fabric, Deduct	-6.08	
		For 11 Gauge Fabric, Deduct	-3.38	
		For 6 Gauge Fabric, Add	10.81	
		For 1" Mesh Fabric, Add	10.13	
		For 1-1/4" Mesh Fabric, Add	6.76	
		For 1-3/4" Mesh Fabric, Add	4.05	
		For 2-1/8" Mesh Fabric, Deduct	-2.03	
		For 2-3/8" Mesh Fabric, Deduct	-2.70	
		For Aluminum Coated, Add	5.40	
32 31 13 13-0189	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	29.52	6.34
		For 1-1/4" Mesh Fabric, Add	4.71	
		For 13 Gauge Fabric, Deduct	-7.56	
		For 11 Gauge Fabric, Deduct	-4.20	
		For 6 Gauge Fabric, Add	13.45	
		For 1" Mesh Fabric, Add	12.61	
		For 1-1/4" Mesh Fabric, Add	8.41	
		For 1-3/4" Mesh Fabric, Add	5.04	
		For 2-1/8" Mesh Fabric, Deduct	-2.52	
		For 2-3/8" Mesh Fabric, Deduct	-3.36	
		For Aluminum Coated, Add	6.72	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0190	LF	12'	Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	32.20	6.91
			For 1-1/4" Mesh Fabric, Add	5.15	
			For 13 Gauge Fabric, Deduct	-8.28	
			For 11 Gauge Fabric, Deduct	-4.60	
			For 6 Gauge Fabric, Add	14.71	
			For 1" Mesh Fabric, Add	13.79	
			For 1-1/4" Mesh Fabric, Add	9.20	
			For 1-3/4" Mesh Fabric, Add	5.52	
			For 2-1/8" Mesh Fabric, Deduct	-2.76	
			For 2-3/8" Mesh Fabric, Deduct	-3.68	
			For Aluminum Coated, Add	7.36	
32 31 13 13-0191	LF	14'	Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	36.37	8.06
			For 1-1/4" Mesh Fabric, Add	5.67	
			For 13 Gauge Fabric, Deduct	-9.11	
			For 11 Gauge Fabric, Deduct	-5.06	
			For 6 Gauge Fabric, Add	16.19	
			For 1" Mesh Fabric, Add	15.18	
			For 1-1/4" Mesh Fabric, Add	10.12	
			For 1-3/4" Mesh Fabric, Add	6.07	
			For 2-1/8" Mesh Fabric, Deduct	-3.04	
			For 2-3/8" Mesh Fabric, Deduct	-4.05	
			For Aluminum Coated, Add	8.10	
32 31 13 13-0192	LF	16'	Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	40.61	9.21
			For 1-1/4" Mesh Fabric, Add	6.21	
			For 13 Gauge Fabric, Deduct	-9.98	
			For 11 Gauge Fabric, Deduct	-5.55	
			For 6 Gauge Fabric, Add	17.74	
			For 1" Mesh Fabric, Add	16.64	
			For 1-1/4" Mesh Fabric, Add	11.09	
			For 1-3/4" Mesh Fabric, Add	6.65	
			For 2-1/8" Mesh Fabric, Deduct	-3.33	
			For 2-3/8" Mesh Fabric, Deduct	-4.44	
			For Aluminum Coated, Add	8.87	
32 31 13 13-0193 Fabric, Aluminized Steel Chain Link (32 31 13 13-0170)					
32 31 13 13-0194	LF	3'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	10.87	2.30
			For 6 Gauge Fabric, Add	2.70	
			For 1" Mesh Fabric, Add	3.55	
32 31 13 13-0195	LF	3'-6"	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	11.98	2.59
			For 6 Gauge Fabric, Add	3.14	
			For 1" Mesh Fabric, Add	4.12	
32 31 13 13-0196	LF	4'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	13.13	2.88
			For 6 Gauge Fabric, Add	3.59	
			For 1" Mesh Fabric, Add	4.71	
32 31 13 13-0197	LF	5'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	14.82	3.45
			For 6 Gauge Fabric, Add	4.49	
			For 1" Mesh Fabric, Add	5.89	
32 31 13 13-0198	LF	6'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	16.58	4.03
			For 6 Gauge Fabric, Add	5.37	
			For 1" Mesh Fabric, Add	7.05	
32 31 13 13-0199	LF	7'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	18.48	4.60
			For 6 Gauge Fabric, Add	6.28	
			For 1" Mesh Fabric, Add	8.24	
32 31 13 13-0200	LF	8'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	20.47	5.76
			For 6 Gauge Fabric, Add	7.17	
			For 1" Mesh Fabric, Add	9.41	
32 31 13 13-0201	LF	10'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	23.91	6.34
			For 6 Gauge Fabric, Add	8.96	
			For 1" Mesh Fabric, Add	11.76	
32 31 13 13-0202	LF	12'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	27.25	6.91
			For 6 Gauge Fabric, Add	10.75	
			For 1" Mesh Fabric, Add	14.11	
32 31 13 13-0203 Fabric, All Aluminum Chain Link (32 31 13 13-0170)					
32 31 13 13-0204	LF	3'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	16.32	2.30
			For 6 Gauge Fabric, Add	7.06	
			For 1" Mesh Fabric, Add	9.27	
32 31 13 13-0205	LF	3'-6"	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	18.36	2.59
			For 6 Gauge Fabric, Add	8.24	
			For 1" Mesh Fabric, Add	10.82	
32 31 13 13-0206	LF	4'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	20.41	2.88
			For 6 Gauge Fabric, Add	9.42	
			For 1" Mesh Fabric, Add	12.36	
32 31 13 13-0207	LF	5'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	23.92	3.45
			For 6 Gauge Fabric, Add	11.77	
			For 1" Mesh Fabric, Add	15.45	
32 31 13 13-0208	LF	6'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	27.53	4.03
			For 6 Gauge Fabric, Add	14.13	
			For 1" Mesh Fabric, Add	18.54	
32 31 13 13-0209	LF	7'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	31.23	4.60
			For 6 Gauge Fabric, Add	16.48	
			For 1" Mesh Fabric, Add	21.63	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0210	LF	8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	35.05 18.83 24.72	5.76
32 31 13 13-0211	LF	10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	42.14 23.54 30.90	6.34
32 31 13 13-0212	LF	12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	49.12 28.25 37.08	6.91
32 31 13 13-0213		Fence Inserts (32 31 13 13-0170) Note: For use with new or existing chain link fence, per lf of fence.		
32 31 13 13-0214		Vinyl Plastic Fence Inserts (32 31 13 13-0213) Note: Assorted colors.		
32 31 13 13-0215	LF	3' High Fence, Vinyl Plastic Fence Insert.....	8.05	
32 31 13 13-0216	LF	3-1/2' High Fence, Vinyl Plastic Fence Insert.....	9.19	
32 31 13 13-0217	LF	4' High Fence, Vinyl Plastic Fence Insert.....	10.13	
32 31 13 13-0218	LF	5' High Fence, Vinyl Plastic Fence Insert.....	12.71	
32 31 13 13-0219	LF	6' High Fence, Vinyl Plastic Fence Insert.....	15.20	
32 31 13 13-0220	LF	7' High Fence, Vinyl Plastic Fence Insert.....	17.79	
32 31 13 13-0221	LF	8' High Fence, Vinyl Plastic Fence Insert.....	20.28	
32 31 13 13-0222	LF	10' High Fence, Vinyl Plastic Fence Insert.....	24.57	
32 31 13 13-0223		Aluminum Fence Inserts (32 31 13 13-0213) Note: Assorted colors.		
32 31 13 13-0224	LF	3' High Fence, Aluminum Fence Insert.....	21.64	
32 31 13 13-0225	LF	3-1/2' High Fence, Aluminum Fence Insert.....	23.80	
32 31 13 13-0226	LF	4' High Fence, Aluminum Fence Insert.....	27.31	
32 31 13 13-0227	LF	5' High Fence, Aluminum Fence Insert.....	34.18	
32 31 13 13-0228	LF	6' High Fence, Aluminum Fence Insert.....	41.01	
32 31 13 13-0229	LF	7' High Fence, Aluminum Fence Insert.....	44.88	
32 31 13 13-0230	LF	8' High Fence, Aluminum Fence Insert.....	54.67	
32 31 13 13-0231	LF	10' High Fence, Aluminum Fence Insert.....	67.59	
32 31 13 13-0232		Redwood Fence Inserts (32 31 13 13-0213)		
32 31 13 13-0233	LF	4' High Fence, Redwood Fence Insert.....	12.79	
32 31 13 13-0234	LF	5' High Fence, Redwood Fence Insert.....	16.17	
32 31 13 13-0235	LF	6' High Fence, Redwood Fence Insert.....	19.42	
32 31 13 13-0236	LF	7' High Fence, Redwood Fence Insert.....	22.60	
32 31 13 13-0237	LF	8' High Fence, Redwood Fence Insert.....	25.87	
32 31 13 13-0238		Diagonal Flexible Polyethylene Inserts (32 31 13 13-0213)		
32 31 13 13-0239	SF	Diagonal Polyethylene Fence Weave	3.21	
32 31 13 13-0240		Hedge Link Fence Inserts (32 31 13 13-0213)		
32 31 13 13-0241	LF	3' High Fence, Hedge Link Fence Insert.....	17.08	
32 31 13 13-0242	LF	3-1/2' High Fence, Hedge Link Fence Insert.....	19.44	
32 31 13 13-0243	LF	4' High Fence, Hedge Link Fence Insert.....	22.82	
32 31 13 13-0244	LF	5' High Fence, Hedge Link Fence Insert.....	28.15	
32 31 13 13-0245	LF	6' High Fence, Hedge Link Fence Insert.....	32.23	
32 31 13 13-0246	LF	7' High Fence, Hedge Link Fence Insert.....	40.66	
32 31 13 13-0247	LF	8' High Fence, Hedge Link Fence Insert.....	46.18	
32 31 13 13-0248	LF	10' High Fence, Hedge Link Fence Insert.....	55.16	
32 31 13 13-0249	LF	12' High Fence, Hedge Link Fence Insert.....	63.27	
32 31 13 13-0250		Fence Windscreen Fabric (32 31 13 13-0170) Note: Includes plastic wire clips.		
32 31 13 13-0251	SF	Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY..... <i>For Sewn Boxed Vent (Each), Add</i> <i>For Welded Boxed Vent (Each), Add</i> <i>For 4' x 4' One Color Logo (Each), Add</i>	1.38 22.74 11.37 473.68	0.50
32 31 13 13-0252		Non-Climbable Fabric, Galvanized Chain Link (32 31 13 13-0170)		
32 31 13 13-0253	LF	3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh..... <i>For 11 Gauge, Deduct</i> <i>For 10 Gauge, Deduct</i> <i>For 7 Gauge, Add</i> <i>For 6 Gauge, Add</i> <i>For 1/2" Mesh Fabric, Deduct</i> <i>For 5/8" Mesh Fabric, Deduct</i> <i>For 3/4" Mesh Fabric, Deduct</i>	27.60 -4.02 -1.61 2.41 5.63 -1.01 -2.21 -3.22	2.30



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0254	LF		3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	31.52	2.59
			For 11 Gauge, Deduct	-4.69	
			For 10 Gauge, Deduct	-1.88	
			For 7 Gauge, Add	2.82	
			For 6 Gauge, Add	6.57	
			For 1/2" Mesh Fabric, Deduct	-1.17	
			For 5/8" Mesh Fabric, Deduct	-2.58	
			For 3/4" Mesh Fabric, Deduct	-3.75	
32 31 13 13-0255	LF		4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	35.48	2.88
			For 11 Gauge, Deduct	-5.37	
			For 10 Gauge, Deduct	-2.15	
			For 7 Gauge, Add	3.22	
			For 6 Gauge, Add	7.52	
			For 1/2" Mesh Fabric, Deduct	-1.34	
			For 5/8" Mesh Fabric, Deduct	-2.95	
			For 3/4" Mesh Fabric, Deduct	-4.29	
32 31 13 13-0256	LF		5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	42.74	3.45
			For 11 Gauge, Deduct	-6.71	
			For 10 Gauge, Deduct	-2.68	
			For 7 Gauge, Add	4.02	
			For 6 Gauge, Add	9.39	
			For 1/2" Mesh Fabric, Deduct	-1.68	
			For 5/8" Mesh Fabric, Deduct	-3.69	
			For 3/4" Mesh Fabric, Deduct	-5.36	
32 31 13 13-0257	LF		6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	50.09	4.03
			For 11 Gauge, Deduct	-8.04	
			For 10 Gauge, Deduct	-3.22	
			For 7 Gauge, Add	4.83	
			For 6 Gauge, Add	11.26	
			For 1/2" Mesh Fabric, Deduct	-2.01	
			For 5/8" Mesh Fabric, Deduct	-4.42	
			For 3/4" Mesh Fabric, Deduct	-6.44	
32 31 13 13-0258	LF		7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	57.56	4.60
			For 11 Gauge, Deduct	-9.39	
			For 10 Gauge, Deduct	-3.75	
			For 7 Gauge, Add	5.63	
			For 6 Gauge, Add	13.14	
			For 1/2" Mesh Fabric, Deduct	-2.35	
			For 5/8" Mesh Fabric, Deduct	-5.16	
			For 3/4" Mesh Fabric, Deduct	-7.51	
32 31 13 13-0259	LF		8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	65.15	5.76
			For 11 Gauge, Deduct	-10.73	
			For 10 Gauge, Deduct	-4.29	
			For 7 Gauge, Add	6.44	
			For 6 Gauge, Add	15.02	
			For 1/2" Mesh Fabric, Deduct	-2.68	
			For 5/8" Mesh Fabric, Deduct	-5.90	
			For 3/4" Mesh Fabric, Deduct	-8.58	
32 31 13 13-0260	LF		9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	71.80	6.05
			For 11 Gauge, Deduct	-11.94	
			For 10 Gauge, Deduct	-4.78	
			For 7 Gauge, Add	7.17	
			For 6 Gauge, Add	16.72	
			For 1/2" Mesh Fabric, Deduct	-2.99	
			For 5/8" Mesh Fabric, Deduct	-6.57	
			For 3/4" Mesh Fabric, Deduct	-9.55	
32 31 13 13-0261	LF		10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	78.48	6.34
			For 11 Gauge, Deduct	-13.15	
			For 10 Gauge, Deduct	-5.26	
			For 7 Gauge, Add	7.89	
			For 6 Gauge, Add	18.42	
			For 1/2" Mesh Fabric, Deduct	-3.29	
			For 5/8" Mesh Fabric, Deduct	-7.23	
			For 3/4" Mesh Fabric, Deduct	-10.52	
32 31 13 13-0262	LF		12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	85.11	6.91
			For 11 Gauge, Deduct	-14.26	
			For 10 Gauge, Deduct	-5.70	
			For 7 Gauge, Add	8.56	
			For 6 Gauge, Add	19.96	
			For 1/2" Mesh Fabric, Deduct	-3.57	
			For 5/8" Mesh Fabric, Deduct	-7.84	
			For 3/4" Mesh Fabric, Deduct	-11.41	
32 31 13 13-0263			Gates (32 31 13 13) Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0264			Galvanized Steel Without Barbed Wire (32 31 13 13-0263) Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0265			4' Fence Height (32 31 13 13-0264)		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0266	EA		3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	341.06	21.55
			For Gate With Single Barb Wire Arm, Add	30.11	
			For Gate With Double Barb Wire Arm, Add	43.79	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-51.32	
			For Aluminized Steel Gate And Post, Add	131.38	
			For Powder Coated Gate And Post, Add	71.16	
			For 1" Mesh Fabric, Add	119.06	
			For 1-1/4" Mesh Fabric, Add	76.64	
			For 1-3/4" Mesh Fabric, Add	47.63	
			For 2-1/8" Mesh Fabric, Deduct	-23.81	
32 31 13 13-0267	EA		4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	432.30	22.45
			For Gate With Single Barb Wire Arm, Add	40.14	
			For Gate With Double Barb Wire Arm, Add	58.39	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.43	
			For Aluminized Steel Gate And Post, Add	175.18	
			For Powder Coated Gate And Post, Add	94.89	
			For 1" Mesh Fabric, Add	158.75	
			For 1-1/4" Mesh Fabric, Add	102.19	
			For 1-3/4" Mesh Fabric, Add	63.50	
			For 2-1/8" Mesh Fabric, Deduct	-31.75	
32 31 13 13-0268	EA		5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	512.45	23.89
			For Gate With Single Barb Wire Arm, Add	48.47	
			For Gate With Double Barb Wire Arm, Add	70.50	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-82.61	
			For Aluminized Steel Gate And Post, Add	211.49	
			For Powder Coated Gate And Post, Add	114.56	
			For 1" Mesh Fabric, Add	191.67	
			For 1-1/4" Mesh Fabric, Add	123.37	
			For 1-3/4" Mesh Fabric, Add	76.67	
			For 2-1/8" Mesh Fabric, Deduct	-38.33	
32 31 13 13-0269	EA		6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	602.50	28.73
			For Gate With Single Barb Wire Arm, Add	56.79	
			For Gate With Double Barb Wire Arm, Add	82.60	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-96.80	
			For Aluminized Steel Gate And Post, Add	247.81	
			For Powder Coated Gate And Post, Add	134.23	
			For 1" Mesh Fabric, Add	224.58	
			For 1-1/4" Mesh Fabric, Add	144.56	
			For 1-3/4" Mesh Fabric, Add	89.83	
			For 2-1/8" Mesh Fabric, Deduct	-44.92	
32 31 13 13-0270	EA		7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	692.53	33.50
			For Gate With Single Barb Wire Arm, Add	65.11	
			For Gate With Double Barb Wire Arm, Add	94.71	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-110.99	
			For Aluminized Steel Gate And Post, Add	284.13	
			For Powder Coated Gate And Post, Add	153.90	
			For 1" Mesh Fabric, Add	257.49	
			For 1-1/4" Mesh Fabric, Add	165.74	
			For 1-3/4" Mesh Fabric, Add	103.00	
			For 2-1/8" Mesh Fabric, Deduct	-51.50	
32 31 13 13-0271	EA		8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	785.66	38.25
			For Gate With Single Barb Wire Arm, Add	73.78	
			For Gate With Double Barb Wire Arm, Add	107.31	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-125.76	
			For Aluminized Steel Gate And Post, Add	321.94	
			For Powder Coated Gate And Post, Add	174.38	
			For 1" Mesh Fabric, Add	291.76	
			For 1-1/4" Mesh Fabric, Add	187.80	
			For 1-3/4" Mesh Fabric, Add	116.70	
			For 2-1/8" Mesh Fabric, Deduct	-58.35	
32 31 13 13-0272	EA		9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	875.69	43.11
			For Gate With Single Barb Wire Arm, Add	82.10	
			For Gate With Double Barb Wire Arm, Add	119.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.94	
			For Aluminized Steel Gate And Post, Add	358.26	
			For Powder Coated Gate And Post, Add	194.06	
			For 1" Mesh Fabric, Add	324.67	
			For 1-1/4" Mesh Fabric, Add	208.98	
			For 1-3/4" Mesh Fabric, Add	129.87	
			For 2-1/8" Mesh Fabric, Deduct	-64.93	
32 31 13 13-0273	EA		10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	967.05	47.87
			For Gate With Single Barb Wire Arm, Add	90.57	
			For Gate With Double Barb Wire Arm, Add	131.74	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-154.38	
			For Aluminized Steel Gate And Post, Add	395.21	
			For Powder Coated Gate And Post, Add	214.07	
			For 1" Mesh Fabric, Add	358.16	
			For 1-1/4" Mesh Fabric, Add	230.54	
			For 1-3/4" Mesh Fabric, Add	143.26	
			For 2-1/8" Mesh Fabric, Deduct	-71.63	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0274 EA 10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,238.54	47.87
For Gate With Single Barb Wire Arm, Add	120.43	
For Gate With Double Barb Wire Arm, Add	175.18	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-205.28	
For Aluminized Steel Gate And Post, Add	525.53	
For Powder Coated Gate And Post, Add	284.66	
For 1" Mesh Fabric, Add	476.26	
For 1-1/4" Mesh Fabric, Add	306.56	
For 1-3/4" Mesh Fabric, Add	190.50	
For 2-1/8" Mesh Fabric, Deduct	-95.25	
32 31 13 13-0275 EA 12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,467.78	51.27
For Gate With Single Barb Wire Arm, Add	144.52	
For Gate With Double Barb Wire Arm, Add	210.21	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-246.34	
For Aluminized Steel Gate And Post, Add	630.63	
For Powder Coated Gate And Post, Add	341.59	
For 1" Mesh Fabric, Add	571.51	
For 1-1/4" Mesh Fabric, Add	367.87	
For 1-3/4" Mesh Fabric, Add	228.60	
For 2-1/8" Mesh Fabric, Deduct	-114.30	
32 31 13 13-0276 EA 14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,698.58	55.23
For Gate With Single Barb Wire Arm, Add	168.61	
For Gate With Double Barb Wire Arm, Add	245.25	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-287.40	
For Aluminized Steel Gate And Post, Add	735.74	
For Powder Coated Gate And Post, Add	398.53	
For 1" Mesh Fabric, Add	666.76	
For 1-1/4" Mesh Fabric, Add	429.18	
For 1-3/4" Mesh Fabric, Add	266.71	
For 2-1/8" Mesh Fabric, Deduct	-133.35	
32 31 13 13-0277 EA 16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,931.37	59.81
For Gate With Single Barb Wire Arm, Add	192.69	
For Gate With Double Barb Wire Arm, Add	280.28	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-328.46	
For Aluminized Steel Gate And Post, Add	840.84	
For Powder Coated Gate And Post, Add	455.46	
For 1" Mesh Fabric, Add	762.02	
For 1-1/4" Mesh Fabric, Add	490.49	
For 1-3/4" Mesh Fabric, Add	304.81	
For 2-1/8" Mesh Fabric, Deduct	-152.40	
32 31 13 13-0278 EA 18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,196.07	75.00
For Gate With Single Barb Wire Arm, Add	216.78	
For Gate With Double Barb Wire Arm, Add	315.32	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-369.51	
For Aluminized Steel Gate And Post, Add	945.95	
For Powder Coated Gate And Post, Add	512.39	
For 1" Mesh Fabric, Add	857.27	
For 1-1/4" Mesh Fabric, Add	551.80	
For 1-3/4" Mesh Fabric, Add	342.91	
For 2-1/8" Mesh Fabric, Deduct	-171.45	
32 31 13 13-0279 EA 20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,431.14	80.38
For Gate With Single Barb Wire Arm, Add	240.87	
For Gate With Double Barb Wire Arm, Add	350.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-410.57	
For Aluminized Steel Gate And Post, Add	1,051.06	
For Powder Coated Gate And Post, Add	569.32	
For 1" Mesh Fabric, Add	952.52	
For 1-1/4" Mesh Fabric, Add	613.12	
For 1-3/4" Mesh Fabric, Add	381.01	
For 2-1/8" Mesh Fabric, Deduct	-190.50	
32 31 13 13-0280 EA 22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,663.33	86.62
For Gate With Single Barb Wire Arm, Add	264.37	
For Gate With Double Barb Wire Arm, Add	384.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-450.62	
For Aluminized Steel Gate And Post, Add	1,153.59	
For Powder Coated Gate And Post, Add	624.86	
For 1" Mesh Fabric, Add	1,045.44	
For 1-1/4" Mesh Fabric, Add	672.93	
For 1-3/4" Mesh Fabric, Add	418.18	
For 2-1/8" Mesh Fabric, Deduct	-209.09	
32 31 13 13-0281 EA 24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,898.62	93.80
For Gate With Single Barb Wire Arm, Add	287.86	
For Gate With Double Barb Wire Arm, Add	418.71	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-490.68	
For Aluminized Steel Gate And Post, Add	1,256.14	
For Powder Coated Gate And Post, Add	680.41	
For 1" Mesh Fabric, Add	1,138.37	
For 1-1/4" Mesh Fabric, Add	732.75	
For 1-3/4" Mesh Fabric, Add	455.35	
For 2-1/8" Mesh Fabric, Deduct	-227.67	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0282	EA	26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,137.86	102.35
		For Gate With Single Barb Wire Arm, Add	311.36	
		For Gate With Double Barb Wire Arm, Add	452.89	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-530.73	
		For Aluminized Steel Gate And Post, Add	1,358.68	
		For Powder Coated Gate And Post, Add	735.95	
		For 1" Mesh Fabric, Add	1,231.30	
		For 1-1/4" Mesh Fabric, Add	792.56	
		For 1-3/4" Mesh Fabric, Add	492.52	
		For 2-1/8" Mesh Fabric, Deduct	-246.26	
32 31 13 13-0283	EA	28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,302.11	112.60
		For Gate With Single Barb Wire Arm, Add	326.05	
		For Gate With Double Barb Wire Arm, Add	474.26	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-555.77	
		For Aluminized Steel Gate And Post, Add	1,422.77	
		For Powder Coated Gate And Post, Add	770.67	
		For 1" Mesh Fabric, Add	1,289.38	
		For 1-1/4" Mesh Fabric, Add	829.95	
		For 1-3/4" Mesh Fabric, Add	515.75	
		For 2-1/8" Mesh Fabric, Deduct	-257.88	
32 31 13 13-0284	EA	30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,660.12	125.07
		For Gate With Single Barb Wire Arm, Add	361.30	
		For Gate With Double Barb Wire Arm, Add	525.53	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-615.85	
		For Aluminized Steel Gate And Post, Add	1,576.58	
		For Powder Coated Gate And Post, Add	853.98	
		For 1" Mesh Fabric, Add	1,428.77	
		For 1-1/4" Mesh Fabric, Add	919.67	
		For 1-3/4" Mesh Fabric, Add	571.51	
		For 2-1/8" Mesh Fabric, Deduct	-285.75	
32 31 13 13-0285		5' Fence Height (32 31 13 13-0264)		
32 31 13 13-0286	EA	3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	410.09	23.89
		For Gate With Single Barb Wire Arm, Add	37.21	
		For Gate With Double Barb Wire Arm, Add	54.12	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-63.42	
		For Aluminized Steel Gate And Post, Add	162.36	
		For Powder Coated Gate And Post, Add	87.95	
		For 1" Mesh Fabric, Add	147.14	
		For 1-1/4" Mesh Fabric, Add	94.71	
		For 1-3/4" Mesh Fabric, Add	58.86	
		For 2-1/8" Mesh Fabric, Deduct	-29.43	
32 31 13 13-0287	EA	4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	521.35	23.89
		For Gate With Single Barb Wire Arm, Add	49.45	
		For Gate With Double Barb Wire Arm, Add	71.92	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.28	
		For Aluminized Steel Gate And Post, Add	215.76	
		For Powder Coated Gate And Post, Add	116.87	
		For 1" Mesh Fabric, Add	195.54	
		For 1-1/4" Mesh Fabric, Add	125.86	
		For 1-3/4" Mesh Fabric, Add	78.21	
		For 2-1/8" Mesh Fabric, Deduct	-39.11	
32 31 13 13-0288	EA	5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	610.42	25.41
		For Gate With Single Barb Wire Arm, Add	58.75	
		For Gate With Double Barb Wire Arm, Add	85.45	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.14	
		For Aluminized Steel Gate And Post, Add	256.35	
		For Powder Coated Gate And Post, Add	138.86	
		For 1" Mesh Fabric, Add	232.32	
		For 1-1/4" Mesh Fabric, Add	149.54	
		For 1-3/4" Mesh Fabric, Add	92.93	
		For 2-1/8" Mesh Fabric, Deduct	-46.46	
32 31 13 13-0289	EA	6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	714.69	30.53
		For Gate With Single Barb Wire Arm, Add	68.54	
		For Gate With Double Barb Wire Arm, Add	99.69	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-116.83	
		For Aluminized Steel Gate And Post, Add	299.08	
		For Powder Coated Gate And Post, Add	162.00	
		For 1" Mesh Fabric, Add	271.04	
		For 1-1/4" Mesh Fabric, Add	174.46	
		For 1-3/4" Mesh Fabric, Add	108.42	
		For 2-1/8" Mesh Fabric, Deduct	-54.21	
32 31 13 13-0290	EA	7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	810.06	35.56
		For Gate With Single Barb Wire Arm, Add	77.35	
		For Gate With Double Barb Wire Arm, Add	112.51	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.85	
		For Aluminized Steel Gate And Post, Add	337.53	
		For Powder Coated Gate And Post, Add	182.83	
		For 1" Mesh Fabric, Add	305.89	
		For 1-1/4" Mesh Fabric, Add	196.89	
		For 1-3/4" Mesh Fabric, Add	122.36	
		For 2-1/8" Mesh Fabric, Deduct	-61.18	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0291	EA		8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	915.25	40.96
			For Gate With Single Barb Wire Arm, Add	87.14	
			For Gate With Double Barb Wire Arm, Add	126.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-148.54	
			For Aluminized Steel Gate And Post, Add	380.26	
			For Powder Coated Gate And Post, Add	205.97	
			For 1" Mesh Fabric, Add	344.61	
			For 1-1/4" Mesh Fabric, Add	221.82	
			For 1-3/4" Mesh Fabric, Add	137.84	
			For 2-1/8" Mesh Fabric, Deduct	-68.92	
32 31 13 13-0292	EA		9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,015.06	46.07
			For Gate With Single Barb Wire Arm, Add	96.44	
			For Gate With Double Barb Wire Arm, Add	140.28	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-164.39	
			For Aluminized Steel Gate And Post, Add	420.85	
			For Powder Coated Gate And Post, Add	227.96	
			For 1" Mesh Fabric, Add	381.39	
			For 1-1/4" Mesh Fabric, Add	245.50	
			For 1-3/4" Mesh Fabric, Add	152.56	
			For 2-1/8" Mesh Fabric, Deduct	-76.28	
32 31 13 13-0293	EA		10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,114.90	51.10
			For Gate With Single Barb Wire Arm, Add	105.75	
			For Gate With Double Barb Wire Arm, Add	153.81	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-180.25	
			For Aluminized Steel Gate And Post, Add	461.44	
			For Powder Coated Gate And Post, Add	249.95	
			For 1" Mesh Fabric, Add	418.18	
			For 1-1/4" Mesh Fabric, Add	269.17	
			For 1-3/4" Mesh Fabric, Add	167.27	
			For 2-1/8" Mesh Fabric, Deduct	-83.64	
32 31 13 13-0294	EA		10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,510.50	51.27
			For Gate With Single Barb Wire Arm, Add	149.22	
			For Gate With Double Barb Wire Arm, Add	217.05	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-254.35	
			For Aluminized Steel Gate And Post, Add	651.14	
			For Powder Coated Gate And Post, Add	352.70	
			For 1" Mesh Fabric, Add	590.09	
			For 1-1/4" Mesh Fabric, Add	379.83	
			For 1-3/4" Mesh Fabric, Add	236.04	
			For 2-1/8" Mesh Fabric, Deduct	-118.02	
32 31 13 13-0295	EA		12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,794.71	55.23
			For Gate With Single Barb Wire Arm, Add	179.18	
			For Gate With Double Barb Wire Arm, Add	260.63	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-305.42	
			For Aluminized Steel Gate And Post, Add	781.88	
			For Powder Coated Gate And Post, Add	423.52	
			For 1" Mesh Fabric, Add	708.58	
			For 1-1/4" Mesh Fabric, Add	456.10	
			For 1-3/4" Mesh Fabric, Add	283.43	
			For 2-1/8" Mesh Fabric, Deduct	-141.72	
32 31 13 13-0296	EA		14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,080.91	59.81
			For Gate With Single Barb Wire Arm, Add	209.14	
			For Gate With Double Barb Wire Arm, Add	304.21	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-356.49	
			For Aluminized Steel Gate And Post, Add	912.62	
			For Powder Coated Gate And Post, Add	494.34	
			For 1" Mesh Fabric, Add	827.07	
			For 1-1/4" Mesh Fabric, Add	532.36	
			For 1-3/4" Mesh Fabric, Add	330.83	
			For 2-1/8" Mesh Fabric, Deduct	-165.41	
32 31 13 13-0297	EA		16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,399.01	75.00
			For Gate With Single Barb Wire Arm, Add	239.10	
			For Gate With Double Barb Wire Arm, Add	347.79	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-407.56	
			For Aluminized Steel Gate And Post, Add	1,043.36	
			For Powder Coated Gate And Post, Add	565.15	
			For 1" Mesh Fabric, Add	945.55	
			For 1-1/4" Mesh Fabric, Add	608.63	
			For 1-3/4" Mesh Fabric, Add	378.22	
			For 2-1/8" Mesh Fabric, Deduct	-189.11	
32 31 13 13-0298	EA		18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,682.15	80.38
			For Gate With Single Barb Wire Arm, Add	268.48	
			For Gate With Double Barb Wire Arm, Add	390.51	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-457.63	
			For Aluminized Steel Gate And Post, Add	1,171.54	
			For Powder Coated Gate And Post, Add	634.58	
			For 1" Mesh Fabric, Add	1,061.71	
			For 1-1/4" Mesh Fabric, Add	683.40	
			For 1-3/4" Mesh Fabric, Add	424.68	
			For 2-1/8" Mesh Fabric, Deduct	-212.34	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0299	EA	20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,978.44	86.62
		For Gate With Single Barb Wire Arm, Add	299.03	
		For Gate With Double Barb Wire Arm, Add	434.95	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-509.71	
		For Aluminized Steel Gate And Post, Add	1,304.85	
		For Powder Coated Gate And Post, Add	706.79	
		For 1" Mesh Fabric, Add	1,182.52	
		For 1-1/4" Mesh Fabric, Add	761.16	
		For 1-3/4" Mesh Fabric, Add	473.01	
		For 2-1/8" Mesh Fabric, Deduct	-236.50	
32 31 13 13-0300	EA	22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,272.47	93.80
		For Gate With Single Barb Wire Arm, Add	328.99	
		For Gate With Double Barb Wire Arm, Add	478.53	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-560.78	
		For Aluminized Steel Gate And Post, Add	1,435.58	
		For Powder Coated Gate And Post, Add	777.61	
		For 1" Mesh Fabric, Add	1,301.00	
		For 1-1/4" Mesh Fabric, Add	837.42	
		For 1-3/4" Mesh Fabric, Add	520.40	
		For 2-1/8" Mesh Fabric, Deduct	-260.20	
32 31 13 13-0301	EA	24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,565.12	102.35
		For Gate With Single Barb Wire Arm, Add	358.36	
		For Gate With Double Barb Wire Arm, Add	521.25	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-610.85	
		For Aluminized Steel Gate And Post, Add	1,563.76	
		For Powder Coated Gate And Post, Add	847.04	
		For 1" Mesh Fabric, Add	1,417.16	
		For 1-1/4" Mesh Fabric, Add	912.20	
		For 1-3/4" Mesh Fabric, Add	566.86	
		For 2-1/8" Mesh Fabric, Deduct	-283.43	
32 31 13 13-0302	EA	26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,873.57	112.60
		For Gate With Single Barb Wire Arm, Add	388.91	
		For Gate With Double Barb Wire Arm, Add	565.69	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-662.92	
		For Aluminized Steel Gate And Post, Add	1,697.07	
		For Powder Coated Gate And Post, Add	919.25	
		For 1" Mesh Fabric, Add	1,537.97	
		For 1-1/4" Mesh Fabric, Add	989.96	
		For 1-3/4" Mesh Fabric, Add	615.19	
		For 2-1/8" Mesh Fabric, Deduct	-307.59	
32 31 13 13-0303	EA	28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,180.15	125.07
		For Gate With Single Barb Wire Arm, Add	418.50	
		For Gate With Double Barb Wire Arm, Add	608.73	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-713.36	
		For Aluminized Steel Gate And Post, Add	1,826.19	
		For Powder Coated Gate And Post, Add	989.19	
		For 1" Mesh Fabric, Add	1,654.99	
		For 1-1/4" Mesh Fabric, Add	1,065.28	
		For 1-3/4" Mesh Fabric, Add	662.00	
		For 2-1/8" Mesh Fabric, Deduct	-331.00	
32 31 13 13-0304	EA	30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,492.15	140.70
		For Gate With Single Barb Wire Arm, Add	447.66	
		For Gate With Double Barb Wire Arm, Add	651.14	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-763.06	
		For Aluminized Steel Gate And Post, Add	1,953.42	
		For Powder Coated Gate And Post, Add	1,058.10	
		For 1" Mesh Fabric, Add	1,770.29	
		For 1-1/4" Mesh Fabric, Add	1,139.50	
		For 1-3/4" Mesh Fabric, Add	708.12	
		For 2-1/8" Mesh Fabric, Deduct	-354.06	
32 31 13 13-0305 6' Fence Height (32 31 13 13-0264)				
32 31 13 13-0306	EA	3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	439.69	25.60
		For Gate With Single Barb Wire Arm, Add	39.90	
		For Gate With Double Barb Wire Arm, Add	58.04	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.01	
		For Aluminized Steel Gate And Post, Add	174.11	
		For Powder Coated Gate And Post, Add	94.31	
		For 1" Mesh Fabric, Add	157.78	
		For 1-1/4" Mesh Fabric, Add	101.56	
		For 1-3/4" Mesh Fabric, Add	63.11	
		For 2-1/8" Mesh Fabric, Deduct	-31.56	
32 31 13 13-0307	EA	4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	559.86	25.60
		For Gate With Single Barb Wire Arm, Add	53.12	
		For Gate With Double Barb Wire Arm, Add	77.26	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.54	
		For Aluminized Steel Gate And Post, Add	231.79	
		For Powder Coated Gate And Post, Add	125.55	
		For 1" Mesh Fabric, Add	210.06	
		For 1-1/4" Mesh Fabric, Add	135.21	
		For 1-3/4" Mesh Fabric, Add	84.02	
		For 2-1/8" Mesh Fabric, Deduct	-42.01	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0308	EA	5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	.....	656.53	27.22
		For Gate With Single Barb Wire Arm, Add		63.23	
		For Gate With Double Barb Wire Arm, Add		91.97	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-107.78	
		For Aluminized Steel Gate And Post, Add		275.90	
		For Powder Coated Gate And Post, Add		149.45	
		For 1" Mesh Fabric, Add		250.04	
		For 1-1/4" Mesh Fabric, Add		160.94	
		For 1-3/4" Mesh Fabric, Add		100.02	
		For 2-1/8" Mesh Fabric, Deduct		-50.01	
32 31 13 13-0309	EA	6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	.....	761.93	32.87
		For Gate With Single Barb Wire Arm, Add		72.95	
		For Gate With Double Barb Wire Arm, Add		106.10	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-124.34	
		For Aluminized Steel Gate And Post, Add		318.31	
		For Powder Coated Gate And Post, Add		172.42	
		For 1" Mesh Fabric, Add		288.47	
		For 1-1/4" Mesh Fabric, Add		185.68	
		For 1-3/4" Mesh Fabric, Add		115.39	
		For 2-1/8" Mesh Fabric, Deduct		-57.69	
32 31 13 13-0310	EA	7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	.....	872.44	38.62
		For Gate With Single Barb Wire Arm, Add		83.23	
		For Gate With Double Barb Wire Arm, Add		121.06	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-141.86	
		For Aluminized Steel Gate And Post, Add		363.17	
		For Powder Coated Gate And Post, Add		196.72	
		For 1" Mesh Fabric, Add		329.12	
		For 1-1/4" Mesh Fabric, Add		211.85	
		For 1-3/4" Mesh Fabric, Add		131.65	
		For 2-1/8" Mesh Fabric, Deduct		-65.82	
32 31 13 13-0311	EA	8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	.....	977.62	44.00
		For Gate With Single Barb Wire Arm, Add		93.02	
		For Gate With Double Barb Wire Arm, Add		135.30	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-158.55	
		For Aluminized Steel Gate And Post, Add		405.89	
		For Powder Coated Gate And Post, Add		219.86	
		For 1" Mesh Fabric, Add		367.84	
		For 1-1/4" Mesh Fabric, Add		236.77	
		For 1-3/4" Mesh Fabric, Add		147.14	
		For 2-1/8" Mesh Fabric, Deduct		-73.57	
32 31 13 13-0312	EA	9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	.....	1,083.71	49.67
		For Gate With Single Barb Wire Arm, Add		102.81	
		For Gate With Double Barb Wire Arm, Add		149.54	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-175.24	
		For Aluminized Steel Gate And Post, Add		448.62	
		For Powder Coated Gate And Post, Add		243.00	
		For 1" Mesh Fabric, Add		406.56	
		For 1-1/4" Mesh Fabric, Add		261.70	
		For 1-3/4" Mesh Fabric, Add		162.63	
		For 2-1/8" Mesh Fabric, Deduct		-81.31	
32 31 13 13-0313	EA	10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	.....	1,149.72	55.32
		For Gate With Single Barb Wire Arm, Add		108.19	
		For Gate With Double Barb Wire Arm, Add		157.37	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-184.42	
		For Aluminized Steel Gate And Post, Add		472.12	
		For Powder Coated Gate And Post, Add		255.73	
		For 1" Mesh Fabric, Add		427.86	
		For 1-1/4" Mesh Fabric, Add		275.40	
		For 1-3/4" Mesh Fabric, Add		171.14	
		For 2-1/8" Mesh Fabric, Deduct		-85.57	
32 31 13 13-0314	EA	10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	.....	1,613.13	55.23
		For Gate With Single Barb Wire Arm, Add		159.21	
		For Gate With Double Barb Wire Arm, Add		231.57	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-271.38	
		For Aluminized Steel Gate And Post, Add		694.72	
		For Powder Coated Gate And Post, Add		376.31	
		For 1" Mesh Fabric, Add		629.59	
		For 1-1/4" Mesh Fabric, Add		405.26	
		For 1-3/4" Mesh Fabric, Add		251.84	
		For 2-1/8" Mesh Fabric, Deduct		-125.92	
32 31 13 13-0315	EA	12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	.....	1,915.34	59.81
		For Gate With Single Barb Wire Arm, Add		190.93	
		For Gate With Double Barb Wire Arm, Add		277.72	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-325.45	
		For Aluminized Steel Gate And Post, Add		833.15	
		For Powder Coated Gate And Post, Add		451.29	
		For 1" Mesh Fabric, Add		755.04	
		For 1-1/4" Mesh Fabric, Add		486.00	
		For 1-3/4" Mesh Fabric, Add		302.02	
		For 2-1/8" Mesh Fabric, Deduct		-151.01	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0316	EA	14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,270.91	80.38
		For Gate With Single Barb Wire Arm, Add	223.24	
		For Gate With Double Barb Wire Arm, Add	324.72	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-380.53	
		For Aluminized Steel Gate And Post, Add	974.15	
		For Powder Coated Gate And Post, Add	527.66	
		For 1" Mesh Fabric, Add	882.82	
		For 1-1/4" Mesh Fabric, Add	568.25	
		For 1-3/4" Mesh Fabric, Add	353.13	
		For 2-1/8" Mesh Fabric, Deduct	-176.56	
32 31 13 13-0317	EA	16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,577.88	86.62
		For Gate With Single Barb Wire Arm, Add	254.97	
		For Gate With Double Barb Wire Arm, Add	370.86	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-434.60	
		For Aluminized Steel Gate And Post, Add	1,112.58	
		For Powder Coated Gate And Post, Add	602.65	
		For 1" Mesh Fabric, Add	1,008.27	
		For 1-1/4" Mesh Fabric, Add	649.00	
		For 1-3/4" Mesh Fabric, Add	403.31	
		For 2-1/8" Mesh Fabric, Deduct	-201.65	
32 31 13 13-0318	EA	18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,893.28	93.80
		For Gate With Single Barb Wire Arm, Add	287.28	
		For Gate With Double Barb Wire Arm, Add	417.86	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-489.68	
		For Aluminized Steel Gate And Post, Add	1,253.57	
		For Powder Coated Gate And Post, Add	679.02	
		For 1" Mesh Fabric, Add	1,136.05	
		For 1-1/4" Mesh Fabric, Add	731.25	
		For 1-3/4" Mesh Fabric, Add	454.42	
		For 2-1/8" Mesh Fabric, Deduct	-227.21	
32 31 13 13-0319	EA	20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,212.63	102.35
		For Gate With Single Barb Wire Arm, Add	319.59	
		For Gate With Double Barb Wire Arm, Add	464.86	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-544.75	
		For Aluminized Steel Gate And Post, Add	1,394.57	
		For Powder Coated Gate And Post, Add	755.39	
		For 1" Mesh Fabric, Add	1,263.83	
		For 1-1/4" Mesh Fabric, Add	813.50	
		For 1-3/4" Mesh Fabric, Add	505.53	
		For 2-1/8" Mesh Fabric, Deduct	-252.77	
32 31 13 13-0320	EA	22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,531.76	112.60
		For Gate With Single Barb Wire Arm, Add	351.31	
		For Gate With Double Barb Wire Arm, Add	511.00	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-598.83	
		For Aluminized Steel Gate And Post, Add	1,533.00	
		For Powder Coated Gate And Post, Add	830.38	
		For 1" Mesh Fabric, Add	1,389.28	
		For 1-1/4" Mesh Fabric, Add	894.25	
		For 1-3/4" Mesh Fabric, Add	555.71	
		For 2-1/8" Mesh Fabric, Deduct	-277.86	
32 31 13 13-0321	EA	24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,860.40	125.07
		For Gate With Single Barb Wire Arm, Add	383.33	
		For Gate With Double Barb Wire Arm, Add	557.57	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-653.40	
		For Aluminized Steel Gate And Post, Add	1,672.71	
		For Powder Coated Gate And Post, Add	906.05	
		For 1" Mesh Fabric, Add	1,515.90	
		For 1-1/4" Mesh Fabric, Add	975.75	
		For 1-3/4" Mesh Fabric, Add	606.36	
		For 2-1/8" Mesh Fabric, Deduct	-303.18	
32 31 13 13-0322	EA	26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,195.20	140.70
		For Gate With Single Barb Wire Arm, Add	414.99	
		For Gate With Double Barb Wire Arm, Add	603.63	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-707.38	
		For Aluminized Steel Gate And Post, Add	1,810.89	
		For Powder Coated Gate And Post, Add	980.90	
		For 1" Mesh Fabric, Add	1,641.12	
		For 1-1/4" Mesh Fabric, Add	1,056.35	
		For 1-3/4" Mesh Fabric, Add	656.45	
		For 2-1/8" Mesh Fabric, Deduct	-328.22	
32 31 13 13-0323	EA	28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,547.17	160.77
		For Gate With Single Barb Wire Arm, Add	447.07	
		For Gate With Double Barb Wire Arm, Add	650.29	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-762.05	
		For Aluminized Steel Gate And Post, Add	1,950.86	
		For Powder Coated Gate And Post, Add	1,056.72	
		For 1" Mesh Fabric, Add	1,767.97	
		For 1-1/4" Mesh Fabric, Add	1,138.00	
		For 1-3/4" Mesh Fabric, Add	707.19	
		For 2-1/8" Mesh Fabric, Deduct	-353.59	



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0324	EA		30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,919.79	187.60
			For Gate With Single Barb Wire Arm, Add	479.21	
			For Gate With Double Barb Wire Arm, Add	697.03	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-816.83	
			For Aluminized Steel Gate And Post, Add	2,091.09	
			For Powder Coated Gate And Post, Add	1,132.67	
			For 1" Mesh Fabric, Add	1,895.05	
			For 1-1/4" Mesh Fabric, Add	1,219.80	
			For 1-3/4" Mesh Fabric, Add	758.02	
			For 2-1/8" Mesh Fabric, Deduct	-379.01	
32 31 13 13-0325 7' Fence Height (32 31 13 13-0264)					
32 31 13 13-0326	EA		3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	461.20	27.57
			For Gate With Single Barb Wire Arm, Add	41.61	
			For Gate With Double Barb Wire Arm, Add	60.53	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.93	
			For Aluminized Steel Gate And Post, Add	181.58	
			For Powder Coated Gate And Post, Add	98.36	
			For 1" Mesh Fabric, Add	164.56	
			For 1-1/4" Mesh Fabric, Add	105.92	
			For 1-3/4" Mesh Fabric, Add	65.82	
			For 2-1/8" Mesh Fabric, Deduct	-32.91	
32 31 13 13-0327	EA		4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	585.82	27.57
			For Gate With Single Barb Wire Arm, Add	55.32	
			For Gate With Double Barb Wire Arm, Add	80.47	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.30	
			For Aluminized Steel Gate And Post, Add	241.40	
			For Powder Coated Gate And Post, Add	130.76	
			For 1" Mesh Fabric, Add	218.77	
			For 1-1/4" Mesh Fabric, Add	140.82	
			For 1-3/4" Mesh Fabric, Add	87.51	
			For 2-1/8" Mesh Fabric, Deduct	-43.75	
32 31 13 13-0328	EA		5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	690.97	29.01
			For Gate With Single Barb Wire Arm, Add	66.42	
			For Gate With Double Barb Wire Arm, Add	96.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.22	
			For Aluminized Steel Gate And Post, Add	289.85	
			For Powder Coated Gate And Post, Add	157.00	
			For 1" Mesh Fabric, Add	262.68	
			For 1-1/4" Mesh Fabric, Add	169.08	
			For 1-3/4" Mesh Fabric, Add	105.07	
			For 2-1/8" Mesh Fabric, Deduct	-52.54	
32 31 13 13-0329	EA		6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	846.91	35.29
			For Gate With Single Barb Wire Arm, Add	81.50	
			For Gate With Double Barb Wire Arm, Add	118.55	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.93	
			For Aluminized Steel Gate And Post, Add	355.65	
			For Powder Coated Gate And Post, Add	192.64	
			For 1" Mesh Fabric, Add	322.31	
			For 1-1/4" Mesh Fabric, Add	207.46	
			For 1-3/4" Mesh Fabric, Add	128.92	
			For 2-1/8" Mesh Fabric, Deduct	-64.46	
32 31 13 13-0330	EA		7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,001.99	41.31
			For Gate With Single Barb Wire Arm, Add	96.59	
			For Gate With Double Barb Wire Arm, Add	140.49	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-164.64	
			For Aluminized Steel Gate And Post, Add	421.47	
			For Powder Coated Gate And Post, Add	228.30	
			For 1" Mesh Fabric, Add	381.96	
			For 1-1/4" Mesh Fabric, Add	245.86	
			For 1-3/4" Mesh Fabric, Add	152.78	
			For 2-1/8" Mesh Fabric, Deduct	-76.39	
32 31 13 13-0331	EA		8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,157.94	47.51
			For Gate With Single Barb Wire Arm, Add	111.67	
			For Gate With Double Barb Wire Arm, Add	162.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-190.34	
			For Aluminized Steel Gate And Post, Add	487.27	
			For Powder Coated Gate And Post, Add	263.94	
			For 1" Mesh Fabric, Add	441.59	
			For 1-1/4" Mesh Fabric, Add	284.24	
			For 1-3/4" Mesh Fabric, Add	176.63	
			For 2-1/8" Mesh Fabric, Deduct	-88.32	
32 31 13 13-0332	EA		9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,313.01	53.52
			For Gate With Single Barb Wire Arm, Add	126.75	
			For Gate With Double Barb Wire Arm, Add	184.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-216.05	
			For Aluminized Steel Gate And Post, Add	553.08	
			For Powder Coated Gate And Post, Add	299.59	
			For 1" Mesh Fabric, Add	501.23	
			For 1-1/4" Mesh Fabric, Add	322.63	
			For 1-3/4" Mesh Fabric, Add	200.49	
			For 2-1/8" Mesh Fabric, Deduct	-100.25	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0333	EA		10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	1,444.25	59.81
			For Gate With Single Barb Wire Arm, Add	139.11	
			For Gate With Double Barb Wire Arm, Add	202.34	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-237.12	
			For Aluminized Steel Gate And Post, Add	607.03	
			For Powder Coated Gate And Post, Add	328.81	
			For 1" Mesh Fabric, Add	550.12	
			For 1-1/4" Mesh Fabric, Add	354.10	
			For 1-3/4" Mesh Fabric, Add	220.05	
			For 2-1/8" Mesh Fabric, Deduct	-110.02	
32 31 13 13-0334	EA		10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,839.61	59.81
			For Gate With Single Barb Wire Arm, Add	182.60	
			For Gate With Double Barb Wire Arm, Add	265.60	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-311.25	
			For Aluminized Steel Gate And Post, Add	796.80	
			For Powder Coated Gate And Post, Add	431.60	
			For 1" Mesh Fabric, Add	722.10	
			For 1-1/4" Mesh Fabric, Add	464.80	
			For 1-3/4" Mesh Fabric, Add	288.84	
			For 2-1/8" Mesh Fabric, Deduct	-144.42	
32 31 13 13-0335	EA		12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,087.22	80.38
			For Gate With Single Barb Wire Arm, Add	203.04	
			For Gate With Double Barb Wire Arm, Add	295.32	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-346.08	
			For Aluminized Steel Gate And Post, Add	885.97	
			For Powder Coated Gate And Post, Add	479.90	
			For 1" Mesh Fabric, Add	802.91	
			For 1-1/4" Mesh Fabric, Add	516.82	
			For 1-3/4" Mesh Fabric, Add	321.17	
			For 2-1/8" Mesh Fabric, Deduct	-160.58	
32 31 13 13-0336	EA		14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,413.42	86.62
			For Gate With Single Barb Wire Arm, Add	236.88	
			For Gate With Double Barb Wire Arm, Add	344.55	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-403.76	
			For Aluminized Steel Gate And Post, Add	1,033.64	
			For Powder Coated Gate And Post, Add	559.89	
			For 1" Mesh Fabric, Add	936.73	
			For 1-1/4" Mesh Fabric, Add	602.95	
			For 1-3/4" Mesh Fabric, Add	374.69	
			For 2-1/8" Mesh Fabric, Deduct	-187.35	
32 31 13 13-0337	EA		16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,717.04	93.80
			For Gate With Single Barb Wire Arm, Add	267.89	
			For Gate With Double Barb Wire Arm, Add	389.66	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-456.63	
			For Aluminized Steel Gate And Post, Add	1,168.98	
			For Powder Coated Gate And Post, Add	633.20	
			For 1" Mesh Fabric, Add	1,059.39	
			For 1-1/4" Mesh Fabric, Add	681.90	
			For 1-3/4" Mesh Fabric, Add	423.75	
			For 2-1/8" Mesh Fabric, Deduct	-211.88	
32 31 13 13-0338	EA		18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,052.41	102.35
			For Gate With Single Barb Wire Arm, Add	301.96	
			For Gate With Double Barb Wire Arm, Add	439.22	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-514.71	
			For Aluminized Steel Gate And Post, Add	1,317.66	
			For Powder Coated Gate And Post, Add	713.73	
			For 1" Mesh Fabric, Add	1,194.13	
			For 1-1/4" Mesh Fabric, Add	768.64	
			For 1-3/4" Mesh Fabric, Add	477.65	
			For 2-1/8" Mesh Fabric, Deduct	-238.83	
32 31 13 13-0339	EA		20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,387.56	112.60
			For Gate With Single Barb Wire Arm, Add	335.45	
			For Gate With Double Barb Wire Arm, Add	487.93	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-571.79	
			For Aluminized Steel Gate And Post, Add	1,463.78	
			For Powder Coated Gate And Post, Add	792.88	
			For 1" Mesh Fabric, Add	1,326.55	
			For 1-1/4" Mesh Fabric, Add	853.87	
			For 1-3/4" Mesh Fabric, Add	530.62	
			For 2-1/8" Mesh Fabric, Deduct	-265.31	
32 31 13 13-0340	EA		22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,729.55	125.07
			For Gate With Single Barb Wire Arm, Add	368.94	
			For Gate With Double Barb Wire Arm, Add	536.64	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-628.87	
			For Aluminized Steel Gate And Post, Add	1,609.91	
			For Powder Coated Gate And Post, Add	872.03	
			For 1" Mesh Fabric, Add	1,458.98	
			For 1-1/4" Mesh Fabric, Add	939.11	
			For 1-3/4" Mesh Fabric, Add	583.59	
			For 2-1/8" Mesh Fabric, Deduct	-291.80	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0341	EA	24'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,080.91	140.70
			For Gate With Single Barb Wire Arm, Add	402.42	
			For Gate With Double Barb Wire Arm, Add	585.34	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-685.95	
			For Aluminized Steel Gate And Post, Add	1,756.03	
			For Powder Coated Gate And Post, Add	951.18	
			For 1" Mesh Fabric, Add	1,591.40	
			For 1-1/4" Mesh Fabric, Add	1,024.35	
			For 1-3/4" Mesh Fabric, Add	636.56	
			For 2-1/8" Mesh Fabric, Deduct	-318.28	
32 31 13 13-0342	EA	26'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,445.69	160.77
			For Gate With Single Barb Wire Arm, Add	435.91	
			For Gate With Double Barb Wire Arm, Add	634.05	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-743.03	
			For Aluminized Steel Gate And Post, Add	1,902.15	
			For Powder Coated Gate And Post, Add	1,030.33	
			For 1" Mesh Fabric, Add	1,723.82	
			For 1-1/4" Mesh Fabric, Add	1,109.59	
			For 1-3/4" Mesh Fabric, Add	689.53	
			For 2-1/8" Mesh Fabric, Deduct	-344.76	
32 31 13 13-0343	EA	28'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,830.60	187.60
			For Gate With Single Barb Wire Arm, Add	469.40	
			For Gate With Double Barb Wire Arm, Add	682.76	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-800.11	
			For Aluminized Steel Gate And Post, Add	2,048.28	
			For Powder Coated Gate And Post, Add	1,109.48	
			For 1" Mesh Fabric, Add	1,856.25	
			For 1-1/4" Mesh Fabric, Add	1,194.83	
			For 1-3/4" Mesh Fabric, Add	742.50	
			For 2-1/8" Mesh Fabric, Deduct	-371.25	
32 31 13 13-0344	EA	30'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,247.69	225.10
			For Gate With Single Barb Wire Arm, Add	502.88	
			For Gate With Double Barb Wire Arm, Add	731.47	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-857.19	
			For Aluminized Steel Gate And Post, Add	2,194.40	
			For Powder Coated Gate And Post, Add	1,188.63	
			For 1" Mesh Fabric, Add	1,988.67	
			For 1-1/4" Mesh Fabric, Add	1,280.06	
			For 1-3/4" Mesh Fabric, Add	795.47	
			For 2-1/8" Mesh Fabric, Deduct	-397.73	
32 31 13 13-0345			8' Fence Height ^(32 31 13 13-0264)		
32 31 13 13-0346	EA	3'	Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	541.60	29.91
			For Gate With Single Barb Wire Arm, Add	49.70	
			For Gate With Double Barb Wire Arm, Add	72.29	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.71	
			For Aluminized Steel Gate And Post, Add	216.86	
			For Powder Coated Gate And Post, Add	117.47	
			For 1" Mesh Fabric, Add	196.53	
			For 1-1/4" Mesh Fabric, Add	126.50	
			For 1-3/4" Mesh Fabric, Add	78.61	
			For 2-1/8" Mesh Fabric, Deduct	-39.31	
32 31 13 13-0347	EA	4'	Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	692.21	29.91
			For Gate With Single Barb Wire Arm, Add	66.27	
			For Gate With Double Barb Wire Arm, Add	96.39	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-112.95	
			For Aluminized Steel Gate And Post, Add	289.16	
			For Powder Coated Gate And Post, Add	156.63	
			For 1" Mesh Fabric, Add	262.05	
			For 1-1/4" Mesh Fabric, Add	168.67	
			For 1-3/4" Mesh Fabric, Add	104.82	
			For 2-1/8" Mesh Fabric, Deduct	-52.41	
32 31 13 13-0348	EA	5'	Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	808.63	33.32
			For Gate With Single Barb Wire Arm, Add	77.93	
			For Gate With Double Barb Wire Arm, Add	113.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.84	
			For Aluminized Steel Gate And Post, Add	340.08	
			For Powder Coated Gate And Post, Add	184.21	
			For 1" Mesh Fabric, Add	308.19	
			For 1-1/4" Mesh Fabric, Add	198.38	
			For 1-3/4" Mesh Fabric, Add	123.28	
			For 2-1/8" Mesh Fabric, Deduct	-61.64	
32 31 13 13-0349	EA	6'	Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	927.74	37.72
			For Gate With Single Barb Wire Arm, Add	89.60	
			For Gate With Double Barb Wire Arm, Add	130.33	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-152.74	
			For Aluminized Steel Gate And Post, Add	391.00	
			For Powder Coated Gate And Post, Add	211.79	
			For 1" Mesh Fabric, Add	354.35	
			For 1-1/4" Mesh Fabric, Add	228.09	
			For 1-3/4" Mesh Fabric, Add	141.74	
			For 2-1/8" Mesh Fabric, Deduct	-70.87	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0350	EA		7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,057.20	45.45
			For Gate With Single Barb Wire Arm, Add	101.28	
			For Gate With Double Barb Wire Arm, Add	147.31	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-172.63	
			For Aluminized Steel Gate And Post, Add	441.94	
			For Powder Coated Gate And Post, Add	239.38	
			For 1" Mesh Fabric, Add	400.50	
			For 1-1/4" Mesh Fabric, Add	257.80	
			For 1-3/4" Mesh Fabric, Add	160.20	
			For 2-1/8" Mesh Fabric, Deduct	-80.10	
32 31 13 13-0351	EA		8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,185.76	52.89
			For Gate With Single Barb Wire Arm, Add	112.95	
			For Gate With Double Barb Wire Arm, Add	164.29	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-192.53	
			For Aluminized Steel Gate And Post, Add	492.86	
			For Powder Coated Gate And Post, Add	266.97	
			For 1" Mesh Fabric, Add	446.66	
			For 1-1/4" Mesh Fabric, Add	287.50	
			For 1-3/4" Mesh Fabric, Add	178.66	
			For 2-1/8" Mesh Fabric, Deduct	-89.33	
32 31 13 13-0352	EA		9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,315.21	60.70
			For Gate With Single Barb Wire Arm, Add	124.62	
			For Gate With Double Barb Wire Arm, Add	181.26	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.42	
			For Aluminized Steel Gate And Post, Add	543.79	
			For Powder Coated Gate And Post, Add	294.55	
			For 1" Mesh Fabric, Add	492.81	
			For 1-1/4" Mesh Fabric, Add	317.21	
			For 1-3/4" Mesh Fabric, Add	197.12	
			For 2-1/8" Mesh Fabric, Deduct	-98.56	
32 31 13 13-0353	EA		10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,444.64	68.52
			For Gate With Single Barb Wire Arm, Add	136.29	
			For Gate With Double Barb Wire Arm, Add	198.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-232.31	
			For Aluminized Steel Gate And Post, Add	594.72	
			For Powder Coated Gate And Post, Add	322.14	
			For 1" Mesh Fabric, Add	538.97	
			For 1-1/4" Mesh Fabric, Add	346.92	
			For 1-3/4" Mesh Fabric, Add	215.59	
			For 2-1/8" Mesh Fabric, Deduct	-107.79	
32 31 13 13-0354	EA		10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,099.97	80.38
			For Gate With Single Barb Wire Arm, Add	204.44	
			For Gate With Double Barb Wire Arm, Add	297.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-348.47	
			For Aluminized Steel Gate And Post, Add	892.09	
			For Powder Coated Gate And Post, Add	483.22	
			For 1" Mesh Fabric, Add	808.46	
			For 1-1/4" Mesh Fabric, Add	520.39	
			For 1-3/4" Mesh Fabric, Add	323.38	
			For 2-1/8" Mesh Fabric, Deduct	-161.69	
32 31 13 13-0355	EA		12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,476.41	86.62
			For Gate With Single Barb Wire Arm, Add	243.80	
			For Gate With Double Barb Wire Arm, Add	354.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-415.58	
			For Aluminized Steel Gate And Post, Add	1,063.87	
			For Powder Coated Gate And Post, Add	576.26	
			For 1" Mesh Fabric, Add	964.13	
			For 1-1/4" Mesh Fabric, Add	620.59	
			For 1-3/4" Mesh Fabric, Add	385.65	
			For 2-1/8" Mesh Fabric, Deduct	-192.83	
32 31 13 13-0356	EA		14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,861.24	93.80
			For Gate With Single Barb Wire Arm, Add	283.75	
			For Gate With Double Barb Wire Arm, Add	412.73	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-483.67	
			For Aluminized Steel Gate And Post, Add	1,238.19	
			For Powder Coated Gate And Post, Add	670.69	
			For 1" Mesh Fabric, Add	1,122.11	
			For 1-1/4" Mesh Fabric, Add	722.28	
			For 1-3/4" Mesh Fabric, Add	448.85	
			For 2-1/8" Mesh Fabric, Deduct	-224.42	
32 31 13 13-0357	EA		16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,260.70	102.35
			For Gate With Single Barb Wire Arm, Add	324.88	
			For Gate With Double Barb Wire Arm, Add	472.55	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-553.77	
			For Aluminized Steel Gate And Post, Add	1,417.64	
			For Powder Coated Gate And Post, Add	767.89	
			For 1" Mesh Fabric, Add	1,284.74	
			For 1-1/4" Mesh Fabric, Add	826.96	
			For 1-3/4" Mesh Fabric, Add	513.90	
			For 2-1/8" Mesh Fabric, Deduct	-256.95	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0358	EA	18	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	3,665.28	112.60
			For Gate With Single Barb Wire Arm, Add	366.00	
			For Gate With Double Barb Wire Arm, Add	532.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-623.86	
			For Aluminized Steel Gate And Post, Add	1,597.09	
			For Powder Coated Gate And Post, Add	865.09	
			For 1" Mesh Fabric, Add	1,447.36	
			For 1-1/4" Mesh Fabric, Add	931.64	
			For 1-3/4" Mesh Fabric, Add	578.94	
			For 2-1/8" Mesh Fabric, Deduct	-289.47	
32 31 13 13-0359	EA	20'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,071.36	125.07
			For Gate With Single Barb Wire Arm, Add	406.54	
			For Gate With Double Barb Wire Arm, Add	591.32	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-692.96	
			For Aluminized Steel Gate And Post, Add	1,773.97	
			For Powder Coated Gate And Post, Add	960.90	
			For 1" Mesh Fabric, Add	1,607.66	
			For 1-1/4" Mesh Fabric, Add	1,034.82	
			For 1-3/4" Mesh Fabric, Add	643.07	
			For 2-1/8" Mesh Fabric, Deduct	-321.53	
32 31 13 13-0360	EA	22'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,481.47	140.70
			For Gate With Single Barb Wire Arm, Add	446.48	
			For Gate With Double Barb Wire Arm, Add	649.43	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-761.05	
			For Aluminized Steel Gate And Post, Add	1,948.30	
			For Powder Coated Gate And Post, Add	1,055.33	
			For 1" Mesh Fabric, Add	1,765.64	
			For 1-1/4" Mesh Fabric, Add	1,136.51	
			For 1-3/4" Mesh Fabric, Add	706.26	
			For 2-1/8" Mesh Fabric, Deduct	-353.13	
32 31 13 13-0361	EA	24'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,915.68	160.77
			For Gate With Single Barb Wire Arm, Add	487.61	
			For Gate With Double Barb Wire Arm, Add	709.25	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-831.15	
			For Aluminized Steel Gate And Post, Add	2,127.74	
			For Powder Coated Gate And Post, Add	1,152.53	
			For 1" Mesh Fabric, Add	1,928.27	
			For 1-1/4" Mesh Fabric, Add	1,241.18	
			For 1-3/4" Mesh Fabric, Add	771.31	
			For 2-1/8" Mesh Fabric, Deduct	-385.65	
32 31 13 13-0362	EA	26'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,370.01	187.60
			For Gate With Single Barb Wire Arm, Add	528.73	
			For Gate With Double Barb Wire Arm, Add	769.06	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-901.25	
			For Aluminized Steel Gate And Post, Add	2,307.19	
			For Powder Coated Gate And Post, Add	1,249.73	
			For 1" Mesh Fabric, Add	2,090.89	
			For 1-1/4" Mesh Fabric, Add	1,345.86	
			For 1-3/4" Mesh Fabric, Add	836.36	
			For 2-1/8" Mesh Fabric, Deduct	-418.18	
32 31 13 13-0363	EA	28'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,851.19	225.10
			For Gate With Single Barb Wire Arm, Add	569.27	
			For Gate With Double Barb Wire Arm, Add	828.03	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-970.34	
			For Aluminized Steel Gate And Post, Add	2,484.08	
			For Powder Coated Gate And Post, Add	1,345.54	
			For 1" Mesh Fabric, Add	2,251.19	
			For 1-1/4" Mesh Fabric, Add	1,449.04	
			For 1-3/4" Mesh Fabric, Add	900.48	
			For 2-1/8" Mesh Fabric, Deduct	-450.24	
32 31 13 13-0364	EA	30'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,388.70	281.39
			For Gate With Single Barb Wire Arm, Add	609.80	
			For Gate With Double Barb Wire Arm, Add	886.99	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,039.44	
			For Aluminized Steel Gate And Post, Add	2,660.96	
			For Powder Coated Gate And Post, Add	1,441.35	
			For 1" Mesh Fabric, Add	2,411.50	
			For 1-1/4" Mesh Fabric, Add	1,552.23	
			For 1-3/4" Mesh Fabric, Add	964.60	
			For 2-1/8" Mesh Fabric, Deduct	-482.30	
32 31 13 13-0365			10' Fence Height (32 31 13 13-0264)		
32 31 13 13-0366	EA	3'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	684.03	33.23
			For Gate With Single Barb Wire Arm, Add	64.27	
			For Gate With Double Barb Wire Arm, Add	93.48	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.55	
			For Aluminized Steel Gate And Post, Add	280.44	
			For Powder Coated Gate And Post, Add	151.90	
			For 1" Mesh Fabric, Add	254.14	
			For 1-1/4" Mesh Fabric, Add	163.59	
			For 1-3/4" Mesh Fabric, Add	101.66	
			For 2-1/8" Mesh Fabric, Deduct	-50.83	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0367	EA		4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	878.77	33.23
			For Gate With Single Barb Wire Arm, Add	85.69	
			For Gate With Double Barb Wire Arm, Add	124.64	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-146.06	
			For Aluminized Steel Gate And Post, Add	373.91	
			For Powder Coated Gate And Post, Add	202.53	
			For 1" Mesh Fabric, Add	338.86	
			For 1-1/4" Mesh Fabric, Add	218.11	
			For 1-3/4" Mesh Fabric, Add	135.54	
			For 2-1/8" Mesh Fabric, Deduct	-67.77	
32 31 13 13-0368	EA		5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,020.37	34.66
			For Gate With Single Barb Wire Arm, Add	100.78	
			For Gate With Double Barb Wire Arm, Add	146.59	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-171.79	
			For Aluminized Steel Gate And Post, Add	439.78	
			For Powder Coated Gate And Post, Add	238.21	
			For 1" Mesh Fabric, Add	398.55	
			For 1-1/4" Mesh Fabric, Add	256.54	
			For 1-3/4" Mesh Fabric, Add	159.42	
			For 2-1/8" Mesh Fabric, Deduct	-79.71	
32 31 13 13-0369	EA		6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,182.73	43.11
			For Gate With Single Barb Wire Arm, Add	115.88	
			For Gate With Double Barb Wire Arm, Add	168.55	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.51	
			For Aluminized Steel Gate And Post, Add	505.64	
			For Powder Coated Gate And Post, Add	273.89	
			For 1" Mesh Fabric, Add	458.23	
			For 1-1/4" Mesh Fabric, Add	294.95	
			For 1-3/4" Mesh Fabric, Add	183.29	
			For 2-1/8" Mesh Fabric, Deduct	-91.65	
32 31 13 13-0370	EA		7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,344.54	51.10
			For Gate With Single Barb Wire Arm, Add	130.96	
			For Gate With Double Barb Wire Arm, Add	190.49	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-223.23	
			For Aluminized Steel Gate And Post, Add	571.48	
			For Powder Coated Gate And Post, Add	309.55	
			For 1" Mesh Fabric, Add	517.90	
			For 1-1/4" Mesh Fabric, Add	333.36	
			For 1-3/4" Mesh Fabric, Add	207.16	
			For 2-1/8" Mesh Fabric, Deduct	-103.58	
32 31 13 13-0371	EA		8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,506.50	59.54
			For Gate With Single Barb Wire Arm, Add	146.06	
			For Gate With Double Barb Wire Arm, Add	212.45	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.96	
			For Aluminized Steel Gate And Post, Add	637.34	
			For Powder Coated Gate And Post, Add	345.23	
			For 1" Mesh Fabric, Add	577.59	
			For 1-1/4" Mesh Fabric, Add	371.78	
			For 1-3/4" Mesh Fabric, Add	231.04	
			For 2-1/8" Mesh Fabric, Deduct	-115.52	
32 31 13 13-0372	EA		9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,667.95	67.62
			For Gate With Single Barb Wire Arm, Add	161.15	
			For Gate With Double Barb Wire Arm, Add	234.40	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-274.69	
			For Aluminized Steel Gate And Post, Add	703.20	
			For Powder Coated Gate And Post, Add	380.90	
			For 1" Mesh Fabric, Add	637.28	
			For 1-1/4" Mesh Fabric, Add	410.20	
			For 1-3/4" Mesh Fabric, Add	254.91	
			For 2-1/8" Mesh Fabric, Deduct	-127.46	
32 31 13 13-0373	EA		10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,830.33	75.98
			For Gate With Single Barb Wire Arm, Add	176.24	
			For Gate With Double Barb Wire Arm, Add	256.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-300.42	
			For Aluminized Steel Gate And Post, Add	769.07	
			For Powder Coated Gate And Post, Add	416.58	
			For 1" Mesh Fabric, Add	696.97	
			For 1-1/4" Mesh Fabric, Add	448.62	
			For 1-3/4" Mesh Fabric, Add	278.79	
			For 2-1/8" Mesh Fabric, Deduct	-139.39	
32 31 13 13-0374	EA		10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire.....	2,671.57	89.37
			For Gate With Single Barb Wire Arm, Add	264.36	
			For Gate With Double Barb Wire Arm, Add	384.53	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-450.62	
			For Aluminized Steel Gate And Post, Add	1,153.58	
			For Powder Coated Gate And Post, Add	624.86	
			For 1" Mesh Fabric, Add	1,045.44	
			For 1-1/4" Mesh Fabric, Add	672.92	
			For 1-3/4" Mesh Fabric, Add	418.17	
			For 2-1/8" Mesh Fabric, Deduct	-209.09	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0375	EA	12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,905.80	96.12
			For Gate With Single Barb Wire Arm, Add	287.87	
			For Gate With Double Barb Wire Arm, Add	418.72	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-490.69	
			For Aluminized Steel Gate And Post, Add	1,256.16	
			For Powder Coated Gate And Post, Add	680.42	
			For 1" Mesh Fabric, Add	1,138.39	
			For 1-1/4" Mesh Fabric, Add	732.76	
			For 1-3/4" Mesh Fabric, Add	455.36	
			For 2-1/8" Mesh Fabric, Deduct	-227.68	
32 31 13	13-0376	EA	14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,314.46	104.26
			For Gate With Single Barb Wire Arm, Add	330.16	
			For Gate With Double Barb Wire Arm, Add	480.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-562.78	
			For Aluminized Steel Gate And Post, Add	1,440.71	
			For Powder Coated Gate And Post, Add	780.38	
			For 1" Mesh Fabric, Add	1,305.64	
			For 1-1/4" Mesh Fabric, Add	840.41	
			For 1-3/4" Mesh Fabric, Add	522.26	
			For 2-1/8" Mesh Fabric, Deduct	-261.13	
32 31 13	13-0377	EA	16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,770.03	113.65
			For Gate With Single Barb Wire Arm, Add	377.16	
			For Gate With Double Barb Wire Arm, Add	548.60	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-642.89	
			For Aluminized Steel Gate And Post, Add	1,645.80	
			For Powder Coated Gate And Post, Add	891.47	
			For 1" Mesh Fabric, Add	1,491.50	
			For 1-1/4" Mesh Fabric, Add	960.05	
			For 1-3/4" Mesh Fabric, Add	596.60	
			For 2-1/8" Mesh Fabric, Deduct	-298.30	
32 31 13	13-0378	EA	18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,231.58	125.07
			For Gate With Single Barb Wire Arm, Add	424.16	
			For Gate With Double Barb Wire Arm, Add	616.96	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-723.00	
			For Aluminized Steel Gate And Post, Add	1,850.88	
			For Powder Coated Gate And Post, Add	1,002.56	
			For 1" Mesh Fabric, Add	1,677.36	
			For 1-1/4" Mesh Fabric, Add	1,079.68	
			For 1-3/4" Mesh Fabric, Add	670.94	
			For 2-1/8" Mesh Fabric, Deduct	-335.47	
32 31 13	13-0379	EA	20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,703.03	138.91
			For Gate With Single Barb Wire Arm, Add	471.45	
			For Gate With Double Barb Wire Arm, Add	685.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-803.61	
			For Aluminized Steel Gate And Post, Add	2,057.25	
			For Powder Coated Gate And Post, Add	1,114.34	
			For 1" Mesh Fabric, Add	1,864.38	
			For 1-1/4" Mesh Fabric, Add	1,200.06	
			For 1-3/4" Mesh Fabric, Add	745.75	
			For 2-1/8" Mesh Fabric, Deduct	-372.88	
32 31 13	13-0380	EA	22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,185.33	156.34
			For Gate With Single Barb Wire Arm, Add	518.74	
			For Gate With Double Barb Wire Arm, Add	754.54	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-884.22	
			For Aluminized Steel Gate And Post, Add	2,263.61	
			For Powder Coated Gate And Post, Add	1,226.12	
			For 1" Mesh Fabric, Add	2,051.40	
			For 1-1/4" Mesh Fabric, Add	1,320.44	
			For 1-3/4" Mesh Fabric, Add	820.56	
			For 2-1/8" Mesh Fabric, Deduct	-410.28	
32 31 13	13-0381	EA	24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,679.30	178.52
			For Gate With Single Barb Wire Arm, Add	565.74	
			For Gate With Double Barb Wire Arm, Add	822.90	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-964.33	
			For Aluminized Steel Gate And Post, Add	2,468.69	
			For Powder Coated Gate And Post, Add	1,337.21	
			For 1" Mesh Fabric, Add	2,237.25	
			For 1-1/4" Mesh Fabric, Add	1,440.07	
			For 1-3/4" Mesh Fabric, Add	894.90	
			For 2-1/8" Mesh Fabric, Deduct	-447.45	
32 31 13	13-0382	EA	26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,196.33	208.41
			For Gate With Single Barb Wire Arm, Add	612.74	
			For Gate With Double Barb Wire Arm, Add	891.26	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,044.44	
			For Aluminized Steel Gate And Post, Add	2,673.78	
			For Powder Coated Gate And Post, Add	1,448.30	
			For 1" Mesh Fabric, Add	2,423.11	
			For 1-1/4" Mesh Fabric, Add	1,559.70	
			For 1-3/4" Mesh Fabric, Add	969.24	
			For 2-1/8" Mesh Fabric, Deduct	-484.62	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0383	EA		28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,748.11	249.92
			For Gate With Single Barb Wire Arm, Add	659.74	
			For Gate With Double Barb Wire Arm, Add	959.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,124.56	
			For Aluminized Steel Gate And Post, Add	2,878.86	
			For Powder Coated Gate And Post, Add	1,559.38	
			For 1" Mesh Fabric, Add	2,608.97	
			For 1-1/4" Mesh Fabric, Add	1,679.34	
			For 1-3/4" Mesh Fabric, Add	1,043.59	
			For 2-1/8" Mesh Fabric, Deduct	-521.79	
32 31 13 13-0384	EA		30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,369.16	312.66
			For Gate With Single Barb Wire Arm, Add	707.33	
			For Gate With Double Barb Wire Arm, Add	1,028.84	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,205.67	
			For Aluminized Steel Gate And Post, Add	3,086.51	
			For Powder Coated Gate And Post, Add	1,671.86	
			For 1" Mesh Fabric, Add	2,797.15	
			For 1-1/4" Mesh Fabric, Add	1,800.46	
			For 1-3/4" Mesh Fabric, Add	1,118.86	
			For 2-1/8" Mesh Fabric, Deduct	-559.43	
32 31 13 13-0385 12' Fence Height (32 31 13 13-0264)					
32 31 13 13-0386	EA		3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	858.70	36.91
			For Gate With Single Barb Wire Arm, Add	82.26	
			For Gate With Double Barb Wire Arm, Add	119.65	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-140.22	
			For Aluminized Steel Gate And Post, Add	358.96	
			For Powder Coated Gate And Post, Add	194.44	
			For 1" Mesh Fabric, Add	325.31	
			For 1-1/4" Mesh Fabric, Add	209.39	
			For 1-3/4" Mesh Fabric, Add	130.12	
			For 2-1/8" Mesh Fabric, Deduct	-65.06	
32 31 13 13-0387	EA		4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	1,107.96	36.91
			For Gate With Single Barb Wire Arm, Add	109.68	
			For Gate With Double Barb Wire Arm, Add	159.53	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.95	
			For Aluminized Steel Gate And Post, Add	478.60	
			For Powder Coated Gate And Post, Add	259.24	
			For 1" Mesh Fabric, Add	433.73	
			For 1-1/4" Mesh Fabric, Add	279.19	
			For 1-3/4" Mesh Fabric, Add	173.49	
			For 2-1/8" Mesh Fabric, Deduct	-86.75	
32 31 13 13-0388	EA		5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	1,287.68	38.25
			For Gate With Single Barb Wire Arm, Add	129.00	
			For Gate With Double Barb Wire Arm, Add	187.64	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-219.89	
			For Aluminized Steel Gate And Post, Add	562.91	
			For Powder Coated Gate And Post, Add	304.91	
			For 1" Mesh Fabric, Add	510.14	
			For 1-1/4" Mesh Fabric, Add	328.36	
			For 1-3/4" Mesh Fabric, Add	204.06	
			For 2-1/8" Mesh Fabric, Deduct	-102.03	
32 31 13 13-0389	EA		6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	1,491.15	47.51
			For Gate With Single Barb Wire Arm, Add	148.32	
			For Gate With Double Barb Wire Arm, Add	215.74	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-252.82	
			For Aluminized Steel Gate And Post, Add	647.21	
			For Powder Coated Gate And Post, Add	350.57	
			For 1" Mesh Fabric, Add	586.53	
			For 1-1/4" Mesh Fabric, Add	377.54	
			For 1-3/4" Mesh Fabric, Add	234.61	
			For 2-1/8" Mesh Fabric, Deduct	-117.31	
32 31 13 13-0390	EA		7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	1,620.22	56.85
			For Gate With Single Barb Wire Arm, Add	49.45	
			For Gate With Double Barb Wire Arm, Add	71.93	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.30	
			For Aluminized Steel Gate And Post, Add	215.80	
			For Powder Coated Gate And Post, Add	116.89	
			For 1" Mesh Fabric, Add	195.57	
			For 1-1/4" Mesh Fabric, Add	125.88	
			For 1-3/4" Mesh Fabric, Add	78.23	
			For 2-1/8" Mesh Fabric, Deduct	-39.11	
32 31 13 13-0391	EA		8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	1,698.98	65.82
			For Gate With Single Barb Wire Arm, Add	55.15	
			For Gate With Double Barb Wire Arm, Add	80.22	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.01	
			For Aluminized Steel Gate And Post, Add	240.67	
			For Powder Coated Gate And Post, Add	130.36	
			For 1" Mesh Fabric, Add	218.11	
			For 1-1/4" Mesh Fabric, Add	140.39	
			For 1-3/4" Mesh Fabric, Add	87.24	
			For 2-1/8" Mesh Fabric, Deduct	-43.62	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0392	EA	9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	778.62	75.08
			For Gate With Single Barb Wire Arm, Add	60.85	
			For Gate With Double Barb Wire Arm, Add	88.51	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-103.73	
			For Aluminized Steel Gate And Post, Add	265.54	
			For Powder Coated Gate And Post, Add	143.83	
			For 1" Mesh Fabric, Add	240.65	
			For 1-1/4" Mesh Fabric, Add	154.90	
			For 1-3/4" Mesh Fabric, Add	96.26	
			For 2-1/8" Mesh Fabric, Deduct	-48.13	
32 31 13	13-0393	EA	10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	858.28	84.33
			For Gate With Single Barb Wire Arm, Add	66.55	
			For Gate With Double Barb Wire Arm, Add	96.80	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.44	
			For Aluminized Steel Gate And Post, Add	290.41	
			For Powder Coated Gate And Post, Add	157.31	
			For 1" Mesh Fabric, Add	263.18	
			For 1-1/4" Mesh Fabric, Add	169.41	
			For 1-3/4" Mesh Fabric, Add	105.27	
			For 2-1/8" Mesh Fabric, Deduct	-52.64	
32 31 13	13-0394	EA	10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,141.02	99.29
			For Gate With Single Barb Wire Arm, Add	92.72	
			For Gate With Double Barb Wire Arm, Add	134.87	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-158.05	
			For Aluminized Steel Gate And Post, Add	404.62	
			For Powder Coated Gate And Post, Add	219.17	
			For 1" Mesh Fabric, Add	366.68	
			For 1-1/4" Mesh Fabric, Add	236.03	
			For 1-3/4" Mesh Fabric, Add	146.67	
			For 2-1/8" Mesh Fabric, Deduct	-73.34	
32 31 13	13-0395	EA	12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,247.26	106.90
			For Gate With Single Barb Wire Arm, Add	101.91	
			For Gate With Double Barb Wire Arm, Add	148.23	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-173.71	
			For Aluminized Steel Gate And Post, Add	444.70	
			For Powder Coated Gate And Post, Add	240.88	
			For 1" Mesh Fabric, Add	403.01	
			For 1-1/4" Mesh Fabric, Add	259.41	
			For 1-3/4" Mesh Fabric, Add	161.20	
			For 2-1/8" Mesh Fabric, Deduct	-80.60	
32 31 13	13-0396	EA	14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,409.70	115.77
			For Gate With Single Barb Wire Arm, Add	116.81	
			For Gate With Double Barb Wire Arm, Add	169.91	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-199.12	
			For Aluminized Steel Gate And Post, Add	509.74	
			For Powder Coated Gate And Post, Add	276.11	
			For 1" Mesh Fabric, Add	461.95	
			For 1-1/4" Mesh Fabric, Add	297.35	
			For 1-3/4" Mesh Fabric, Add	184.78	
			For 2-1/8" Mesh Fabric, Deduct	-92.39	
32 31 13	13-0397	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,592.49	126.23
			For Gate With Single Barb Wire Arm, Add	133.45	
			For Gate With Double Barb Wire Arm, Add	194.11	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-227.48	
			For Aluminized Steel Gate And Post, Add	582.34	
			For Powder Coated Gate And Post, Add	315.43	
			For 1" Mesh Fabric, Add	527.75	
			For 1-1/4" Mesh Fabric, Add	339.70	
			For 1-3/4" Mesh Fabric, Add	211.10	
			For 2-1/8" Mesh Fabric, Deduct	-105.55	
32 31 13	13-0398	EA	18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,042.16	139.01
			For Gate With Single Barb Wire Arm, Add	508.76	
			For Gate With Double Barb Wire Arm, Add	740.01	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-867.20	
			For Aluminized Steel Gate And Post, Add	2,220.03	
			For Powder Coated Gate And Post, Add	1,202.52	
			For 1" Mesh Fabric, Add	2,011.90	
			For 1-1/4" Mesh Fabric, Add	1,295.02	
			For 1-3/4" Mesh Fabric, Add	804.76	
			For 2-1/8" Mesh Fabric, Deduct	-402.38	
32 31 13	13-0399	EA	20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,606.40	154.32
			For Gate With Single Barb Wire Arm, Add	565.74	
			For Gate With Double Barb Wire Arm, Add	822.90	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-964.33	
			For Aluminized Steel Gate And Post, Add	2,468.69	
			For Powder Coated Gate And Post, Add	1,337.21	
			For 1" Mesh Fabric, Add	2,237.25	
			For 1-1/4" Mesh Fabric, Add	1,440.07	
			For 1-3/4" Mesh Fabric, Add	894.90	
			For 2-1/8" Mesh Fabric, Deduct	-447.45	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0400	EA	22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,177.45	173.65
		For Gate With Single Barb Wire Arm, Add	622.14	
		For Gate With Double Barb Wire Arm, Add	904.93	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,060.47	
		For Aluminized Steel Gate And Post, Add	2,714.79	
		For Powder Coated Gate And Post, Add	1,470.51	
		For 1" Mesh Fabric, Add	2,460.28	
		For 1-1/4" Mesh Fabric, Add	1,583.63	
		For 1-3/4" Mesh Fabric, Add	984.11	
		For 2-1/8" Mesh Fabric, Deduct	-492.06	
32 31 13 13-0401	EA	24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,769.64	198.37
		For Gate With Single Barb Wire Arm, Add	679.13	
		For Gate With Double Barb Wire Arm, Add	987.82	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,157.60	
		For Aluminized Steel Gate And Post, Add	2,963.46	
		For Powder Coated Gate And Post, Add	1,605.21	
		For 1" Mesh Fabric, Add	2,685.63	
		For 1-1/4" Mesh Fabric, Add	1,728.68	
		For 1-3/4" Mesh Fabric, Add	1,074.25	
		For 2-1/8" Mesh Fabric, Deduct	-537.13	
32 31 13 13-0402	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,376.74	231.65
		For Gate With Single Barb Wire Arm, Add	734.94	
		For Gate With Double Barb Wire Arm, Add	1,069.00	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,252.73	
		For Aluminized Steel Gate And Post, Add	3,207.00	
		For Powder Coated Gate And Post, Add	1,737.12	
		For 1" Mesh Fabric, Add	2,906.34	
		For 1-1/4" Mesh Fabric, Add	1,870.75	
		For 1-3/4" Mesh Fabric, Add	1,162.54	
		For 2-1/8" Mesh Fabric, Deduct	-581.27	
32 31 13 13-0403	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,027.81	277.70
		For Gate With Single Barb Wire Arm, Add	791.33	
		For Gate With Double Barb Wire Arm, Add	1,151.03	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,348.87	
		For Aluminized Steel Gate And Post, Add	3,453.10	
		For Powder Coated Gate And Post, Add	1,870.43	
		For 1" Mesh Fabric, Add	3,129.37	
		For 1-1/4" Mesh Fabric, Add	2,014.31	
		For 1-3/4" Mesh Fabric, Add	1,251.75	
		For 2-1/8" Mesh Fabric, Deduct	-625.87	
32 31 13 13-0404	EA	30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,755.26	347.42
		For Gate With Single Barb Wire Arm, Add	848.32	
		For Gate With Double Barb Wire Arm, Add	1,233.92	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,446.00	
		For Aluminized Steel Gate And Post, Add	3,701.76	
		For Powder Coated Gate And Post, Add	2,005.12	
		For 1" Mesh Fabric, Add	3,354.72	
		For 1-1/4" Mesh Fabric, Add	2,159.36	
		For 1-3/4" Mesh Fabric, Add	1,341.89	
		For 2-1/8" Mesh Fabric, Deduct	-670.94	
32 31 13 13-0405		Vinyl Coated Without Barb Wire Arm (32 31 13 13-0263)		
		Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0406		4' Fence Height (32 31 13 13-0405)		
32 31 13 13-0407	EA	3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	172.49	22.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-19.71	
		For 1" Mesh Fabric, Add	45.74	
		For 1-1/4" Mesh Fabric, Add	29.44	
		For 1-3/4" Mesh Fabric, Add	18.29	
		For 2-1/8" Mesh Fabric, Deduct	-9.15	
		For Gate With Single Barb Wire Arm, Add	11.57	
		For Gate With Double Barb Wire Arm, Add	16.82	
32 31 13 13-0408	EA	4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	207.53	22.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-26.28	
		For 1" Mesh Fabric, Add	60.98	
		For 1-1/4" Mesh Fabric, Add	39.25	
		For 1-3/4" Mesh Fabric, Add	24.39	
		For 2-1/8" Mesh Fabric, Deduct	-12.20	
		For Gate With Single Barb Wire Arm, Add	15.42	
		For Gate With Double Barb Wire Arm, Add	22.43	
32 31 13 13-0409	EA	5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	241.23	23.89
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-31.76	
		For 1" Mesh Fabric, Add	73.68	
		For 1-1/4" Mesh Fabric, Add	47.43	
		For 1-3/4" Mesh Fabric, Add	29.47	
		For 2-1/8" Mesh Fabric, Deduct	-14.74	
		For Gate With Single Barb Wire Arm, Add	18.63	
		For Gate With Double Barb Wire Arm, Add	27.10	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0410 EA 6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	284.80	28.73
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.24	
For 1" Mesh Fabric, Add	86.39	
For 1-1/4" Mesh Fabric, Add	55.61	
For 1-3/4" Mesh Fabric, Add	34.55	
For 2-1/8" Mesh Fabric, Deduct	-17.28	
For Gate With Single Barb Wire Arm, Add	21.84	
For Gate With Double Barb Wire Arm, Add	31.77	
32 31 13 13-0411 EA 7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	328.38	33.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-42.71	
For 1" Mesh Fabric, Add	99.09	
For 1-1/4" Mesh Fabric, Add	63.78	
For 1-3/4" Mesh Fabric, Add	39.64	
For 2-1/8" Mesh Fabric, Deduct	-19.82	
For Gate With Single Barb Wire Arm, Add	25.06	
For Gate With Double Barb Wire Arm, Add	36.45	
32 31 13 13-0412 EA 8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	371.96	38.25
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-48.19	
For 1" Mesh Fabric, Add	111.80	
For 1-1/4" Mesh Fabric, Add	71.96	
For 1-3/4" Mesh Fabric, Add	44.72	
For 2-1/8" Mesh Fabric, Deduct	-22.36	
For Gate With Single Barb Wire Arm, Add	28.27	
For Gate With Double Barb Wire Arm, Add	41.12	
32 31 13 13-0413 EA 9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	415.53	43.11
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.66	
For 1" Mesh Fabric, Add	124.50	
For 1-1/4" Mesh Fabric, Add	80.14	
For 1-3/4" Mesh Fabric, Add	49.80	
For 2-1/8" Mesh Fabric, Deduct	-24.90	
For Gate With Single Barb Wire Arm, Add	31.48	
For Gate With Double Barb Wire Arm, Add	45.79	
32 31 13 13-0414 EA 10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	459.10	47.87
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.14	
For 1" Mesh Fabric, Add	137.20	
For 1-1/4" Mesh Fabric, Add	88.31	
For 1-3/4" Mesh Fabric, Add	54.88	
For 2-1/8" Mesh Fabric, Deduct	-27.44	
For Gate With Single Barb Wire Arm, Add	34.70	
For Gate With Double Barb Wire Arm, Add	50.47	
32 31 13 13-0415 EA 10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	564.24	47.87
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.85	
For 1" Mesh Fabric, Add	182.94	
For 1-1/4" Mesh Fabric, Add	117.75	
For 1-3/4" Mesh Fabric, Add	73.18	
For 2-1/8" Mesh Fabric, Deduct	-36.59	
For Gate With Single Barb Wire Arm, Add	46.26	
For Gate With Double Barb Wire Arm, Add	67.29	
32 31 13 13-0416 EA 12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	658.62	51.27
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.62	
For 1" Mesh Fabric, Add	219.53	
For 1-1/4" Mesh Fabric, Add	141.30	
For 1-3/4" Mesh Fabric, Add	87.81	
For 2-1/8" Mesh Fabric, Deduct	-43.91	
For Gate With Single Barb Wire Arm, Add	55.51	
For Gate With Double Barb Wire Arm, Add	80.75	
32 31 13 13-0417 EA 14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	754.56	55.23
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-110.39	
For 1" Mesh Fabric, Add	256.11	
For 1-1/4" Mesh Fabric, Add	164.86	
For 1-3/4" Mesh Fabric, Add	102.45	
For 2-1/8" Mesh Fabric, Deduct	-51.22	
For Gate With Single Barb Wire Arm, Add	64.76	
For Gate With Double Barb Wire Arm, Add	94.20	
32 31 13 13-0418 EA 16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	852.49	59.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.17	
For 1" Mesh Fabric, Add	292.70	
For 1-1/4" Mesh Fabric, Add	188.41	
For 1-3/4" Mesh Fabric, Add	117.08	
For 2-1/8" Mesh Fabric, Deduct	-58.54	
For Gate With Single Barb Wire Arm, Add	74.02	
For Gate With Double Barb Wire Arm, Add	107.66	
32 31 13 13-0419 EA 18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	982.33	75.00
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.94	
For 1" Mesh Fabric, Add	329.29	
For 1-1/4" Mesh Fabric, Add	211.96	
For 1-3/4" Mesh Fabric, Add	131.72	
For 2-1/8" Mesh Fabric, Deduct	-65.86	
For Gate With Single Barb Wire Arm, Add	83.27	
For Gate With Double Barb Wire Arm, Add	121.12	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0420	EA	20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,082.54 -157.71 365.88 235.51 146.35 -73.18 92.52 134.58	80.38
32 31 13 13-0421	EA	22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,185.22 -173.48 402.47 259.06 160.99 -80.49 101.77 148.03	86.62
32 31 13 13-0422	EA	24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,290.98 -189.25 439.05 282.61 175.62 -87.81 111.02 161.49	93.80
32 31 13 13-0423	EA	26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,400.70 -205.02 475.64 306.16 190.26 -95.13 120.28 174.95	102.35
32 31 13 13-0424	EA	28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,515.54 -220.79 512.23 329.71 204.89 -102.45 129.53 188.40	112.60
32 31 13 13-0425	EA	30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,637.22 -236.56 548.81 353.26 219.53 -109.76 138.78 201.86	125.07
32 31 13 13-0426 5' Fence Height (32 31 13 13-0405)				
32 31 13 13-0427	EA	3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	202.12 -24.43 56.67 36.48 22.67 -11.33 14.33 20.84	23.89
32 31 13 13-0428	EA	4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	245.55 -32.57 75.56 48.64 30.23 -15.11 19.11 27.79	23.89
32 31 13 13-0429	EA	5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	282.63 -38.68 89.74 57.76 35.89 -17.95 22.69 33.01	25.41
32 31 13 13-0430	EA	6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	330.45 -44.78 103.90 66.88 41.56 -20.78 26.27 38.22	30.53



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0431	EA	7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	378.29	35.56
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-50.89	
		For 1" Mesh Fabric, Add	.....	118.07	
		For 1-1/4" Mesh Fabric, Add	.....	76.00	
		For 1-3/4" Mesh Fabric, Add	.....	47.23	
		For 2-1/8" Mesh Fabric, Deduct	.....	-23.61	
		For Gate With Single Barb Wire Arm, Add	.....	29.86	
		For Gate With Double Barb Wire Arm, Add	.....	43.43	
32 31 13 13-0432	EA	8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	427.03	40.96
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-57.00	
		For 1" Mesh Fabric, Add	.....	132.24	
		For 1-1/4" Mesh Fabric, Add	.....	85.12	
		For 1-3/4" Mesh Fabric, Add	.....	52.89	
		For 2-1/8" Mesh Fabric, Deduct	.....	-26.45	
		For Gate With Single Barb Wire Arm, Add	.....	33.44	
		For Gate With Double Barb Wire Arm, Add	.....	48.64	
32 31 13 13-0433	EA	9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	474.85	46.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-63.11	
		For 1" Mesh Fabric, Add	.....	146.40	
		For 1-1/4" Mesh Fabric, Add	.....	94.24	
		For 1-3/4" Mesh Fabric, Add	.....	58.56	
		For 2-1/8" Mesh Fabric, Deduct	.....	-29.28	
		For Gate With Single Barb Wire Arm, Add	.....	37.02	
		For Gate With Double Barb Wire Arm, Add	.....	53.85	
32 31 13 13-0434	EA	10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	522.69	51.10
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-69.21	
		For 1" Mesh Fabric, Add	.....	160.57	
		For 1-1/4" Mesh Fabric, Add	.....	103.35	
		For 1-3/4" Mesh Fabric, Add	.....	64.23	
		For 2-1/8" Mesh Fabric, Deduct	.....	-32.11	
		For Gate With Single Barb Wire Arm, Add	.....	40.60	
		For Gate With Double Barb Wire Arm, Add	.....	59.06	
32 31 13 13-0435	EA	10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	675.08	51.27
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-97.71	
		For 1" Mesh Fabric, Add	.....	226.69	
		For 1-1/4" Mesh Fabric, Add	.....	145.91	
		For 1-3/4" Mesh Fabric, Add	.....	90.67	
		For 2-1/8" Mesh Fabric, Deduct	.....	-45.34	
		For Gate With Single Barb Wire Arm, Add	.....	57.32	
		For Gate With Double Barb Wire Arm, Add	.....	83.38	
32 31 13 13-0436	EA	12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	791.13	55.23
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-117.25	
		For 1" Mesh Fabric, Add	.....	272.02	
		For 1-1/4" Mesh Fabric, Add	.....	175.10	
		For 1-3/4" Mesh Fabric, Add	.....	108.81	
		For 2-1/8" Mesh Fabric, Deduct	.....	-54.40	
		For Gate With Single Barb Wire Arm, Add	.....	68.79	
		For Gate With Double Barb Wire Arm, Add	.....	100.05	
32 31 13 13-0437	EA	14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	909.17	59.81
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-136.79	
		For 1" Mesh Fabric, Add	.....	317.36	
		For 1-1/4" Mesh Fabric, Add	.....	204.28	
		For 1-3/4" Mesh Fabric, Add	.....	126.94	
		For 2-1/8" Mesh Fabric, Deduct	.....	-63.47	
		For Gate With Single Barb Wire Arm, Add	.....	80.25	
		For Gate With Double Barb Wire Arm, Add	.....	116.73	
32 31 13 13-0438	EA	16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	1,059.12	75.00
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-156.33	
		For 1" Mesh Fabric, Add	.....	362.69	
		For 1-1/4" Mesh Fabric, Add	.....	233.46	
		For 1-3/4" Mesh Fabric, Add	.....	145.08	
		For 2-1/8" Mesh Fabric, Deduct	.....	-72.54	
		For Gate With Single Barb Wire Arm, Add	.....	91.72	
		For Gate With Double Barb Wire Arm, Add	.....	133.40	
32 31 13 13-0439	EA	18' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	1,179.45	80.38
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-175.88	
		For 1" Mesh Fabric, Add	.....	408.03	
		For 1-1/4" Mesh Fabric, Add	.....	262.64	
		For 1-3/4" Mesh Fabric, Add	.....	163.21	
		For 2-1/8" Mesh Fabric, Deduct	.....	-81.61	
		For Gate With Single Barb Wire Arm, Add	.....	103.18	
		For Gate With Double Barb Wire Arm, Add	.....	150.08	
32 31 13 13-0440	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	1,302.24	86.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-195.42	
		For 1" Mesh Fabric, Add	.....	453.37	
		For 1-1/4" Mesh Fabric, Add	.....	291.82	
		For 1-3/4" Mesh Fabric, Add	.....	181.35	
		For 2-1/8" Mesh Fabric, Deduct	.....	-90.67	
		For Gate With Single Barb Wire Arm, Add	.....	114.65	
		For Gate With Double Barb Wire Arm, Add	.....	166.76	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0441	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,428.12	93.80
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-214.96	
		For 1" Mesh Fabric, Add	498.71	
		For 1-1/4" Mesh Fabric, Add	321.01	
		For 1-3/4" Mesh Fabric, Add	199.48	
		For 2-1/8" Mesh Fabric, Deduct	-99.74	
		For Gate With Single Barb Wire Arm, Add	126.11	
		For Gate With Double Barb Wire Arm, Add	183.43	
32 31 13 13-0442	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,557.96	102.35
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-234.50	
		For 1" Mesh Fabric, Add	544.05	
		For 1-1/4" Mesh Fabric, Add	350.19	
		For 1-3/4" Mesh Fabric, Add	217.62	
		For 2-1/8" Mesh Fabric, Deduct	-108.81	
		For Gate With Single Barb Wire Arm, Add	137.57	
		For Gate With Double Barb Wire Arm, Add	200.11	
32 31 13 13-0443	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,692.91	112.60
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-254.04	
		For 1" Mesh Fabric, Add	589.38	
		For 1-1/4" Mesh Fabric, Add	379.37	
		For 1-3/4" Mesh Fabric, Add	235.75	
		For 2-1/8" Mesh Fabric, Deduct	-117.88	
		For Gate With Single Barb Wire Arm, Add	149.04	
		For Gate With Double Barb Wire Arm, Add	216.78	
32 31 13 13-0444	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,834.70	125.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-273.59	
		For 1" Mesh Fabric, Add	634.72	
		For 1-1/4" Mesh Fabric, Add	408.55	
		For 1-3/4" Mesh Fabric, Add	253.89	
		For 2-1/8" Mesh Fabric, Deduct	-126.94	
		For Gate With Single Barb Wire Arm, Add	160.50	
		For Gate With Double Barb Wire Arm, Add	233.46	
32 31 13 13-0445	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,985.87	140.70
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-293.13	
		For 1" Mesh Fabric, Add	680.06	
		For 1-1/4" Mesh Fabric, Add	437.74	
		For 1-3/4" Mesh Fabric, Add	272.02	
		For 2-1/8" Mesh Fabric, Deduct	-136.01	
		For Gate With Single Barb Wire Arm, Add	171.97	
		For Gate With Double Barb Wire Arm, Add	250.14	
32 31 13 13-0446		6' Fence Height (32 31 13 13-0405)		
32 31 13 13-0447	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	216.20	25.60
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-26.11	
		For 1" Mesh Fabric, Add	60.57	
		For 1-1/4" Mesh Fabric, Add	38.98	
		For 1-3/4" Mesh Fabric, Add	24.23	
		For 2-1/8" Mesh Fabric, Deduct	-12.11	
		For Gate With Single Barb Wire Arm, Add	15.32	
		For Gate With Double Barb Wire Arm, Add	22.28	
32 31 13 13-0448	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	262.61	25.60
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.81	
		For 1" Mesh Fabric, Add	80.75	
		For 1-1/4" Mesh Fabric, Add	51.98	
		For 1-3/4" Mesh Fabric, Add	32.30	
		For 2-1/8" Mesh Fabric, Deduct	-16.15	
		For Gate With Single Barb Wire Arm, Add	20.42	
		For Gate With Double Barb Wire Arm, Add	29.70	
32 31 13 13-0449	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	302.17	27.22
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-41.33	
		For 1" Mesh Fabric, Add	95.90	
		For 1-1/4" Mesh Fabric, Add	61.73	
		For 1-3/4" Mesh Fabric, Add	38.36	
		For 2-1/8" Mesh Fabric, Deduct	-19.18	
		For Gate With Single Barb Wire Arm, Add	24.25	
		For Gate With Double Barb Wire Arm, Add	35.27	
32 31 13 13-0450	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	354.05	32.87
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-47.86	
		For 1" Mesh Fabric, Add	111.04	
		For 1-1/4" Mesh Fabric, Add	71.47	
		For 1-3/4" Mesh Fabric, Add	44.42	
		For 2-1/8" Mesh Fabric, Deduct	-22.21	
		For Gate With Single Barb Wire Arm, Add	28.08	
		For Gate With Double Barb Wire Arm, Add	40.84	
32 31 13 13-0451	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	405.92	38.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.39	
		For 1" Mesh Fabric, Add	126.18	
		For 1-1/4" Mesh Fabric, Add	81.22	
		For 1-3/4" Mesh Fabric, Add	50.47	
		For 2-1/8" Mesh Fabric, Deduct	-25.24	
		For Gate With Single Barb Wire Arm, Add	31.91	
		For Gate With Double Barb Wire Arm, Add	46.41	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0452	EA		8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	456.89	44.00
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.92	
			For 1" Mesh Fabric, Add	141.32	
			For 1-1/4" Mesh Fabric, Add	90.97	
			For 1-3/4" Mesh Fabric, Add	56.53	
			For 2-1/8" Mesh Fabric, Deduct	-28.26	
			For Gate With Single Barb Wire Arm, Add	35.74	
			For Gate With Double Barb Wire Arm, Add	51.98	
32 31 13 13-0453	EA		9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	508.76	49.67
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.44	
			For 1" Mesh Fabric, Add	156.46	
			For 1-1/4" Mesh Fabric, Add	100.71	
			For 1-3/4" Mesh Fabric, Add	62.58	
			For 2-1/8" Mesh Fabric, Deduct	-31.29	
			For Gate With Single Barb Wire Arm, Add	39.56	
			For Gate With Double Barb Wire Arm, Add	57.55	
32 31 13 13-0454	EA		10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	560.64	55.32
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.97	
			For 1" Mesh Fabric, Add	171.60	
			For 1-1/4" Mesh Fabric, Add	110.46	
			For 1-3/4" Mesh Fabric, Add	68.64	
			For 2-1/8" Mesh Fabric, Deduct	-34.32	
			For Gate With Single Barb Wire Arm, Add	43.39	
			For Gate With Double Barb Wire Arm, Add	63.12	
32 31 13 13-0455	EA		10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	722.71	55.23
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-104.42	
			For 1" Mesh Fabric, Add	242.26	
			For 1-1/4" Mesh Fabric, Add	155.94	
			For 1-3/4" Mesh Fabric, Add	96.90	
			For 2-1/8" Mesh Fabric, Deduct	-48.45	
			For Gate With Single Barb Wire Arm, Add	61.26	
			For Gate With Double Barb Wire Arm, Add	89.11	
32 31 13 13-0456	EA		12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	847.92	59.81
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-125.31	
			For 1" Mesh Fabric, Add	290.71	
			For 1-1/4" Mesh Fabric, Add	187.13	
			For 1-3/4" Mesh Fabric, Add	116.29	
			For 2-1/8" Mesh Fabric, Deduct	-58.14	
			For Gate With Single Barb Wire Arm, Add	73.51	
			For Gate With Double Barb Wire Arm, Add	106.93	
32 31 13 13-0457	EA		14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,021.13	80.38
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-146.19	
			For 1" Mesh Fabric, Add	339.17	
			For 1-1/4" Mesh Fabric, Add	218.31	
			For 1-3/4" Mesh Fabric, Add	135.67	
			For 2-1/8" Mesh Fabric, Deduct	-67.83	
			For Gate With Single Barb Wire Arm, Add	85.77	
			For Gate With Double Barb Wire Arm, Add	124.75	
32 31 13 13-0458	EA		16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,151.09	86.62
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.08	
			For 1" Mesh Fabric, Add	387.62	
			For 1-1/4" Mesh Fabric, Add	249.50	
			For 1-3/4" Mesh Fabric, Add	155.05	
			For 2-1/8" Mesh Fabric, Deduct	-77.52	
			For Gate With Single Barb Wire Arm, Add	98.02	
			For Gate With Double Barb Wire Arm, Add	142.57	
32 31 13 13-0459	EA		18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,284.13	93.80
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-187.96	
			For 1" Mesh Fabric, Add	436.07	
			For 1-1/4" Mesh Fabric, Add	280.69	
			For 1-3/4" Mesh Fabric, Add	174.43	
			For 2-1/8" Mesh Fabric, Deduct	-87.21	
			For Gate With Single Barb Wire Arm, Add	110.27	
			For Gate With Double Barb Wire Arm, Add	160.39	
32 31 13 13-0460	EA		20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,441.71	102.35
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.71	
			For 1" Mesh Fabric, Add	493.48	
			For 1-1/4" Mesh Fabric, Add	317.64	
			For 1-3/4" Mesh Fabric, Add	197.39	
			For 2-1/8" Mesh Fabric, Deduct	-98.70	
			For Gate With Single Barb Wire Arm, Add	124.79	
			For Gate With Double Barb Wire Arm, Add	181.51	
32 31 13 13-0461	EA		22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,566.98	112.60
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-230.43	
			For 1" Mesh Fabric, Add	534.60	
			For 1-1/4" Mesh Fabric, Add	344.11	
			For 1-3/4" Mesh Fabric, Add	213.84	
			For 2-1/8" Mesh Fabric, Deduct	-106.92	
			For Gate With Single Barb Wire Arm, Add	135.19	
			For Gate With Double Barb Wire Arm, Add	196.64	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0462	EA	24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,712.20 -250.62 581.43 374.25 232.57 -116.29 147.03 213.86	125.07
32 31 13 13-0463	EA	26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,870.52 -271.50 629.88 405.44 251.95 -125.98 159.28 231.68	140.70
32 31 13 13-0464	EA	28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,042.27 -292.39 678.33 436.63 271.33 -135.67 171.53 249.50	160.77
32 31 13 13-0465	EA	30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,234.13 -313.27 726.78 467.82 290.71 -145.36 183.78 267.32	187.60
32 31 13 13-0466 7' Fence Height (32 31 13 13-0405)				
32 31 13 13-0467	EA	3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	229.14 -27.42 63.61 40.95 25.45 -12.72 16.09 23.40	27.57
32 31 13 13-0468	EA	4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	277.89 -36.56 84.82 54.60 33.93 -16.96 21.45 31.20	27.57
32 31 13 13-0469	EA	5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	318.67 -43.42 100.73 64.84 40.29 -20.15 25.47 37.05	29.01
32 31 13 13-0470	EA	6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	374.08 -50.27 116.63 75.07 46.65 -23.33 29.49 42.90	35.29
32 31 13 13-0471	EA	7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	428.61 -57.13 132.54 85.31 53.01 -26.51 33.51 48.75	41.31
32 31 13 13-0472	EA	8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	484.05 -63.98 148.44 95.55 59.38 -29.69 37.54 54.60	47.51



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0473 EA 9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	538.55	53.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.84	
For 1" Mesh Fabric, Add	164.34	
For 1-1/4" Mesh Fabric, Add	105.78	
For 1-3/4" Mesh Fabric, Add	65.74	
For 2-1/8" Mesh Fabric, Deduct	-32.87	
For Gate With Single Barb Wire Arm, Add	41.56	
For Gate With Double Barb Wire Arm, Add	60.45	
32 31 13 13-0474 EA 10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	593.98	59.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.69	
For 1" Mesh Fabric, Add	180.25	
For 1-1/4" Mesh Fabric, Add	116.02	
For 1-3/4" Mesh Fabric, Add	72.10	
For 2-1/8" Mesh Fabric, Deduct	-36.05	
For Gate With Single Barb Wire Arm, Add	45.58	
For Gate With Double Barb Wire Arm, Add	66.30	
32 31 13 13-0475 EA 10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	764.59	59.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.68	
For 1" Mesh Fabric, Add	254.47	
For 1-1/4" Mesh Fabric, Add	163.79	
For 1-3/4" Mesh Fabric, Add	101.79	
For 2-1/8" Mesh Fabric, Deduct	-50.89	
For Gate With Single Barb Wire Arm, Add	64.35	
For Gate With Double Barb Wire Arm, Add	93.60	
32 31 13 13-0476 EA 12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	943.40	80.38
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.62	
For 1" Mesh Fabric, Add	305.35	
For 1-1/4" Mesh Fabric, Add	196.55	
For 1-3/4" Mesh Fabric, Add	122.14	
For 2-1/8" Mesh Fabric, Deduct	-61.07	
For Gate With Single Barb Wire Arm, Add	77.22	
For Gate With Double Barb Wire Arm, Add	112.31	
32 31 13 13-0477 EA 14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,078.98	86.62
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-153.56	
For 1" Mesh Fabric, Add	356.25	
For 1-1/4" Mesh Fabric, Add	229.31	
For 1-3/4" Mesh Fabric, Add	142.50	
For 2-1/8" Mesh Fabric, Deduct	-71.25	
For Gate With Single Barb Wire Arm, Add	90.09	
For Gate With Double Barb Wire Arm, Add	131.04	
32 31 13 13-0478 EA 16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,217.62	93.80
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.49	
For 1" Mesh Fabric, Add	407.14	
For 1-1/4" Mesh Fabric, Add	262.07	
For 1-3/4" Mesh Fabric, Add	162.86	
For 2-1/8" Mesh Fabric, Deduct	-81.43	
For Gate With Single Barb Wire Arm, Add	102.95	
For Gate With Double Barb Wire Arm, Add	149.75	
32 31 13 13-0479 EA 18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,360.23	102.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.43	
For 1" Mesh Fabric, Add	458.03	
For 1-1/4" Mesh Fabric, Add	294.83	
For 1-3/4" Mesh Fabric, Add	183.21	
For 2-1/8" Mesh Fabric, Deduct	-91.61	
For Gate With Single Barb Wire Arm, Add	115.82	
For Gate With Double Barb Wire Arm, Add	168.47	
32 31 13 13-0480 EA 20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,507.94	112.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-219.36	
For 1" Mesh Fabric, Add	508.92	
For 1-1/4" Mesh Fabric, Add	327.58	
For 1-3/4" Mesh Fabric, Add	203.57	
For 2-1/8" Mesh Fabric, Deduct	-101.78	
For Gate With Single Barb Wire Arm, Add	128.69	
For Gate With Double Barb Wire Arm, Add	187.19	
32 31 13 13-0481 EA 22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,662.49	125.07
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.30	
For 1" Mesh Fabric, Add	559.81	
For 1-1/4" Mesh Fabric, Add	360.33	
For 1-3/4" Mesh Fabric, Add	223.92	
For 2-1/8" Mesh Fabric, Deduct	-111.96	
For Gate With Single Barb Wire Arm, Add	141.56	
For Gate With Double Barb Wire Arm, Add	205.91	
32 31 13 13-0482 EA 24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,826.44	140.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-263.24	
For 1" Mesh Fabric, Add	610.71	
For 1-1/4" Mesh Fabric, Add	393.10	
For 1-3/4" Mesh Fabric, Add	244.28	
For 2-1/8" Mesh Fabric, Deduct	-122.14	
For Gate With Single Barb Wire Arm, Add	154.43	
For Gate With Double Barb Wire Arm, Add	224.63	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0483	EA		26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,003.81 -285.17 661.60 425.86 264.64 -132.32 167.30 243.35	160.77
32 31 13 13-0484	EA		28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,201.27 -307.11 712.49 458.61 285.00 -142.50 180.17 262.07	187.60
32 31 13 13-0485	EA		30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,430.94 -329.05 763.39 491.37 305.35 -152.68 193.04 280.79	225.10
32 31 13 13-0486 8' Fence Height (32 31 13 13-0405)					
32 31 13 13-0487	EA		3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	267.05 -33.23 77.10 49.63 30.84 -15.42 19.50 28.36	29.91
32 31 13 13-0488	EA		4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	326.14 -44.31 102.81 66.18 41.12 -20.56 26.00 37.81	29.91
32 31 13 13-0489	EA		5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	365.53 -51.70 119.94 77.20 47.98 -23.99 30.33 44.12	29.91
32 31 13 13-0490	EA		6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	428.27 -59.09 137.08 88.23 54.83 -27.42 34.66 50.42	37.72
32 31 13 13-0491	EA		7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	491.01 -66.47 154.21 99.26 61.68 -30.84 39.00 56.72	45.45
32 31 13 13-0492	EA		8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	552.86 -73.86 171.35 110.29 68.54 -34.27 43.33 63.02	52.89
32 31 13 13-0493	EA		9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	615.60 -81.24 188.48 121.32 75.39 -37.70 47.66 69.33	60.70



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0494 EA 10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	678.32	68.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.63	
For 1" Mesh Fabric, Add	205.62	
For 1-1/4" Mesh Fabric, Add	132.35	
For 1-3/4" Mesh Fabric, Add	82.25	
For 2-1/8" Mesh Fabric, Deduct	-41.12	
For Gate With Single Barb Wire Arm, Add	51.99	
For Gate With Double Barb Wire Arm, Add	75.63	
32 31 13 13-0495 EA 10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	950.45	80.38
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.94	
For 1" Mesh Fabric, Add	308.42	
For 1-1/4" Mesh Fabric, Add	198.52	
For 1-3/4" Mesh Fabric, Add	123.37	
For 2-1/8" Mesh Fabric, Deduct	-61.68	
For Gate With Single Barb Wire Arm, Add	77.99	
For Gate With Double Barb Wire Arm, Add	113.44	
32 31 13 13-0496 EA 12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,110.82	86.62
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-159.53	
For 1" Mesh Fabric, Add	370.10	
For 1-1/4" Mesh Fabric, Add	238.23	
For 1-3/4" Mesh Fabric, Add	148.04	
For 2-1/8" Mesh Fabric, Deduct	-74.02	
For Gate With Single Barb Wire Arm, Add	93.59	
For Gate With Double Barb Wire Arm, Add	136.13	
32 31 13 13-0497 EA 14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,274.29	93.80
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.12	
For 1" Mesh Fabric, Add	431.79	
For 1-1/4" Mesh Fabric, Add	277.93	
For 1-3/4" Mesh Fabric, Add	172.72	
For 2-1/8" Mesh Fabric, Deduct	-86.36	
For Gate With Single Barb Wire Arm, Add	109.19	
For Gate With Double Barb Wire Arm, Add	158.82	
32 31 13 13-0498 EA 16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,441.70	102.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.70	
For 1" Mesh Fabric, Add	493.47	
For 1-1/4" Mesh Fabric, Add	317.64	
For 1-3/4" Mesh Fabric, Add	197.39	
For 2-1/8" Mesh Fabric, Deduct	-98.69	
For Gate With Single Barb Wire Arm, Add	124.79	
For Gate With Double Barb Wire Arm, Add	181.51	
32 31 13 13-0499 EA 18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,614.23	112.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-239.29	
For 1" Mesh Fabric, Add	555.16	
For 1-1/4" Mesh Fabric, Add	357.34	
For 1-3/4" Mesh Fabric, Add	222.06	
For 2-1/8" Mesh Fabric, Deduct	-111.03	
For Gate With Single Barb Wire Arm, Add	140.38	
For Gate With Double Barb Wire Arm, Add	204.20	
32 31 13 13-0500 EA 20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,793.60	125.07
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-265.88	
For 1" Mesh Fabric, Add	616.84	
For 1-1/4" Mesh Fabric, Add	397.05	
For 1-3/4" Mesh Fabric, Add	246.74	
For 2-1/8" Mesh Fabric, Deduct	-123.37	
For Gate With Single Barb Wire Arm, Add	155.98	
For Gate With Double Barb Wire Arm, Add	226.88	
32 31 13 13-0501 EA 22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,982.34	140.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-292.47	
For 1" Mesh Fabric, Add	678.52	
For 1-1/4" Mesh Fabric, Add	436.75	
For 1-3/4" Mesh Fabric, Add	271.41	
For 2-1/8" Mesh Fabric, Deduct	-135.70	
For Gate With Single Barb Wire Arm, Add	171.58	
For Gate With Double Barb Wire Arm, Add	249.57	
32 31 13 13-0502 EA 24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,184.51	160.77
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-319.06	
For 1" Mesh Fabric, Add	740.21	
For 1-1/4" Mesh Fabric, Add	476.46	
For 1-3/4" Mesh Fabric, Add	296.08	
For 2-1/8" Mesh Fabric, Deduct	-148.04	
For Gate With Single Barb Wire Arm, Add	187.18	
For Gate With Double Barb Wire Arm, Add	272.26	
32 31 13 13-0503 EA 26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,406.79	187.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-345.64	
For 1" Mesh Fabric, Add	801.89	
For 1-1/4" Mesh Fabric, Add	516.16	
For 1-3/4" Mesh Fabric, Add	320.76	
For 2-1/8" Mesh Fabric, Deduct	-160.38	
For Gate With Single Barb Wire Arm, Add	202.78	
For Gate With Double Barb Wire Arm, Add	294.95	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0504	EA		28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,661.26 -372.23 863.58 555.86 345.43 -172.72 218.38 317.64	225.10
32 31 13 13-0505	EA		30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,972.06 -398.82 925.26 595.57 370.10 -185.05 233.97 340.32	281.39
32 31 13 13-0506			10' Fence Height (32 31 13 13-0405)		
32 31 13 13-0507	EA		3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	305.41 -38.55 89.44 57.57 35.78 -17.89 22.62 32.90	33.23
32 31 13 13-0508	EA		4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	373.95 -51.41 119.26 76.76 47.70 -23.85 30.16 43.87	33.23
32 31 13 13-0509	EA		5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	424.03 -59.97 139.14 89.56 55.66 -27.83 35.18 51.18	34.66
32 31 13 13-0510	EA		6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	494.87 -68.54 159.01 102.35 63.61 -31.80 40.21 58.49	43.11
32 31 13 13-0511	EA		7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	564.81 -77.11 178.89 115.15 71.56 -35.78 45.24 65.80	51.10
32 31 13 13-0512	EA		8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	635.66 -85.68 198.77 127.95 79.51 -39.75 50.26 73.11	59.54
32 31 13 13-0513	EA		9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	705.59 -94.25 218.65 140.74 87.46 -43.73 55.29 80.42	67.62
32 31 13 13-0514	EA		10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	776.45 -102.81 238.53 153.54 95.41 -47.71 60.32 87.73	75.98



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0515	EA	10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,090.76 -154.22 357.78 230.30 143.11 -71.56 90.47 131.60	89.37
32 31 13	13-0516	EA	12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,275.80 -185.06 429.34 276.36 171.74 -85.87 108.57 157.92	96.12
32 31 13	13-0517	EA	14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,464.46 -215.90 500.89 322.41 200.36 -100.18 126.66 184.24	104.26
32 31 13	13-0518	EA	16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,657.27 -246.75 572.45 368.47 228.98 -114.49 144.76 210.56	113.65
32 31 13	13-0519	EA	18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,856.06 -277.59 644.01 414.53 257.60 -128.80 162.85 236.88	125.07
32 31 13	13-0520	EA	20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,062.07 -308.43 715.56 460.59 286.22 -143.11 180.95 263.20	138.91
32 31 13	13-0521	EA	22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,278.94 -339.28 787.12 506.65 314.85 -157.42 199.04 289.52	156.34
32 31 13	13-0522	EA	24' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,510.16 -370.12 858.68 552.71 343.47 -171.74 217.14 315.84	178.52
32 31 13	13-0523	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,764.43 -400.96 930.23 598.77 372.09 -186.05 235.23 342.16	208.41
32 31 13	13-0524	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,053.44 -431.81 1,001.79 644.83 400.72 -200.36 253.33 368.47	249.92

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 31 13 13-0525	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,406.39		312.66
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-462.65		
		For 1" Mesh Fabric, Add	1,073.35		
		For 1-1/4" Mesh Fabric, Add	690.89		
		For 1-3/4" Mesh Fabric, Add	429.34		
		For 2-1/8" Mesh Fabric, Deduct	-214.67		
		For Gate With Single Barb Wire Arm, Add	271.42		
		For Gate With Double Barb Wire Arm, Add	394.79		
32 31 13 13-0526 12' Fence Height (32 31 13 13-0405)					
32 31 13 13-0527	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	397.63		36.91
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.77		
		For 1" Mesh Fabric, Add	124.74		
		For 1-1/4" Mesh Fabric, Add	80.29		
		For 1-3/4" Mesh Fabric, Add	49.90		
		For 2-1/8" Mesh Fabric, Deduct	-24.95		
		For Gate With Single Barb Wire Arm, Add	31.54		
		For Gate With Double Barb Wire Arm, Add	45.88		
32 31 13 13-0528	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	492.95		36.91
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.64		
		For 1" Mesh Fabric, Add	166.20		
		For 1-1/4" Mesh Fabric, Add	106.98		
		For 1-3/4" Mesh Fabric, Add	66.48		
		For 2-1/8" Mesh Fabric, Deduct	-33.24		
		For Gate With Single Barb Wire Arm, Add	42.03		
		For Gate With Double Barb Wire Arm, Add	61.13		
32 31 13 13-0529	EA	5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	567.93		38.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.93		
		For 1" Mesh Fabric, Add	197.05		
		For 1-1/4" Mesh Fabric, Add	126.83		
		For 1-3/4" Mesh Fabric, Add	78.82		
		For 2-1/8" Mesh Fabric, Deduct	-39.41		
		For Gate With Single Barb Wire Arm, Add	49.83		
		For Gate With Double Barb Wire Arm, Add	72.48		
32 31 13 13-0530	EA	6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	654.87		47.51
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-96.01		
		For 1" Mesh Fabric, Add	222.75		
		For 1-1/4" Mesh Fabric, Add	143.38		
		For 1-3/4" Mesh Fabric, Add	89.10		
		For 2-1/8" Mesh Fabric, Deduct	-44.55		
		For Gate With Single Barb Wire Arm, Add	56.33		
		For Gate With Double Barb Wire Arm, Add	81.93		
32 31 13 13-0531	EA	7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	748.36		56.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.32		
		For 1" Mesh Fabric, Add	251.31		
		For 1-1/4" Mesh Fabric, Add	161.76		
		For 1-3/4" Mesh Fabric, Add	100.52		
		For 2-1/8" Mesh Fabric, Deduct	-50.26		
		For Gate With Single Barb Wire Arm, Add	63.55		
		For Gate With Double Barb Wire Arm, Add	92.44		
32 31 13 13-0532	EA	8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	840.95		65.82
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-120.63		
		For 1" Mesh Fabric, Add	279.87		
		For 1-1/4" Mesh Fabric, Add	180.14		
		For 1-3/4" Mesh Fabric, Add	111.95		
		For 2-1/8" Mesh Fabric, Deduct	-55.97		
		For Gate With Single Barb Wire Arm, Add	70.77		
		For Gate With Double Barb Wire Arm, Add	102.94		
32 31 13 13-0533	EA	9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	934.43		75.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.94		
		For 1" Mesh Fabric, Add	308.42		
		For 1-1/4" Mesh Fabric, Add	198.53		
		For 1-3/4" Mesh Fabric, Add	123.37		
		For 2-1/8" Mesh Fabric, Deduct	-61.68		
		For Gate With Single Barb Wire Arm, Add	77.99		
		For Gate With Double Barb Wire Arm, Add	113.44		
32 31 13 13-0534	EA	10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	1,021.36		84.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-144.02		
		For 1" Mesh Fabric, Add	334.12		
		For 1-1/4" Mesh Fabric, Add	215.07		
		For 1-3/4" Mesh Fabric, Add	133.65		
		For 2-1/8" Mesh Fabric, Deduct	-66.82		
		For Gate With Single Barb Wire Arm, Add	84.49		
		For Gate With Double Barb Wire Arm, Add	122.90		
32 31 13 13-0535	EA	10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,449.73		99.29
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.96		
		For 1" Mesh Fabric, Add	501.02		
		For 1-1/4" Mesh Fabric, Add	322.49		
		For 1-3/4" Mesh Fabric, Add	200.41		
		For 2-1/8" Mesh Fabric, Deduct	-100.20		
		For Gate With Single Barb Wire Arm, Add	126.69		
		For Gate With Double Barb Wire Arm, Add	184.28		



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0536	EA	12'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,740.43 -266.18 617.53 397.49 247.01 -123.51 156.16 227.14	106.90
32 31 13 13-0537	EA	14'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,005.28 -310.79 721.03 464.11 288.41 -144.21 182.33 265.20	115.77
32 31 13 13-0538	EA	16'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,273.15 -355.10 823.83 530.28 329.53 -164.77 208.33 303.02	126.23
32 31 13 13-0539	EA	18'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,544.36 -398.82 925.27 595.58 370.11 -185.05 233.98 340.33	139.01
32 31 13 13-0540	EA	20'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,826.69 -443.14 1,028.08 661.75 411.23 -205.62 259.97 378.14	154.32
32 31 13 13-0541	EA	22'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,121.37 -487.45 1,130.89 727.93 452.35 -226.18 285.97 415.96	173.65
32 31 13 13-0542	EA	24'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,431.85 -531.77 1,233.69 794.10 493.48 -246.74 311.97 453.77	198.37
32 31 13 13-0543	EA	26'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,775.80 -577.56 1,339.93 862.48 535.97 -267.99 338.83 492.85	231.65
32 31 13 13-0544	EA	28'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	4,150.50 -621.87 1,442.74 928.66 577.10 -288.55 364.83 530.66	277.70
32 31 13 13-0545	EA	30'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	4,596.24 -666.18 1,545.55 994.83 618.22 -309.11 390.83 568.48	347.42

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 31 13 13-0546	Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0263) Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0630 for additional gate accessories, 32 31 13 13-0711 for gate replacement parts.				
32 31 13 13-0547	4' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)				
32 31 13 13-0548	EA 10' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,397.15		342.87	
	For 1" Mesh Fabric, Add	744.44			
	For 1-1/4" Mesh Fabric, Add	479.18			
	For 1-3/4" Mesh Fabric, Add	297.78			
	For 2-1/8" Mesh Fabric, Deduct	-148.89			
	For Gate With Barb Wire Arm, Add	188.25			
	For Vinyl Coated, Add	513.41			
32 31 13 13-0549	EA 12' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,881.45		413.97	
	For 1" Mesh Fabric, Add	893.33			
	For 1-1/4" Mesh Fabric, Add	575.02			
	For 1-3/4" Mesh Fabric, Add	357.33			
	For 2-1/8" Mesh Fabric, Deduct	-178.67			
	For Gate With Barb Wire Arm, Add	225.90			
	For Vinyl Coated, Add	616.09			
32 31 13 13-0550	EA 14' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,361.88		482.94	
	For 1" Mesh Fabric, Add	1,042.22			
	For 1-1/4" Mesh Fabric, Add	670.85			
	For 1-3/4" Mesh Fabric, Add	416.89			
	For 2-1/8" Mesh Fabric, Deduct	-208.44			
	For Gate With Barb Wire Arm, Add	263.55			
	For Vinyl Coated, Add	718.77			
32 31 13 13-0551	EA 16' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,848.32		555.09	
	For 1" Mesh Fabric, Add	1,191.11			
	For 1-1/4" Mesh Fabric, Add	766.69			
	For 1-3/4" Mesh Fabric, Add	476.44			
	For 2-1/8" Mesh Fabric, Deduct	-238.22			
	For Gate With Barb Wire Arm, Add	301.20			
	For Vinyl Coated, Add	821.45			
32 31 13 13-0552	EA 18' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,329.40		624.48	
	For 1" Mesh Fabric, Add	1,340.00			
	For 1-1/4" Mesh Fabric, Add	862.53			
	For 1-3/4" Mesh Fabric, Add	536.00			
	For 2-1/8" Mesh Fabric, Deduct	-268.00			
	For Gate With Barb Wire Arm, Add	338.85			
	For Vinyl Coated, Add	924.14			
32 31 13 13-0553	EA 20' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,797.66		687.43	
	For 1" Mesh Fabric, Add	1,488.89			
	For 1-1/4" Mesh Fabric, Add	958.36			
	For 1-3/4" Mesh Fabric, Add	595.56			
	For 2-1/8" Mesh Fabric, Deduct	-297.78			
	For Gate With Barb Wire Arm, Add	376.50			
	For Vinyl Coated, Add	1,026.82			
32 31 13 13-0554	EA 24' Long x 4' High Chain Link Galvanized Steel Sliding Gate	5,732.76		827.82	
	For 1" Mesh Fabric, Add	1,773.55			
	For 1-1/4" Mesh Fabric, Add	1,141.60			
	For 1-3/4" Mesh Fabric, Add	709.42			
	For 2-1/8" Mesh Fabric, Deduct	-354.71			
	For Gate With Barb Wire Arm, Add	448.48			
	For Vinyl Coated, Add	1,223.14			
32 31 13 13-0555	EA 30' Long x 4' High Chain Link Galvanized Steel Sliding Gate	8,259.22		1,562.57	
	For 1" Mesh Fabric, Add	2,233.33			
	For 1-1/4" Mesh Fabric, Add	1,437.55			
	For 1-3/4" Mesh Fabric, Add	893.33			
	For 2-1/8" Mesh Fabric, Deduct	-446.67			
	For Gate With Barb Wire Arm, Add	564.75			
	For Vinyl Coated, Add	1,540.23			
32 31 13 13-0556	EA 40' Long x 4' High Chain Link Galvanized Steel Sliding Gate	11,012.30		2,083.44	
	For 1" Mesh Fabric, Add	2,977.77			
	For 1-1/4" Mesh Fabric, Add	1,916.73			
	For 1-3/4" Mesh Fabric, Add	1,191.11			
	For 2-1/8" Mesh Fabric, Deduct	-595.55			
	For Gate With Barb Wire Arm, Add	753.00			
	For Vinyl Coated, Add	2,053.64			
32 31 13 13-0557	5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)				
32 31 13 13-0558	EA 10' Long x 5' High Chain Link Galvanized Steel Sliding Gate	2,508.02		373.19	
	For 1" Mesh Fabric, Add	766.32			
	For 1-1/4" Mesh Fabric, Add	493.26			
	For 1-3/4" Mesh Fabric, Add	306.53			
	For 2-1/8" Mesh Fabric, Deduct	-153.26			
	For Gate With Barb Wire Arm, Add	193.78			
	For Vinyl Coated, Add	528.50			



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0559	EA	12'	Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	3,008.58	447.34
			For 1" Mesh Fabric, Add	919.59	
			For 1-1/4" Mesh Fabric, Add	591.92	
			For 1-3/4" Mesh Fabric, Add	367.83	
			For 2-1/8" Mesh Fabric, Deduct	-183.92	
			For Gate With Barb Wire Arm, Add	232.54	
			For Vinyl Coated, Add	634.20	
32 31 13 13-0560	EA	14'	Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	3,509.84	521.81
			For 1" Mesh Fabric, Add	1,072.85	
			For 1-1/4" Mesh Fabric, Add	690.57	
			For 1-3/4" Mesh Fabric, Add	429.14	
			For 2-1/8" Mesh Fabric, Deduct	-214.57	
			For Gate With Barb Wire Arm, Add	271.30	
			For Vinyl Coated, Add	739.90	
32 31 13 13-0561	EA	16'	Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	4,011.54	596.49
			For 1" Mesh Fabric, Add	1,226.12	
			For 1-1/4" Mesh Fabric, Add	789.22	
			For 1-3/4" Mesh Fabric, Add	490.45	
			For 2-1/8" Mesh Fabric, Deduct	-245.22	
			For Gate With Barb Wire Arm, Add	310.05	
			For Vinyl Coated, Add	845.60	
32 31 13 13-0562	EA	18'	Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	4,512.73	670.86
			For 1" Mesh Fabric, Add	1,379.38	
			For 1-1/4" Mesh Fabric, Add	887.87	
			For 1-3/4" Mesh Fabric, Add	551.75	
			For 2-1/8" Mesh Fabric, Deduct	-275.88	
			For Gate With Barb Wire Arm, Add	348.81	
			For Vinyl Coated, Add	951.29	
32 31 13 13-0563	EA	20'	Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	5,014.21	745.43
			For 1" Mesh Fabric, Add	1,532.64	
			For 1-1/4" Mesh Fabric, Add	986.53	
			For 1-3/4" Mesh Fabric, Add	613.06	
			For 2-1/8" Mesh Fabric, Deduct	-306.53	
			For Gate With Barb Wire Arm, Add	387.57	
			For Vinyl Coated, Add	1,057.00	
32 31 13 13-0564	EA	24'	Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	5,988.06	895.53
			For 1" Mesh Fabric, Add	1,825.68	
			For 1-1/4" Mesh Fabric, Add	1,175.15	
			For 1-3/4" Mesh Fabric, Add	730.27	
			For 2-1/8" Mesh Fabric, Deduct	-365.14	
			For Gate With Barb Wire Arm, Add	461.67	
			For Vinyl Coated, Add	1,259.09	
32 31 13 13-0565	EA	30'	Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	7,521.70	1,118.41
			For 1" Mesh Fabric, Add	2,298.96	
			For 1-1/4" Mesh Fabric, Add	1,479.79	
			For 1-3/4" Mesh Fabric, Add	919.58	
			For 2-1/8" Mesh Fabric, Deduct	-459.79	
			For Gate With Barb Wire Arm, Add	581.35	
			For Vinyl Coated, Add	1,585.49	
32 31 13 13-0566	EA	40'	Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	10,028.41	1,490.85
			For 1" Mesh Fabric, Add	3,065.28	
			For 1-1/4" Mesh Fabric, Add	1,973.06	
			For 1-3/4" Mesh Fabric, Add	1,226.11	
			For 2-1/8" Mesh Fabric, Deduct	-613.06	
			For Gate With Barb Wire Arm, Add	775.13	
			For Vinyl Coated, Add	2,113.99	
32 31 13 13-0567			6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0568	EA	10'	Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	2,671.83	437.51
			For 1" Mesh Fabric, Add	781.64	
			For 1-1/4" Mesh Fabric, Add	503.12	
			For 1-3/4" Mesh Fabric, Add	312.66	
			For 2-1/8" Mesh Fabric, Deduct	-156.33	
			For Gate With Barb Wire Arm, Add	197.66	
			For Vinyl Coated, Add	539.06	
32 31 13 13-0569	EA	12'	Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	3,203.12	523.39
			For 1" Mesh Fabric, Add	937.96	
			For 1-1/4" Mesh Fabric, Add	603.75	
			For 1-3/4" Mesh Fabric, Add	375.19	
			For 2-1/8" Mesh Fabric, Deduct	-187.59	
			For Gate With Barb Wire Arm, Add	237.19	
			For Vinyl Coated, Add	646.87	
32 31 13 13-0570	EA	14'	Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	3,736.77	610.54
			For 1" Mesh Fabric, Add	1,094.29	
			For 1-1/4" Mesh Fabric, Add	704.37	
			For 1-3/4" Mesh Fabric, Add	437.72	
			For 2-1/8" Mesh Fabric, Deduct	-218.86	
			For Gate With Barb Wire Arm, Add	276.72	
			For Vinyl Coated, Add	754.69	
32 31 13 13-0571	EA	16'	Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	4,270.82	697.89
			For 1" Mesh Fabric, Add	1,250.62	
			For 1-1/4" Mesh Fabric, Add	805.00	
			For 1-3/4" Mesh Fabric, Add	500.25	
			For 2-1/8" Mesh Fabric, Deduct	-250.12	
			For Gate With Barb Wire Arm, Add	316.25	
			For Vinyl Coated, Add	862.50	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0572	EA	18' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,804.47	785.04
		For 1" Mesh Fabric, Add	1,406.95	
		For 1-1/4" Mesh Fabric, Add	905.62	
		For 1-3/4" Mesh Fabric, Add	562.78	
		For 2-1/8" Mesh Fabric, Deduct	-281.39	
		For Gate With Barb Wire Arm, Add	355.78	
		For Vinyl Coated, Add	970.31	
32 31 13 13-0573	EA	20' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,344.02	875.14
		For 1" Mesh Fabric, Add	1,563.28	
		For 1-1/4" Mesh Fabric, Add	1,006.25	
		For 1-3/4" Mesh Fabric, Add	625.31	
		For 2-1/8" Mesh Fabric, Deduct	-312.66	
		For Gate With Barb Wire Arm, Add	395.31	
		For Vinyl Coated, Add	1,078.12	
32 31 13 13-0574	EA	24' Long x 6' High Chain Link Galvanized Steel Sliding Gate	6,374.60	1,046.89
		For 1" Mesh Fabric, Add	1,862.17	
		For 1-1/4" Mesh Fabric, Add	1,198.64	
		For 1-3/4" Mesh Fabric, Add	744.87	
		For 2-1/8" Mesh Fabric, Deduct	-372.43	
		For Gate With Barb Wire Arm, Add	470.89	
		For Vinyl Coated, Add	1,284.26	
32 31 13 13-0575	EA	30' Long x 6' High Chain Link Galvanized Steel Sliding Gate	8,008.43	1,308.96
		For 1" Mesh Fabric, Add	2,344.91	
		For 1-1/4" Mesh Fabric, Add	1,509.37	
		For 1-3/4" Mesh Fabric, Add	937.96	
		For 2-1/8" Mesh Fabric, Deduct	-468.98	
		For Gate With Barb Wire Arm, Add	592.97	
		For Vinyl Coated, Add	1,617.18	
32 31 13 13-0576	EA	40' Long x 6' High Chain Link Galvanized Steel Sliding Gate	10,676.47	1,744.47
		For 1" Mesh Fabric, Add	3,126.55	
		For 1-1/4" Mesh Fabric, Add	2,012.49	
		For 1-3/4" Mesh Fabric, Add	1,250.62	
		For 2-1/8" Mesh Fabric, Deduct	-625.31	
		For Gate With Barb Wire Arm, Add	790.62	
		For Vinyl Coated, Add	2,156.24	
32 31 13 13-0577		7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0578	EA	10' Long x 7' High Chain Link Galvanized Steel Sliding Gate	2,843.30	488.01
		For 1" Mesh Fabric, Add	812.27	
		For 1-1/4" Mesh Fabric, Add	522.84	
		For 1-3/4" Mesh Fabric, Add	324.91	
		For 2-1/8" Mesh Fabric, Deduct	-162.45	
		For Gate With Barb Wire Arm, Add	205.40	
		For Vinyl Coated, Add	560.19	
32 31 13 13-0579	EA	12' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,411.22	585.18
		For 1" Mesh Fabric, Add	974.75	
		For 1-1/4" Mesh Fabric, Add	627.43	
		For 1-3/4" Mesh Fabric, Add	389.90	
		For 2-1/8" Mesh Fabric, Deduct	-194.95	
		For Gate With Barb Wire Arm, Add	246.49	
		For Vinyl Coated, Add	672.24	
32 31 13 13-0580	EA	14' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,980.67	683.21
		For 1" Mesh Fabric, Add	1,137.17	
		For 1-1/4" Mesh Fabric, Add	731.97	
		For 1-3/4" Mesh Fabric, Add	454.87	
		For 2-1/8" Mesh Fabric, Deduct	-227.43	
		For Gate With Barb Wire Arm, Add	287.56	
		For Vinyl Coated, Add	784.26	
32 31 13 13-0581	EA	16' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,548.50	780.39
		For 1" Mesh Fabric, Add	1,299.63	
		For 1-1/4" Mesh Fabric, Add	836.54	
		For 1-3/4" Mesh Fabric, Add	519.85	
		For 2-1/8" Mesh Fabric, Deduct	-259.93	
		For Gate With Barb Wire Arm, Add	328.64	
		For Vinyl Coated, Add	896.30	
32 31 13 13-0582	EA	18' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,117.21	878.10
		For 1" Mesh Fabric, Add	1,462.08	
		For 1-1/4" Mesh Fabric, Add	941.11	
		For 1-3/4" Mesh Fabric, Add	584.83	
		For 2-1/8" Mesh Fabric, Deduct	-292.42	
		For Gate With Barb Wire Arm, Add	369.72	
		For Vinyl Coated, Add	1,008.33	
32 31 13 13-0583	EA	20' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,685.26	975.39
		For 1" Mesh Fabric, Add	1,624.54	
		For 1-1/4" Mesh Fabric, Add	1,045.68	
		For 1-3/4" Mesh Fabric, Add	649.82	
		For 2-1/8" Mesh Fabric, Deduct	-324.91	
		For Gate With Barb Wire Arm, Add	410.80	
		For Vinyl Coated, Add	1,120.37	
32 31 13 13-0584	EA	24' Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,789.43	1,170.38
		For 1" Mesh Fabric, Add	1,935.15	
		For 1-1/4" Mesh Fabric, Add	1,245.61	
		For 1-3/4" Mesh Fabric, Add	774.06	
		For 2-1/8" Mesh Fabric, Deduct	-387.03	
		For Gate With Barb Wire Arm, Add	489.35	
		For Vinyl Coated, Add	1,334.58	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0585	EA	30'	Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	8,527.87	1,462.97
			For 1" Mesh Fabric, Add	2,436.80	
			For 1-1/4" Mesh Fabric, Add	1,568.52	
			For 1-3/4" Mesh Fabric, Add	974.72	
			For 2-1/8" Mesh Fabric, Deduct	-487.36	
			For Gate With Barb Wire Arm, Add	616.20	
			For Vinyl Coated, Add	1,680.56	
32 31 13 13-0586	EA	40'	Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	11,370.50	1,950.66
			For 1" Mesh Fabric, Add	3,249.07	
			For 1-1/4" Mesh Fabric, Add	2,091.36	
			For 1-3/4" Mesh Fabric, Add	1,299.63	
			For 2-1/8" Mesh Fabric, Deduct	-649.81	
			For Gate With Barb Wire Arm, Add	821.60	
			For Vinyl Coated, Add	2,240.74	
32 31 13 13-0587			8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0588	EA	10'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	2,979.97	528.68
			For 1" Mesh Fabric, Add	836.34	
			For 1-1/4" Mesh Fabric, Add	538.33	
			For 1-3/4" Mesh Fabric, Add	334.54	
			For 2-1/8" Mesh Fabric, Deduct	-167.27	
			For Gate With Barb Wire Arm, Add	211.49	
			For Vinyl Coated, Add	576.79	
32 31 13 13-0589	EA	12'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	3,572.93	632.93
			For 1" Mesh Fabric, Add	1,003.61	
			For 1-1/4" Mesh Fabric, Add	646.00	
			For 1-3/4" Mesh Fabric, Add	401.44	
			For 2-1/8" Mesh Fabric, Deduct	-200.72	
			For Gate With Barb Wire Arm, Add	253.79	
			For Vinyl Coated, Add	692.14	
32 31 13 13-0590	EA	14'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	4,168.47	738.45
			For 1" Mesh Fabric, Add	1,170.87	
			For 1-1/4" Mesh Fabric, Add	753.66	
			For 1-3/4" Mesh Fabric, Add	468.35	
			For 2-1/8" Mesh Fabric, Deduct	-234.17	
			For Gate With Barb Wire Arm, Add	296.08	
			For Vinyl Coated, Add	807.50	
32 31 13 13-0591	EA	16'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	4,764.22	843.98
			For 1" Mesh Fabric, Add	1,338.13	
			For 1-1/4" Mesh Fabric, Add	861.33	
			For 1-3/4" Mesh Fabric, Add	535.25	
			For 2-1/8" Mesh Fabric, Deduct	-267.63	
			For Gate With Barb Wire Arm, Add	338.38	
			For Vinyl Coated, Add	922.85	
32 31 13 13-0592	EA	18'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	5,358.80	949.08
			For 1" Mesh Fabric, Add	1,505.40	
			For 1-1/4" Mesh Fabric, Add	969.00	
			For 1-3/4" Mesh Fabric, Add	602.16	
			For 2-1/8" Mesh Fabric, Deduct	-301.08	
			For Gate With Barb Wire Arm, Add	380.68	
			For Vinyl Coated, Add	1,038.21	
32 31 13 13-0593	EA	20'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	5,954.65	1,054.71
			For 1" Mesh Fabric, Add	1,672.67	
			For 1-1/4" Mesh Fabric, Add	1,076.66	
			For 1-3/4" Mesh Fabric, Add	669.07	
			For 2-1/8" Mesh Fabric, Deduct	-334.53	
			For Gate With Barb Wire Arm, Add	422.97	
			For Vinyl Coated, Add	1,153.57	
32 31 13 13-0594	EA	24'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	7,111.98	1,265.76
			For 1" Mesh Fabric, Add	1,992.48	
			For 1-1/4" Mesh Fabric, Add	1,282.52	
			For 1-3/4" Mesh Fabric, Add	796.99	
			For 2-1/8" Mesh Fabric, Deduct	-398.50	
			For Gate With Barb Wire Arm, Add	503.85	
			For Vinyl Coated, Add	1,374.13	
32 31 13 13-0595	EA	30'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	8,932.76	1,582.44
			For 1" Mesh Fabric, Add	2,509.01	
			For 1-1/4" Mesh Fabric, Add	1,615.00	
			For 1-3/4" Mesh Fabric, Add	1,003.60	
			For 2-1/8" Mesh Fabric, Deduct	-501.80	
			For Gate With Barb Wire Arm, Add	634.46	
			For Vinyl Coated, Add	1,730.35	
32 31 13 13-0596	EA	40'	Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	11,907.18	2,108.36
			For 1" Mesh Fabric, Add	3,345.34	
			For 1-1/4" Mesh Fabric, Add	2,153.32	
			For 1-3/4" Mesh Fabric, Add	1,338.14	
			For 2-1/8" Mesh Fabric, Deduct	-669.07	
			For Gate With Barb Wire Arm, Add	845.95	
			For Vinyl Coated, Add	2,307.13	

32 31 13 13-0597 9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0598	EA	10' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,141.46	576.74
		For 1" Mesh Fabric, Add	864.78	
		For 1-1/4" Mesh Fabric, Add	556.64	
		For 1-3/4" Mesh Fabric, Add	345.91	
		For 2-1/8" Mesh Fabric, Deduct	-172.96	
		For Gate With Barb Wire Arm, Add	218.68	
		For Vinyl Coated, Add	596.40	
32 31 13 13-0599	EA	12' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,765.47	689.97
		For 1" Mesh Fabric, Add	1,037.74	
		For 1-1/4" Mesh Fabric, Add	667.97	
		For 1-3/4" Mesh Fabric, Add	415.09	
		For 2-1/8" Mesh Fabric, Deduct	-207.55	
		For Gate With Barb Wire Arm, Add	262.42	
		For Vinyl Coated, Add	715.68	
32 31 13 13-0600	EA	14' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,392.79	804.79
		For 1" Mesh Fabric, Add	1,210.69	
		For 1-1/4" Mesh Fabric, Add	779.30	
		For 1-3/4" Mesh Fabric, Add	484.28	
		For 2-1/8" Mesh Fabric, Deduct	-242.14	
		For Gate With Barb Wire Arm, Add	306.15	
		For Vinyl Coated, Add	834.96	
32 31 13 13-0601	EA	16' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,021.02	920.14
		For 1" Mesh Fabric, Add	1,383.64	
		For 1-1/4" Mesh Fabric, Add	890.62	
		For 1-3/4" Mesh Fabric, Add	553.46	
		For 2-1/8" Mesh Fabric, Deduct	-276.73	
		For Gate With Barb Wire Arm, Add	349.89	
		For Vinyl Coated, Add	954.24	
32 31 13 13-0602	EA	18' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,648.54	1,035.07
		For 1" Mesh Fabric, Add	1,556.60	
		For 1-1/4" Mesh Fabric, Add	1,001.95	
		For 1-3/4" Mesh Fabric, Add	622.64	
		For 2-1/8" Mesh Fabric, Deduct	-311.32	
		For Gate With Barb Wire Arm, Add	393.62	
		For Vinyl Coated, Add	1,073.52	
32 31 13 13-0603	EA	20' Long x 9' High Chain Link Galvanized Steel Sliding Gate	6,276.04	1,149.98
		For 1" Mesh Fabric, Add	1,729.56	
		For 1-1/4" Mesh Fabric, Add	1,113.28	
		For 1-3/4" Mesh Fabric, Add	691.82	
		For 2-1/8" Mesh Fabric, Deduct	-345.91	
		For Gate With Barb Wire Arm, Add	437.36	
		For Vinyl Coated, Add	1,192.80	
32 31 13 13-0604	EA	24' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,495.94	1,379.84
		For 1" Mesh Fabric, Add	2,060.24	
		For 1-1/4" Mesh Fabric, Add	1,326.13	
		For 1-3/4" Mesh Fabric, Add	824.10	
		For 2-1/8" Mesh Fabric, Deduct	-412.05	
		For Gate With Barb Wire Arm, Add	520.98	
		For Vinyl Coated, Add	1,420.86	
32 31 13 13-0605	EA	30' Long x 9' High Chain Link Galvanized Steel Sliding Gate	9,413.12	1,724.62
		For 1" Mesh Fabric, Add	2,594.34	
		For 1-1/4" Mesh Fabric, Add	1,669.92	
		For 1-3/4" Mesh Fabric, Add	1,037.73	
		For 2-1/8" Mesh Fabric, Deduct	-518.87	
		For Gate With Barb Wire Arm, Add	656.04	
		For Vinyl Coated, Add	1,789.20	
32 31 13 13-0606	EA	40' Long x 9' High Chain Link Galvanized Steel Sliding Gate	12,554.59	2,301.35
		For 1" Mesh Fabric, Add	3,459.12	
		For 1-1/4" Mesh Fabric, Add	2,226.56	
		For 1-3/4" Mesh Fabric, Add	1,383.65	
		For 2-1/8" Mesh Fabric, Deduct	-691.82	
		For Gate With Barb Wire Arm, Add	874.72	
		For Vinyl Coated, Add	2,385.60	
32 31 13 13-0607		10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0608	EA	10' Long x 10' High Chain Link Galvanized Steel Sliding Gate	3,342.32	634.42
		For 1" Mesh Fabric, Add	901.97	
		For 1-1/4" Mesh Fabric, Add	580.58	
		For 1-3/4" Mesh Fabric, Add	360.79	
		For 2-1/8" Mesh Fabric, Deduct	-180.39	
		For Gate With Barb Wire Arm, Add	228.09	
		For Vinyl Coated, Add	622.05	
32 31 13 13-0609	EA	12' Long x 10' High Chain Link Galvanized Steel Sliding Gate	4,010.79	761.27
		For 1" Mesh Fabric, Add	1,082.37	
		For 1-1/4" Mesh Fabric, Add	696.70	
		For 1-3/4" Mesh Fabric, Add	432.95	
		For 2-1/8" Mesh Fabric, Deduct	-216.47	
		For Gate With Barb Wire Arm, Add	273.70	
		For Vinyl Coated, Add	746.46	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0610	EA	14' Long x 10' High Chain Link Galvanized Steel Sliding Gate		4,679.69	888.34
		For 1" Mesh Fabric, Add		1,262.77	
		For 1-1/4" Mesh Fabric, Add		812.81	
		For 1-3/4" Mesh Fabric, Add		505.11	
		For 2-1/8" Mesh Fabric, Deduct		-252.55	
		For Gate With Barb Wire Arm, Add		319.32	
		For Vinyl Coated, Add		870.87	
32 31 13 13-0611	EA	16' Long x 10' High Chain Link Galvanized Steel Sliding Gate	.....	5,347.97	1,015.20
		For 1" Mesh Fabric, Add		1,443.16	
		For 1-1/4" Mesh Fabric, Add		928.93	
		For 1-3/4" Mesh Fabric, Add		577.26	
		For 2-1/8" Mesh Fabric, Deduct		-288.63	
		For Gate With Barb Wire Arm, Add		364.94	
		For Vinyl Coated, Add		995.28	
32 31 13 13-0612	EA	18' Long x 10' High Chain Link Galvanized Steel Sliding Gate	.....	6,016.18	1,141.96
		For 1" Mesh Fabric, Add		1,623.55	
		For 1-1/4" Mesh Fabric, Add		1,045.04	
		For 1-3/4" Mesh Fabric, Add		649.42	
		For 2-1/8" Mesh Fabric, Deduct		-324.71	
		For Gate With Barb Wire Arm, Add		410.55	
		For Vinyl Coated, Add		1,119.69	
32 31 13 13-0613	EA	20' Long x 10' High Chain Link Galvanized Steel Sliding Gate	.....	6,684.64	1,268.82
		For 1" Mesh Fabric, Add		1,803.95	
		For 1-1/4" Mesh Fabric, Add		1,161.16	
		For 1-3/4" Mesh Fabric, Add		721.58	
		For 2-1/8" Mesh Fabric, Deduct		-360.79	
		For Gate With Barb Wire Arm, Add		456.17	
		For Vinyl Coated, Add		1,244.10	
32 31 13 13-0614	EA	24' Long x 10' High Chain Link Galvanized Steel Sliding Gate	.....	7,986.17	1,523.18
		For 1" Mesh Fabric, Add		2,148.86	
		For 1-1/4" Mesh Fabric, Add		1,383.17	
		For 1-3/4" Mesh Fabric, Add		859.54	
		For 2-1/8" Mesh Fabric, Deduct		-429.77	
		For Gate With Barb Wire Arm, Add		543.39	
		For Vinyl Coated, Add		1,481.97	
32 31 13 13-0615	EA	30' Long x 10' High Chain Link Galvanized Steel Sliding Gate	.....	10,026.97	1,903.24
		For 1" Mesh Fabric, Add		2,705.92	
		For 1-1/4" Mesh Fabric, Add		1,741.74	
		For 1-3/4" Mesh Fabric, Add		1,082.37	
		For 2-1/8" Mesh Fabric, Deduct		-541.18	
		For Gate With Barb Wire Arm, Add		684.26	
		For Vinyl Coated, Add		1,866.15	
32 31 13 13-0616	EA	40' Long x 10' High Chain Link Galvanized Steel Sliding Gate	.....	13,366.27	2,536.16
		For 1" Mesh Fabric, Add		3,607.90	
		For 1-1/4" Mesh Fabric, Add		2,322.33	
		For 1-3/4" Mesh Fabric, Add		1,443.16	
		For 2-1/8" Mesh Fabric, Deduct		-721.58	
		For Gate With Barb Wire Arm, Add		912.34	
		For Vinyl Coated, Add		2,488.21	
32 31 13 13-0617		Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller ⁽³²⁾			
		31 13 13-0263)			
		Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.			
32 31 13 13-0618	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate	.....	5,076.25	422.52
		For 1" Mesh Fabric, Add		1,840.58	
		For 1-1/4" Mesh Fabric, Add		1,184.74	
		For 1-3/4" Mesh Fabric, Add		736.23	
		For 2-1/8" Mesh Fabric, Deduct		-368.12	
		For Gate With Single Barb Wire Arm, Add		465.43	
		For Gate With Double Barb Wire Arm, Add		677.00	
		For Aluminized Steel Gate And Post, Add		2,030.99	
		For Powder Coated Gate And Post, Add		888.56	
		For Vinyl Coated, Add		1,269.37	
32 31 13 13-0619	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate	.....	5,575.54	528.15
		For 1" Mesh Fabric, Add		1,965.87	
		For 1-1/4" Mesh Fabric, Add		1,265.39	
		For 1-3/4" Mesh Fabric, Add		786.35	
		For 2-1/8" Mesh Fabric, Deduct		-393.17	
		For Gate With Single Barb Wire Arm, Add		497.12	
		For Gate With Double Barb Wire Arm, Add		723.08	
		For Aluminized Steel Gate And Post, Add		2,169.24	
		For Powder Coated Gate And Post, Add		949.04	
		For Vinyl Coated, Add		1,355.78	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0620	EA		5' High x 15' Wide Galvanized Cantilever Sliding Gate.....	6,078.80	633.78
			For 1" Mesh Fabric, Add	2,092.89	
			For 1-1/4" Mesh Fabric, Add	1,347.15	
			For 1-3/4" Mesh Fabric, Add	837.16	
			For 2-1/8" Mesh Fabric, Deduct	-418.58	
			For Gate With Single Barb Wire Arm, Add	529.24	
			For Gate With Double Barb Wire Arm, Add	769.80	
			For Aluminized Steel Gate And Post, Add	2,309.40	
			For Powder Coated Gate And Post, Add	1,010.36	
			For Vinyl Coated, Add	1,443.37	
32 31 13 13-0621	EA		5' High x 20' Wide Galvanized Cantilever Sliding Gate.....	7,142.81	845.03
			For 1" Mesh Fabric, Add	2,371.94	
			For 1-1/4" Mesh Fabric, Add	1,526.77	
			For 1-3/4" Mesh Fabric, Add	948.78	
			For 2-1/8" Mesh Fabric, Deduct	-474.39	
			For Gate With Single Barb Wire Arm, Add	599.80	
			For Gate With Double Barb Wire Arm, Add	872.44	
			For Aluminized Steel Gate And Post, Add	2,617.32	
			For Powder Coated Gate And Post, Add	1,145.08	
			For Vinyl Coated, Add	1,635.82	
32 31 13 13-0622	EA		6' High x 15' Wide Galvanized Cantilever Sliding Gate.....	6,645.08	845.03
			For 1" Mesh Fabric, Add	2,155.43	
			For 1-1/4" Mesh Fabric, Add	1,387.40	
			For 1-3/4" Mesh Fabric, Add	862.17	
			For 2-1/8" Mesh Fabric, Deduct	-431.09	
			For Gate With Single Barb Wire Arm, Add	545.05	
			For Gate With Double Barb Wire Arm, Add	792.80	
			For Aluminized Steel Gate And Post, Add	2,378.40	
			For Powder Coated Gate And Post, Add	1,040.55	
			For Vinyl Coated, Add	1,486.50	
32 31 13 13-0623	EA		6' High x 20' Wide Galvanized Cantilever Sliding Gate.....	7,798.55	1,109.11
			For 1" Mesh Fabric, Add	2,427.44	
			For 1-1/4" Mesh Fabric, Add	1,562.49	
			For 1-3/4" Mesh Fabric, Add	970.98	
			For 2-1/8" Mesh Fabric, Deduct	-485.49	
			For Gate With Single Barb Wire Arm, Add	613.84	
			For Gate With Double Barb Wire Arm, Add	892.85	
			For Aluminized Steel Gate And Post, Add	2,678.56	
			For Powder Coated Gate And Post, Add	1,171.87	
			For Vinyl Coated, Add	1,674.10	
32 31 13 13-0624	EA		6' High x 25' Wide Galvanized Cantilever Sliding Gate.....	10,330.83	1,373.18
			For 1" Mesh Fabric, Add	3,299.24	
			For 1-1/4" Mesh Fabric, Add	2,123.65	
			For 1-3/4" Mesh Fabric, Add	1,319.70	
			For 2-1/8" Mesh Fabric, Deduct	-659.85	
			For Gate With Single Barb Wire Arm, Add	834.29	
			For Gate With Double Barb Wire Arm, Add	1,213.51	
			For Aluminized Steel Gate And Post, Add	3,640.54	
			For Powder Coated Gate And Post, Add	1,592.74	
			For Vinyl Coated, Add	2,275.34	
32 31 13 13-0625	EA		6' High x 30' Wide Galvanized Cantilever Sliding Gate.....	11,644.91	1,637.26
			For 1" Mesh Fabric, Add	3,641.12	
			For 1-1/4" Mesh Fabric, Add	2,343.71	
			For 1-3/4" Mesh Fabric, Add	1,456.45	
			For 2-1/8" Mesh Fabric, Deduct	-728.22	
			For Gate With Single Barb Wire Arm, Add	920.74	
			For Gate With Double Barb Wire Arm, Add	1,339.26	
			For Aluminized Steel Gate And Post, Add	4,017.79	
			For Powder Coated Gate And Post, Add	1,757.78	
			For Vinyl Coated, Add	2,511.12	
32 31 13 13-0626	EA		8' High x 15' Wide Galvanized Cantilever Sliding Gate.....	7,781.65	1,056.29
			For 1" Mesh Fabric, Add	2,466.04	
			For 1-1/4" Mesh Fabric, Add	1,587.34	
			For 1-3/4" Mesh Fabric, Add	986.42	
			For 2-1/8" Mesh Fabric, Deduct	-493.21	
			For Gate With Single Barb Wire Arm, Add	623.60	
			For Gate With Double Barb Wire Arm, Add	907.05	
			For Aluminized Steel Gate And Post, Add	2,721.15	
			For Powder Coated Gate And Post, Add	1,190.50	
			For Vinyl Coated, Add	1,700.72	
32 31 13 13-0627	EA		8' High x 20' Wide Galvanized Cantilever Sliding Gate.....	9,235.43	1,426.00
			For 1" Mesh Fabric, Add	2,776.79	
			For 1-1/4" Mesh Fabric, Add	1,787.36	
			For 1-3/4" Mesh Fabric, Add	1,110.72	
			For 2-1/8" Mesh Fabric, Deduct	-555.36	
			For Gate With Single Barb Wire Arm, Add	702.18	
			For Gate With Double Barb Wire Arm, Add	1,021.35	
			For Aluminized Steel Gate And Post, Add	3,064.05	
			For Powder Coated Gate And Post, Add	1,340.52	
			For Vinyl Coated, Add	1,915.03	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 31 13 13-0628	EA 8' High x 25' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	12,267.35 3,774.04 2,429.27 1,509.62 -754.81 954.35 1,388.15 4,164.46 1,821.95 2,602.79		1,795.70
32 31 13 13-0629	EA 8' High x 30' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	13,799.08 4,164.65 2,680.69 1,665.86 -832.93 1,053.13 1,531.82 4,595.47 2,010.52 2,872.17		2,112.59
32 31 13 13-0630	Gate Accessories (32 31 13 13-0263)			
32 31 13 13-0631	EA Gate Center Stop, Cast Steel, Ground	36.33		
32 31 13 13-0632	EA Gate Latch, Malleable Galvanized Steel	43.07		
32 31 13 13-0633	EA Gate Keeper, Full Length, Galvanized Steel.....	196.15		
32 31 13 13-0634	EA Gate Keeper Hold-Open For Cantilever Gate.....	95.03		17.07
32 31 13 13-0635	EA Heavy Duty Gate Latch, Malleable Galvanized Steel	53.44		
32 31 13 13-0636	EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	821.28		
32 31 13 13-0637	EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >5' To 8' High Gate	880.89		
32 31 13 13-0638	EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >8' To 12' High Gate	940.49		
32 31 13 13-0639	LF Aluminum V-Groove Gate Track.....	53.62		9.61
32 31 13 13-0640	LF Galvanized Steel V-Groove Gate Track.....	42.65		9.61
32 31 13 13-0641	Vertical-Pivot Lift Gate (32 31 13 13-0263) Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.			
32 31 13 13-0642	EA 5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	19,521.81 239.00 245.00		792.22
32 31 13 13-0643	EA 5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	19,838.70 239.00 245.00		950.67
32 31 13 13-0644	EA 5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	20,155.59 239.00 245.00 287.50		1,109.11
32 31 13 13-0645	EA 5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	20,697.40 239.00 245.00 317.50		1,267.56
32 31 13 13-0646	EA 5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	21,227.95 239.00 245.00 317.50		1,426.00
32 31 13 13-0647	EA 6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	20,435.74 239.00 245.00		1,029.88
32 31 13 13-0648	EA 6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	20,752.63 239.00 245.00		1,188.33
32 31 13 13-0649	EA 6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	21,069.52 239.00 245.00 287.50		1,346.77
32 31 13 13-0650	EA 6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	21,510.11 239.00 245.00 317.50		1,505.22
32 31 13 13-0651	EA 6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	22,141.88 239.00 245.00 317.50		1,663.66
32 31 13 13-0652	Accessories (32 31 13 13)			
32 31 13 13-0653	Barbed And Concertina Wire (32 31 13 13-0652)			
32 31 13 13-0654	Single Strand Barbed Wire (32 31 13 13-0653)			

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0655	LF		Galvanized Barbed Wire, Per Strand.....0.98		0.45
			Note: Includes clips. 4 points 12-1/2 Gauge, Class I.		
			For >500 To 2,000, Deduct	-0.09	
			For >2,000, Deduct	-0.14	
32 31 13 13-0656	LF		Vinyl Coated Barbed Wire (Fused), Per Strand 1.11		0.45
			Note: Includes clips.		
			For >500 To 2,000, Deduct	-0.10	
			For >2,000, Deduct	-0.15	
32 31 13 13-0657	EA		Barbed Wire Extension Arms 3 Strands (Single Arm).....10.66		7.18
32 31 13 13-0658	EA		Barbed Wire Extension Arms 6 Strands (Double Arm) 17.18		8.62
32 31 13 13-0659	EA		Barbed Wire Eye Tops (For Single Strand).....10.99		7.18
32 31 13 13-0660 Galvanized Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0653)					
32 31 13 13-0661	LF		18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....3.61		0.63
			For >500 To 1,500, Deduct	-0.32	
			For >1,500 To 5,000, Deduct	-0.63	
			For >5,000, Deduct	-0.90	
			For Ground Installation, Deduct	-0.45	
			For Double Coil (Helix), Add	2.71	
32 31 13 13-0662	LF		18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....5.43		0.63
			For >500 To 1,500, Deduct	-0.47	
			For >1,500 To 5,000, Deduct	-0.95	
			For >5,000, Deduct	-1.36	
			For Ground Installation, Deduct	-0.67	
			For Double Coil (Helix), Add	4.09	
32 31 13 13-0663	LF		18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence 7.20		0.63
			For >500 To 1,500, Deduct	-0.63	
			For >1,500 To 5,000, Deduct	-1.26	
			For >5,000, Deduct	-1.80	
			For Ground Installation, Deduct	-0.90	
			For Double Coil (Helix), Add	5.41	
32 31 13 13-0664	LF		24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....5.85		0.63
			For >500 To 1,500, Deduct	-0.49	
			For >1,500 To 5,000, Deduct	-0.98	
			For >5,000, Deduct	-1.37	
			For Ground Installation, Deduct	-0.50	
			For Double Coil (Helix), Add	4.85	
32 31 13 13-0665	LF		24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....8.83		0.63
			For >500 To 1,500, Deduct	-0.74	
			For >1,500 To 5,000, Deduct	-1.47	
			For >5,000, Deduct	-2.07	
			For Ground Installation, Deduct	-0.75	
			For Double Coil (Helix), Add	7.33	
32 31 13 13-0666	LF		24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence 11.65		0.63
			For >500 To 1,500, Deduct	-0.97	
			For >1,500 To 5,000, Deduct	-1.95	
			For >5,000, Deduct	-2.73	
			For Ground Installation, Deduct	-0.99	
			For Double Coil (Helix), Add	9.67	
32 31 13 13-0667	LF		30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....17.34		0.63
			For >500 To 1,500, Deduct	-1.36	
			For >1,500 To 5,000, Deduct	-2.71	
			For >5,000, Deduct	-3.69	
			For Ground Installation, Deduct	-0.56	
			For Double Coil (Helix), Add	16.22	
32 31 13 13-0668	LF		30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....26.22		0.63
			For >500 To 1,500, Deduct	-2.05	
			For >1,500 To 5,000, Deduct	-4.10	
			For >5,000, Deduct	-5.58	
			For Ground Installation, Deduct	-0.84	
			For Double Coil (Helix), Add	24.54	
32 31 13 13-0669	LF		30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence 34.67		0.63
			For >500 To 1,500, Deduct	-2.71	
			For >1,500 To 5,000, Deduct	-5.43	
			For >5,000, Deduct	-7.38	
			For Ground Installation, Deduct	-1.12	
			For Double Coil (Helix), Add	32.43	

32 31 13 13-0670 Stainless Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0653)



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0671	LF		18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	6.20	0.63
			For >500 To 1,500, Deduct	-0.51	
			For >1,500 To 5,000, Deduct	-1.02	
			For >5,000, Deduct	-1.42	
			For Ground Installation, Deduct	-0.45	
			For Double Coil (Helix), Add	5.30	
32 31 13 13-0672	LF		18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	9.35	0.63
			For >500 To 1,500, Deduct	-0.77	
			For >1,500 To 5,000, Deduct	-1.54	
			For >5,000, Deduct	-2.14	
			For Ground Installation, Deduct	-0.67	
			For Double Coil (Helix), Add	8.01	
32 31 13 13-0673	LF		18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	12.38	0.63
			For >500 To 1,500, Deduct	-1.02	
			For >1,500 To 5,000, Deduct	-2.04	
			For >5,000, Deduct	-2.84	
			For Ground Installation, Deduct	-0.90	
			For Double Coil (Helix), Add	10.59	
32 31 13 13-0674	LF		24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	8.04	0.63
			For >500 To 1,500, Deduct	-0.65	
			For >1,500 To 5,000, Deduct	-1.31	
			For >5,000, Deduct	-1.81	
			For Ground Installation, Deduct	-0.50	
			For Double Coil (Helix), Add	7.04	
32 31 13 13-0675	LF		24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	12.16	0.63
			For >500 To 1,500, Deduct	-0.99	
			For >1,500 To 5,000, Deduct	-1.97	
			For >5,000, Deduct	-2.73	
			For Ground Installation, Deduct	-0.75	
			For Double Coil (Helix), Add	10.66	
32 31 13 13-0676	LF		24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	16.05	0.63
			For >500 To 1,500, Deduct	-1.30	
			For >1,500 To 5,000, Deduct	-2.61	
			For >5,000, Deduct	-3.61	
			For Ground Installation, Deduct	-0.99	
			For Double Coil (Helix), Add	14.07	
32 31 13 13-0677	LF		30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	25.66	0.63
			For >500 To 1,500, Deduct	-1.98	
			For >1,500 To 5,000, Deduct	-3.96	
			For >5,000, Deduct	-5.36	
			For Ground Installation, Deduct	-0.56	
			For Double Coil (Helix), Add	24.54	
32 31 13 13-0678	LF		30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	38.83	0.63
			For >500 To 1,500, Deduct	-3.00	
			For >1,500 To 5,000, Deduct	-5.99	
			For >5,000, Deduct	-8.10	
			For Ground Installation, Deduct	-0.84	
			For Double Coil (Helix), Add	37.15	
32 31 13 13-0679	LF		30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	51.31	0.63
			For >500 To 1,500, Deduct	-3.96	
			For >1,500 To 5,000, Deduct	-7.92	
			For >5,000, Deduct	-10.71	
			For Ground Installation, Deduct	-1.12	
			For Double Coil (Helix), Add	49.07	
32 31 13 13-0680			Grounding For Gates (32 31 13 13-0652) Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0681	OPN		Grounding For Gates (Per Opening)	462.67	
32 31 13 13-0682			Coiled Spring Reinforcing Wire (32 31 13 13-0652)		
32 31 13 13-0683			Galvanized Steel (32 31 13 13-0682)		
32 31 13 13-0684	LF		7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring	1.08	0.45
32 31 13 13-0685			Vinyl Coated Steel (32 31 13 13-0682)		
32 31 13 13-0686	LF		9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring	1.08	0.45
32 31 13 13-0687			Bending Of Fabric Around Pipe Railings (32 31 13 13-0652) Note: Only where specified.		
32 31 13 13-0688	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Top	1.41	
32 31 13 13-0689	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Bottom	1.23	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0690		Mounting Plate With Anchors Or Bolts (32 31 13 13-0652) Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0691	EA	Mounting Plate For 1-5/8" Diameter Post.....	38.85	
32 31 13 13-0692	EA	Mounting Plate For 2" Diameter Post.....	39.48	
32 31 13 13-0693	EA	Mounting Plate For 2-1/2" Diameter Post.....	40.61	
32 31 13 13-0694	EA	Mounting Plate For 3" Diameter Post.....	48.87	
32 31 13 13-0695	EA	Mounting Plate For 4" Diameter Post.....	56.16	
32 31 13 13-0696	EA	Mounting Plate For 6-5/8" Diameter Post.....	65.02	
32 31 13 13-0697	EA	Mounting Plate For 8-5/8" Diameter Post.....	76.62	
32 31 13 13-0698		Tension Bar (32 31 13 13-0652)		
32 31 13 13-0699	EA	3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	14.13	
32 31 13 13-0700	EA	3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	15.02	
32 31 13 13-0701	EA	4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	18.45	
32 31 13 13-0702	EA	5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	21.35	
32 31 13 13-0703	EA	6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	25.17	
32 31 13 13-0704	EA	7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	29.17	
32 31 13 13-0705	EA	8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	32.97	
32 31 13 13-0706	EA	9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	39.50	
32 31 13 13-0707	EA	10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	47.25	
32 31 13 13-0708		Truss Rods (32 31 13 13-0652)		
32 31 13 13-0709	LF	3/8" Diameter Truss Rods.....	1.87	0.50
32 31 13 13-0710		Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0711		Fence And Gate Parts Replacement (32 31 13 13-0710)		
32 31 13 13-0712	EA	Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement	115.02	
32 31 13 13-0713	EA	Sliding Gate Roller Assembly Replacement	112.39	
32 31 13 13-0714	EA	Rod And Lock Gate Keeper Replacement	114.70	
32 31 13 13-0715	EA	Galvanized Gate Holdback Replacement	25.08	
32 31 13 13-0716	LF	3/8" Cross Bracing Rod Replacement.....	1.47	
32 31 13 13-0717	LF	1-5/8" Diagonal Pipe Bracing Replacement	2.30	
32 31 13 13-0718	EA	2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	26.52	
32 31 13 13-0719	EA	2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	30.15	
32 31 13 13-0720	EA	3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	33.94	
32 31 13 13-0721	EA	6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	50.73	
32 31 13 13-0722	EA	8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	93.65	
32 31 13 13-0723	EA	2-1/2" x 2" Off Set Gate Hinge Replacement	23.64	
32 31 13 13-0724	EA	3" x 2" Off Set Gate Hinge Replacement	24.67	
32 31 13 13-0725	EA	4" x 2" Off Set Gate Hinge Replacement	26.31	
32 31 13 13-0726	EA	6-5/8" x 2" Off Set Gate Hinge Replacement	43.25	
32 31 13 13-0727	EA	8-5/8" x 2" Off Set Gate Hinge Replacement	68.35	
32 31 13 13-0728	EA	1-5/8" Aluminum Die-Cast Post Cap Replacement	4.89	
32 31 13 13-0729	EA	2" Aluminum Die-Cast Post Cap Replacement	5.36	
32 31 13 13-0730	EA	2-1/2" Aluminum Die-Cast Post Cap Replacement	6.18	
32 31 13 13-0731	EA	3" Aluminum Die-Cast Post Cap Replacement	7.13	
32 31 13 13-0732	EA	2" Galvanized Post Cap Replacement	5.79	
32 31 13 13-0733	EA	2-1/2" Galvanized Post Cap Replacement	6.27	
32 31 13 13-0734	EA	3" Galvanized Post Cap Replacement	7.20	
32 31 13 13-0735	EA	4" Galvanized Post Cap Replacement	10.76	
32 31 13 13-0736	EA	6-5/8" Galvanized Post Cap Replacement	20.42	
32 31 13 13-0737	EA	8-5/8" Galvanized Post Cap Replacement	33.60	
32 31 13 13-0738	EA	1-5/8" Boulevard Clamp Replacement	9.64	
32 31 13 13-0739	EA	2" Boulevard Clamp Replacement	11.76	
32 31 13 13-0740	EA	2-1/2" Boulevard Clamp Replacement	13.79	
32 31 13 13-0741	EA	3" Boulevard Clamp Replacement	16.74	
32 31 13 13-0742	EA	1-5/8" Gate Brace Or End Rail Clamp Replacement	9.44	
32 31 13 13-0743	EA	2" Gate Brace Or End Rail Clamp Replacement	11.49	
32 31 13 13-0744	EA	2-1/2" Gate Brace Or End Rail Clamp Replacement	13.52	
32 31 13 13-0745	EA	3" Gate Brace Or End Rail Clamp Replacement	16.45	
32 31 13 13-0746	EA	1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	9.83	
32 31 13 13-0747	EA	1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	9.91	
32 31 13 13-0748	EA	2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.15	
32 31 13 13-0749	EA	2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.04	
32 31 13 13-0750	EA	3" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.22	
32 31 13 13-0751	EA	3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.36	
32 31 13 13-0752	EA	4" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.78	
32 31 13 13-0753	EA	6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	13.81	
32 31 13 13-0754		Removal And Reinstallation Of Chain Link Fences (32 31 13 13) Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.		
32 31 13 13-0755	LF	Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	17.96	
32 31 13 13-0756	LF	Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	26.94	



Exterior Improvements		32
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 16 Welded Wire Fences and Gates (32 31)				
32 31 16 00-0001		Welded Wire Fence (32 31 16)		
32 31 16 00-0002		12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001)		
		Note: Posts 5' on center.		
32 31 16 00-0003	LF	3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	8.82	1.59
32 31 16 00-0004	LF	5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	9.52	1.59
32 31 16 00-0005		14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001)		
		Note: Posts 5' on center.		
32 31 16 00-0006	LF	3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	8.67	1.59
32 31 16 00-0007	LF	5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	9.30	1.59
32 31 26 Wire Fences and Gates (32 31)				
32 31 26 13 Wire Fences with Steel Posts (32 31 26)				
32 31 26 13-0001		Chicken Wire (32 31 26 13)		
		Note: Posts at 4'.		
32 31 26 13-0002	LF	4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	7.59	1.59
32 31 26 13-0003	LF	6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.26	1.59
32 31 26 13-0004		Wire And Screen (32 31 26 13)		
32 31 26 13-0005		Wire And Screen For Partitions And Fences (32 31 26 13-0004)		
		Note: Excludes framing and post.		
32 31 26 13-0006		Screen Wire (32 31 26 13-0005)		
32 31 26 13-0007	LF	Screen Wire, 48" Wide Rolls.....	13.12	1.18
32 31 26 13-0008		Hog Wire (32 31 26 13-0005)		
32 31 26 13-0009	SF	4" x 4" Hog Wire For Fencing.....	2.35	0.94
32 31 26 13-0010	SF	6" x 6" Hog Wire For Fencing.....	2.46	1.06
32 31 26 13-0011		Non-Climb Horse Fence (32 31 26 13-0005)		
32 31 26 13-0012	LF	4' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	10.53	3.77
32 31 26 13-0013	LF	5' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	13.47	4.71
32 31 26 13-0014	LF	6' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	16.81	5.66
32 31 26 13-0015		Screen For Partitions And Ceilings (32 31 26 13-0004)		
		Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF	1" Mesh Chicken Wire.....	2.12	
32 31 26 13-0017		Wicket Fence (32 31 26 13)		
32 31 26 13-0018	LF	Steel Wicket Fence, Painted.....	66.42	5.11
32 31 29 Wood Fences and Gates (32 31)				
		See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001		Basket Weave (32 31 29)		
		Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF	6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post.....	37.92	3.17
		For Fastening With Screws Instead Of Nails, Add	2.23	
32 31 29 00-0003	LF	6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post.....	25.13	3.17
		For Fastening With Screws Instead Of Nails, Add	1.61	
32 31 29 00-0004		Board Fence (32 31 29)		
		Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF	Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence.....	25.30	3.17
		For 1" x 6" Boards, Deduct	-2.62	
		For 1" x 3" Boards (Stockade Top), Add	3.24	
		For Fastening With Screws Instead Of Nails, Add	1.63	
32 31 29 00-0006	LF	Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence.....	28.19	3.17
		For 1" x 6" Boards, Deduct	-2.85	
		For 1" x 3" Boards (Stockade Top), Add	3.51	
		For Fastening With Screws Instead Of Nails, Add	1.80	
32 31 29 00-0007	LF	Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence.....	31.56	3.17
		For 1" x 6" Boards, Deduct	-3.06	
		For 1" x 3" Boards (Stockade Top), Add	3.72	
		For Fastening With Screws Instead Of Nails, Add	1.99	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0008	LF	Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	33.73 -3.21 3.89 2.11	3.17
32 31 29 00-0009	LF	Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	36.08 -3.38 4.07 2.24	3.17
32 31 29 00-0010	LF	Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	27.11 -2.69 3.30 1.72	3.17
32 31 29 00-0011	LF	Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	29.58 -2.91 3.55 1.87	3.17
32 31 29 00-0012	LF	Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	31.56 -3.06 3.72 1.99	3.17
32 31 29 00-0013	LF	Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	33.73 -3.21 3.89 2.11	3.17
32 31 29 00-0014	LF	Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	36.08 -3.38 4.07 2.24	3.17
32 31 29 00-0015	LF	Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	27.11 -2.69 3.30 1.72	3.17
32 31 29 00-0016	LF	Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	35.74 -3.16 3.74 2.18	3.17
32 31 29 00-0017	LF	Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	37.47 -3.29 3.90 2.28	3.17
32 31 29 00-0018	LF	Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	40.33 -3.48 4.09 2.44	3.17
32 31 29 00-0019	LF	Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	43.44 -3.67 4.30 2.61	3.17
32 31 29 00-0020		Shadow Box (32 31 29) Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021	LF	Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine <i>For Fastening With Screws Instead Of Nails, Add</i>	51.15 2.89	3.17
32 31 29 00-0022	LF	Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	64.22 3.60	3.17
32 31 29 00-0023	LF	Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	69.94 3.90	3.17
32 31 29 00-0024	LF	Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	75.15 4.19	3.17
32 31 29 00-0025		Open Rail Fence (32 31 29)		
32 31 29 00-0026		Post And Rail Fence, Ranch Style (32 31 29 00-0025)		
32 31 29 00-0027	LF	Post And Rail Fence, 2 Rails, 3' High #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	25.04 1.65	3.17
32 31 29 00-0028	LF	Post And Rail Fence, 2 Rails, 3' High #2 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	19.49 1.58	3.17
32 31 29 00-0029	LF	Post And Rail Fence, 3 Rails, 4' High #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	29.71 1.58	3.17
32 31 29 00-0030	LF	Post And Rail Fence, 3 Rails, 4' High #2 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	21.05 1.58	3.17
32 31 29 00-0031		Split Rail Fence (32 31 29 00-0025)		
32 31 29 00-0032	LF	Split Rail Fence, 2 Rails, 3' High #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	23.61 1.65	3.17
32 31 29 00-0033	LF	Split Rail Fence, 2 Rails, 3' High #2 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	19.42 1.58	3.17
32 31 29 00-0034	LF	Split Rail Fence, 3 Rail, 4' High #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	26.98 1.58	3.17
32 31 29 00-0035	LF	Split Rail Fence, 3 Rail, 4' High #2 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	21.86 1.58	3.17
32 31 29 00-0036		Picket Fence (32 31 29)		
32 31 29 00-0037	LF	Picket Fence, 2 Rail, 3' High, Pressure Treated <i>For Fastening With Screws Instead Of Nails, Add</i>	25.38 1.65	3.17
32 31 29 00-0038	LF	Picket Fence, 2 Rail, 3' High #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	23.93 1.58	3.17



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0039 Wood Fence Post Accessories (32 31 29)		
32 31 29 00-0040 EA 3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	38.68	
32 31 29 00-0041 EA 4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	43.25	
32 31 29 00-0042 EA 6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	47.13	
32 31 29 00-0043 EA 8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	69.27	
32 31 29 00-0044 Wood Gate (32 31 29)		
32 31 29 00-0045 Board Fence Gates, Pressure Treated Wood (32 31 29 00-0044)		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046 EA 3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	420.07	131.88
32 31 29 00-0047 EA 3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	464.04	139.80
32 31 29 00-0048 EA 3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	518.54	152.98
32 31 29 00-0049 EA 3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	587.52	160.89
32 31 29 00-0050 EA 3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	656.48	168.81
32 31 29 00-0051 EA >5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	535.73	174.08
32 31 29 00-0052 EA >5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	582.82	181.99
32 31 29 00-0053 EA >5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	629.91	189.91
32 31 29 00-0054 EA >5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	708.26	197.82
32 31 29 00-0055 EA >5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	770.97	205.73
32 31 29 00-0056 Board Fence Gates, Grade 2 Cedar (32 31 29 00-0044)		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057 EA 3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	620.26	99.11
32 31 29 00-0058 EA 3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	641.54	105.06
32 31 29 00-0059 EA 3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	673.86	114.97
32 31 29 00-0060 EA 3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	710.76	120.92
32 31 29 00-0061 EA 3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	757.05	126.87
32 31 29 00-0062 EA >5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	730.59	130.83
32 31 29 00-0063 EA >5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	758.11	136.77
32 31 29 00-0064 EA >5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	801.26	142.72
32 31 29 00-0065 EA >5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	844.42	148.66
32 31 29 00-0066 EA >5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	887.58	154.61
32 31 29 00-0067 Board Fence Gates, Grade 1 Cedar (32 31 29 00-0044)		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068 EA 3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	667.15	99.11
32 31 29 00-0069 EA 3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	694.68	105.06
32 31 29 00-0070 EA 3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	730.13	114.97
32 31 29 00-0071 EA 3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	773.28	120.92
32 31 29 00-0072 EA 3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	816.45	126.87
32 31 29 00-0073 EA >5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	793.11	130.83
32 31 29 00-0074 EA >5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	820.63	136.77
32 31 29 00-0075 EA >5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	863.79	142.72
32 31 29 00-0076 EA >5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	906.95	148.66
32 31 29 00-0077 EA >5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	965.73	154.61
32 31 29 00-0078 Pressure Treated Wood Fence Posts (32 31 29)		
See CSI section 32 31 13 13-0001 for drilling augering, 32 31 56 00-0017 for barbed wire.		
32 31 29 00-0079 EA 4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill.....	40.03	13.19
32 31 29 00-0080 EA 6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill.....	44.97	13.19
32 31 29 00-0081 EA 4' High, Pressure Treated Wood Fence Posts, Set In Concrete	70.66	25.32
32 31 29 00-0082 EA 6' High, Pressure Treated Wood Fence Posts, Set In Concrete	76.27	25.32
32 31 29 00-0083 Wood Utility Pole Fence (32 31 29)		
Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.		
32 31 29 00-0084 LF Wood Utility Pole Barrier Fence.....	49.04	3.17
Note: Includes notching post, drilling and pinned with #5 rebar.		
32 31 29 00-0085 Wood Rail Fence (32 31 29)		
Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086 LF 4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	23.93	3.17
32 31 34 Tubular Barrier Gates (32 31)		
32 31 34 00-0001 Tube Gate (32 31 34)		
See CSI section 32 31 13 13-0001 for augering post holes and concrete fill, 32 31 13 13-0630 for gate accessories.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 34 00-0002		50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering, concrete, bollard and chain.		
32 31 34 00-0003	EA	4' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate..... For 13 Gauge Tubing, Add For Galvanized Finish, Add	172.08 27.23 15.04	24.25
32 31 34 00-0004	EA	6' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate..... For 13 Gauge Tubing, Add For Galvanized Finish, Add	223.77 35.33 19.42	31.43
32 31 34 00-0005	EA	8' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate..... For 13 Gauge Tubing, Add For Galvanized Finish, Add	301.25 48.13 27.00	40.41
32 31 34 00-0006	EA	10' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate..... For 13 Gauge Tubing, Add For Galvanized Finish, Add	348.92 54.52 29.44	50.29
32 31 34 00-0007	EA	12' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate..... For 13 Gauge Tubing, Add For Galvanized Finish, Add	413.76 64.79 35.12	59.81
32 31 34 00-0008	EA	14' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate..... For 13 Gauge Tubing, Add For Galvanized Finish, Add	452.45 70.28 37.56	67.35
32 31 34 00-0009	EA	16' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate..... For 13 Gauge Tubing, Add For Galvanized Finish, Add	530.81 82.81 44.60	77.68
32 31 34 00-0010		33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.		
32 31 34 00-0011	EA	4' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	222.47 60.25	24.25
32 31 34 00-0012	EA	6' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	267.16 69.15	31.43
32 31 34 00-0013	EA	8' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	320.25 79.60	40.41
32 31 34 00-0014	EA	10' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	370.55 87.15	50.29
32 31 34 00-0015	EA	12' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	421.00 96.56	59.81
32 31 34 00-0016	EA	14' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	466.75 105.88	67.35
32 31 34 00-0017	EA	16' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	522.29 115.52	77.68
32 31 34 00-0018	EA	18' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	599.72 133.92	87.43
32 31 34 00-0019	EA	20' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	665.12 158.28	97.79
32 31 34 00-0020		33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.		
32 31 34 00-0021	EA	4' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	240.12 67.31	24.25
32 31 34 00-0022	EA	6' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	284.51 76.09	31.43
32 31 34 00-0023	EA	8' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	332.01 84.31	40.41
32 31 34 00-0024	EA	10' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	387.71 94.02	50.29
32 31 34 00-0025	EA	12' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	433.40 101.52	59.81
32 31 34 00-0026	EA	14' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	495.70 117.46	67.35
32 31 34 00-0027	EA	16' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	553.73 128.09	77.68
32 31 34 00-0028	EA	18' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	647.69 153.10	87.43
32 31 34 00-0029	EA	20' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	708.26 175.54	97.79
32 31 34 00-0030		Tubular Steel Barrier Gate (Triangular Shape) (32 31 34 00-0001) Note: Includes posts, caps, welded hinges and lock keeper. Excludes augering, concrete, and bollards.		
32 31 34 00-0031	EA	4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	1,896.60 616.24	50.29
32 31 34 00-0032	EA	4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	2,058.72 660.75	59.81
32 31 34 00-0033	EA	4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post..... For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	2,436.87 794.04	67.35



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 34 00-0034 EA 4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	1,967.60 644.35	50.29
32 31 34 00-0035 EA 4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,139.87 692.88	59.81
32 31 34 00-0036 EA 4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,518.02 826.17	67.35
32 31 34 00-0037 Four Rail Tube Gate, 1-1/2" Diameter Welded Galvanized Steel Tubing (32 31 34 00-0001) Note: Excludes augering holes and concrete.		
32 31 34 00-0038 EA 4' Four Rail Metal Frame Tube Gate, 1-1/2" Diameter Welded Galvanized Steel With Posts..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	404.98 32.67	24.25
32 31 34 00-0039 Tubular Horse Gate (32 31 34 00-0001) Note: Includes posts, caps and hardware. Treated with Natina (or Equal) galvanized surface stain "rustic brown finish". Excludes augering holes and concrete.		
32 31 34 00-0040 EA 5-1/2' Above Ground, 5' Wide Tubular Galvanized Steel Horse Gate With 3" Diameter Posts..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	3,071.07 887.16	24.25
32 31 34 00-0041 Pipe Gate (32 31 34) Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.		
32 31 34 00-0042 EA 20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	3,330.84	
32 31 34 00-0043 EA 25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	4,164.33	
32 31 34 00-0044 EA 30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	4,961.39	
32 31 41 Precast Concrete Fences (32 31) 32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. (32 31 41) Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002 LF Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.	60.76	3.17
32 31 56 Wild Life Deterrent Fence (32 31) 32 31 56 00-0001 Barbed Wire Fences (32 31 56) Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 56 00-0002 Fence Posts (32 31 56 00-0001)		
32 31 56 00-0003 Fence Post Soil, Set In Concrete (32 31 56 00-0002)		
32 31 56 00-0004 EA Barbed Wire Fence Post, Galvanized Set In Concrete In Soil <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	91.33 147.43	7.18
32 31 56 00-0005 EA Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	123.27 200.77	7.18
32 31 56 00-0006 Post In Rock (32 31 56 00-0002)		
32 31 56 00-0007 EA Barbed Wire Fence Post, Galvanized Grouted In Rock..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	89.76 145.08	7.18
32 31 56 00-0008 EA Barbed Wire Fence Post, Vinyl Coated Grouted In Rock <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	121.70 198.42	7.18
32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish (32 31 56 00-0001) Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010 EA 5' Studded Steel T-Post, Driven Into Earth	22.89	
32 31 56 00-0011 EA 5'-6" Studded Steel T-Post, Driven Into Earth.....	23.45	
32 31 56 00-0012 EA 6' Studded Steel T-Post, Driven Into Earth	24.50	
32 31 56 00-0013 EA 6'-6" Studded Steel T-Post, Driven Into Earth.....	25.54	
32 31 56 00-0014 EA 7' Studded Steel T-Post, Driven Into Earth	26.93	
32 31 56 00-0015 EA 8' Studded Steel T-Post, Driven Into Earth	30.30	
32 31 56 00-0016 EA 10' Studded Steel T-Post, Driven Into Earth	36.78	
32 31 56 00-0017 Barbed Wire (32 31 56 00-0001) Note: Per strand.		
32 31 56 00-0018 LF Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.80	0.36
32 31 56 00-0019 LF Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand.....	0.93	0.36
32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts (32 31 56 00-0001) Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021 LF 4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts..... Note: Posts at 10' maximum.	10.13	2.34

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 32 Retaining Walls** (32 30)**32 32 13 Cast-In-Place Concrete Retaining Wall** (32 32)

Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0001	LF	4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	380.55	124.77
		For >3:1 Sloped Soil At Top, Add	11.14	
32 32 13 00-0002	LF	6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	476.43	153.54
		For >3:1 Sloped Soil At Top, Add	14.39	
32 32 13 00-0003	LF	8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	520.39	165.61
		For >3:1 Sloped Soil At Top, Add	16.08	
32 32 13 00-0004	LF	10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	668.20	204.77
		For >3:1 Sloped Soil At Top, Add	21.99	
32 32 13 00-0005	LF	12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	770.68	235.21
		For >3:1 Sloped Soil At Top, Add	25.51	
32 32 13 00-0006	LF	16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,110.94	345.06
		For >3:1 Sloped Soil At Top, Add	35.78	
32 32 13 00-0007	LF	20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,522.71	476.38
		For >3:1 Sloped Soil At Top, Add	48.44	
32 32 13 00-0008	LF	4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	418.89	136.26
		For >3:1 Sloped Soil At Top, Add	12.44	
32 32 13 00-0009	LF	6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	514.98	164.19
		For >3:1 Sloped Soil At Top, Add	15.87	
32 32 13 00-0010	LF	8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	547.40	171.31
		For >3:1 Sloped Soil At Top, Add	17.41	
32 32 13 00-0011	LF	10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	758.19	229.59
		For >3:1 Sloped Soil At Top, Add	25.41	
32 32 13 00-0012	LF	12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	958.17	294.92
		For >3:1 Sloped Soil At Top, Add	31.31	
32 32 13 00-0013	LF	16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,432.72	447.03
		For >3:1 Sloped Soil At Top, Add	45.79	
32 32 13 00-0014	LF	20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	2,021.85	631.00
		For >3:1 Sloped Soil At Top, Add	64.59	

32 32 23 Segmental Retaining Walls (32 32)**32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls** (32 32 23)**32 32 23 13-0001 Modular Retaining Wall Systems** (32 32 23 13)

Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.

32 32 23 13-0002 "Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 32 23 13-0003	SF	Up To 4' Height "Amastone" Type Modular Retaining Wall System	95.81	8.47
		For >3:1 Sloped Soil At Top, Add	6.70	
32 32 23 13-0004	SF	4 To 8' Height "Amastone" Type Modular Retaining Wall System	101.10	8.91
		For >3:1 Sloped Soil At Top, Add	7.08	
32 32 23 13-0005	SF	8 To 12' Height "Amastone" Type Modular Retaining Wall System	104.76	9.80
		For >3:1 Sloped Soil At Top, Add	7.24	
32 32 23 13-0006	SF	12 To 16' Height "Amastone" Type Modular Retaining Wall System	108.72	10.69
		For >3:1 Sloped Soil At Top, Add	7.42	

32 32 23 13-0007 "Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 32 23 13-0008	SF	Up To 4' Height "Diamond" Type Modular Retaining Wall System	99.93	8.47
		For >3:1 Sloped Soil At Top, Add	7.06	
32 32 23 13-0009	SF	4 To 8' Height "Diamond" Type Modular Retaining Wall System	105.22	8.91
		For >3:1 Sloped Soil At Top, Add	7.43	
32 32 23 13-0010	SF	8 To 12' Height "Diamond" Type Modular Retaining Wall System	108.89	9.80
		For >3:1 Sloped Soil At Top, Add	7.59	
32 32 23 13-0011	SF	12 To 16' Height "Diamond" Type Modular Retaining Wall System	112.84	10.69
		For >3:1 Sloped Soil At Top, Add	7.77	

32 32 23 13-0012 "Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 32 23 13-0013	SF	Up To 4' Height "Keystone" Type Modular Retaining Wall System	109.78	8.47
		For >3:1 Sloped Soil At Top, Add	7.89	
32 32 23 13-0014	SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System	115.07	8.91
		For >3:1 Sloped Soil At Top, Add	8.27	
32 32 23 13-0015	SF	8 To 12' Height "Keystone" Type Modular Retaining Wall System	118.74	9.80
		For >3:1 Sloped Soil At Top, Add	8.43	
32 32 23 13-0016	SF	12 To 16' Height "Keystone" Type Modular Retaining Wall System	122.69	10.69
		For >3:1 Sloped Soil At Top, Add	8.61	

32 32 23 13-0017 "Criblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 32 23 13-0018	SF	Up To 4' Height "Criblock" Type Modular Retaining Wall System	95.81	8.47
		For >3:1 Sloped Soil At Top, Add	6.70	
		For Gravel Backfill Instead Of Earth, Add	0.25	



Exterior Improvements			32
Site Improvements			32 30
Retaining Walls			32 32

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0019	SF		4 To 8' Height "Criblock" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add For Gravel Backfill Instead Of Earth, Add	101.10 7.08 0.25	8.91
32 32 23 13-0020	SF		8 To 12' Height "Criblock" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add For Gravel Backfill Instead Of Earth, Add	104.76 7.24 0.25	9.80
32 32 23 13-0021	SF		12 To 16' Height "Criblock" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add For Gravel Backfill Instead Of Earth, Add	108.72 7.42 0.25	10.69
32 32 23 13-0022 "Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)					
32 32 23 13-0023	SF		Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	83.30 5.64	8.47
32 32 23 13-0024	SF		4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	92.72 6.37	8.91
32 32 23 13-0025	SF		8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	96.45 6.53	9.80
32 32 23 13-0026	SF		12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	99.64 6.65	10.69
32 32 23 13-0027 Retaining Wall Cap Block Restoration (32 32 23 13-0001)					
Note: Includes removal of existing cap block and installation of new cap block to match.					
32 32 23 13-0028	LF		Removal And Reinstall Retaining Wall Cap Block And Pins For >3:1 Sloped Soil At Top, Add	30.42 1.49	
32 32 26 Metal Crib Retaining Walls (32 32)					
32 32 26 00-0001 Bin Type Retaining Wall (32 32 26)					
32 32 26 00-0002 Vertical Bin Walls (32 32 26 00-0001)					
Note: Excludes excavation and backfill.					
32 32 26 00-0003	SF		5.5' Vertical Bin Retaining Wall, Wall Heights To 11'	63.50	
32 32 26 00-0004	SF		7.7' Vertical Bin Retaining Wall, Wall Heights, 8.33' To 16.33'	74.79	
32 32 26 00-0005	SF		9.9' Vertical Bin Retaining Wall, Wall Heights, 13.67' To 21.67'	87.08	
32 32 26 00-0006	SF		12.1' Vertical Bin Retain Wall, Wall Heights 17.67' To 25.67'	93.86	
32 32 26 00-0007	SF		14.3' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	104.98	
32 32 26 00-0008	SF		16.5' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	111.76	
32 32 26 00-0009 Battered Bin Walls (32 32 26 00-0001)					
Note: Excludes excavation and backfill.					
32 32 26 00-0010	SF		5.5' Battered Bin Retain Wall, Wall Heights To 11'	57.01	
32 32 26 00-0011	SF		7.7' Battered Bin Retain Wall, Wall Heights 8.33' To 16.33'	61.52	
32 32 26 00-0012	SF		9.9' Battered Bin Retain Wall, Wall Heights 13.67' To 21.67'	69.21	
32 32 26 00-0013	SF		12.1' Battered Bin Retain Wall, Wall Heights 17.67' To 25.67'	77.11	
32 32 26 00-0014	SF		14.3' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	90.30	
32 32 26 00-0015	SF		16.5' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	92.55	
32 32 26 00-0016 Aluminized Steel Bin (32 32 26)					
Note: Excludes excavation and backfill.					
32 32 26 00-0017	SF		4' High, 5.5' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	38.60 2.49 -2.92	4.69
32 32 26 00-0018	SF		8' High, 5.5' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	43.13 2.86 -3.37	4.69
32 32 26 00-0019	SF		10' High, 7.7' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	46.07 3.05 -3.59	5.13
32 32 26 00-0020	SF		12' High, 7.7' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	52.48 3.48 -4.09	5.79
32 32 26 00-0021	SF		16' High, 7.7' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	50.61 3.29 -3.87	6.00
32 32 26 00-0022	SF		16' High, 9.9' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	56.30 3.75 -4.42	6.12
32 32 26 00-0023	SF		20' High, 9.9' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	62.41 4.20 -4.94	6.45
32 32 26 00-0024	SF		20' High, 12.1' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	63.91 4.29 -5.05	6.77
32 32 26 00-0025	SF		24' High, 12.1' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	67.18 4.56 -5.36	6.77
32 32 26 00-0026	SF		24' High, 14.3' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	70.45 4.83 -5.68	6.88

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0027 SF 28" High, 14.3' Deep Aluminized Steel Bin..... For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	72.78 5.01 -5.89	6.99
32 32 29 Timber Retaining Walls (32 32)		
32 32 29 00-0001 Wood Post Retaining Walls (32 32 29) Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0002 LF 4" x 4", 1' High, Redwood, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	85.92 2.40	28.91
32 32 29 00-0003 LF 4" x 4", 2' High, Redwood, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	168.13 4.67	56.61
32 32 29 00-0004 LF 4" x 4", 1' High, Cedar, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	82.32 2.09	28.91
32 32 29 00-0005 LF 4" x 4", 2' High, Cedar, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	161.13 4.08	56.61
32 32 29 00-0006 LF 4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	77.33 2.27	25.26
32 32 29 00-0007 LF 4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	151.39 4.46	49.41
32 32 29 00-0008 LF 4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	68.65 2.02	22.42
32 32 29 00-0009 LF 4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	124.13 3.65	40.57
32 32 29 00-0010 LF 6" x 6", 2' High, Redwood, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	229.10 7.82	68.58
32 32 29 00-0011 LF 6" x 6", 4' High, Redwood, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	452.65 15.63	134.41
32 32 29 00-0012 LF 6" x 6", 2' High, Cedar, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	225.10 7.48	68.58
32 32 29 00-0013 LF 6" x 6", 4' High, Cedar, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	442.65 14.78	134.41
32 32 29 00-0014 LF 6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	196.65 7.24	55.70
32 32 29 00-0015 LF 6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	390.43 14.49	109.97
32 32 29 00-0016 LF 6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	158.12 5.86	44.54
32 32 29 00-0017 LF 6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	311.21 11.64	87.14
32 32 29 00-0018 LF 8" x 8", 4' High, Redwood, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	571.18 23.28	148.62
32 32 29 00-0019 LF 8" x 8", 6' High, Redwood, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	1,068.63 43.67	277.45
32 32 29 00-0020 LF 8" x 8", 4' High, Cedar, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	551.19 21.58	148.62
32 32 29 00-0021 LF 8" x 8", 6' High, Cedar, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	1,030.65 40.44	277.45
32 32 29 00-0022 LF 8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	545.05 17.18	171.44
32 32 29 00-0023 LF 8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	1,016.88 32.01	320.16
32 32 29 00-0024 LF 8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	442.06 14.02	138.57
32 32 29 00-0025 LF 8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	819.92 26.00	257.07
32 32 29 00-0026 LF 4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	164.29 4.25	57.11
32 32 29 00-0027 LF 6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	245.43 6.29	85.72
32 32 29 00-0028 LF 8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	326.48 8.33	114.23
32 32 29 00-0029 LF 4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	113.57 4.16	32.26
32 32 29 00-0030 LF 6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	165.13 6.12	46.57
32 32 29 00-0031 LF 8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... For >3:1 Sloped Soil At Top, Add	223.68 8.33	62.90
32 32 29 00-0032 Post And Board Retaining Walls (32 32 29) Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0033 LF 4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls..... For >3:1 Sloped Soil At Top, Add	70.58 3.08	17.15
32 32 29 00-0034 LF 4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls..... For >3:1 Sloped Soil At Top, Add	107.56 4.16	29.32
32 32 29 00-0035 LF 6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls..... For >3:1 Sloped Soil At Top, Add	141.85 5.86	36.42
32 32 29 00-0036 LF 6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls..... For >3:1 Sloped Soil At Top, Add	198.13 8.07	51.63



Exterior Improvements		32	32
Site Improvements		32 30	
Retaining Walls		32 32	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 32 29 00-0037	LF	6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	259.25	67.15
		For >3:1 Sloped Soil At Top, Add	10.62	
32 32 29 00-0038	LF	8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	533.67	132.89
		For >3:1 Sloped Soil At Top, Add	22.77	
32 32 29 00-0039	LF	8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls	604.20	147.20
		For >3:1 Sloped Soil At Top, Add	26.34	
32 32 29 00-0040	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls	71.51	17.85
		For >3:1 Sloped Soil At Top, Add	3.04	
32 32 29 00-0041	LF	4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls.....	125.41	31.75
		For >3:1 Sloped Soil At Top, Add	5.27	
32 32 29 00-0042	LF	6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	123.28	31.14
		For >3:1 Sloped Soil At Top, Add	5.18	
32 32 29 00-0043	LF	6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls	172.43	44.73
		For >3:1 Sloped Soil At Top, Add	7.05	
32 32 29 00-0044	LF	6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls	267.84	71.42
		For >3:1 Sloped Soil At Top, Add	10.62	
32 32 29 00-0045	LF	6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar	212.69	54.88
		For >3:1 Sloped Soil At Top, Add	8.75	
32 32 29 00-0046	LF	8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar	552.17	137.16
		For >3:1 Sloped Soil At Top, Add	23.62	
32 32 29 00-0047	LF	4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated.....	86.50	32.97
		For >3:1 Sloped Soil At Top, Add	1.74	
32 32 29 00-0048	LF	4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated.....	125.44	46.87
		For >3:1 Sloped Soil At Top, Add	2.69	
32 32 29 00-0049	LF	4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat.....	183.55	64.31
		For >3:1 Sloped Soil At Top, Add	4.67	
32 32 29 00-0050	LF	6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated.....	324.10	108.54
		For >3:1 Sloped Soil At Top, Add	9.09	
32 32 29 00-0051	LF	6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated.....	329.09	108.54
		For >3:1 Sloped Soil At Top, Add	9.52	
32 32 29 00-0052	LF	6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat.....	308.58	104.29
		For >3:1 Sloped Soil At Top, Add	8.50	
32 32 29 00-0053	LF	8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated	727.66	239.92
		For >3:1 Sloped Soil At Top, Add	21.07	
32 32 29 00-0054	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking.....	86.50	32.97
		For >3:1 Sloped Soil At Top, Add	1.74	
32 32 29 00-0055	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking.....	125.44	46.87
		For >3:1 Sloped Soil At Top, Add	2.69	
32 32 29 00-0056	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking	183.55	64.31
		For >3:1 Sloped Soil At Top, Add	4.67	
32 32 29 00-0057	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking.....	230.98	80.04
		For >3:1 Sloped Soil At Top, Add	6.03	
32 32 29 00-0058	LF	6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls	324.10	108.54
		For >3:1 Sloped Soil At Top, Add	9.09	
32 32 29 00-0059	LF	6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls.....	308.58	104.29
		For >3:1 Sloped Soil At Top, Add	8.50	
32 32 29 00-0060	LF	8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls.....	727.66	239.92
		For >3:1 Sloped Soil At Top, Add	21.07	
32 32 29 00-0061		Wood Tie Retaining Walls, Rod Connector At 4' (32 32 29)		
		Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062		Redwood (32 32 29 00-0061)		
32 32 29 00-0063	LF	2' High, 6" x 6" Wood Tie Wall	118.27	35.10
		For >3:1 Sloped Soil At Top, Add	4.08	
32 32 29 00-0064	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	269.97	80.04
		For >3:1 Sloped Soil At Top, Add	9.35	
32 32 29 00-0065	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	404.01	120.01
		For >3:1 Sloped Soil At Top, Add	13.93	
32 32 29 00-0066	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	395.63	102.86
		For >3:1 Sloped Soil At Top, Add	16.14	
32 32 29 00-0067	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	594.56	154.30
		For >3:1 Sloped Soil At Top, Add	24.30	
32 32 29 00-0068	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	785.58	202.89
		For >3:1 Sloped Soil At Top, Add	32.29	
32 32 29 00-0069		Cedar (32 32 29 00-0061)		
32 32 29 00-0070	LF	2' High, 6" x 6" Wood Tie Wall	116.27	35.10
		For >3:1 Sloped Soil At Top, Add	3.91	
32 32 29 00-0071	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	263.97	80.04
		For >3:1 Sloped Soil At Top, Add	8.84	
32 32 29 00-0072	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	396.02	120.01
		For >3:1 Sloped Soil At Top, Add	13.25	
32 32 29 00-0073	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	381.64	102.86
		For >3:1 Sloped Soil At Top, Add	14.95	
32 32 29 00-0074	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	574.57	154.30
		For >3:1 Sloped Soil At Top, Add	22.60	
32 32 29 00-0075	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	757.59	202.89
		For >3:1 Sloped Soil At Top, Add	29.91	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0076 Creosoted Wood (32 32 29 00-0061)		
32 32 29 00-0077 LF 2' High, 6" x 8" Wood Tie Wall For >3:1 Sloped Soil At Top, Add	127.25 2.90	46.57
32 32 29 00-0078 LF 4' High, 6" x 8" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	291.30 6.54	107.13
32 32 29 00-0079 LF 6' High, 6" x 8" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	432.09 9.77	158.56
32 32 29 00-0080 LF 4' High, 7" x 9" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	585.36 13.08	215.67
32 32 29 00-0081 LF 6' High, 7" x 9" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	852.25 19.03	314.18
32 32 29 00-0082 LF 8' High, 7" x 9" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	1,131.00 25.32	416.54
32 32 29 00-0083 Pressure Treated Wood (32 32 29 00-0061)		
32 32 29 00-0084 LF 2' High, 6" x 6" Wood Tie Wall For >3:1 Sloped Soil At Top, Add	103.09 3.83	29.01
32 32 29 00-0085 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	234.40 8.75	65.74
32 32 29 00-0086 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	351.09 13.08	98.61
32 32 29 00-0087 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	378.03 11.98	118.59
32 32 29 00-0088 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	568.27 18.18	177.23
32 32 29 00-0089 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6' For >3:1 Sloped Soil At Top, Add	753.14 23.96	235.66
32 32 53 Stone Retaining Walls (32 32)		
32 32 53 00-0001 Stone Retaining Walls (32 32 53) Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
32 32 53 00-0002 Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$16.00/ton.		
32 32 53 00-0003 LF \$16.00/ton 3' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	442.33 3.49	200.60
32 32 53 00-0004 LF \$16.00/ton 4' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	522.23 3.81	238.65
32 32 53 00-0005 LF \$16.00/ton 6' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	686.63 4.46	317.07
32 32 53 00-0006 LF \$16.00/ton 8' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	1,059.36 5.76	495.75
32 32 53 00-0007 LF \$16.00/ton 10' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	1,377.25 6.82	648.50
32 32 53 00-0008 LF \$16.00/ton 12' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	1,709.72 8.04	807.57
32 32 53 00-0009 LF \$16.00/ton 3' High Stone Retaining Wall, Mortar Set..... For >3:1 Sloped Soil At Top, Add	396.26 3.49	177.61
32 32 53 00-0010 LF \$16.00/ton 4' High Stone Retaining Wall, Mortar Set..... For >3:1 Sloped Soil At Top, Add	465.19 3.81	210.14
32 32 53 00-0011 LF \$16.00/ton 6' High Stone Retaining Wall, Mortar Set..... For >3:1 Sloped Soil At Top, Add	602.44 4.46	274.92
32 32 53 00-0012 LF \$16.00/ton 8' High Stone Retaining Wall, Mortar Set..... For >3:1 Sloped Soil At Top, Add	923.85 5.76	428.02
32 32 53 00-0013 LF \$16.00/ton 10' High Stone Retaining Wall, Mortar Set..... For >3:1 Sloped Soil At Top, Add	1,187.16 6.82	553.50
32 32 53 00-0014 LF \$16.00/ton 12' High Stone Retaining Wall, Mortar Set..... For >3:1 Sloped Soil At Top, Add	1,475.25 8.04	690.38
32 32 53 00-0015 Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$32.00/ton.		
32 32 53 00-0016 LF \$32.00/ton 3' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	454.74 4.54	200.60
32 32 53 00-0017 LF \$32.00/ton 4' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	539.42 5.28	238.65
32 32 53 00-0018 LF \$32.00/ton 6' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	711.46 6.57	317.07
32 32 53 00-0019 LF \$32.00/ton 8' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	1,095.64 8.85	495.75
32 32 53 00-0020 LF \$32.00/ton 10' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	1,426.91 11.04	648.50
32 32 53 00-0021 LF \$32.00/ton 12' High Stone Retaining Wall, Dry Set..... For >3:1 Sloped Soil At Top, Add	1,772.74 13.39	807.57
32 32 53 00-0022 LF \$32.00/ton 3' High Stone Retaining Wall, Mortar Set..... For >3:1 Sloped Soil At Top, Add	408.67 4.54	177.61
32 32 53 00-0023 LF \$32.00/ton 4' High Stone Retaining Wall, Mortar Set..... For >3:1 Sloped Soil At Top, Add	482.38 5.28	210.14



Exterior Improvements		32	32
Site Improvements		32 30	
Retaining Walls		32 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0024 LF \$32.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	627.27 6.57	274.92
32 32 53 00-0025 LF \$32.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	960.13 8.85	428.02
32 32 53 00-0026 LF \$32.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,236.82 11.04	553.50
32 32 53 00-0027 LF \$32.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,538.27 13.39	690.38
32 32 53 00-0028 Stone Retaining Walls (32 32 53 00-0001)		
Note: Stone at \$48.00/ton.		
32 32 53 00-0029 LF \$48.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	468.11 5.68	200.60
32 32 53 00-0030 LF \$48.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	556.42 6.72	238.65
32 32 53 00-0031 LF \$48.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	735.33 8.60	317.07
32 32 53 00-0032 LF \$48.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,131.93 11.93	495.75
32 32 53 00-0033 LF \$48.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,476.56 15.26	648.50
32 32 53 00-0034 LF \$48.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,836.72 18.83	807.57
32 32 53 00-0035 LF \$48.00/ton 3' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	422.04 5.68	177.61
32 32 53 00-0036 LF \$48.00/ton 4' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	499.57 6.74	210.14
32 32 53 00-0037 LF \$48.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	651.14 8.60	274.92
32 32 53 00-0038 LF \$48.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	996.42 11.93	428.02
32 32 53 00-0039 LF \$48.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,286.47 15.26	553.50
32 32 53 00-0040 LF \$48.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,602.25 18.83	690.38
32 32 53 00-0041 Stone Retaining Walls (32 32 53 00-0001)		
Note: Stone at \$64.00/ton.		
32 32 53 00-0042 LF \$64.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	481.48 6.82	200.60
32 32 53 00-0043 LF \$64.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	554.70 6.57	238.65
32 32 53 00-0044 LF \$64.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	761.11 10.80	317.07
32 32 53 00-0045 LF \$64.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,170.13 15.18	495.75
32 32 53 00-0046 LF \$64.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,528.13 19.64	648.50
32 32 53 00-0047 LF \$64.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,901.65 24.35	807.57
32 32 53 00-0048 LF \$64.00/ton 3' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	435.41 6.82	177.61
32 32 53 00-0049 LF \$64.00/ton 4' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	516.76 8.20	210.14
32 32 53 00-0050 LF \$64.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	676.92 10.80	274.92
32 32 53 00-0051 LF \$64.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,034.62 15.18	428.02
32 32 53 00-0052 LF \$64.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,338.04 19.64	553.50
32 32 53 00-0053 LF \$64.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,667.18 24.35	690.38
32 33 Site Furnishings (32 30)		
32 33 23 Site Trash and Litter Receptacles (32 33)		
32 33 23 00-0001 Steel Trash Containment (32 33 23)		
32 33 23 00-0002 Steel Frame Surrounded With Kiln-Dried Wood (32 33 23 00-0001)		
32 33 23 00-0003 EA 13" x 13" x 30" Ash Receptacle Steel Frame, Kiln Dried Wood	448.09	47.33
32 33 23 00-0004 EA 24" x 24" x 30" High Open Top Trash Container Steel Frame, Kiln Dried Wood	427.92	47.33
32 33 23 00-0005 EA 21" x 21" x 31" High Flat Top Trash Container Steel Frame, Kiln Dried Wood	427.92	47.33
32 33 23 00-0006 EA 24" x 24" x 31" High, Flat Top Trash Container Steel Frame, Kiln Dried Wood	405.23	47.33
32 33 23 00-0007 EA 18" x 18" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	448.09	47.33
32 33 23 00-0008 EA 23" x 23" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	405.23	47.33
32 33 23 00-0009 EA 24" x 24" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	554.00	47.33
32 33 23 00-0010 Square Steel Frames Surrounded With Flat Steel (32 33 23 00-0001)		
32 33 23 00-0011 EA 26" Diameter x 34" High Open Top Trash Square Container Steel Frame, Flat Steel Surround	807.75	47.33

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0012 EA 26" Diameter x 34" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround.....	871.82	47.33
32 33 23 00-0013 EA 26" Diameter x 39" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround.....	871.82	47.33
32 33 23 00-0014 Round Steel Pipe And Flat Steel Frames (32 33 23 00-0001)		
Note: Surrounded with kiln-dried wood.		
32 33 23 00-0015 EA 21" Diameter x 32" High Open Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood.....	1,192.22	47.33
32 33 23 00-0016 EA 21" Diameter x 32" High Flat Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood	1,283.76	47.33
32 33 23 00-0017 EA 21" Diameter x 39" High Dome Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood	1,478.28	47.33
32 33 23 00-0018 EA 21" Diameter x 40" High HPR Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood	1,340.97	47.33
32 33 23 00-0019 Round Steel Pipe Surrounded With Perforated (32 33 23 00-0001)		
32 33 23 00-0020 EA 21" Diameter x 32" High Open Top Trash Container Perforated Round Steel Pipe.....	1,066.35	47.33
32 33 23 00-0021 EA 21" Diameter x 32" High Flat Top Trash Container Perforated Round Steel Pipe.....	1,157.89	47.33
32 33 23 00-0022 EA 21" Diameter x 39" High Dome Top Trash Container Perforated Round Steel Pipe	1,352.41	47.33
32 33 23 00-0023 EA 21" Diameter x 40" High HPR Top Trash Container Perforated Round Steel Pipe.....	1,226.55	47.33
32 33 23 00-0024 Round Steel Pipe Frames Surrounded With Welded Wire (32 33 23 00-0001)		
32 33 23 00-0025 EA 21" Diameter x 32" High Flat Top Trash Container Steel Pipe Frame, Welded Wire Surround	848.94	47.33
32 33 23 00-0026 EA 21" Diameter x 32" High Open Top Trash Steel Container Pipe Frame, Welded Wire Surround	940.48	47.33
32 33 23 00-0027 EA 21" Diameter x 39" High Dome Top Trash Steel Container Pipe Frame, Welded Wire Surround.....	1,135.01	47.33
32 33 23 00-0028 EA 21" Diameter x 40" High HPR Top Trash Container Steel Pipe Frame, Welded Wire Surround	1,009.14	47.33
32 33 23 00-0029 Litter Baskets (32 33 23)		
32 33 23 00-0030 Round Wire Litter Baskets (32 33 23 00-0029)		
32 33 23 00-0031 EA 1.33' Diameter x 1.83' High Round Wire Litter Basket	149.30	4.81
32 33 23 00-0032 EA 1.5' Diameter x 1.83' High Round Wire Litter Basket	188.46	4.81
32 33 23 00-0033 EA 1.75' Diameter x 2.33' High Round Wire Litter Basket	254.90	4.81
32 33 23 00-0034 EA 1.83' Diameter x 2.83' High Round Wire Litter Basket	292.39	4.81
32 33 23 00-0035 Trash Can/Wire Basket Holder (32 33 23 00-0029)		
32 33 23 00-0036 EA Steel Post, Single Holder	214.72	38.65
32 33 23 00-0037 EA Steel Post, Double Holder.....	289.66	38.65
32 33 23 00-0038 EA Redwood Post, Single Holder	135.87	38.65
32 33 23 00-0039 EA Redwood Post, Double Holder.....	159.81	38.65
32 33 23 00-0040 Litter Receptacles, Freestanding (32 33 23 00-0029)		
Note: Includes 1-1/2" outside diameter steel leg supports. Wall mounted, includes 3/8" x 3" steel wall plates. Surface mounted, includes 2-1/2" outside diameter steel tube with floor flange, embedded to include 2-1/2" outside diameter steel tube.		
32 33 23 00-0041 EA 16" Diameter x 28" High Litter Receptacle, Freestanding Or Embedded	1,199.32	19.72
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0042 EA 16" Diameter x 32" High Litter Receptacle, Freestanding Or Embedded	1,262.36	19.72
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0043 EA 20" Diameter x 36" High Litter Receptacle, Freestanding Or Embedded	1,471.20	29.57
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0044 EA 20" Diameter x 40" High Litter Receptacle, Freestanding Embedded.....	1,534.23	29.57
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0045 EA 16" Diameter x 28" High Litter Receptacle, Pole Mount With Pole.....	1,597.27	29.57
For Powder Coated Sand Pan, Add	50.00	
For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0046 EA 16" Diameter x 32" High Litter Receptacle, Pole Mount With Pole.....	1,660.31	29.57
For Powder Coated Sand Pan, Add	50.00	
For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0047 EA 16" Diameter x 28" High Litter Receptacle, Wall Mount	1,324.63	25.63
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
For 1-1/2" x 6" Diameter Metal Cover Plate , Add	20.00	
32 33 23 00-0048 EA 16" Diameter x 32" High Litter Receptacle, Wall Mount	1,387.67	25.63
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
For 1-1/2" x 6" Diameter Metal Cover Plate , Add	20.00	



Exterior Improvements		32	32
Site Improvements		32 30	
Site Furnishings		32 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0049			Ash Receptacles (32 33 23)		
32 33 23 00-0050	EA		12" Diameter x 21" High Ash Receptacle, Freestanding Or Embedded 784.76		19.72
			For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
			For Sand Pan, Add	110.00	
			For Bowl And Funnel, Add	120.00	
32 33 23 00-0051	EA		18" Square Concrete Exposed Aggregate x 36" High Ash Receptacles With 3-1/2" ID iron Pipe With Cap Square Concrete With Steel Liner.....	322.71	19.72
32 33 23 00-0052			Trash Receptacles (32 33 23)		
32 33 23 00-0053	EA		Outdoor Covered Steel Receptacle With Liner 985.00		19.72
32 33 23 00-0054	EA		Driftwood And Sable Receptacle, 35 Gallon With Liner And Frame 464.65		19.72
32 33 23 00-0055	EA		24" x 24" Square Trash Containment With Exposed Aggregate Finish 848.19		19.72
32 33 23 00-0056	EA		30" x 30" Square Trash Containment With Exposed Aggregate Finish 883.86		21.69
32 33 23 00-0057	EA		36" x 36" Square Trash Containment With Exposed Aggregate Finish 951.23		23.66
32 33 23 00-0058	EA		32 Gallon, Open Round Trash Receptacle, Recycled Plastic Lumber 397.81		15.77
32 33 23 00-0059	EA		32 Gallon, Round Trash Receptacle With Liner And Lid, Recycled Plastic Lumber 474.12		15.77
32 33 23 00-0060	EA		24" x 24" Square 18" High Trash Receptacle, Fiberglass..... 336.47		19.72
32 33 23 00-0061			Trash Containers (Dumpsters) (32 33 23)		
32 33 23 00-0062	EA		1 CY Straight Side Trash Dumpster..... 243.90		
32 33 23 00-0063	EA		1.5 CY Straight Side Trash Dumpster..... 365.85		
32 33 23 00-0064	EA		2 CY Straight Side Trash Dumpster..... 487.80		
32 33 23 00-0065	EA		2 CY Sloped Side Trash Dumpster..... 487.80		
32 33 23 00-0066	EA		3 CY Sloped Side Trash Dumpster..... 731.70		
32 33 23 00-0067	EA		4 CY Sloped Side Trash Dumpster..... 975.60		
32 33 23 00-0068	EA		6 CY Sloped Side Trash Dumpster..... 1,463.39		
32 33 23 00-0069	EA		8 CY Sloped Side Trash Dumpster..... 1,951.19		
32 33 33			Site Manufactured Planters (32 33)		
32 33 33 00-0001			Precast Concrete Planters (32 33 33)		
32 33 33 00-0002			Circular Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0003	EA		24" Diameter, 17" Height, Circular Precast Concrete Planter 663.22		23.98
32 33 33 00-0004	EA		24" Diameter, 24" Height, Circular Precast Concrete Planter 742.78		28.78
32 33 33 00-0005	EA		24" Diameter, 33" Height, Circular Precast Concrete Planter 812.75		28.78
32 33 33 00-0006	EA		30" Diameter, 17" Height, Circular Precast Concrete Planter 882.01		33.58
32 33 33 00-0007	EA		30" Diameter, 30" Height, Circular Precast Concrete Planter 1,067.87		43.17
32 33 33 00-0008	EA		36" Diameter, 24" Height, Circular Precast Concrete Planter 1,162.53		43.17
32 33 33 00-0009	EA		36" Diameter, 30" Height, Circular Precast Concrete Planter 1,309.99		47.97
32 33 33 00-0010	EA		48" Diameter, 17" Height, Circular Precast Concrete Planter 1,384.07		47.97
32 33 33 00-0011	EA		48" Diameter, 24" Height, Circular Precast Concrete Planter 1,541.80		59.97
32 33 33 00-0012	EA		48" Diameter, 30" Height, Circular Precast Concrete Planter 1,640.02		63.80
32 33 33 00-0013	EA		48" Diameter, 36" Height, Circular Precast Concrete Planter 1,708.47		67.16
32 33 33 00-0014	EA		60" Diameter, 17" Height, Circular Precast Concrete Planter 1,551.37		59.97
32 33 33 00-0015	EA		60" Diameter, 24" Height, Circular Precast Concrete Planter 1,706.41		67.16
32 33 33 00-0016	EA		60" Diameter, 36" Height, Circular Precast Concrete Planter 2,187.22		71.96
32 33 33 00-0017	EA		72" Diameter, 36" Height, Circular Precast Concrete Planter 2,838.79		91.15
32 33 33 00-0018	EA		84" Diameter, 36" Height, Circular Precast Concrete Planter 3,299.03		95.95
32 33 33 00-0019			Square Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0020	EA		36" Square, 30" Height, Square Precast Concrete Planter 1,336.09		62.36
32 33 33 00-0021	EA		42" Square, 30" Height, Square Precast Concrete Planter 1,529.99		67.16
32 33 33 00-0022	EA		60" Square, 36" Height, Square Precast Concrete Planter 2,419.05		76.76
32 33 33 00-0023	EA		72" Square, 36" Height, Square Precast Concrete Planter 2,580.91		81.55
32 33 33 00-0024			Rectangular Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0025	EA		33" x 18", 20" Height, Rectangular Precast Concrete Planter 773.65		28.78
32 33 33 00-0026	EA		48" x 18", 20" Height, Rectangular Precast Concrete Planter 907.37		43.17
32 33 33 00-0027	EA		60" x 18", 20" Height, Rectangular Precast Concrete Planter 1,052.78		47.97
32 33 33 00-0028	EA		72" x 18", 20" Height, Rectangular Precast Concrete Planter 1,198.17		59.97
32 33 33 00-0029			Fiberglass Planters (32 33 33)		
32 33 33 00-0030			Circular Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0031	EA		36" Diameter, 27" High, Circular Fiberglass Planter 1,635.22		23.98
32 33 33 00-0032	EA		60" Diameter, 39" High, Circular Fiberglass Planter 2,729.11		23.98
32 33 33 00-0033	EA		36" Diameter, 24" High, Circular Fiberglass Planter 1,086.31		23.98
32 33 33 00-0034	EA		60" Diameter, 24" High, Circular Fiberglass Planter 2,152.45		23.98
32 33 33 00-0035			Tapered Circular Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0036	EA		24" Diameter, 20" High, Tapered Circular Fiberglass Planter 629.09		23.98

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 33 00-0037	EA		30" Diameter, 25" High, Tapered Circular Fiberglass Planter	927.76	23.98
32 33 33 00-0038	EA		36" Diameter, 30" High, Tapered Circular Fiberglass Planter	1,662.97	23.98
32 33 33 00-0039	EA		40" Diameter, 36" High, Tapered Circular Fiberglass Planter	2,326.84	23.98
32 33 33 00-0040 Square Fiberglass Planters (32 33 33 00-0029)					
32 33 33 00-0041	EA		24" Square, 21" High, Square Fiberglass Planter	829.78	23.98
32 33 33 00-0042	EA		24" Square, 24" High, Square Fiberglass Planter	848.50	23.98
32 33 33 00-0043	EA		30" Square, 12" High, Square Fiberglass Planter	858.40	23.98
32 33 33 00-0044	EA		30" Square, 21" High, Square Fiberglass Planter	975.33	23.98
32 33 33 00-0045	EA		30" Square, 24" High, Square Fiberglass Planter	1,060.53	23.98
32 33 33 00-0046 Rectangular Fiberglass Planters (32 33 33 00-0029)					
32 33 33 00-0047	EA		48" x 12", 12" High, Rectangular Fiberglass Planter	956.81	23.98
32 33 33 00-0048	EA		48" x 12", 21" High, Rectangular Fiberglass Planter	1,026.68	23.98
32 33 33 00-0049	EA		48" x 24", 12" High, Rectangular Fiberglass Planter	1,341.31	23.98
32 33 33 00-0050	EA		48" x 24", 21" High, Rectangular Fiberglass Planter	1,481.04	23.98
32 33 33 00-0051 Timber Planters (32 33 33)					
32 33 33 00-0052 Square Timber Planters (32 33 33 00-0051)					
32 33 33 00-0053	EA		14" Square, 30" High, Square Timber Planter	544.56	47.33
32 33 33 00-0054	EA		21" Square, 30" High, Square Timber Planter	544.56	47.33
32 33 33 00-0055	EA		27" Square, 30" High, Square Timber Planter	1,047.72	47.33
32 33 33 00-0056	EA		34" Square, 30" High, Square Timber Planter	905.98	47.33
32 33 33 00-0057	EA		41" Square, 36" High, Square Timber Planter	1,083.16	47.33
32 33 33 00-0058	EA		54" Square, 36" High, Square Timber Planter	2,812.35	47.33
32 33 33 00-0059	EA		81" Square, 36" High, Square Timber Planter	4,236.81	47.33
32 33 33 00-0060 Rectangular Timber Planters (32 33 33 00-0051)					
32 33 33 00-0061	EA		21" x 14", 30" High, Rectangular Timber Planter	537.47	47.33
32 33 33 00-0062	EA		27" x 14", 30" High, Rectangular Timber Planter	601.25	47.33
32 33 33 00-0063	EA		27" x 21", 30" High, Rectangular Timber Planter	792.60	47.33
32 33 33 00-0064	EA		34" x 21", 30" High, Rectangular Timber Planter	877.64	47.33
32 33 33 00-0065	EA		41" x 21", 30" High, Rectangular Timber Planter	1,132.76	47.33
32 33 33 00-0066	EA		34" x 27", 30" High, Rectangular Timber Planter	1,317.02	47.33
32 33 33 00-0067	EA		41" x 27", 30" High, Rectangular Timber Planter	1,472.93	47.33
32 33 33 00-0068	EA		54" x 27", 30" High, Rectangular Timber Planter	1,919.41	47.33
32 33 33 00-0069	EA		54" x 34", 30" High, Rectangular Timber Planter	2,167.45	47.33
32 33 33 00-0070	EA		68" x 34", 36" High, Rectangular Timber Planter	2,472.18	47.33
32 33 33 00-0071	EA		54" x 41", 36" High, Rectangular Timber Planter	2,351.70	47.33
32 33 33 00-0072	EA		68" x 41", 36" High, Rectangular Timber Planter	2,663.52	47.33
32 33 33 00-0073	EA		81" x 41", 36" High, Rectangular Timber Planter	2,982.43	47.33
32 33 43 Site Seating and Tables (32 33)					
32 33 43 13 Site Seating (32 33 43)					
32 33 43 13-0001 Benches (Landscapeforms) (32 33 43 13)					
Note: Excludes embedding in concrete See CSI section 32 31 13 13-0001 for drilling and concrete.					
32 33 43 13-0002	EA		72" Backless Wood Or PolySite Bench (Landscapeforms Balustrade)	1,494.36	78.87
32 33 43 13-0003	EA		72" Backless Wood Or PolySite Bench (Landscapeforms Balustrade)	1,868.61	78.87
32 33 43 13-0004	EA		96" Backless Wood Bench (Landscapeforms Balustrade)	2,109.19	78.87
32 33 43 13-0005	EA		End Loop Arms For Backless Bench (Landscapeforms Balustrade)	173.10	19.72
32 33 43 13-0006	EA		72" Backless Wood Or PolySite Bench (Landscapeforms Gretchen's)	1,633.83	78.87
32 33 43 13-0007	EA		96" Backless Wood Bench (Landscapeforms Gretchen's)	1,848.85	78.87
32 33 43 13-0008	EA		72" Backless Wood Or PolySite Bench (Landscapeforms Gretchen's)	2,017.38	78.87
32 33 43 13-0009	EA		96" Backless Wood Bench (Landscapeforms Gretchen's)	2,278.88	78.87
32 33 43 13-0010	EA		72" Backless Wood Or PolySite Bench With Armrest (Landscapeforms Gretchen's)	2,307.94	78.87
32 33 43 13-0011	EA		96" Backless Wood Bench With Armrest (Landscapeforms Gretchen's)	2,569.45	78.87
32 33 43 13-0012	EA		59" Backless Wood Or Metal Rod Bench (Landscapeforms Hyde Park)	2,996.70	78.87
32 33 43 13-0013	EA		75" Backless Wood Or Metal Rod Bench (Landscapeforms Hyde Park)	3,257.28	78.87
32 33 43 13-0014	EA		42" Backless Metal Grid Bench (Landscapeforms Manistee)	845.20	59.16
32 33 43 13-0015	EA		62" Backless Metal Grid Bench (Landscapeforms Manistee)	913.77	59.16
32 33 43 13-0016	EA		72" Backless Metal Grid Bench (Landscapeforms Manistee)	988.35	69.02
32 33 43 13-0017	EA		82" Backless Metal Grid Bench (Landscapeforms Manistee)	1,152.93	69.02
32 33 43 13-0018	EA		42" Backless Metal Grid Bench (Landscapeforms Manistee)	1,056.92	69.02
32 33 43 13-0019	EA		62" Backless Metal Grid Bench (Landscapeforms Manistee)	1,125.50	69.02
32 33 43 13-0020	EA		72" Backless Metal Grid Bench (Landscapeforms Manistee)	1,213.79	78.87
32 33 43 13-0021	EA		82" Backless Metal Grid Bench (Landscapeforms Manistee)	1,392.08	78.87
32 33 43 13-0022	EA		42" Backless Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,180.35	69.02
32 33 43 13-0023	EA		62" Backless Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,268.65	78.87
32 33 43 13-0024	EA		72" Backless Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,337.22	78.87
32 33 43 13-0025	EA		82" Backless Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,515.51	78.87
32 33 43 13-0026	EA		72" Backless Solid Wood Bench (Landscapeforms Palisade)	2,412.54	78.87
32 33 43 13-0027	EA		96" Backless Solid Wood Bench (Landscapeforms Palisade)	2,772.84	78.87
32 33 43 13-0028	EA		70" Backless Perforated Metal Bench (Landscapeforms Petoskey)	1,547.82	78.87



Exterior Improvements		32	32
Site Improvements		32 30	
Site Furnishings		32 33	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0029	EA	70" Dual Support Backed Perforated Metal Bench (Landscapeforms Petoskey)	1,868.61	78.87	
32 33 43 13-0030	EA	70" Quad Support Backed Perforated Metal Bench (Landscapeforms Petoskey)	2,029.00	78.87	
32 33 43 13-0031	EA	72" Backed Wood Bench (Landscapeforms Plainwell)	1,976.70	78.87	
32 33 43 13-0032	EA	72" Backed Wood Bench With Center Arm (Landscapeforms Plainwell)	2,191.72	78.87	
32 33 43 13-0033	EA	96" Backed Wood Bench (Landscapeforms Plainwell)	2,424.17	78.87	
32 33 43 13-0034	EA	96" Backed Wood Bench With Center Arm (Landscapeforms Plainwell)	2,639.19	78.87	
32 33 43 13-0035	EA	96" Backed Wood Bench With Two Center Arms (Landscapeforms Plainwell)	2,860.01	78.87	
32 33 43 13-0036	EA	72" Backed Aluminum Bench (Landscapeforms Plainwell)	2,517.15	78.87	
32 33 43 13-0037	EA	72" Backed Aluminum Bench With Center Arm (Landscapeforms Plainwell)	2,732.17	78.87	
32 33 43 13-0038	EA	96" Backed Aluminum Bench (Landscapeforms Plainwell)	3,086.66	78.87	
32 33 43 13-0039	EA	96" Backed Aluminum Bench With Center Arm (Landscapeforms Plainwell)	3,313.30	78.87	
32 33 43 13-0040	EA	96" Backed Aluminum Bench With Two Center Arms (Landscapeforms Plainwell)	3,522.50	78.87	
32 33 43 13-0041	EA	Backless Metal Grid Seats For Straight Runs (Landscapeforms Plexus)	574.08	19.72	
32 33 43 13-0042	EA	Backless Metal Grid Seats For 60 Degree Radius (Landscapeforms Plexus)	771.66	19.72	
32 33 43 13-0043	EA	Backless Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	771.66	19.72	
32 33 43 13-0044	EA	Backed Metal Grid Seats For Straight Runs (Landscapeforms Plexus)	701.93	19.72	
32 33 43 13-0045	EA	Narrow-Backed Metal Grid Seats For 60 Degree Radius (Landscapeforms Plexus)	870.46	19.72	
32 33 43 13-0046	EA	Narrow-Backed Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	870.46	19.72	
32 33 43 13-0047	EA	Wide-Backed Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	870.46	19.72	
32 33 43 13-0048	EA	Armrest For Metal Grid Seats (Landscapeforms Plexus)	173.10	19.72	
32 33 43 13-0049	EA	Backless Straight Metal Grid Seats (Landscapeforms Presidio)	806.53	19.72	
32 33 43 13-0050	EA	Backless Straight Metal Grid Seats With One Arm (Landscapeforms Presidio)	893.70	19.72	
32 33 43 13-0051	EA	Backless Straight Metal Grid Seats With Two Arms (Landscapeforms Presidio)	980.87	19.72	
32 33 43 13-0052	EA	Backless Angled Metal Grid Seats (Landscapeforms Presidio)	975.06	19.72	
32 33 43 13-0053	EA	Backless Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,062.23	19.72	
32 33 43 13-0054	EA	Backless Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,149.40	19.72	
32 33 43 13-0055	EA	Backed Straight Metal Grid Seats (Landscapeforms Presidio)	963.44	19.72	
32 33 43 13-0056	EA	Backed Straight Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,050.61	19.72	
32 33 43 13-0057	EA	Backed Straight Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,137.78	19.72	
32 33 43 13-0058	EA	Narrow-Backed Angled Metal Grid Seats (Landscapeforms Presidio)	1,178.45	19.72	
32 33 43 13-0059	EA	Narrow-Backed Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,265.62	19.72	
32 33 43 13-0060	EA	Narrow-Backed Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,352.79	19.72	
32 33 43 13-0061	EA	Wide-Backed Angled Metal Grid Seats (Landscapeforms Presidio)	1,178.45	19.72	
32 33 43 13-0062	EA	Wide-Backed Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,265.62	19.72	
32 33 43 13-0063	EA	Wide-Backed Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,352.79	19.72	
32 33 43 13-0064	EA	48" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	1,610.58	78.87	
32 33 43 13-0065	EA	72" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	1,633.83	78.87	
32 33 43 13-0066	EA	96" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	1,988.32	78.87	
32 33 43 13-0067	EA	48" Backless Woven Bench (Landscapeforms Scarborough)	2,412.54	78.87	
32 33 43 13-0068	EA	72" Backless Woven Bench (Landscapeforms Scarborough)	2,848.39	78.87	
32 33 43 13-0069	EA	96" Backless Woven Bench (Landscapeforms Scarborough)	3,260.99	78.87	
32 33 43 13-0070	EA	24" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,296.77	78.87	
32 33 43 13-0071	EA	48" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,726.81	78.87	
32 33 43 13-0072	EA	72" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,767.49	78.87	
32 33 43 13-0073	EA	72" Backed Horizontal Strap Bench With Center Arm (Landscapeforms Scarborough)	2,034.81	78.87	
32 33 43 13-0074	EA	96" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	2,296.32	78.87	
32 33 43 13-0075	EA	96" Backed Horizontal Strap Bench With Center Arm (Landscapeforms Scarborough)	2,569.45	78.87	
32 33 43 13-0076	EA	96" Backed Horizontal Strap Bench With Two Intermediate Arms (Landscapeforms Scarborough)	2,836.77	78.87	
32 33 43 13-0077	EA	24" Backed Woven Bench (Landscapeforms Scarborough)	2,296.32	78.87	
32 33 43 13-0078	EA	48" Backed Woven Bench (Landscapeforms Scarborough)	2,778.66	78.87	
32 33 43 13-0079	EA	72" Backed Woven Bench (Landscapeforms Scarborough)	3,249.37	78.87	
32 33 43 13-0080	EA	72" Backed Woven Bench With Center Arm (Landscapeforms Scarborough)	3,522.50	78.87	
32 33 43 13-0081	EA	96" Backed Woven Bench (Landscapeforms Scarborough)	4,103.63	78.87	
32 33 43 13-0082	EA	96" Backed Woven Bench With Center Arm (Landscapeforms Scarborough)	4,370.95	78.87	
32 33 43 13-0083	EA	96" Backed Woven Bench With Two Intermediate Arms (Landscapeforms Scarborough)	4,632.46	78.87	
32 33 43 13-0084	EA	32" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,096.90	69.02	
32 33 43 13-0085	EA	49" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,323.55	69.02	
32 33 43 13-0086	EA	49" Backed Strap Or Perforated Bench With Divider (Landscapeforms Town Square)	1,445.58	69.02	
32 33 43 13-0087	EA	70" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,691.94	78.87	
32 33 43 13-0088	EA	70" Backed Strap Or Perforated Bench With Two Dividers (Landscapeforms Town Square)	1,918.58	78.87	
32 33 43 13-0089	Benches (Columbia Cascade, TimberForm) (32 33 43 13)				
32 33 43 13-0090	Wood Benches (Columbia Cascade, TimberForm) (32 33 43 13-0089)				
Note: Includes powder coated steel frames.					
32 33 43 13-0091	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-6-E)	705.37	39.44	
32 33 43 13-0092	EA	94" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-8-E)	808.89	39.44	
32 33 43 13-0093	EA	118" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-10-E)	1,036.58	39.44	
32 33 43 13-0094	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-6-P)	736.45	39.44	
32 33 43 13-0095	EA	94" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-8-P)	839.95	39.44	
32 33 43 13-0096	EA	118" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-10-P)	1,077.99	39.44	
32 33 43 13-0097	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-6-E)	1,077.99	39.44	
32 33 43 13-0098	EA	94" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-8-E)	1,253.94	39.44	
32 33 43 13-0099	EA	118" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-10-E)	1,616.18	39.44	
32 33 43 13-0100	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-6-P)	1,129.74	39.44	
32 33 43 13-0101	EA	94" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-8-P)	1,305.69	39.44	
32 33 43 13-0102	EA	118" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-10-P)	1,688.63	39.44	
32 33 43 13-0103	EA	70" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-6-E)	2,081.92	39.44	
32 33 43 13-0104	EA	94" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-8-E)	2,444.16	39.44	

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0105 EA 118" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-10-E)	3,199.70	39.44
32 33 43 13-0106 EA 70" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-6-P)	2,133.67	39.44
32 33 43 13-0107 EA 94" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-8-P)	2,495.91	39.44
32 33 43 13-0108 EA 118" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-10-P)	3,272.15	39.44
32 33 43 13-0109 EA 70" Length, Embedment Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-6-E)	819.25	39.44
32 33 43 13-0110 EA 94" Length, Embedment Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-8-E)	922.74	39.44
32 33 43 13-0111 EA 70" Length, Pedestal Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-6-P)	850.30	39.44
32 33 43 13-0112 EA 94" Length, Pedestal Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-8-P)	953.79	39.44
32 33 43 13-0113 EA 46" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-4-E)	1,367.79	39.44
32 33 43 13-0114 EA 70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-6-E)	1,616.18	39.44
32 33 43 13-0115 EA 46" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-4-P)	1,450.58	39.44
32 33 43 13-0116 EA 70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-6-P)	1,698.98	39.44
32 33 43 13-0117 EA 70" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-6)	861.44	59.16
32 33 43 13-0118 EA 94" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-8)	902.83	59.16
32 33 43 13-0119 EA 118" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-10)	1,223.68	59.16
32 33 43 13-0120 EA 46" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-4-E)	664.00	39.44
32 33 43 13-0121 EA 70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-6-E)	767.50	39.44
32 33 43 13-0122 EA 94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-8-E)	870.99	39.44
32 33 43 13-0123 EA 118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-10-E)	1,119.39	39.44
32 33 43 13-0124 EA 142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-12-E)	1,222.89	39.44
32 33 43 13-0125 EA 46" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-4-P)	674.35	39.44
32 33 43 13-0126 EA 70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-6-P)	777.85	39.44
32 33 43 13-0127 EA 94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-8-P)	881.34	39.44
32 33 43 13-0128 EA 118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-10-P)	1,150.44	39.44
32 33 43 13-0129 EA 142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-12-P)	1,253.94	39.44
32 33 43 13-0130 EA 70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-6-E)	1,140.09	39.44
32 33 43 13-0131 EA 94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-8-E)	1,316.04	39.44
32 33 43 13-0132 EA 118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-10-E)	1,698.98	39.44
32 33 43 13-0133 EA 142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-12-E)	1,874.93	39.44
32 33 43 13-0134 EA 70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-6-P)	1,160.79	39.44
32 33 43 13-0135 EA 94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-8-P)	1,336.74	39.44
32 33 43 13-0136 EA 118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-10-P)	1,730.03	39.44
32 33 43 13-0137 EA 142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-12-P)	1,905.97	39.44
32 33 43 13-0138 EA 70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-6-E)	1,140.09	39.44
32 33 43 13-0139 EA 82" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-7-E)	1,605.83	39.44
32 33 43 13-0140 EA 94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-8-E)	1,429.88	39.44
32 33 43 13-0141 EA 118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-10-E)	1,885.27	39.44
32 33 43 13-0142 EA 142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-12-E)	2,061.22	39.44
32 33 43 13-0143 EA 70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-6-P)	1,305.69	39.44
32 33 43 13-0144 EA 82" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-7-P)	1,636.88	39.44
32 33 43 13-0145 EA 94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-8-P)	1,450.58	39.44
32 33 43 13-0146 EA 118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-10-P)	1,916.32	39.44
32 33 43 13-0147 EA 142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-12-P)	2,092.27	39.44
32 33 43 13-0148 EA 70" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-6)	1,202.98	59.16
32 33 43 13-0149 EA 94" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-8)	1,389.28	59.16
32 33 43 13-0150 EA 118" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-10)	1,782.57	59.16
32 33 43 13-0151 EA 70" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-6)	1,316.83	59.16
32 33 43 13-0152 EA 94" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-8)	1,503.12	59.16
32 33 43 13-0153 EA 118" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-10)	1,958.51	59.16
32 33 43 13-0154 Recycled Plastic Benches (Columbia Cascade, TimberForm) (32 33 43 13-0089) Note: Includes powder coated steel frames.		
32 33 43 13-0155 EA 70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-6-E)	964.14	39.44
32 33 43 13-0156 EA 94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-8-E)	1,316.04	39.44
32 33 43 13-0157 EA 70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-6-P)	995.19	39.44
32 33 43 13-0158 EA 94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-8-P)	1,347.09	39.44
32 33 43 13-0159 EA 46" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-4-E)	1,512.68	39.44
32 33 43 13-0160 EA 70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-6-E)	1,771.43	39.44
32 33 43 13-0161 EA 46" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-4-P)	1,595.48	39.44
32 33 43 13-0162 EA 70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-6-P)	1,854.23	39.44
32 33 43 13-0163 EA 70" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-6)	964.93	59.16
32 33 43 13-0164 EA 94" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-8)	1,161.58	59.16
32 33 43 13-0165 EA 118" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-10)	1,368.58	59.16



Exterior Improvements		32	32
Site Improvements		32 30	
Site Furnishings		32 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0166	EA		70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-6-E).....	788.17	39.44
32 33 43 13-0167	EA		94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-8-E).....	1,057.28	39.44
32 33 43 13-0168	EA		118" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-10-E).....	1,264.28	39.44
32 33 43 13-0169	EA		70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-6-P).....	819.25	39.44
32 33 43 13-0170	EA		94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-8-P).....	1,088.34	39.44
32 33 43 13-0171	EA		118" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-10-P).....	1,305.69	39.44
32 33 43 13-0172	EA		70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-6-E).....	1,253.94	39.44
32 33 43 13-0173	EA		94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-8-E).....	1,688.63	39.44
32 33 43 13-0174	EA		118" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-10-E).....	2,050.87	39.44
32 33 43 13-0175	EA		70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-6-P).....	1,305.69	39.44
32 33 43 13-0176	EA		94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-8-P).....	1,761.08	39.44
32 33 43 13-0177	EA		118" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-10-P).....	2,123.32	39.44
32 33 43 13-0178	EA		70" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-6-E).....	2,444.16	39.44
32 33 43 13-0179	EA		94" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-8-E).....	3,365.30	39.44
32 33 43 13-0180	EA		118" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-10-E).....	3,727.54	39.44
32 33 43 13-0181	EA		70" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-6-P).....	2,495.91	39.44
32 33 43 13-0182	EA		94" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-8-P).....	3,437.74	39.44
32 33 43 13-0183	EA		118" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-10-P).....	3,799.99	39.44
32 33 43 13-0184	EA		70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-6-E).....	1,533.38	39.44
32 33 43 13-0185	EA		82" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-7-E).....	2,133.67	39.44
32 33 43 13-0186	EA		94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-8-E).....	2,040.52	39.44
32 33 43 13-0187	EA		118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-10-E).....	2,340.67	39.44
32 33 43 13-0188	EA		142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-12-E).....	3,147.95	39.44
32 33 43 13-0189	EA		70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-6-P).....	1,554.08	39.44
32 33 43 13-0190	EA		82" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-7-P).....	2,164.72	39.44
32 33 43 13-0191	EA		94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-8-P).....	2,071.57	39.44
32 33 43 13-0192	EA		118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-10-P).....	2,371.72	39.44
32 33 43 13-0193	EA		142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-12-P).....	3,199.70	39.44
32 33 43 13-0194	EA		70" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154- 6).....	1,461.72	59.16
32 33 43 13-0195	EA		94" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154- 8).....	1,968.86	59.16
32 33 43 13-0196	EA		118" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154- 10).....	2,434.61	59.16
32 33 43 13-0197	EA		70" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-6).....	1,637.67	59.16
32 33 43 13-0198	EA		94" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-8).....	2,186.21	59.16
32 33 43 13-0199	EA		118" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-10).....	2,403.56	59.16
32 33 43 13-0200	EA		46" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-4-E).....	705.40	39.44
32 33 43 13-0201	EA		70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-6-E).....	922.74	39.44
32 33 43 13-0202	EA		94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-8-E).....	1,243.59	39.44
32 33 43 13-0203	EA		118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-10-E).....	1,460.93	39.44
32 33 43 13-0204	EA		142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-12-E).....	1,698.98	39.44
32 33 43 13-0205	EA		46" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-4-P).....	726.10	39.44
32 33 43 13-0206	EA		70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-6-P).....	943.44	39.44
32 33 43 13-0207	EA		94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-8-P).....	1,274.64	39.44
32 33 43 13-0208	EA		118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-10-P).....	1,491.98	39.44
32 33 43 13-0209	EA		142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-12-P).....	1,740.38	39.44
32 33 43 13-0210	EA		70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-6-E).....	1,367.79	39.44
32 33 43 13-0211	EA		94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-8-E).....	1,874.93	39.44
32 33 43 13-0212	EA		118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-10-E).....	2,309.62	39.44
32 33 43 13-0213	EA		142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-12-E).....	2,599.41	39.44
32 33 43 13-0214	EA		70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-6-P).....	1,388.48	39.44
32 33 43 13-0215	EA		94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-8-P).....	1,905.97	39.44
32 33 43 13-0216	EA		118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-10-P).....	2,340.67	39.44
32 33 43 13-0217	EA		142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-12-P).....	2,640.81	39.44

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 63		Skate Board Deterrent (32 33)		
32 33 63 00-0001		Skate Stoppers (32 33 63)		
32 33 63 00-0002	EA	Aluminum Architectural Series Pieces, Skate Stopper.....	52.69	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-5.60	
		For >99 To 249, Deduct	-7.08	
		For >249, Deduct	-8.57	
32 33 63 00-0003	EA	Aluminum Fixed Angle Series Pieces, Skate Stopper.....	55.84	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-6.04	
		For >99 To 249, Deduct	-7.62	
		For >249, Deduct	-9.20	
32 33 63 00-0004	EA	Aluminum Fixed Radius Series Pieces, Skate Stopper.....	39.68	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-3.78	
		For >99 To 249, Deduct	-4.87	
		For >249, Deduct	-5.96	
32 33 63 00-0005	EA	Aluminum Bench Clips, Skate Stopper	31.94	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-2.70	
		For >99 To 249, Deduct	-3.56	
		For >249, Deduct	-4.42	
32 33 63 00-0006	EA	Aluminum Curve Clips, Skate Stopper.....	34.85	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-3.10	
		For >99 To 249, Deduct	-4.05	
		For >249, Deduct	-5.00	
32 33 63 00-0007	EA	Aluminum Hand Rail, Skate Stopper.....	33.36	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-2.90	
		For >99 To 249, Deduct	-3.80	
		For >249, Deduct	-4.70	
32 33 63 00-0008	EA	Aluminum 2" x 3" x 0.25" Flat Cap, Skate Stopper.....	31.47	
		Note: Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-2.63	
		For >99 To 249, Deduct	-3.48	
		For >249, Deduct	-4.32	
32 33 63 00-0009	EA	Aluminum 6" Diameter x 0.25" Rumble Disc, Skate Stopper	43.21	
		Note: Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-4.27	
		For >99 To 249, Deduct	-5.47	
		For >249, Deduct	-6.67	
32 33 63 00-0010	EA	Aluminum 4" x 17" x 0.25" Flat Strap, Skate Stopper.....	78.46	
		Note: Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	-9.21	
		For >99 To 249, Deduct	-11.46	
		For >249, Deduct	-13.72	
32 39		Manufactured Site Specialties (32 30)		
		Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0027 for concrete core drilling, 02 41 19 13-0165 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0018 for concrete fill for post and post for compaction of earth.		
32 39 13		Manufactured Metal Bollards (32 39)		
32 39 13 00-0001		Metal Pipe Bollards (32 39 13)		
		Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.		
32 39 13 00-0002		Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated (32 39 13 00-0001)		
32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	49.69	12.11
		For Galvanized Steel, Add	4.33	
		For 304 Stainless Steel, Add	34.38	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	120.88	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	86.36	
		For Schedule 80, Add	6.24	
		For Concrete Fill, Add Per LF Of Pipe Bollard	10.48	
32 39 13 00-0004	LF	6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	64.39	12.11
		For Galvanized Steel, Add	6.83	
		For 304 Stainless Steel, Add	54.23	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	120.88	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	86.36	
		For Schedule 80, Add	8.45	
		For Concrete Fill, Add Per LF Of Pipe Bollard	14.96	
32 39 13 00-0005	LF	8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	89.87	15.15
		For Galvanized Steel, Add	10.13	
		For 304 Stainless Steel, Add	80.43	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	159.16	
		For Each Sleeve For Removable, Lockable Bollard, Add	128.74	
		For Schedule 80, Add	11.97	
		For Concrete Fill, Add Per LF Of Pipe Bollard	19.97	



Exterior Improvements			32
Site Improvements			32 30
Manufactured Site Specialties			32 39

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0006	LF	10"	Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i> <i>For Each Sleeve For Removable, Lockable Bollard, Add</i> <i>For Schedule 80, Add</i> <i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	117.86 13.86 110.05 183.36 140.84 15.86 24.52	18.17
32 39 13 00-0007	LF	12"	Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i> <i>For Each Sleeve For Removable, Lockable Bollard, Add</i> <i>For Schedule 80, Add</i> <i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	149.62 17.20 136.57 252.84 193.79 20.02 28.76	24.22
32 39 23 Manufactured Concrete Bollards (32 39)					
32 39 23 00-0001	Concrete Bollards (32 39 23) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any.				
32 39 23 00-0002	Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)				
32 39 23 00-0003	EA	12" x 12" x 30"	High Concrete Bollard, Light Sandblast..... Note: Surface mounted with anchor bolts embedded into grout pockets.	742.51	96.91
32 39 23 00-0004	EA	12" Diameter x 30"	High Concrete Bollard, Light Sandblast..... Note: Surface mounted with anchor bolts embedded into grout pockets.	742.51	96.91
32 39 25 Manufactured Wood Bollards (32 39)					
32 39 25 00-0001	Wood Bollards (32 39 25) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.				
32 39 25 00-0002	Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)				
32 39 25 00-0003	LF	4" x 4"	Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	21.86 85.78	9.70
32 39 25 00-0004	LF	6" x 6"	Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	24.47 85.78	9.70
32 39 25 00-0005	LF	8" x 8"	Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	30.86 128.82	10.90
32 39 25 00-0006	LF	10" x 10"	Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	43.19 143.36	14.54
32 39 25 00-0007	LF	12" x 12"	Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	59.07 198.61	19.38
32 39 27 Manufactured Plastic Bollards (32 39)					
32 39 27 00-0001	Plastic Bollards (32 39 27) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards.				
32 39 27 00-0002	Recycled Plastic Bollards (32 39 27 00-0001)				
32 39 27 00-0003	EA	6" x 6" x 33"	Surface Mounted Recycled Plastic Bollard..... Note: Includes anchor bolts.	296.10	48.46
32 39 27 00-0004	EA	6" Diameter x 6'	Steel Reinforced Recycled Plastic Bollard.....	473.44	48.46
32 39 27 00-0005	Plastic Bollard Covers (32 39 27 00-0001)				
32 39 27 00-0006	EA	4" x 60", 1/8"	Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe..... <i>For Reflective Tape, Add</i>	73.12 8.37	10.21
32 39 27 00-0007	EA	6" x 60", 1/8"	Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	79.08 8.37	11.23
32 39 27 00-0008	EA	3" x 60", 1/4"	Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe..... <i>For Reflective Tape, Add</i>	99.48 8.37	10.21
32 39 27 00-0009	EA	3-1/2" x 52", 1/4"	Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe..... <i>For Reflective Tape, Add</i>	99.48 8.37	10.21
32 39 27 00-0010	EA	3-1/2" x 68", 1/4"	Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe..... <i>For Reflective Tape, Add</i>	111.78 8.37	10.21
32 39 27 00-0011	EA	4" x 52", 1/4"	Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe..... <i>For Reflective Tape, Add</i>	99.48 8.37	10.21
32 39 27 00-0012	EA	4" x 60", 1/4"	Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe..... <i>For Reflective Tape, Add</i>	101.23 8.37	10.21
32 39 27 00-0013	EA	5" x 52", 1/4"	Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	99.48 8.37	10.21
32 39 27 00-0014	EA	5" x 60", 1/4"	Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	101.23 8.37	10.21
32 39 27 00-0015	EA	5" x 72", 1/4"	Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	141.65 8.37	10.21
32 39 27 00-0016	EA	6" x 52", 1/4"	Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	101.52 8.37	11.23
32 39 27 00-0017	EA	6" x 65", 1/4"	Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	129.63 8.37	11.23
32 39 27 00-0018	EA	6" x 84", 1/4"	Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	147.61 8.37	11.23

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 27 00-0019	EA	7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe <i>For Reflective Tape, Add</i>	124.64 8.37	12.25
32 39 27 00-0020	EA	8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe <i>For Reflective Tape, Add</i>	135.18 8.37	12.25
32 39 27 00-0021	EA	8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe <i>For Reflective Tape, Add</i>	135.18 8.37	12.25
32 39 27 00-0022	EA	10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe <i>For Reflective Tape, Add</i>	182.65 8.37	12.25
32 39 29 Manufactured Stone Bollards (32 39)				
32 39 29 00-0001		Stone Bollards (32 39 29)		
32 39 29 00-0002		Granite Bollards (32 39 29 00-0001)		
32 39 29 00-0003	EA	16" x 16" x 30" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,155.15	121.14
32 39 29 00-0004	EA	16" x 16" x 54" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,467.84	169.59
32 39 29 00-0005	EA	12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top Note: Surface mounted with anchors embedded into grout pockets.	730.25	121.14
32 39 29 00-0006	EA	12" Diameter x 18" Granite Bollard, Smooth Matt Finish Note: Flat Top, surface mounted with anchors embedded into grout pockets.	1,056.90	96.91
32 39 29 00-0007	EA	24" x 24" x 20" Granite Bollard, Octagonal Cross Section Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	1,563.12	96.91
32 80 Irrigation (32)				
32 84 Planting Irrigation (32 80)				
32 84 13 Drip Irrigation (32 84)				
32 84 13 00-0001		Drip Emitter Irrigation Devices (32 84 13)		
32 84 13 00-0002		Drip Emitter Irrigation Valves (32 84 13 00-0001)		
32 84 13 00-0003	EA	1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050)	54.94	14.21
32 84 13 00-0004	EA	1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100)	77.90	14.21
32 84 13 00-0005	EA	3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075)	76.30	14.21
32 84 13 00-0006	EA	3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS)	97.88	14.21
32 84 13 00-0007		Drip Emitter Irrigation Filters (32 84 13 00-0001)		
32 84 13 00-0008	EA	3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075)	143.46	14.21
32 84 13 00-0009	EA	1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100)	144.65	14.21
32 84 13 00-0010	EA	3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX)	64.97	14.21
32 84 13 00-0011	EA	1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX)	65.92	14.21
32 84 13 00-0012	EA	1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100)	154.51	14.21
32 84 13 00-0013	EA	3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY)	79.25	14.21
32 84 13 00-0014	EA	1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY)	86.69	14.21
32 84 13 00-0015		Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)		
32 84 13 00-0016	EA	3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075)	64.01	14.21
32 84 13 00-0017	EA	3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075)	64.01	14.21
32 84 13 00-0018	EA	3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075)	64.01	14.21
32 84 13 00-0019	EA	1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100)	71.83	14.21
32 84 13 00-0020		Drip Emitter Irrigation Tubing (32 84 13 00-0001)		
Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.				
32 84 13 00-0021	LF	1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100)	4.92	1.99
32 84 13 00-0022	LF	1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100)	4.80	2.27
32 84 13 00-0023	LF	1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100)	4.16	1.99
<i>For Shallow Trenching And Backfill By Hand, Add</i>			8.16	
32 84 13 00-0024	LF	1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100)	4.79	2.27
<i>For Shallow Trenching And Backfill By Hand, Add</i>			8.84	
32 84 13 00-0025		Drip Emitter Irrigation Fittings (32 84 13 00-0001)		
32 84 13 00-0026	EA	1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	3.69	
32 84 13 00-0027	EA	1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL)	3.72	
32 84 13 00-0028	EA	1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	3.76	
32 84 13 00-0029	EA	1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025)	3.90	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0030	EA	1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	3.67	
32 84 13 00-0031	EA	17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	3.83	
		For Compression Fitting, Add	0.28	
32 84 13 00-0032	EA	17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW)	3.91	
		For Compression Fitting, Add	0.36	
32 84 13 00-0033	EA	17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	3.96	
		For Compression Fitting, Add	0.41	
32 84 13 00-0034	EA	17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	3.98	
		For Compression Fitting, Add	0.43	
32 84 13 00-0035	EA	17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	4.15	
		For Compression Fitting, Add	0.60	
32 84 13 00-0036	EA	1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP)	4.34	
32 84 13 00-0037	EA	12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	2.15	
32 84 13 00-0038		Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039	EA	0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC)	7.54	
32 84 13 00-0040	EA	5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	8.30	
32 84 13 00-0041	EA	0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056)	16.02	
32 84 13 00-0042		Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)		
32 84 13 00-0043	EA	Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK)	29.58	12.78
32 84 13 00-0044	EA	Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	29.63	12.78
32 84 13 00-0045	EA	12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL)	31.72	12.78
32 84 13 00-0046	EA	24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL)	31.94	12.78
32 84 13 00-0047	EA	4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)	45.09	16.76
		Note: Includes nozzle.		
32 84 13 00-0048	EA	6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)	47.79	16.76
		Note: Includes nozzle.		
32 84 13 00-0049	EA	12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)	45.53	16.76
		Note: Includes nozzle.		
32 84 13 00-0050		Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001)		
		Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051	LF	0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	5.47	2.48
32 84 23		Underground Sprinklers (32 84)		
32 84 23 00-0001		Sprinkler Heads (32 84 23)		
32 84 23 00-0002		Spray Sprinkler Heads (32 84 23 00-0001)		
		Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003	EA	2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P)	40.25	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0004	EA	4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P)	38.72	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0005	EA	6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)	44.40	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0006	EA	12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P)	49.16	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0007	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)	40.86	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0008	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	48.86	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0009	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	52.71	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0010	EA	4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)	43.14	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0011	EA	6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)	50.43	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0012	EA	12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)	54.03	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0013	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)	44.05	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0014	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)	55.24	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0015	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)	58.79	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0016	EA	Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	35.74	15.69
		For Rotary Nozzle, Add	3.25	
32 84 23 00-0017	EA	Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	39.29	15.69

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0018 Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001) Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC).....	51.49	15.69
For Non-Potable Cover, Add	2.00	
32 84 23 00-0021 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	52.76	15.69
For Non-Potable Cover, Add	2.00	
32 84 23 00-0022 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)	48.46	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0024 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)	62.13	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0025 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS)	50.99	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0026 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS)	64.15	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0027 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR)	52.00	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0028 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR)	54.03	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0029 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCR)	67.19	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0030 EA 12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCR)	75.29	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0031 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS)	53.77	15.69
For Non-Potable Cover, Add	2.00	
32 84 23 00-0032 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCR)	61.87	15.69
For Non-Potable Cover, Add	2.00	
32 84 23 00-0033 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034 EA 4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC)	81.12	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
For Stainless Steel Riser And High Speed Rotor, Add	37.27	
32 84 23 00-0035 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036 EA 5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005).....	110.49	15.69
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0037 Impact-Drive Sprinkler Heads (32 84 23 00-0001) Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038 EA 1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08).....	66.94	15.69
For Non-Potable Cover, Add	2.00	
32 84 23 00-0039 EA 1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	54.79	15.69
32 84 23 00-0040 EA 3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB)	95.28	15.69
32 84 23 00-0041 Electric Remote Control Irrigation Valves (32 84 23) 32 84 23 00-0042 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0043 EA 3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV).....	169.63	65.39



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0044	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV)	169.63	65.39
32 84 23 00-0045	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	188.32	74.54
32 84 23 00-0046	EA	1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA)	170.64	65.39
32 84 23 00-0047		0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF)	170.64	65.39
32 84 23 00-0049	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS)	189.84	74.54
32 84 23 00-0050	EA	1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	190.85	74.54
32 84 23 00-0051		0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052	EA	1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	251.66	65.39
32 84 23 00-0053	EA	1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	287.11	65.39
32 84 23 00-0054	EA	2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	332.68	65.39
32 84 23 00-0055		5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D)	345.79	73.50
32 84 23 00-0057	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D)	381.24	73.50
32 84 23 00-0058	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D)	426.81	73.50
32 84 23 00-0059		20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D)	396.43	73.50
32 84 23 00-0061	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D)	431.87	73.50
32 84 23 00-0062	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D)	477.45	73.50
32 84 23 00-0063		0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B)	352.48	65.39
32 84 23 00-0065	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B)	515.44	65.39
32 84 23 00-0066	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B)	530.17	65.39
32 84 23 00-0067	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B)	1,199.74	88.28
32 84 23 00-0068		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP)	334.80	73.50
32 84 23 00-0070	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB- CP)	383.26	73.50
32 84 23 00-0071	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB- CP)	435.87	73.50
32 84 23 00-0072	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP)	505.15	73.50
32 84 23 00-0073		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B- FS).....	425.89	73.50
32 84 23 00-0075	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G- B-FS).....	619.24	73.50
32 84 23 00-0076	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B- FS).....	635.81	73.50
32 84 23 00-0077	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B- FS).....	1,267.41	73.50

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0078		0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ).....	426.13	65.39
32 84 23 00-0080	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ).....	589.10	65.39
32 84 23 00-0081	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ).....	603.83	65.39
32 84 23 00-0082	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ).....	1,273.40	88.28
32 84 23 00-0083		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	410.76	73.50
32 84 23 00-0085	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	459.22	73.50
32 84 23 00-0086	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	511.83	73.50
32 84 23 00-0087	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	581.11	73.50
32 84 23 00-0088		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	499.55	73.50
32 84 23 00-0090	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	692.89	73.50
32 84 23 00-0091	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	709.47	73.50
32 84 23 00-0092	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	1,341.07	73.50
32 84 23 00-0093		Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)		
32 84 23 00-0094	EA	Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL).....	128.27	
32 84 23 00-0095		Remote Control Valve Assemblies (32 84 23 00-0041) Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096	EA	1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	556.44	163.49
32 84 23 00-0097	EA	1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	591.88	163.49
32 84 23 00-0098	EA	2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	637.46	163.49
32 84 23 00-0099	EA	1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	607.07	163.49
32 84 23 00-0100	EA	Note: Purple components for use with recycled water 1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	642.52	163.49
32 84 23 00-0101	EA	Note: Purple components for use with recycled water 2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	688.10	163.49
32 84 23 00-0102	EA	Note: Purple components for use with recycled water 1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	621.41	163.49
32 84 23 00-0103	EA	Note: Purple components for use with recycled water 1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	722.48	163.49
32 84 23 00-0104	EA	Note: Purple components for use with recycled water 2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	791.75	163.49
32 84 23 00-0105		Irrigation Valve Boxes (32 84 23) Note: Includes lid.		
32 84 23 00-0106	EA	6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	108.58	47.08
32 84 23 00-0107	EA	7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	120.54	47.08
32 84 23 00-0108	EA	10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	158.28	61.99
32 84 23 00-0109	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	261.40	90.50
32 84 23 00-0110	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	265.57	90.50



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0111 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	295.48	90.50
32 84 23 00-0112 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	299.04	90.50
32 84 23 00-0113 EA 33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	469.97	90.50
32 84 23 00-0114 EA 40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	691.35	90.50
32 84 23 00-0115 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	389.54	118.22
For 12" Extension, Add	82.99	
32 84 23 00-0116 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid.....	607.02	118.22
For 12" Extension, Add	82.99	
32 84 23 00-0117 EA 12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	213.40	78.47
32 84 23 00-0118 EA 15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	297.36	90.50
32 84 23 00-0119 EA 10" Round Irrigation Valve Box With Lid (Carson 910-10).....	168.15	61.99
32 84 23 00-0120 Irrigation Controllers (32 84 23) See CSI section 27 15 13 00-0531 for low voltage wiring.		
32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)		
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)		
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)		
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)		
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	287.67	31.56
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	402.54	31.56
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	517.42	31.56
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	632.30	31.56
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	715.63	31.56
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	834.46	31.56
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	953.29	31.56
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0132)		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	330.58	31.56
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	445.45	31.56
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	560.33	31.56
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	675.21	31.56
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	758.54	31.56
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	877.37	31.56
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	996.20	31.56
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0140)		
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	436.73	31.56
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	551.60	31.56
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	666.48	31.56
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	781.36	31.56
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	864.69	31.56
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	983.52	31.56
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,102.34	31.56
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0149)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	468.88	31.56
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	583.75	31.56
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	698.63	31.56
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	813.51	31.56
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	896.84	31.56
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,015.68	31.56
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,134.50	31.56
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0157)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3).....	118.82	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6).....	228.69	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG).....	293.53	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0162		Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)		
32 84 23 00-0163		Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)		
32 84 23 00-0164	EA	12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	666.29	31.56
32 84 23 00-0165	EA	16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	810.11	31.56
32 84 23 00-0166	EA	20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	956.02	31.56
32 84 23 00-0167	EA	24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,099.85	31.56
32 84 23 00-0168	EA	28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,245.76	31.56
32 84 23 00-0169	EA	32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,389.60	31.56
32 84 23 00-0170	EA	36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,535.51	31.56
32 84 23 00-0171	EA	40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,679.34	31.56
32 84 23 00-0172	EA	44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,825.25	31.56
32 84 23 00-0173	EA	48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,969.08	31.56
32 84 23 00-0174		Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)		
32 84 23 00-0175	EA	8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	647.32	31.56
32 84 23 00-0176	EA	12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	791.15	31.56
32 84 23 00-0177	EA	16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	937.06	31.56
32 84 23 00-0178	EA	20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,080.89	31.56
32 84 23 00-0179	EA	24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,226.80	31.56
32 84 23 00-0180	EA	28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,370.63	31.56
32 84 23 00-0181	EA	32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,516.55	31.56
32 84 23 00-0182	EA	36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,660.38	31.56
32 84 23 00-0183	EA	40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,806.29	31.56
32 84 23 00-0184	EA	44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,950.11	31.56
32 84 23 00-0185	EA	48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,096.02	31.56
32 84 23 00-0186		Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)		
32 84 23 00-0187	EA	Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	458.67	
32 84 23 00-0188	EA	Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMPED + LXMM).....	1,057.84	
		Note: Excludes concrete foundation.		
32 84 23 00-0189	EA	Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	984.15	
32 84 23 00-0190	EA	Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	2,181.63	
		Note: Excludes concrete foundation.		
32 84 23 00-0191	EA	4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4).....	143.83	
		Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192	EA	8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8).....	289.75	
		Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193	EA	12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12).....	447.87	
		Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194	EA	Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	161.95	
32 84 23 00-0195		Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196		Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197	EA	1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	313.18	31.56
32 84 23 00-0198	EA	2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	381.13	31.56
32 84 23 00-0199	EA	4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	481.70	31.56
32 84 23 00-0200		Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)		
32 84 23 00-0201	EA	Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS).....	364.19	
32 84 23 00-0202	EA	Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL).....	83.14	23.66
32 84 23 00-0203		Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204	EA	Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDLEX).....	129.00	23.66
32 84 23 00-0205	EA	Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC).....	254.53	23.66
32 84 23 00-0206	EA	Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....	267.02	23.66
32 84 23 00-0207	EA	Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....	375.24	23.66
32 84 23 00-0208		Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209		Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0210	Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209) Note: Includes water resistant cabinet.	
32 84 23 00-0211 EA	50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	1,828.18
32 84 23 00-0212 EA	125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	2,702.90
32 84 23 00-0213 EA	200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	3,577.62
32 84 23 00-0214	Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)	
32 84 23 00-0215 EA	One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF)	230.96
32 84 23 00-0216 EA	One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF)	292.54
32 84 23 00-0217 EA	Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF)	433.74
32 84 23 00-0218 EA	Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF)	521.95
32 84 23 00-0219 EA	Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF)	850.88
32 84 23 00-0220	Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)	
32 84 23 00-0221 EA	50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD)	1,375.03
32 84 23 00-0222 EA	75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	874.72
32 84 23 00-0223 EA	Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF)	175.48
32 84 23 00-0224 EA	Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	739.62
32 84 23 00-0225	Calsense Controllers (32 84 23 00-0120)	
32 84 23 00-0226	Irrigation Controllers (32 84 23 00-0225)	
32 84 23 00-0227 EA	6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6)	2,273.49
32 84 23 00-0228 EA	8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8)	2,932.85
32 84 23 00-0229 EA	12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12)	4,025.19
32 84 23 00-0230 EA	16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16)	4,428.66
32 84 23 00-0231 EA	24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24)	5,235.62
32 84 23 00-0232 EA	32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32)	6,318.08
32 84 23 00-0233 EA	40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40)	7,154.57
32 84 23 00-0234 EA	48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48)	8,010.70
32 84 23 00-0235 EA	Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE)	2,315.37
32 84 23 00-0236 EA	Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE)	973.47
32 84 23 00-0237	Irrigation Controller Accessories (32 84 23 00-0225)	
32 84 23 00-0238 EA	Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1)	94.47
32 84 23 00-0239 EA	Spare Lock For Enclosures (Calsense PAD)	102.34
32 84 23 00-0240 EA	Hardware And Software For Up To 4 Additional Light Circuits (Calsense L)	122.06
32 84 23 00-0241 EA	Transformer For Irrigation Controllers (Calsense TR-1)	177.28
32 84 23 00-0242 EA	AC Line Protection For Irrigation Controllers (Calsense TP-110)	482.33
32 84 23 00-0243 EA	Transient Protection Board For Irrigation Controller Stations (Calsense TP-1)	639.78
	For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add	348.06
32 84 23 00-0244	Sensors For Irrigation Controllers (32 84 23 00-0225)	
32 84 23 00-0245	Flow Sensors (32 84 23 00-0244)	
32 84 23 00-0246 EA	1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	1,122.06
	For Flow Meter Replacement Insert Only, Deduct	-748.18
32 84 23 00-0247 EA	2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2)	1,161.42
	For Flow Meter Replacement Insert Only, Deduct	-787.54
32 84 23 00-0248 EA	3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3)	1,200.79
	For Flow Meter Replacement Insert Only, Deduct	-826.91
32 84 23 00-0249 EA	1" Brass Tee Mounted Flow Meter (Calsense FM 1B)	1,328.79
	For Flow Meter Replacement Insert Only, Deduct	-954.60
32 84 23 00-0250 EA	1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B)	1,427.20
	For Flow Meter Replacement Insert Only, Deduct	-1,053.01
32 84 23 00-0251 EA	1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B)	1,466.56
	For Flow Meter Replacement Insert Only, Deduct	-1,092.37
32 84 23 00-0252 EA	2" Brass Tee Mounted Flow Meter (Calsense FM 2B)	1,722.42
	For Flow Meter Replacement Insert Only, Deduct	-1,220.04
32 84 23 00-0253 EA	2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX)	1,338.47
	Note: For 4" and larger pipe. Excludes pipe saddle.	
	For Flow Meter Replacement Insert Only, Deduct	-836.10
32 84 23 00-0254	Moisture Sensors (32 84 23 00-0244)	
32 84 23 00-0255 EA	Soil Moisture Sensor (Calsense 1000-S)	472.47
32 84 23 00-0256	Weather Sensors (32 84 23 00-0244)	
32 84 23 00-0257 EA	Wind Gage, Irrigation Weather Sensor (Calsense WG-1)	1,289.43
32 84 23 00-0258 EA	Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1)	1,486.55
32 84 23 00-0259 EA	ET Gage, Irrigation Weather Sensor (Calsense ETG)	2,942.79

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0260			Weather Sensor Accessories (32 84 23 00-0244)		
32 84 23 00-0261	EA		Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C)	866.12	
32 84 23 00-0262	EA		Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB)	1,633.68	
32 84 23 00-0263	EA		Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE)	866.12	39.44
32 84 23 00-0264	EA		Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE)	1,997.72	39.44
32 84 23 00-0265			Antennas For Irrigation Controllers (32 84 23 00-0225) Note: Excludes antenna cable.		
32 84 23 00-0266	EA		Local Radio Dome Antenna (Calsense LR-DOME)	452.81	39.44
32 84 23 00-0267	EA		Local Radio Stick Antenna (Calsense LR-STICK)	659.47	39.44
32 84 23 00-0268	EA		Local Radio Yagi Antenna (Calsense LR-YAGI)	738.36	78.87
32 84 23 00-0269	EA		Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR)	452.81	39.44
32 84 23 00-0270	EA		Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE)	452.81	39.44
32 84 23 00-0271	EA		GPRS Stubby Antenna (Calsense GR-STUBBY)	452.81	39.44
32 84 23 00-0272	EA		GPRS Stick Antenna (Calsense GR-STICK)	659.47	39.44
32 84 23 00-0273	EA		Spread Spectrum Dome Antenna (Calsense SR-DOME)	452.81	39.44
32 84 23 00-0274	EA		Spread Spectrum Stick Antenna (Calsense SR-STICK)	659.47	39.44
32 84 23 00-0275	EA		Spread Spectrum Yagi Antenna (Calsense SR-YAGI)	738.36	78.87
32 84 23 00-0276	EA		Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR)	452.81	39.44
32 84 23 00-0277	EA		Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE)	452.81	39.44
32 84 23 00-0278	EA		Spread Spectrum Stubby Antenna (Calsense SR-STUBBY)	452.81	39.44
32 84 23 00-0279	EA		WiFi Stubby Antenna (Calsense WEN-STUBBY)	452.81	39.44
32 84 23 00-0280	LF		Antenna Cable With End Connectors (Calsense LMR-400-DB)	12.36	0.47
32 84 23 00-0281	EA		Surge Protection Device For Antenna (Calsense ANT-PROT)	452.75	19.72
32 84 23 00-0282	EA		5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5)	738.19	39.44
32 84 23 00-0283	EA		3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM)	639.64	
32 84 23 00-0284	EA		Local Radio Frequency Filter (Calsense LR-FILTER)	905.34	
32 84 23 00-0285	EA		Spread Spectrum Frequency Filter (Calsense SR-FILTER)	669.16	
32 84 23 00-0286			Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0287	EA		15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER)	413.54	59.16
32 84 23 00-0288	EA		Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	1,002.34	98.60
32 84 23 00-0289	EA		Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)	1,112.13	39.44
			Note: Includes GFI and receptacle.		
32 84 23 00-0290	EA		Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)	1,328.60	29.58
			Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0291	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE)	4,164.03	29.58
			Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0292	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R)	4,703.92	29.58
			Note: Includes factory installed transient protection board, AC line protection and dome antenna.		
32 84 23 00-0293	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)	6,825.14	59.16
			Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.		
32 84 23 00-0294	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)	7,153.90	59.16
			Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.		
32 84 23 00-0295	EA		Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM)	234.42	
32 84 23 00-0296	EA		Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED)	757.84	
32 84 23 00-0297			Central Computer For Irrigation Control Systems (32 84 23 00-0225)		
32 84 23 00-0298	EA		Central Computer For Irrigation Control Systems (Calsense COMP-2)	5,249.66	
			Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0299	EA		Command Center Water Management Software For Central Computer (Calsense COMM-1)	9,293.25	
32 84 23 00-0300	EA		Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5)	1,783.91	
			Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301	EA		>5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10)	3,512.60	
			Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0302	EA		Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2)	5,655.70	
32 84 23 00-0303	EA		GPRS Radio For Use At Central Computer (Calsense DTR-G)	3,381.59	
32 84 23 00-0304			Data Access Service (32 84 23 00-0225)		
32 84 23 00-0305	EA		1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN)	28.63	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306	EA		1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR)	313.11	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307	EA		5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR)	1,341.90	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308	EA		1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M)	116.30	
			Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309	EA		1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M)	1,252.44	
			Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310	EA		5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M)	5,367.60	
			Note: For communication between GPRS unit and multiple controllers.		



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Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0311 Communication Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0312 EA FCC License Fee (Calsense).....	191.52	
32 84 23 00-0313 EA P.C.I.A. And/Or A.P.C.O. Fee (Calsense).....	370.44	
Note: Per frequency or frequency pair.		
32 84 23 00-0314 EA Hardware Communication Option For Irrigation Controllers (Calsense M).....	1,037.74	
Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		
32 84 23 00-0315 EA Phone Line Communication Option For Irrigation Controllers (Calsense R).....	1,091.41	
32 84 23 00-0316 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN).....	1,091.41	
32 84 23 00-0317 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN).....	2,236.50	
32 84 23 00-0318 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR).....	2,844.83	
32 84 23 00-0319 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR).....	2,844.83	
32 84 23 00-0320 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR).....	2,844.83	
32 84 23 00-0321 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM).....	9,124.92	
32 84 23 00-0322 EA Communication Hub For Irrigation Controllers (Calsense HUB).....	3,514.96	
Note: Accepts up to two communication options. Excludes communication options.		
32 84 23 00-0323 Retrofit Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0324 Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0325 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO).....	1,393.93	
32 84 23 00-0326 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO).....	1,393.93	
32 84 23 00-0327 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO).....	1,393.93	
32 84 23 00-0328 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO).....	1,393.93	
32 84 23 00-0329 Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0330 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO).....	1,465.50	
32 84 23 00-0331 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO).....	1,733.88	
32 84 23 00-0332 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO).....	2,780.56	
32 84 23 00-0333 Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0334 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO).....	1,644.42	
32 84 23 00-0335 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO).....	3,469.40	
32 84 23 00-0336 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO).....	4,507.14	
32 84 23 00-0337 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0338 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro).....	1,644.42	
32 84 23 00-0339 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR-RETRO).....	3,469.40	
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO).....	4,507.14	
32 84 23 00-0341 Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0342 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro).....	1,644.42	
32 84 23 00-0343 EA Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO).....	1,733.88	
32 84 23 00-0344 EA Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO).....	2,780.56	
32 84 23 00-0345 GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0346 EA Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	1,644.42	
32 84 23 00-0347 EA Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO).....	3,469.40	
32 84 23 00-0348 EA Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO).....	4,507.14	
32 84 23 00-0349 Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0350 EA Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN).....	1,653.37	
32 84 23 00-0351 EA Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe).....	354.26	
Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.		
32 84 23 00-0352 EA Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG).....	152.08	
32 84 23 00-0353 EA Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT).....	270.21	
32 84 23 00-0354 EA Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT).....	171.80	9.86
Note: Excludes antenna cable.		
32 84 23 00-0355 EA Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP).....	332.83	9.86
Note: Excludes antenna cable.		
32 84 23 00-0356 EA Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome).....	359.67	9.86
Note: Excludes antenna cable.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0357 Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120)		
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358 EA 12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS)	3,881.66	177.48
32 84 23 00-0359 EA 24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS)	4,093.56	187.34
32 84 23 00-0360 EA 40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS)	5,684.99	197.20
32 84 23 00-0361 LEIT Controllers (32 84 23 00-0120)		
32 84 23 00-0362 LEIT X Series Irrigation Controller (32 84 23 00-0361)		
32 84 23 00-0363 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,646.73	31.56
32 84 23 00-0364 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,001.15	31.56
32 84 23 00-0365 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,580.10	31.56
32 84 23 00-0366 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,159.06	31.56
32 84 23 00-0367 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,568.69	31.56
32 84 23 00-0368 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,978.32	31.56
32 84 23 00-0369 LEIT X Series Irrigation Controller Assembly (32 84 23 00-0361)		
Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,149.05	165.34
32 84 23 00-0371 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,503.47	165.34
32 84 23 00-0372 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	5,082.42	165.34
32 84 23 00-0373 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	5,661.38	165.34
32 84 23 00-0374 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	6,071.01	165.34
32 84 23 00-0375 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	6,480.64	165.34
32 84 23 00-0376 Enclosure For LEIT Controller Assembly (32 84 23 00-0361)		
Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377 EA 12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch	2,800.15	221.83
Note: For LEIT Controller		
32 84 23 00-0378 Hunter Controllers (32 84 23 00-0120)		
32 84 23 00-0379 Hunter XC Hybrid Controller (32 84 23 00-0378)		
Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380 EA 6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS)	606.39	78.87
32 84 23 00-0381 EA 12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS)	771.48	98.60
32 84 23 00-0382 DC Latching Solenoid (32 84 23 00-0120)		
32 84 23 00-0383 EA DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers	34.30	
Note: As per manufacture of valve.		
32 84 23 00-0384 EA DC Solenoid For LEIT Controllers (DIG S-305DC)	53.37	
32 84 23 00-0385 Irrigation Controller Enclosure Cabinet (32 84 23 00-0120)		
Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		
32 84 23 00-0386 EA 35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,709.63	433.47
32 84 23 00-0387 EA 35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,925.23	472.87
32 84 23 00-0388 EA 35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	3,235.10	512.27
32 84 23 00-0389 EA 35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet	2,709.66	433.47
32 84 23 00-0390 EA 35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	2,925.23	472.87
32 84 23 00-0391 EA 35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	3,235.10	512.27
32 84 23 00-0392 EA 35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,357.78	433.47
32 84 23 00-0393 EA 35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,654.37	472.87
32 84 23 00-0394 EA 35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,964.23	512.27
32 84 23 00-0395 Irrigation Valves (32 84 23)		
32 84 23 00-0396 Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	699.32	53.98
32 84 23 00-0398 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	831.30	65.91
32 84 23 00-0399 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,237.34	76.71
32 84 23 00-0400 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,313.51	88.07
32 84 23 00-0401 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,583.18	113.64



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0402 Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)		
32 84 23 00-0403 EA 3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	169.44	47.08
For Valve Key, Add	37.22	
32 84 23 00-0404 EA 3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC)	173.74	47.08
For Locking Cover, Add	25.00	
For Valve Key, Add	37.22	
32 84 23 00-0405 EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	221.09	47.08
For Valve Key, Add	95.20	
32 84 23 00-0406 EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	238.31	47.08
For Valve Key, Add	95.20	
32 84 23 00-0407 EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP).....	230.20	47.08
32 84 23 00-0408 EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	238.31	47.08
32 84 23 00-0409 Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395)		
Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0410 EA 3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	267.59	39.77
32 84 23 00-0411 EA 1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	376.24	45.45
32 84 23 00-0412 EA 1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	664.99	52.56
32 84 23 00-0413 EA 1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	808.41	58.24
32 84 23 00-0414 EA 2" Anti-Siphon Pressure Type Vacuum Breaker	822.06	71.03
32 84 23 00-0415 Aluminum Cam And Groove Adapter (32 84 23 00-0395)		
32 84 23 00-0416 EA 1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	47.74	
32 84 23 00-0417 EA 2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	50.35	
32 84 23 00-0418 EA 1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread.....	48.76	
32 84 23 00-0419 EA 2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread	52.27	
32 84 23 00-0420 Irrigation Piping (32 84 23)		
32 84 23 00-0421 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0420)		
Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
32 84 23 00-0422 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0423 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.73	1.31
For >1,000, Deduct	-0.19	
32 84 23 00-0424 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.59	1.64
For >1,000, Deduct	-0.23	
32 84 23 00-0425 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.58	1.96
For >1,000, Deduct	-0.28	
32 84 23 00-0426 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	7.46	2.48
For >1,000, Deduct	-0.37	
32 84 23 00-0427 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	9.40	3.11
For >1,000, Deduct	-0.47	
32 84 23 00-0428 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	12.06	3.63
For >1,000, Deduct	-0.60	
32 84 23 00-0429 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	16.58	5.23
For >1,000, Deduct	-0.83	
32 84 23 00-0430 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	21.73	6.54
For >1,000, Deduct	-1.09	
32 84 23 00-0431 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	31.17	8.18
For >1,000, Deduct	-1.56	
32 84 23 00-0432 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0433 LF 3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.31	1.64
For >1,000, Deduct	-0.22	
32 84 23 00-0434 LF 1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	5.12	1.96
For >1,000, Deduct	-0.26	
32 84 23 00-0435 LF 1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	7.13	2.48
For >1,000, Deduct	-0.36	
32 84 23 00-0436 LF 2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	9.12	3.11
For >1,000, Deduct	-0.46	
32 84 23 00-0437 LF 2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	11.65	3.63
For >1,000, Deduct	-0.58	
32 84 23 00-0438 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	16.42	5.23
For >1,000, Deduct	-0.82	
32 84 23 00-0439 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	22.60	6.54
For >1,000, Deduct	-1.13	
32 84 23 00-0440 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	36.64	8.18
For >1,000, Deduct	-1.83	
32 84 23 00-0441 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0442 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.55	1.64
For >1,000, Deduct	-0.23	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0443 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.43	1.96
For >1,000, Deduct	-0.27	
32 84 23 00-0444 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	7.74	2.48
For >1,000, Deduct	-0.39	
32 84 23 00-0445 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	10.13	3.11
For >1,000, Deduct	-0.51	
32 84 23 00-0446 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	13.25	3.63
For >1,000, Deduct	-0.66	
32 84 23 00-0447 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	16.58	5.23
For >1,000, Deduct	-0.83	
32 84 23 00-0448 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	21.73	6.54
For >1,000, Deduct	-1.09	
32 84 23 00-0449 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	31.70	8.18
For >1,000, Deduct	-1.59	
32 84 23 00-0450 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted (32 84 23 00-0450) Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
32 84 23 00-0451 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)		
32 84 23 00-0452 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.55	1.64
For >1,000, Deduct	-0.33	
32 84 23 00-0453 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.56	1.96
For >1,000, Deduct	-0.38	
32 84 23 00-0454 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.42	2.48
For >1,000, Deduct	-0.47	
32 84 23 00-0455 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	11.35	3.11
For >1,000, Deduct	-0.57	
32 84 23 00-0456 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	14.04	3.63
For >1,000, Deduct	-0.70	
32 84 23 00-0457 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	18.55	5.23
For >1,000, Deduct	-0.93	
32 84 23 00-0458 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	23.69	6.54
For >1,000, Deduct	-1.18	
32 84 23 00-0459 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	33.12	8.18
For >1,000, Deduct	-1.66	
32 84 23 00-0460 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)		
32 84 23 00-0461 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.79	1.64
For >1,000, Deduct	-0.34	
32 84 23 00-0462 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.79	1.96
For >1,000, Deduct	-0.39	
32 84 23 00-0463 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.66	2.48
For >1,000, Deduct	-0.48	
32 84 23 00-0464 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	11.59	3.11
For >1,000, Deduct	-0.58	
32 84 23 00-0465 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	14.26	3.63
For >1,000, Deduct	-0.71	
32 84 23 00-0466 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	18.78	5.23
For >1,000, Deduct	-0.94	
32 84 23 00-0467 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	23.93	6.54
For >1,000, Deduct	-1.20	
32 84 23 00-0468 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	33.36	8.18
For >1,000, Deduct	-1.67	
32 84 23 00-0469 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)		
32 84 23 00-0470 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.02	1.64
For >1,000, Deduct	-0.35	
32 84 23 00-0471 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.02	1.96
For >1,000, Deduct	-0.40	
32 84 23 00-0472 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	9.90	2.48
For >1,000, Deduct	-0.50	
32 84 23 00-0473 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	11.82	3.11
For >1,000, Deduct	-0.59	
32 84 23 00-0474 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	14.50	3.63
For >1,000, Deduct	-0.73	
32 84 23 00-0475 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	19.02	5.23
For >1,000, Deduct	-0.95	
32 84 23 00-0476 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	24.16	6.54
For >1,000, Deduct	-1.21	
32 84 23 00-0477 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	33.59	8.18
For >1,000, Deduct	-1.68	
32 84 23 00-0478 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0479	LF	3/4"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	6.40 -0.32	1.64
32 84 23 00-0480	LF	1"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	7.32 -0.37	1.96
32 84 23 00-0481	LF	1-1/2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.44 -0.47	2.48
32 84 23 00-0482	LF	2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	11.84 -0.59	3.11
32 84 23 00-0483	LF	2-1/2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.83 -0.74	3.63
32 84 23 00-0484	LF	3"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.39 -0.92	5.23
32 84 23 00-0485	LF	4"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	24.55 -1.23	6.54
32 84 23 00-0486	LF	6"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	38.60 -1.93	8.18
32 84 23 00-0487 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0488	LF	3/4"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	6.64 -0.33	1.64
32 84 23 00-0489	LF	1"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	7.55 -0.38	1.96
32 84 23 00-0490	LF	1-1/2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.68 -0.48	2.48
32 84 23 00-0491	LF	2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	12.08 -0.60	3.11
32 84 23 00-0492	LF	2-1/2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	15.05 -0.75	3.63
32 84 23 00-0493	LF	3"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.62 -0.93	5.23
32 84 23 00-0494	LF	4"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	24.79 -1.24	6.54
32 84 23 00-0495	LF	6"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	38.84 -1.94	8.18
32 84 23 00-0496 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0497	LF	3/4"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	6.87 -0.34	1.64
32 84 23 00-0498	LF	1"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	7.78 -0.39	1.96
32 84 23 00-0499	LF	1-1/2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.92 -0.50	2.48
32 84 23 00-0500	LF	2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	12.31 -0.62	3.11
32 84 23 00-0501	LF	2-1/2"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	15.29 -0.76	3.63
32 84 23 00-0502	LF	3"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.86 -0.94	5.23
32 84 23 00-0503	LF	4"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	25.02 -1.25	6.54
32 84 23 00-0504	LF	6"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	39.07 -1.95	8.18
32 84 23 00-0505 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0506	LF	3/4"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	6.50 -0.33	1.64
32 84 23 00-0507	LF	1"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	7.41 -0.37	1.96
32 84 23 00-0508	LF	1-1/2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.69 -0.48	2.48
32 84 23 00-0509	LF	2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	12.09 -0.60	3.11
32 84 23 00-0510	LF	2-1/2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	15.23 -0.76	3.63
32 84 23 00-0511	LF	3"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.55 -0.93	5.23

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0512	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	23.69	6.54
			For >1,000, Deduct	-1.18	
32 84 23 00-0513	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	33.66	8.18
			For >1,000, Deduct	-1.68	
32 84 23 00-0514 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0515	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.74	1.64
			For >1,000, Deduct	-0.34	
32 84 23 00-0516	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.64	1.96
			For >1,000, Deduct	-0.38	
32 84 23 00-0517	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.93	2.48
			For >1,000, Deduct	-0.50	
32 84 23 00-0518	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.33	3.11
			For >1,000, Deduct	-0.62	
32 84 23 00-0519	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	15.45	3.63
			For >1,000, Deduct	-0.77	
32 84 23 00-0520	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	18.78	5.23
			For >1,000, Deduct	-0.94	
32 84 23 00-0521	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	23.93	6.54
			For >1,000, Deduct	-1.20	
32 84 23 00-0522	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	33.90	8.18
			For >1,000, Deduct	-1.70	
32 84 23 00-0523 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0524	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.97	1.64
			For >1,000, Deduct	-0.35	
32 84 23 00-0525	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.87	1.96
			For >1,000, Deduct	-0.39	
32 84 23 00-0526	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.17	2.48
			For >1,000, Deduct	-0.51	
32 84 23 00-0527	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	12.56	3.11
			For >1,000, Deduct	-0.63	
32 84 23 00-0528	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	15.69	3.63
			For >1,000, Deduct	-0.78	
32 84 23 00-0529	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	19.02	5.23
			For >1,000, Deduct	-0.95	
32 84 23 00-0530	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	24.16	6.54
			For >1,000, Deduct	-1.21	
32 84 23 00-0531	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	34.13	8.18
			For >1,000, Deduct	-1.71	
32 84 23 00-0532 Irrigation Riser Piping With Fittings (32 84 23 00-0420)					
32 84 23 00-0533	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV	18.22	3.92
			Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0534	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV	19.95	4.91
			Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0535	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV	19.80	4.58
			Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0536	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV	21.94	5.72
			Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0537	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I	38.54	6.87
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0538	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I	41.56	8.58
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0539	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I	45.58	8.83
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0540	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I	49.47	11.04
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0541	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I	52.63	10.79
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0542	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I	57.38	13.49
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0543 Irrigation Crossover Piping With Fittings (32 84 23 00-0420)					
			Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0587 for irrigation wiring.		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0544 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench (32 84 23 00-0543)		
32 84 23 00-0545 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation For >1,000, Deduct	43.34 -2.17	
32 84 23 00-0546 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation For >1,000, Deduct	61.12 -3.06	
32 84 23 00-0547 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... For >1,000, Deduct	84.07 -4.20	
32 84 23 00-0548 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... For >1,000, Deduct	110.93 -5.55	
32 84 23 00-0549 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench (32 84 23 00-0543)		
32 84 23 00-0550 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	44.05 -2.20	
32 84 23 00-0551 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	61.89 -3.09	
32 84 23 00-0552 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	84.92 -4.25	
32 84 23 00-0553 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	111.86 -5.59	
32 84 23 00-0554 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench (32 84 23 00-0543)		
32 84 23 00-0555 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation For >1,000, Deduct	44.74 -2.24	
32 84 23 00-0556 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	62.68 -3.13	
32 84 23 00-0557 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	85.79 -4.29	
32 84 23 00-0558 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	112.79 -5.64	
32 84 23 00-0559 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore (32 84 23 00-0543)		
32 84 23 00-0560 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	93.93 -4.70	
32 84 23 00-0561 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	121.96 -6.10	
32 84 23 00-0562 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	149.94 -7.50	
32 84 23 00-0563 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	181.85 -9.09	
32 84 23 00-0564 Below Ground Cam Adapter Assembly (32 84 23 00-0420) Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0565 EA Below Ground Cam Adapter Assembly Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	799.67	
32 84 23 00-0566 Above Ground Cam Adapter Assembly (32 84 23 00-0420) Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0567 EA Above Ground Cam Adapter Assembly Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	507.44	
32 84 23 00-0568 Thrust Block (32 84 23 00-0420)		
32 84 23 00-0569 EA Thrust Block For 1-1/2" Pipe Size And Smaller	37.77	
32 84 23 00-0570 EA Thrust Block For 2" Pipe	65.77	
32 84 23 00-0571 EA Thrust Block For 3" And 4" Pipe	93.77	
32 84 23 00-0572 EA Thrust Block For 6" Pipe	150.24	
32 84 23 00-0573 EA Thrust Block For 8" Pipe	216.12	
32 84 23 00-0574 Irrigation Swing Joints (32 84 23)		
32 84 23 00-0575 EA 3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	64.36	26.03
32 84 23 00-0576 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	72.96	29.06
32 84 23 00-0577 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS)	93.22	29.06

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0578	EA	1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	54.01	33.92
32 84 23 00-0579	EA	3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	72.14	45.25
32 84 23 00-0580	EA	1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	90.23	55.49
32 84 23 00-0581	EA	1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	77.10	34.45
32 84 23 00-0582	EA	3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	101.93	45.71
32 84 23 00-0583	EA	1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	125.04	56.05
32 84 23 00-0584	EA	1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	43.56	21.10
32 84 23 00-0585	EA	3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	58.19	28.13
32 84 23 00-0586	EA	1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	68.75	34.88
32 84 23 00-0587		Irrigation Control Wire (32 84 23) Note: Excludes excavation and backfill.		
32 84 23 00-0588		18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0589	CLF	1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	55.80	19.62
32 84 23 00-0590	CLF	2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	71.54	22.89
32 84 23 00-0591	CLF	3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	82.22	26.16
32 84 23 00-0592	CLF	4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	93.83	29.43
32 84 23 00-0593	CLF	5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	106.33	32.70
32 84 23 00-0594	CLF	6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	125.31	35.96
32 84 23 00-0595	CLF	7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	143.58	39.23
32 84 23 00-0596	CLF	8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	155.94	42.50
32 84 23 00-0597	CLF	9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	170.71	45.77
32 84 23 00-0598	CLF	10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	187.39	49.04
32 84 23 00-0599	CLF	11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	194.82	52.31
32 84 23 00-0600	CLF	12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	203.20	55.58
32 84 23 00-0601	CLF	13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	214.51	58.85
32 84 23 00-0602		16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0603	CLF	1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	58.24	19.62
32 84 23 00-0604		14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0605	CLF	1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	58.25	19.62
32 84 23 00-0606		12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0607	CLF	1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	74.44	19.62
32 84 23 00-0608		10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0609	CLF	1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	94.94	19.62
32 84 23 00-0610		Root Watering Systems (32 84 23) Note: Includes swing assembly.		
32 84 23 00-0611	EA	0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401)..... For Root Watering Sand Sock, Add	100.63 1.13	26.16
32 84 23 00-0612	EA	0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)..... For Root Watering Sand Sock, Add	107.33 1.13	26.16
32 84 23 00-0613	EA	0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402)..... For Root Watering Sand Sock, Add	100.63 1.13	26.16
32 84 23 00-0614	EA	0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)..... For Root Watering Sand Sock, Add	107.33 1.13	26.16
32 84 23 00-0615	EA	1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)..... For Root Watering Sand Sock, Add	107.33 1.13	26.16
32 84 23 00-0616	EA	0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401)..... For Root Watering Sand Sock, Add	87.45 1.13	22.89
32 84 23 00-0617	EA	0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)..... For Root Watering Sand Sock, Add	93.88 1.13	22.89
32 84 23 00-0618	EA	0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402)..... For Root Watering Sand Sock, Add	87.45 1.13	22.89
32 84 23 00-0619	EA	0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)..... For Root Watering Sand Sock, Add	93.88 1.13	22.89



Exterior Improvements		32	32
Irrigation		32 80	
Planting Irrigation		32 84	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84	23 00-0620	EA	0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401).....	61.40	19.62
			For Root Watering Sand Sock, Add	1.13	
32 84	23 00-0621	EA	0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401).....	67.53	19.62
			For Root Watering Sand Sock, Add	1.13	

32 90 Planting⁽³²⁾

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation^(32 90)

32 91 13 Soil Preparation^(32 91)

32 91 13 16 Mulching^(32 91 13)

32 91 13 16-0001 Mulch^(32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

32 91 13 16-0002	CY	Pea Gravel Mulch	95.51
		For >5 To 20, Deduct	-8.00
		For >20 To 50, Deduct	-12.01
		For >50, Deduct	-16.78
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0003	CY	Stone/Gravel Mulch, Marble Chips	283.51
		For >5 To 20, Deduct	-17.40
		For >20 To 50, Deduct	-26.11
		For >50, Deduct	-40.28
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0004	CY	Stone Mulch, Decomposed Granite Chips	154.58
		For >5 To 20, Deduct	-10.96
		For >20 To 50, Deduct	-16.44
		For >50, Deduct	-24.16
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0005	CY	Pine Bark Nugget Mulch	113.60
		For >5 To 20, Deduct	-8.91
		For >20 To 50, Deduct	-13.36
		For >50, Deduct	-19.04
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0006	CY	Hardwood Bark Nugget Mulch	111.64
		For >5 To 20, Deduct	-8.81
		For >20 To 50, Deduct	-13.22
		For >50, Deduct	-18.80
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0007	CY	Pine Wood Chip Mulch	107.71
		For >5 To 20, Deduct	-8.61
		For >20 To 50, Deduct	-12.92
		For >50, Deduct	-18.31
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0008	CY	Hardwood Chip Mulch	115.56
		For >5 To 20, Deduct	-9.01
		For >20 To 50, Deduct	-13.51
		For >50, Deduct	-19.29
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0009	CY	Shredded Hardwood Mulch	115.56
		For >5 To 20, Deduct	-9.01
		For >20 To 50, Deduct	-13.51
		For >50, Deduct	-19.29
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0010	CY	Shredded Pine Mulch	97.91
		For >5 To 20, Deduct	-8.12
		For >20 To 50, Deduct	-12.19
		For >50, Deduct	-17.08
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0011	CY	Shredded Cedar Mulch	136.15
		For >5 To 20, Deduct	-10.04
		For >20 To 50, Deduct	-15.05
		For >50, Deduct	-21.86
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0012	CY	Shredded Cypress Mulch	133.21
		For >5 To 20, Deduct	-9.89
		For >20 To 50, Deduct	-14.83
		For >50, Deduct	-21.49
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0013	CY	Shredded Redwood Mulch	141.06
		For >5 To 20, Deduct	-10.28
		For >20 To 50, Deduct	-15.42
		For >50, Deduct	-22.47
		For Work On Slopes >2.5:1, Add	12.91
32 91 13 16-0014	CY	Chunk Recycled Tire Mulch	219.47
		For >5 To 20, Deduct	-15.08
		For >20 To 50, Deduct	-22.62
		For >50, Deduct	-33.60
		For Work On Slopes >2.5:1, Add	16.43

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0015 CY Chunk Colored Recycled Tire Mulch.....	354.82	
For >5 To 20, Deduct	-21.85	
For >20 To 50, Deduct	-32.77	
For >50, Deduct	-50.52	
For Work On Slopes >2.5:1, Add	16.43	
32 91 13 16-0016 CY Shredded Recycled Tire Mulch.....	356.78	
For >5 To 20, Deduct	-21.95	
For >20 To 50, Deduct	-32.92	
For >50, Deduct	-50.76	
For Work On Slopes >2.5:1, Add	16.43	
32 91 13 16-0017 CY Shredded Colored Recycled Tire Mulch	627.47	
For >5 To 20, Deduct	-35.48	
For >20 To 50, Deduct	-53.22	
For >50, Deduct	-84.60	
For Work On Slopes >2.5:1, Add	16.43	
32 91 13 16-0018 EA Pine Straw Mulch Bale.....	10.44	
Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-0.88	
For >500, Deduct	-1.22	
For Work On Slopes >2.5:1, Add	0.72	
32 91 13 16-0019 EA Wheat Straw Mulch Bale.....	10.75	
Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.21	
For Work On Slopes >2.5:1, Add	0.54	
32 91 13 16-0020 Compost Soil Amendment (AgriService) (32 91 13 16)		
Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.		
32 91 13 16-0021 CY Humic Compost (OIM)	81.06	
Note: (Agri Service or Equal)		
For Work On Slopes >2.5:1, Add	12.91	
For >100 To 1,000, Deduct	-13.74	
For >1,000, Deduct	-21.02	
32 91 13 26 Planting Beds (32 91 13)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001 Plant Bed Preparation (32 91 13 26)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002 SF Prepare And Mix Plant Bed, Up To 8" Deep By Machine.....	1.01	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.20	
32 91 13 26-0003 SF Prepare And Mix Plant Bed, 9" To 13" Deep By Machine.....	1.16	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.23	
32 91 13 26-0004 SF Prepare And Mix Plant Bed, 14" To 18" Deep By Machine.....	1.36	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.27	
32 91 13 26-0005 SF Prepare And Mix Plant Bed By Hand, Up To 8" Deep.....	4.56	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.91	
32 91 13 26-0006 SF Prepare And Mix Plant Bed By Hand, 9" To 13" Deep.....	5.24	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	1.05	
32 91 13 26-0007 SF Prepare And Mix Plant Bed By Hand, 14" To 18" Deep.....	6.16	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	1.23	
32 91 13 26-0008 Plant Bed Preparation With Humic Compost (32 91 13 26)		
32 91 13 26-0009 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF).....	1.12	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
For Work On Slopes >2.5:1, Add	0.21	
For >1,000 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 20,000, Deduct	-0.54	
For >20,000, Deduct	-0.75	



Exterior Improvements			32
Planting			32 90
Planting Preparation			32 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0010	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF).....	1.39	
			Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
			For Work On Slopes >2.5:1, Add	0.26	
			For >1,000 To 5,000, Deduct	-0.19	
			For >5,000 To 10,000, Deduct	-0.32	
			For >10,000 To 20,000, Deduct	-0.65	
			For >20,000, Deduct	-0.91	
32 91 13 26-0011	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF).....	1.65	
			Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
			For Work On Slopes >2.5:1, Add	0.30	
			For >1,000 To 5,000, Deduct	-0.23	
			For >5,000 To 10,000, Deduct	-0.38	
			For >10,000 To 20,000, Deduct	-0.76	
			For >20,000, Deduct	-1.07	
32 91 13 26-0012			Planting Pit Preparation (32 91 13 26)		
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013	CY		Excavate Planting Pit By Hand, Sandy Soil	78.87	
			Note: For use with existing planting pits.		
			For Work On Slopes >2.5:1, Add	15.77	
32 91 13 26-0014	CY		Excavate Planting Pit By Hand, Heavy Soil	157.76	
			Note: For use with existing planting pits.		
			For Work On Slopes >2.5:1, Add	31.55	
32 91 13 26-0015	CY		Excavate Planting Pit By Machine, Sandy Soil	12.62	
			Note: For use with existing planting pits.		
			For Work On Slopes >2.5:1, Add	2.52	
32 91 13 26-0016	CY		Excavate Planting Pit By Machine, Heavy Soil	16.42	
			Note: For use with existing planting pits.		
			For Work On Slopes >2.5:1, Add	3.28	
32 91 13 26-0017	CY		Backfill Planting Pit By Hand With Topsoil From Stockpile	70.10	
			For Work On Slopes >2.5:1, Add	14.02	
32 91 13 26-0018	CY		Backfill Planting Pit By Hand With Contractor Furnished Planting Mix	137.25	
			For Work On Slopes >2.5:1, Add	12.86	
32 91 13 26-0019	CY		Backfill Planting Pit By Machine, With Topsoil From Stockpile	6.83	
			For Work On Slopes >2.5:1, Add	1.37	
32 91 13 26-0020	CY		Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix	90.32	
			For Work On Slopes >2.5:1, Add	3.48	
32 91 13 26-0021			Weed Barrier (32 91 13 26)		
32 91 13 26-0022	SY		Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier	1.97	
			For Work On Slopes >2.5:1, Add	0.13	
32 91 13 26-0023	SY		4 Oz/SY Woven, Polypropylene Weed Barrier.....	2.67	
			For Work On Slopes >2.5:1, Add	0.13	
32 91 13 26-0024	SY		5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier	2.97	
			For Work On Slopes >2.5:1, Add	0.13	
32 91 13 33			Soil Conditioners (32 91 13)		
32 91 13 33-0001			Spread Soil Conditioners (32 91 13 33)		
32 91 13 33-0002	SY		Aluminum Sulfate 1 LB/SY, Push Spreader.....	0.43	
32 91 13 33-0003	MSF		Aluminum Sulfate 110 LB/MSF Tractor Spreader	42.18	
32 91 13 33-0004	MSF		Fertilizer, 20 LB/MSF, Push Spreader	6.77	
32 91 13 33-0005	MSF		Fertilizer, 20 LB/MSF, Tractor Spread	2.95	
32 91 13 33-0006	MSF		Fertilizer, 20 LB/MSF, Truck Spread.....	5.14	
32 91 13 33-0007	SY		Pelletized Lime, 1 LB/SY, Push Spreader	0.10	
32 91 13 33-0008	MSF		Pelitized Lime, 110 LB/MSF, Tractor Spreader.....	7.84	
32 91 13 33-0009	SY		Perlite, 1" Deep, Push Spreader	3.85	
32 91 13 33-0010	MSF		Perlite, 1" Deep, Tractor Spreader.....	400.48	
32 91 13 33-0011	SY		Vermiculite, Push Spreader	3.57	
32 91 13 33-0012	MSF		Vermiculite, Tractor Spreader	391.19	
32 91 13 33-0013	SY		Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader	0.18	
32 91 13 33-0014	MSF		Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader	16.59	
32 91 13 36			Lawn Bed Preparation (32 91 13)		
32 91 13 36-0001			Lawn Bed Preparation (32 91 13 36)		
32 91 13 36-0002	MSF		Rake Topsoil With Machine	78.62	
32 91 13 36-0003	MSF		Rake Topsoil By Hand	63.09	
32 91 13 36-0004	MSF		Screen Loam By Hand.....	42.06	
32 91 13 36-0005	SY		Roll Topsoil With Machine	1.02	
32 91 13 36-0006	SY		Roll Topsoil By Hand	2.82	
32 91 13 36-0007	MSF		Removal Of Rocks And Debris With Machine.....	9.30	
32 91 13 36-0008	MSF		Removal Of Rocks And Debris By Hand	28.78	
32 91 13 36-0009	MSF		Root Raking And Loading, No Boulders	48.66	
			For >45 to 225, Deduct	-34.06	
			For >225, Deduct	-43.79	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders.....	81.09	
For >45 to 225, Deduct	-56.76	
For >225, Deduct	-72.98	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor.....	4.37	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor.....	8.86	
For Work On Slopes >2.5:1, Add	1.77	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller.....	0.67	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller.....	0.81	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller.....	1.01	
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds.....	1.12	
32 91 13 36-0017 Sod Removal (32 91 13 36)		
32 91 13 36-0018 SY Removal Of Sod By Hand.....	5.32	
For Work On Slopes >2.5:1, Add	1.06	
32 91 13 36-0019 SY Removal Of Sod With Machine.....	0.59	
For Work On Slopes >2.5:1, Add	0.12	
32 91 13 36-0020 SY Pile Sod By Hand.....	3.15	
For Work On Slopes >2.5:1, Add	0.63	
32 91 13 36-0021 SY Pile Sod With Machine.....	1.10	
For Work On Slopes >2.5:1, Add	0.22	
32 91 19 Landscape Grading (32 91)		
32 91 19 13 Topsoil Placement and Grading (32 91 19)		
32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)		
32 91 19 13-0002 CY Removal Of Topsoil, 4" Deep Stockpile On Site.....	4.69	
32 91 19 13-0003 CY Removal Of Topsoil, 6" Deep Stockpile On Site.....	4.65	
32 91 19 13-0004 Screening Topsoil (32 91 19 13)		
32 91 19 13-0005 CY Screen Topsoil With Vibrating Screen, Wet Material (Organic).....	10.33	
32 91 19 13-0006 CY Screen Topsoil With Vibrating Screen, Dry Material.....	6.89	
32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)		
32 91 19 13-0008 CY Spread Topsoil By Machine From Stockpile.....	7.54	
32 91 19 13-0009 CY Spread Topsoil By Hand From Stockpile.....	60.20	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)		
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.		
32 91 19 13-0011 SY Furnish And Place Imported Screened Topsoil, 2" Deep.....	4.80	
For Unscreened, Deduct	-0.77	
32 91 19 13-0012 SY Furnish And Place Imported Screened Topsoil, 4" Deep.....	9.31	
For Unscreened, Deduct	-1.53	
32 91 19 13-0013 SY Furnish And Place Imported Screened Topsoil, 6" Deep.....	13.60	
For Unscreened, Deduct	-2.29	
32 91 19 13-0014 SY Furnish And Place Imported Screened Topsoil, 9" Deep.....	19.85	
For Unscreened, Deduct	-3.44	
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep.....	26.09	
For Unscreened, Deduct	-4.58	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep.....	73.54	
For Unscreened, Deduct	-13.75	
32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13)		
Note: Ripped in multiple directions with 3" maximum clods.		
32 91 19 13-0018 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine.....	59.03	
32 91 19 13-0019 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine.....	41.32	
32 91 19 13-0020 MSF >20,000 SF Scarify Up To 8" Soil With Machine.....	24.31	
32 92 Turf and Grasses (32 90)		
32 92 16 Plugging (32 92)		
32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)		
Note: Includes fine grade and soil preparation.		
32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0003 MSF Plugging By Hand, 6" On Center.....	206.55	
32 92 16 00-0004 MSF Plugging By Walk Behind Planter, 6" On Center.....	30.75	
32 92 16 00-0005 MSF Plugging By Towed Planter, 6" On Center.....	23.59	
32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0007 MSF Plugging By Hand, 9" On Center.....	158.37	



Exterior Improvements		32
Planting		32 90
Turf and Grasses		32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 16 00-0008	MSF		Plugging By Walk Behind Planter, 9" On Center.....	23.95	
32 92 16 00-0009	MSF		Plugging By Towed Planter, 9" On Center.....	17.65	
32 92 16 00-0010			12" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0011	MSF		Plugging By Hand, 12" On Center.....	132.87	
32 92 16 00-0012	MSF		Plugging By Walk Behind Planter, 12" On Center.....	16.09	
32 92 16 00-0013	MSF		Plugging By Towed Planter, 12" On Center.....	11.25	
32 92 19			Seeding (32 92)		
32 92 19 13			Mechanical Seeding (32 92 19)		
Note: Includes fertilizing, liming, mixing, seeding and initial watering.					
32 92 19 13-0001			Tractor Spreader Mechanical Seeding (32 92 19 13)		
Note: Excludes straw.					
32 92 19 13-0002	MSF		Common Bluegrass, Tractor Spreader.....	44.36	
Note: 4 LB/MSF spread rate.					
32 92 19 13-0003	MSF		Tall Fescue, Tractor Spreader.....	34.44	
Note: 5.5 LB/MSF spread rate.					
32 92 19 13-0004	MSF		Rye, Tractor Spreader.....	35.15	
Note: 10 LB/MSF spread rate.					
32 92 19 13-0005	MSF		Shade Mix, Tractor Spreader.....	38.72	
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.					
32 92 19 13-0006	MSF		Turf Mix, Tractor Spreader.....	41.28	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.					
32 92 19 13-0007	MSF		Slope Mix, Tractor Spreader.....	37.86	
Note: 6 LB/MSF spread rate.					
32 92 19 13-0008	MSF		Utility Mix, Tractor Spreader.....	33.60	
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.					
32 92 19 13-0009	MSF		Wild Flower Mix, Tractor Spreader.....	25.55	
Note: 0.10 LB/MSF spread rate.					
32 92 19 13-0010	MSF		Crown Vetch Mix, Tractor Spreader.....	89.18	
Note: 4 LB/MSF spread rate.					
32 92 19 13-0011	MSF		Athletic Mix, Tractor Spreader.....	51.55	
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.					
32 92 19 13-0012	MSF		White Clover Mix, Tractor Spreader.....	25.46	
Note: 7 LB/MSF spread rate.					
32 92 19 13-0013	MSF		Ladino Clover Mix, Tractor Spreader.....	28.88	
Note: 7 LB/MSF spread rate.					
32 92 19 13-0014			Hydro Or Air Mechanical Seeding (32 92 19 13)		
32 92 19 13-0015	MSF		Common Bluegrass, Hydro Or Air Seeding.....	89.33	
Note: 4 LB/MSF spread rate.					
For Spot Areas Up To 1, Add				90.72	
For >1 To 4, Add				57.86	
For >4 To 7.5, Add				38.93	
For >7.5 To 10, Add				19.46	
For >45, Deduct				-6.97	
For Tackifier, Add				1.16	
32 92 19 13-0016	MSF		Tall Fescue, Hydro Or Air Seeding.....	95.32	
Note: 5.5 LB/MSF spread rate.					
For Spot Areas Up To 1, Add				93.12	
For >1 To 4, Add				59.06	
For >4 To 7.5, Add				39.53	
For >7.5 To 10, Add				19.76	
For >45, Deduct				-7.27	
For Tackifier, Add				1.16	
32 92 19 13-0017	MSF		Rye, Hydro Or Air Spread.....	89.58	
Note: 10 LB/MSF spread rate.					
For Spot Areas Up To 1, Add				90.82	
For >1 To 4, Add				57.91	
For >4 To 7.5, Add				38.95	
For >7.5 To 10, Add				19.48	
For >45, Deduct				-6.98	
For Tackifier, Add				1.16	
32 92 19 13-0018	MSF		Shade Mix, Hydro Or Air Seeding.....	89.33	
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.					
For Spot Areas Up To 1, Add				90.72	
For >1 To 4, Add				57.86	
For >4 To 7.5, Add				38.93	
For >7.5 To 10, Add				19.46	
For >45, Deduct				-6.97	
For Tackifier, Add				1.16	
32 92 19 13-0019	MSF		Turf Mix, Hydro Or Air Seeding.....	95.32	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.					
For Spot Areas Up To 1, Add				93.12	
For >1 To 4, Add				59.06	
For >4 To 7.5, Add				39.53	
For >7.5 To 10, Add				19.76	
For >45, Deduct				-7.27	
For Tackifier, Add				1.16	

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0020	MSF		Slope Mix, Hydro Or Air Seeding 92.75 Note: 6 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	92.09	
			For >1 To 4, Add	58.54	
			For >4 To 7.5, Add	39.27	
			For >7.5 To 10, Add	19.63	
			For >45, Deduct	-7.14	
			For Tackifier, Add	1.16	
32 92 19 13-0021	MSF		Utility Mix, Hydro Or Air Seeding.....90.68 Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
			For Spot Areas Up To 1, Add	91.26	
			For >1 To 4, Add	58.13	
			For >4 To 7.5, Add	39.06	
			For >7.5 To 10, Add	19.53	
			For >45, Deduct	-7.03	
			For Tackifier, Add	1.16	
32 92 19 13-0022	MSF		Wild Flower Mix, Hydro Or Air Seeding.....84.02 Note: 0.10 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	88.60	
			For >1 To 4, Add	56.80	
			For >4 To 7.5, Add	38.40	
			For >7.5 To 10, Add	19.20	
			For >45, Deduct	-6.70	
			For Tackifier, Add	1.16	
32 92 19 13-0023	MSF		Crown Vetch Mix, Hydro Or Air Seeding.....144.06 Note: 4 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	112.61	
			For >1 To 4, Add	68.80	
			For >4 To 7.5, Add	44.40	
			For >7.5 To 10, Add	22.20	
			For >45, Deduct	-9.70	
			For Tackifier, Add	1.16	
32 92 19 13-0024	MSF		Athletic Mix, Hydro Or Air Seeding.....125.26 Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
			For Spot Areas Up To 1, Add	105.09	
			For >1 To 4, Add	65.04	
			For >4 To 7.5, Add	42.52	
			For >7.5 To 10, Add	21.26	
			For >45, Deduct	-8.76	
			For Tackifier, Add	1.16	
32 92 19 13-0025	MSF		White Clover Mix, Hydro Or Air Seeding.....75.90 Note: 7 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	85.35	
			For >1 To 4, Add	55.17	
			For >4 To 7.5, Add	37.58	
			For >7.5 To 10, Add	18.79	
			For >45, Deduct	-6.29	
			For Tackifier, Add	1.16	
32 92 19 13-0026	MSF		Ladino Clover Mix, Hydro Or Air Seeding 85.91 Note: 7 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	89.35	
			For >1 To 4, Add	57.17	
			For >4 To 7.5, Add	38.59	
			For >7.5 To 10, Add	19.29	
			For >45, Deduct	-6.80	
			For Tackifier, Add	1.16	
32 92 19 13-0027	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread.....91.04 Note: 4 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	91.41	
			For >1 To 4, Add	58.20	
			For >4 To 7.5, Add	39.10	
			For >7.5 To 10, Add	19.55	
			For >45, Deduct	-7.05	
			For Tackifier, Add	1.16	
32 92 19 13-0028	MSF		2,500 LB/Acre, High Performance - Flexible Growth Medium.....105.67 Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-6.53	
32 92 19 13-0029	MSF		3,000 LB/Acre, High Performance - Flexible Growth Medium.....123.06 Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-7.47	
32 92 19 13-0030	MSF		3,500 LB/Acre, High Performance - Flexible Growth Medium.....140.53 Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-8.41	
32 92 19 13-0031	MSF		4,000 LB/Acre, High Performance - Flexible Growth Medium.....158.03 Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-9.35	
32 92 19 13-0032	MSF		4,500 LB/Acre, High Performance - Flexible Growth Medium.....175.61 Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-10.30	

32 92 19 19 Seeding by Hand (32 92 19)

Note: Includes fertilizing, liming, mixing, seeding and initial watering.



Exterior Improvements		32
Planting		32 90
Turf and Grasses		32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0001			Push Spreader Or Hand Seeding (32 92 19 19) Note: Excludes straw.		
32 92 19 19-0002	MSF		Common Bluegrass, Push Spreader Or Hand..... Note: 4 LB/MSF spread rate.	102.46	
			For >5 To 20, Deduct	-7.09	
			For >20 To 45, Deduct	-13.60	
			For >45, Deduct	-22.08	
32 92 19 19-0003	MSF		Tall Fescue, Push Spreader Or Hand..... Note: 5.5 LB/MSF spread rate.	92.54	
			For >5 To 20, Deduct	-6.60	
			For >20 To 45, Deduct	-12.86	
			For >45, Deduct	-21.08	
32 92 19 19-0004	MSF		Rye, Push Spreader Or Hand..... Note: 10 LB/MSF spread rate.	93.25	
			For >5 To 20, Deduct	-6.63	
			For >20 To 45, Deduct	-12.91	
			For >45, Deduct	-21.15	
32 92 19 19-0005	MSF		Shade Mix, Push Spreader Or Hand..... Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	96.82	
			For >5 To 20, Deduct	-6.81	
			For >20 To 45, Deduct	-13.18	
			For >45, Deduct	-21.51	
32 92 19 19-0006	MSF		Turf Mix, Push Spreader Or Hand..... Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	99.38	
			For >5 To 20, Deduct	-6.94	
			For >20 To 45, Deduct	-13.37	
			For >45, Deduct	-21.77	
32 92 19 19-0007	MSF		Slope Mix, Push Spreader Or Hand..... Note: 6 LB/MSF spread rate.	95.96	
			For >5 To 20, Deduct	-6.77	
			For >20 To 45, Deduct	-13.11	
			For >45, Deduct	-21.43	
32 92 19 19-0008	MSF		Utility Mix, Push Spreader Or Hand..... Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	91.70	
			For >5 To 20, Deduct	-6.56	
			For >20 To 45, Deduct	-12.79	
			For >45, Deduct	-21.00	
32 92 19 19-0009	MSF		Wild Flower Mix, Push Spreader Or Hand..... Note: 0.10 LB/MSF spread rate.	83.65	
			For >5 To 20, Deduct	-6.15	
			For >20 To 45, Deduct	-12.19	
			For >45, Deduct	-20.19	
32 92 19 19-0010	MSF		Crown Vetch Mix, Push Spreader Or Hand..... Note: 4 LB/MSF spread rate.	147.28	
			For >5 To 20, Deduct	-9.34	
			For >20 To 45, Deduct	-16.96	
			For >45, Deduct	-26.56	
32 92 19 19-0011	MSF		Athletic Mix, Push Spreader Or Hand..... Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	109.65	
			For >5 To 20, Deduct	-7.45	
			For >20 To 45, Deduct	-14.14	
			For >45, Deduct	-22.79	
32 92 19 19-0012	MSF		White Clover Mix, Push Spreader Or Hand..... Note: 7 LB/MSF spread rate.	83.56	
			For >5 To 20, Deduct	-6.15	
			For >20 To 45, Deduct	-12.18	
			For >45, Deduct	-20.19	
32 92 19 19-0013	MSF		Ladino Clover Mix, Push Spreader Or Hand..... Note: 7 LB/MSF spread rate.	86.98	
			For >5 To 20, Deduct	-6.32	
			For >20 To 45, Deduct	-12.44	
			For >45, Deduct	-20.53	
32 92 19 19-0014	MSF		100% Kentucky Bluegrass, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate.	104.09	
			For >5 To 20, Deduct	-7.18	
			For >20 To 45, Deduct	-13.72	
			For >45, Deduct	-22.24	
32 92 19 19-0015	MSF		70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate.	99.38	
			For >5 To 20, Deduct	-6.94	
			For >20 To 45, Deduct	-13.37	
			For >45, Deduct	-21.77	
32 92 19 19-0016	MSF		50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate.	95.96	
			For >5 To 20, Deduct	-6.77	
			For >20 To 45, Deduct	-13.11	
			For >45, Deduct	-21.43	
32 92 19 19-0017	MSF		50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand..... Note: 4.4 LB/MSF spread rate.	102.81	
			For >5 To 20, Deduct	-7.11	
			For >20 To 45, Deduct	-13.63	
			For >45, Deduct	-22.11	

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0018 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand.....	97.67	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.86	
For >20 To 45, Deduct	-13.24	
For >45, Deduct	-21.60	
32 92 19 19-0019 MSF 40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand	99.38	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.94	
For >20 To 45, Deduct	-13.37	
For >45, Deduct	-21.77	
32 92 23 Sodding (32 92)		
Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.		
32 92 23 00-0001 Tall Fescue Sod (32 92 23)		
32 92 23 00-0002 MSF Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground	2,180.67	
For Hybrid Fescue "Marathon", Add	152.93	
32 92 23 00-0003 MSF >1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,762.05	
For Hybrid Fescue "Marathon", Add	115.13	
32 92 23 00-0004 MSF >4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,489.07	
For Hybrid Fescue "Marathon", Add	96.23	
32 92 23 00-0005 MSF >8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,265.64	
For Hybrid Fescue "Marathon", Add	77.33	
32 92 23 00-0006 MSF Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,489.11	
For Hybrid Fescue "Marathon", Add	152.93	
32 92 23 00-0007 MSF >1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,024.92	
For Hybrid Fescue "Marathon", Add	115.13	
32 92 23 00-0008 MSF >4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	1,670.42	
For Hybrid Fescue "Marathon", Add	96.23	
32 92 23 00-0009 MSF >8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,419.86	
For Hybrid Fescue "Marathon", Add	77.33	
32 92 23 00-0010 Kentucky Blue Grass Sod (32 92 23)		
32 92 23 00-0011 MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,836.99	
32 92 23 00-0012 MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,504.29	
32 92 23 00-0013 MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,274.27	
32 92 23 00-0014 MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,093.80	
32 92 23 00-0015 MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	2,145.43	
32 92 23 00-0016 MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,767.16	
32 92 23 00-0017 MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,455.62	
32 92 23 00-0018 MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,248.02	
32 93 Plants (32 90)		
32 93 13 Ground Covers (32 93)		
Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.		
32 93 13 00-0001 Ornamental Grasses (32 93 13)		
32 93 13 00-0002 EA 1 Gallon, Cortaderia selloana - Pampas Grass.....	29.65	
32 93 13 00-0003 EA 2 Gallon, Cortaderia selloana - Pampas Grass.....	54.80	
32 93 13 00-0004 EA 3 Gallon, Cortaderia selloana - Pampas Grass.....	99.60	
32 93 13 00-0005 EA 5 Gallon, Cortaderia selloana - Pampas Grass.....	181.27	
32 93 13 00-0006 EA 1 Quart, Imperata cylindrica - Japanese Blood Grass.....	22.69	
32 93 13 00-0007 EA 1 Gallon, Imperata cylindrica - Japanese Blood Grass	30.18	
32 93 13 00-0008 EA 2 Gallon, Imperata cylindrica - Japanese Blood Grass	32.30	
32 93 13 00-0009 EA 1 Quart, Koeleria glauca - Blue Hair Grass.....	22.63	
32 93 13 00-0010 EA 1 Gallon, Koeleria glauca - Blue Hair Grass	30.18	
32 93 13 00-0011 EA 3 Gallon, Koeleria glauca - Blue Hair Grass	73.01	
32 93 13 00-0012 EA 1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	28.65	
32 93 13 00-0013 EA 3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	37.13	
32 93 13 00-0014 EA 5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	70.98	
32 93 13 00-0015 EA 1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	26.59	
32 93 13 00-0016 EA 3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	41.80	
32 93 13 00-0017 EA 5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	71.54	
32 93 13 00-0018 EA 1 Quart, Pennisetum setaceum - Fountain Grass.....	24.75	
32 93 13 00-0019 EA 1 Gallon, Pennisetum setaceum - Fountain Grass.....	62.97	
32 93 13 00-0020 EA 3 Gallon, Pennisetum setaceum - Fountain Grass.....	83.01	
32 93 13 00-0021 EA 1 Gallon, Saccharum ravennae - Ravenna Grass.....	78.37	
32 93 13 00-0022 EA 3 Gallon, Saccharum ravennae - Ravenna Grass.....	88.03	
32 93 13 00-0023 EA 7 Gallon, Saccharum ravennae - Ravenna Grass.....	145.23	
32 93 13 00-0024 EA 1 Gallon, Spartina pectinata - Variegated Cord Grass.....	42.55	
32 93 13 00-0025 EA 2 Gallon, Spartina pectinata - Variegated Cord Grass.....	63.69	
32 93 13 00-0026 EA 1 Quart, Stipa gigantea - Giant Feather Grass	32.48	
32 93 13 00-0027 EA 1 Gallon, Stipa gigantea - Giant Feather Grass	45.26	
32 93 13 00-0028 Ground Covers (32 93 13)		



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 93 13 00-0029	EA	1 Gallon Acorus gramineus - Japanese Sweet Flag	22.03	
32 93 13 00-0030	EA	3" Pot Ajuga reptans - Carpet Bugle	5.29	
32 93 13 00-0031	EA	1 Quart Ajuga reptans - Carpet Bugle	8.81	
32 93 13 00-0032	EA	1 Gallon Ajuga reptans - Carpet Bugle	21.15	
32 93 13 00-0033	EA	24 Plant Flat Ajuga reptans - Carpet Bugle	91.05	
32 93 13 00-0034	EA	2 Gallon Aristolochia macrophylla - Dutchman's Pipe	73.43	
32 93 13 00-0035	EA	5 Gallon Aristolochia macrophylla - Dutchman's Pipe	134.52	
32 93 13 00-0036	EA	1 Quart Arundo donax - Giant Reed	28.20	
32 93 13 00-0037	EA	1 Gallon Arundo donax - Giant Reed	40.53	
32 93 13 00-0038	EA	1 Quart Baccharis Pilularis - Dwarf Coyote Bush	8.81	
32 93 13 00-0039	EA	1 Gallon Baccharis Pilularis - Dwarf Coyote Bush	15.27	
32 93 13 00-0040	EA	3 Gallon Bougainvillea spectabilis - Bougainvillea	30.81	
32 93 13 00-0041	EA	1 Gallon Campsis radicans - Trumpet Creeper	32.31	
32 93 13 00-0042	EA	2 Gallon Campsis radicans - Trumpet Creeper	48.75	
32 93 13 00-0043	EA	5 Gallon Campsis radicans - Trumpet Creeper	117.48	
32 93 13 00-0044	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge	31.13	
32 93 13 00-0045	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge	40.53	
32 93 13 00-0046	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge	15.86	
32 93 13 00-0047	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge	22.03	
32 93 13 00-0048	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge	34.37	
32 93 13 00-0049	EA	1 Gallon Cissus antarctica - Kangaroo Vine	17.04	
32 93 13 00-0050	EA	5 Gallon Cissus antarctica - Kangaroo Vine	53.45	
32 93 13 00-0051	EA	1 Gallon Cistaceae - Wrinkleleaf Rock Rose	17.04	
32 93 13 00-0052	EA	5 Gallon Cistaceae - Wrinkleleaf Rock Rose	58.15	
32 93 13 00-0053	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	17.04	
32 93 13 00-0054	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	61.09	
32 93 13 00-0055	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma	14.69	
32 93 13 00-0056	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma	53.45	
32 93 13 00-0057	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	28.78	
32 93 13 00-0058	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	54.63	
32 93 13 00-0059	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	96.33	
32 93 13 00-0060	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	18.21	
32 93 13 00-0061	EA	5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	64.03	
32 93 13 00-0062	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	20.97	
32 93 13 00-0063	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	54.35	
32 93 13 00-0064	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	91.05	
32 93 13 00-0065	EA	1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	22.91	
32 93 13 00-0066	EA	2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	45.82	
32 93 13 00-0067	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	12.34	
32 93 13 00-0068	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	22.03	
32 93 13 00-0069	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	34.37	
32 93 13 00-0070	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	18.21	
32 93 13 00-0071	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	59.91	
32 93 13 00-0072	EA	1 Gallon Gelsemium sempervirens - Carolina Jessamine	25.38	
32 93 13 00-0073	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine	91.64	
32 93 13 00-0074	EA	1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	31.13	
32 93 13 00-0075	EA	1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	46.99	
32 93 13 00-0076	EA	1 Gallon Hardenbergia violacea - Happy Wanderer	21.15	
32 93 13 00-0077	EA	5 Gallon Hardenbergia violacea - Happy Wanderer	70.49	
32 93 13 00-0078	EA	2" To 3" Pot Hedera helix - English Ivy	5.29	
32 93 13 00-0079	EA	12" To 15" Runners Hedera helix - English Ivy	8.81	
32 93 13 00-0080	EA	1 Gallon Hedera helix - English Ivy	21.15	
32 93 13 00-0081	EA	50 Plant Flat Hedera helix - English Ivy	122.18	
32 93 13 00-0082	EA	3 Gallon Hibiscus, Assorted Colors	27.54	
32 93 13 00-0083	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea	38.18	
32 93 13 00-0084	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea	71.66	
32 93 13 00-0085	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea	117.48	
32 93 13 00-0086	EA	1 Gallon Hymenocallis latifolia - Spider Lily	13.67	
32 93 13 00-0087	EA	3 Gallon Hymenocallis latifolia - Spider Lily	36.47	
32 93 13 00-0088	EA	1 Quart Hypericum perforatum - St. John's Wort	8.81	
32 93 13 00-0089	EA	1 Gallon Hypericum perforatum - St. John's Wort	21.15	
32 93 13 00-0090	EA	5 Gallon Hypericum perforatum - St. John's Wort	54.63	
32 93 13 00-0091	EA	1 Quart Iberis sempervirens - Candytuft	8.81	
32 93 13 00-0092	EA	1 Gallon Iberis sempervirens - Candytuft	21.15	
32 93 13 00-0093	EA	1 Gallon Ilex cornuta - Dwarf Holly	15.95	
32 93 13 00-0094	EA	3 Gallon Ilex cornuta - Dwarf Holly	34.19	
32 93 13 00-0095	EA	1 Gallon Jasminum polyanthum - Winter Jasmine	21.15	
32 93 13 00-0096	EA	2 Gallon Jasminum polyanthum - Winter Jasmine	42.29	
32 93 13 00-0097	EA	5 Gallon Jasminum polyanthum - Winter Jasmine	73.43	
32 93 13 00-0098	EA	1 Gallon Jasminum volubile - Wax Jasmine	11.10	
32 93 13 00-0099	EA	1 Gallon Jasminum volubile - Wax Jasmine	27.54	
32 93 13 00-0100	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	13.84	
32 93 13 00-0101	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	30.81	
32 93 13 00-0102	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper	51.30	
32 93 13 00-0103	EA	1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper	23.90	
32 93 13 00-0104	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper	24.08	
32 93 13 00-0105	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper	51.69	
32 93 13 00-0106	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper	76.36	
32 93 13 00-0107	EA	1 Gallon Lantana spp. Various Colors	12.47	
32 93 13 00-0108	EA	4" Pot Lantana camera - Common Lantana	5.29	
32 93 13 00-0109	EA	1 Gallon Lantana camera - Common Lantana	15.27	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0110 EA 1 Gallon Lantana sellowiana - Trailing Lantana	8.20	
32 93 13 00-0111 EA 4" Pot Lavandula angustifolia - English Lavender	7.64	
32 93 13 00-0112 EA 1 Quart Lavandula angustifolia - English Lavender	14.69	
32 93 13 00-0113 EA 1 Gallon Lavandula angustifolia - English Lavender	24.08	
32 93 13 00-0114 EA 1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	12.47	
32 93 13 00-0115 EA 1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	15.73	
32 93 13 00-0116 EA 3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	25.15	
32 93 13 00-0117 EA 1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope	9.86	
32 93 13 00-0118 EA 1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf	24.08	
32 93 13 00-0119 EA 2 Quart Liriope spicata - Creeping Lilytuft	15.27	
32 93 13 00-0120 EA 1 Gallon Liriope spicata - Creeping Lilytuft	27.61	
32 93 13 00-0121 EA 5 Gallon Liriope spicata - Creeping Lilytuft	58.15	
32 93 13 00-0122 EA Bare Root Liriope spicata - Creeping Liriope	3.85	
32 93 13 00-0123 EA 1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	24.08	
32 93 13 00-0124 EA 2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	45.82	
32 93 13 00-0125 EA 3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	5.29	
32 93 13 00-0126 EA 1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	24.08	
32 93 13 00-0127 EA 2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	45.82	
32 93 13 00-0128 EA 2 Quart Lysimachia nummularia - Creeping Jenny	8.81	
32 93 13 00-0129 EA 1 Gallon Lysimachia nummularia - Creeping Jenny	17.04	
32 93 13 00-0130 EA 1 Gallon Macfadyena unguis-cati - Cat Claw Vine	21.15	
32 93 13 00-0131 EA 5 Gallon Macfadyena unguis-cati - Cat Claw Vine	91.64	
32 93 13 00-0132 EA 1 Quart Moss Phlox, Creeping Phlox	8.81	
32 93 13 00-0133 EA 1 Gallon Moss Phlox, Creeping Phlox	21.15	
32 93 13 00-0134 EA 1 Gallon Nephrolepis exaltata - Common Boston Fern	11.10	
32 93 13 00-0135 EA 1 Quart Nepeta mussinii - Persian Catmint	8.81	
32 93 13 00-0136 EA 1 Gallon Nepeta mussinii - Persian Catmint	18.21	
32 93 13 00-0137 EA 4" Pot Ophiopogon Japonicus - Mondo grass	5.29	
32 93 13 00-0138 EA 1 Gallon Ophiopogon Japonicus - Mondo grass	21.15	
32 93 13 00-0139 EA 5 Gallon Ophiopogon Japonicus - Mondo grass	48.75	
32 93 13 00-0140 EA 2' To 3' High Oregon Holly-Grape	24.41	
32 93 13 00-0141 EA 1 Gallon Pachysandra terminalis - Pachysandra	31.80	
32 93 13 00-0142 EA 4" Pot Parthenocissus tricuspidata - Boston Ivy	11.75	
32 93 13 00-0143 EA 1 Gallon Parthenocissus tricuspidata - Boston Ivy	26.79	
32 93 13 00-0144 EA 5 Gallon Parthenocissus tricuspidata - Boston Ivy	73.31	
32 93 13 00-0145 EA 3" Pot Parthenocissus quinquefolia - Virginia Creeper	5.29	
32 93 13 00-0146 EA 1 Gallon Parthenocissus quinquefolia - Virginia Creeper	27.61	
32 93 13 00-0147 EA 1 Gallon Ranunculaceae - Clematis Varieties	30.35	
32 93 13 00-0148 EA 2 Gallon Ranunculaceae - Clematis Varieties	56.13	
32 93 13 00-0149 EA 3 Gallon Rhamnus umbellata 'Minor' - Dwarf Indian Hawthorn	34.19	
32 93 13 00-0150 EA 3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	5.29	
32 93 13 00-0151 EA 1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	21.15	
32 93 13 00-0152 EA 2-1/4" Pot Securigera varia - Crown Vetch	3.52	
32 93 13 00-0153 EA 50 Plant Flat Securigera varia - Crown Vetch	119.24	
32 93 13 00-0154 EA 1 Quart Senecio cineraria - Dusty Miller	8.81	
32 93 13 00-0155 EA 1 Gallon Senecio cineraria - Dusty Miller	21.15	
32 93 13 00-0156 EA 1 Quart Stachys byzantina - Lamb's Ear	8.81	
32 93 13 00-0157 EA 1 Quart Stachys byzantina - Lamb's Ear	21.15	
32 93 13 00-0158 EA 1 Gallon Tradescantia spathacea - Dwarf Oyster Plant	11.40	
32 93 13 00-0159 EA 1 Gallon Tradescantia spathacea - Rhoeco Discolor "Dwarf"	11.10	
32 93 13 00-0160 EA 24" To 30" High Viburnum awabuki - Sweet Viburnum	74.34	
32 93 13 00-0161 EA 2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena	11.16	
32 93 13 00-0162 EA 1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena	17.04	
32 93 13 00-0163 EA 2-1/4" Pot Vinca minor - Periwinkle	2.94	
32 93 13 00-0164 EA 4" Pot Vinca minor - Periwinkle	8.81	
32 93 13 00-0165 EA Bare Root Vinca minor - Periwinkle	2.94	
32 93 13 00-0166 EA 48 Plant Flat Vinca minor - Lesser Periwinkle	104.70	
32 93 13 00-0167 EA 2-1/4" Pot Vinca major - Variegated Greater Periwinkle	2.94	
32 93 13 00-0168 EA 4" Pot Vinca major - Variegated Greater Periwinkle	8.81	
32 93 13 00-0169 EA Bare Root Vinca major - Variegated Greater Periwinkle	2.94	
32 93 13 00-0170 EA 1 Quart Waldsteinia ternata - Barren Strawberry	8.81	
32 93 13 00-0171 EA 1 Gallon Waldsteinia ternata - Barren Strawberry	21.15	
32 93 13 00-0172 EA 1 Gallon Wisteria sinensis - Chinese Wisteria Vine	27.61	
32 93 13 00-0173 EA 3 Gallon Wisteria sinensis - Chinese Wisteria Vine	61.09	
32 93 13 00-0174 EA 5 Gallon Wisteria sinensis - Chinese Wisteria Vine	91.63	
32 93 13 00-0175 EA Flat Hedera canariensis - Algerian Ivy	20.25	
32 93 13 00-0176 EA 2-1/2" Pot Hedera canariensis - Algerian Ivy	5.35	
32 93 13 00-0177 EA Flat Gazania 'Copper King'	16.61	
32 93 13 00-0178 EA 1 Gallon Gazania 'Copper King'	5.67	
32 93 13 00-0179 EA Flat Myoporum parvifolium - Myoporum	20.25	
32 93 13 00-0180 EA 1 Gallon Myoporum parvifolium - Myoporum	5.67	
32 93 13 00-0181 EA 5 Gallon Myoporum parvifolium - Myoporum	16.20	
32 93 13 00-0182 EA 1 Gallon Lantana montevidensis - Purple Lantana	5.67	
32 93 13 00-0183 EA 5 Gallon Lantana montevidensis - Purple Lantana	16.20	
32 93 13 00-0184 EA Flat Carpobrotus - Ice Plant	15.39	
32 93 13 00-0185 EA 1 Gallon Carpobrotus - Ice Plant	6.48	

32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)



Exterior Improvements		32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0002	EA		2 Quart Assorted Daylilies	17.03	
32 93 23 00-0003	EA		1 Gallon Assorted Daylilies	24.08	
32 93 23 00-0004	EA		2 Gallon Assorted Daylilies	39.94	
32 93 23 00-0005	EA		1 Quart Azure Penstemon	8.81	
32 93 23 00-0006	EA		1 Gallon Azure Penstemon	22.03	
32 93 23 00-0007	EA		1 Quart Balloon Flower	8.81	
32 93 23 00-0008	EA		1 Gallon Balloon Flower	22.03	
32 93 23 00-0009	EA		1 Quart Black-eyed Susan	8.81	
32 93 23 00-0010	EA		1 Gallon Black-eyed Susan	22.03	
32 93 23 00-0011	EA		2 Gallon Black-eyed Susan	28.49	
32 93 23 00-0012	EA		1 Quart Blackberry Lily	8.81	
32 93 23 00-0013	EA		1 Gallon Blackberry Lily	22.03	
32 93 23 00-0014	EA		1 Quart Blank Flower	8.81	
32 93 23 00-0015	EA		1 Gallon Blank Flower	20.27	
32 93 23 00-0016	EA		2 Gallon Blank Flower	28.49	
32 93 23 00-0017	EA		1 Quart Blazing Star, Gayfeather	8.81	
32 93 23 00-0018	EA		1 Gallon Blazing Star, Gayfeather	22.03	
32 93 23 00-0019	EA		1 Quart Bloodred Geranium	14.98	
32 93 23 00-0020	EA		1 Gallon Bloodred Geranium	25.26	
32 93 23 00-0021	EA		1 Quart Blue Plumbago	8.81	
32 93 23 00-0022	EA		1 Gallon Blue Plumbago	22.03	
32 93 23 00-0023	EA		1 Quart Blue Star	15.86	
32 93 23 00-0024	EA		1 Gallon Blue Star	25.26	
32 93 23 00-0025	EA		1 Quart Cardinal Flower	8.81	
32 93 23 00-0026	EA		1 Gallon Cardinal Flower	22.03	
32 93 23 00-0027	EA		4" Pot Columbine	5.29	
32 93 23 00-0028	EA		1 Quart Columbine	8.81	
32 93 23 00-0029	EA		1 Gallon Columbine	22.03	
32 93 23 00-0030	EA		1 Quart Common Globeflower	8.81	
32 93 23 00-0031	EA		1 Gallon Common Globeflower	22.03	
32 93 23 00-0032	EA		1 Quart Cottage Pink, Scotch Pink	8.81	
32 93 23 00-0033	EA		1 Quart Cottage Pink, Scotch Pink	22.03	
32 93 23 00-0034	EA		1 Gallon Astilbe 'Deutschland'	31.72	
32 93 23 00-0035	EA		1 Quart Diploid	11.16	
32 93 23 00-0036	EA		1 Gallon Diploid	25.26	
32 93 23 00-0037	EA		3 Gallon Diploid	43.47	
32 93 23 00-0038	EA		4" Pot Dune Sunflower	12.58	
32 93 23 00-0039	EA		1 Quart Evans Begonia	15.86	
32 93 23 00-0040	EA		1 Gallon Evans Begonia	28.49	
32 93 23 00-0041	EA		1 Quart False Dragonhead	8.81	
32 93 23 00-0042	EA		1 Gallon False Dragonhead	22.03	
32 93 23 00-0043	EA		1 Quart False Spirea	8.81	
32 93 23 00-0044	EA		1 Gallon False Spirea	28.49	
32 93 23 00-0045	EA		3 Gallon False Spirea	39.36	
32 93 23 00-0046	EA		2 Quart False Sunflower	14.10	
32 93 23 00-0047	EA		1 Gallon False Sunflower	22.03	
32 93 23 00-0048	EA		2 Gallon False Sunflower	28.49	
32 93 23 00-0049	EA		1 Gallon Foxglove	20.27	
32 93 23 00-0050	EA		2 Gallon Foxglove	28.49	
32 93 23 00-0051	EA		3 Gallon Foxglove	41.12	
32 93 23 00-0052	EA		1 Gallon Francee Hostas	35.67	
32 93 23 00-0053	EA		1 Quart Garden Phlox	8.81	
32 93 23 00-0054	EA		1 Gallon Garden Phlox	22.03	
32 93 23 00-0055	EA		2 Quart Golden Groundsel	18.80	
32 93 23 00-0056	EA		2 Gallon Golden Groundsel	37.89	
32 93 23 00-0057	EA		1 Quart Golden Star	8.81	
32 93 23 00-0058	EA		1 Gallon Golden Star	22.03	
32 93 23 00-0059	EA		1 Quart Goldenrod	8.81	
32 93 23 00-0060	EA		1 Gallon Goldenrod	22.03	
32 93 23 00-0061	EA		1 Gallon Happy Returns Daylilies	41.02	
32 93 23 00-0062	EA		4" Pot Hardy Aster, Michaelmas Daisy	5.29	
32 93 23 00-0063	EA		1 Quart Hardy Aster, Michaelmas Daisy	8.81	
32 93 23 00-0064	EA		1 Gallon Hardy Aster, Michaelmas Daisy	22.03	
32 93 23 00-0065	EA		1 Quart Hardy Chrysanthemum	7.64	
32 93 23 00-0066	EA		6" To 8" Pot Hardy Chrysanthemum	12.63	
32 93 23 00-0067	EA		1 Gallon Hardy Chrysanthemum	20.27	
32 93 23 00-0068	EA		1 Gallon Herbaceous Peony	31.43	
32 93 23 00-0069	EA		2 Gallon Herbaceous Peony	50.22	
32 93 23 00-0070	EA		3 Gallon Herbaceous Peony	66.09	
32 93 23 00-0071	EA		4" Pot Japanese Anemone	5.29	
32 93 23 00-0072	EA		1 Quart Japanese Anemone	15.86	
32 93 23 00-0073	EA		2 Gallon Japanese Anemone	28.49	
32 93 23 00-0074	EA		2" Pot Japanese Spurge	3.13	
32 93 23 00-0075	EA		6" Pot Japanese Spurge	4.70	
32 93 23 00-0076	EA		1 Gallon Japanese Spurge	20.24	
32 93 23 00-0077	EA		1 Quart Oriental Poppy	12.63	
32 93 23 00-0078	EA		1 Gallon Oriental Poppy	25.26	
32 93 23 00-0079	EA		48 Plant Flat Pachysandra terminalis	104.70	
32 93 23 00-0080	EA		1 Gallon Pacific Coast Iris	17.33	
32 93 23 00-0081	EA		3 Gallon Pacific Coast Iris	32.90	
32 93 23 00-0082	EA		1 Gallon Palace Purple Coral Bells	33.35	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0083 EA 4" Pot Perennial Salvia	5.29	
32 93 23 00-0084 EA 1 Quart Perennial Salvia.....	8.81	
32 93 23 00-0085 EA 1 Gallon Perennial Salvia.....	22.03	
32 93 23 00-0086 EA 1 Quart Pincushion Flower.....	8.81	
32 93 23 00-0087 EA 1 Gallon Pincushion Flower	22.03	
32 93 23 00-0088 EA 2 Quart Plantain Lily.....	17.03	
32 93 23 00-0089 EA 1 Gallon Plantain Lily	24.08	
32 93 23 00-0090 EA 2 Gallon Plantain Lily	39.94	
32 93 23 00-0091 EA 3 Gallon Plantain Lily	75.49	
32 93 23 00-0092 EA 2 Quart Purple Coneflower	15.86	
32 93 23 00-0093 EA 1 Gallon Purple Coneflower	22.03	
32 93 23 00-0094 EA 2 Gallon Purple Coneflower	28.49	
32 93 23 00-0095 EA 1 Quart Purple Loosestrife.....	8.81	
32 93 23 00-0096 EA 1 Gallon Purple Loosestrife.....	22.03	
32 93 23 00-0097 EA 1 Quart Rose Mallow	17.33	
32 93 23 00-0098 EA 2 Gallon Rose Mallow	31.43	
32 93 23 00-0099 EA 3 Gallon Rose Mallow	53.75	
32 93 23 00-0100 EA 1 Gallon Autumn Joy Sedum	33.58	
32 93 23 00-0101 EA 1 Quart Siberian Iris.....	14.98	
32 93 23 00-0102 EA 2 Gallon Siberian Iris.....	28.49	
32 93 23 00-0103 EA 3 Gallon Siberian Iris.....	39.36	
32 93 23 00-0104 EA 1 Quart Speedwell	8.81	
32 93 23 00-0105 EA 1 Gallon Speedwell	22.03	
32 93 23 00-0106 EA 1 Quart Tetraploid	22.03	
32 93 23 00-0107 EA 1 Gallon Tetraploid.....	41.12	
32 93 23 00-0108 EA 3 Gallon Tetraploid.....	56.10	
32 93 23 00-0109 EA 1 Quart Threadleaf Coreopsis	8.81	
32 93 23 00-0110 EA 1 Gallon Threadleaf Coreopsis	22.03	
32 93 23 00-0111 EA 1 Quart Torch Lily	8.81	
32 93 23 00-0112 EA 1 Quart Bluebeard.....	15.86	
32 93 23 00-0113 EA 1 Gallon Bluebeard	23.50	
32 93 23 00-0114 EA 2 Gallon Bluebeard	34.36	
32 93 23 00-0115 Annuals (32 93 23)		
32 93 23 00-0116 EA 2-1/2" Pot Annual Flowers	4.09	
32 93 23 00-0117 EA 3" Pot Annual Flowers.....	5.53	
32 93 23 00-0118 EA 4" Pot Annual Flowers.....	11.82	
32 93 23 00-0119 EA 5-1/2" Pot Annual Flowers	15.72	
32 93 23 00-0120 EA 6" Pot Annual Flowers.....	31.13	
32 93 23 00-0121 EA 8" Pot Annual Flowers.....	51.88	
32 93 23 00-0122 EA 36 Plant Flat Annual Flowers	67.91	
32 93 23 00-0123 EA 48 Plant Flat Annual Flowers	77.03	
32 93 23 00-0124 Bulbs (32 93 23)		
32 93 23 00-0125 EA Top Size Allium giganteum - Giant Ornamental Onion	14.22	
32 93 23 00-0126 EA Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	0.82	
32 93 23 00-0127 EA Top Size Crocus Hybrid	0.93	
32 93 23 00-0128 EA Top Size Eranthis hyemalis - Winter Aconite	1.20	
32 93 23 00-0129 EA Top Size Galanthus nivalis - Snowdrops	1.53	
32 93 23 00-0130 EA Top Size Iris reticulata cvs - Dutch Iris.....	0.60	
32 93 23 00-0131 EA Top Size Muscari armeniacum - Grape Hyacinth	0.71	
32 93 23 00-0132 EA Top Size Muscari latifolium - Grape Hyacinth	0.82	
32 93 23 00-0133 EA Narcissus 'Carlton' - Carlton Daffodil DNI	4.92	
32 93 23 00-0134 EA Narcissus 'Dutch Master' - Dutch Master Daffodil DNI.....	2.35	
32 93 23 00-0135 EA Narcissus 'February Gold' - February Gold Daffodil DNI.....	2.46	
32 93 23 00-0136 EA Narcissus 'Ice Follies' - Ice Follies Daffodil DNI	2.46	
32 93 23 00-0137 EA Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	2.57	
32 93 23 00-0138 EA Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	2.73	
32 93 23 00-0139 EA Narcissus 'Pipit' - Pipit Daffodil DNI	2.57	
32 93 23 00-0140 EA Narcissus 'Salome' - Salome Daffodil DNI	2.41	
32 93 23 00-0141 EA Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	2.57	
32 93 23 00-0142 EA Narcissus 'Thalia' - Thalia Daffodil DNI.....	2.57	
32 93 23 00-0143 EA Top Size Scilla siberica - Siberian Squill.....	0.77	
32 93 23 00-0144 EA Top Size Tulip 'Angelique' - Angelique Tulip	2.19	
32 93 23 00-0145 EA Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	1.64	
32 93 23 00-0146 EA Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	2.19	
32 93 23 00-0147 EA Top Size Tulip 'Big Smile' - Big Smile Tulip	1.91	
32 93 23 00-0148 EA Top Size Tulip 'Black Parrot' - Black Parrot Tulip	2.73	
32 93 23 00-0149 EA Top Size Tulip 'Blue Heron' - Blue Heron Tulip	2.08	
32 93 23 00-0150 EA Top Size Tulip 'Cardinal' - Cardinal Tulip.....	1.80	
32 93 23 00-0151 EA Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip	2.02	
32 93 23 00-0152 EA Top Size Tulip clusiana - Species Tulip	2.02	
32 93 23 00-0153 EA Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	2.02	
32 93 23 00-0154 EA Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	1.64	
32 93 23 00-0155 EA Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	1.59	
32 93 23 00-0156 EA Top Size Tulip 'Halcro' - Halcro Tulip	1.64	
32 93 23 00-0157 EA Top Size Tulip 'Ivory Floridale' - Ivory Floridale Tulip	2.73	
32 93 23 00-0158 EA Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	1.64	
32 93 23 00-0159 EA Top Size Tulip 'Passionale' - Passionale Tulip	2.19	



Exterior Improvements		32	32
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MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 93 23 00-0160	EA	Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	2.35		
32 93 23 00-0161	EA	Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	2.46		
32 93 23 00-0162	EA	Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	1.97		
32 93 23 00-0163	EA	Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	1.86		
32 93 23 00-0164	EA	Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	2.02		
32 93 23 00-0165	EA	Top Size Tulip 'Princes' - Princes Tulip	2.02		
32 93 23 00-0166	EA	Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip	1.59		
32 93 23 00-0167	EA	Top Size Tulip saxatilis - Species Tulip	1.09		
32 93 23 00-0168	EA	Top Size Tulip 'Shirley' - Shirley Tulip	1.64		
32 93 23 00-0169	EA	Top Size Tulip 'Spring Green' - Spring Green Tulip	2.13		
32 93 23 00-0170	EA	Top Size Tulip 'White Emperor' - White Emperor Tulip	1.64		
32 93 33 Shrubs (32 93)					
Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.					
32 93 33 00-0001 Shrubs (32 93 33)					
32 93 33 00-0002	EA	1 Gallon Abelia x grandiflora - Abelia	12.07		
32 93 33 00-0003	EA	3 Gallon Abelia x grandiflora - Abelia	24.57		
32 93 33 00-0004	EA	5 Gallon Abelia x grandiflora - Abelia	47.17		
32 93 33 00-0005	EA	1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	7.53		
32 93 33 00-0006	EA	5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	18.63		
32 93 33 00-0007	EA	15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	73.97		
32 93 33 00-0008	EA	3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	84.79		
32 93 33 00-0009	EA	18" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	123.92		
32 93 33 00-0010	EA	24" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	138.27		
32 93 33 00-0011	EA	30" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	174.79		
32 93 33 00-0012	EA	36" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	194.36		
32 93 33 00-0013	EA	18" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	39.13		
32 93 33 00-0014	EA	24" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	52.18		
32 93 33 00-0015	EA	30" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	65.22		
32 93 33 00-0016	EA	1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	7.53		
32 93 33 00-0017	EA	5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	18.63		
32 93 33 00-0018	EA	36" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	36.02		
32 93 33 00-0019	EA	42" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	42.38		
32 93 33 00-0020	EA	48" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	50.85		
32 93 33 00-0021	EA	60" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	59.33		
32 93 33 00-0022	EA	72" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	72.04		
32 93 33 00-0023	EA	36" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	34.96		
32 93 33 00-0024	EA	42" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	37.08		
32 93 33 00-0025	EA	48" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	39.20		
32 93 33 00-0026	EA	60" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	44.49		
32 93 33 00-0027	EA	36" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	35.49		
32 93 33 00-0028	EA	42" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	37.61		
32 93 33 00-0029	EA	48" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	39.73		
32 93 33 00-0030	EA	60" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	41.85		
32 93 33 00-0031	EA	1 Gallon Aspidistra elatior - Cast Iron Plant	7.28		
32 93 33 00-0032	EA	2 Gallon Aspidistra elatior - Cast Iron Plant	16.84		
32 93 33 00-0033	EA	1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	8.54		
32 93 33 00-0034	EA	3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	18.78		
32 93 33 00-0035	EA	5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	25.38		
32 93 33 00-0036	EA	1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	7.53		
32 93 33 00-0037	EA	5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	18.63		
32 93 33 00-0038	EA	1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	7.53		
32 93 33 00-0039	EA	5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	18.63		
32 93 33 00-0040	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	9.10		
32 93 33 00-0041	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	13.32		
32 93 33 00-0042	EA	15" To 18" Berberis - Northern Bayberry	38.01		
32 93 33 00-0043	EA	2' To 2-1/2' Berberis - Northern Bayberry	48.25		
32 93 33 00-0044	EA	2-1/2' To 3' Berberis - Northern Bayberry	67.60		
32 93 33 00-0045	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberry	8.51		
32 93 33 00-0046	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberry	20.50		
32 93 33 00-0047	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberry	40.63		
32 93 33 00-0048	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry	52.01		
32 93 33 00-0049	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry	66.46		
32 93 33 00-0050	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	10.93		
32 93 33 00-0051	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	21.51		
32 93 33 00-0052	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	26.29		
32 93 33 00-0053	EA	1 Gallon Berberis x mentorensis - Mentor Barberry	10.36		
32 93 33 00-0054	EA	5 Gallon Berberis x mentorensis - Mentor Barberry	29.25		
32 93 33 00-0055	EA	2' To 3' Berberis x mentorensis - Mentor Barberry	40.63		
32 93 33 00-0056	EA	3' To 4' Berberis x mentorensis - Mentor Barberry	62.71		
32 93 33 00-0057	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood	11.84		
32 93 33 00-0058	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood	31.75		
32 93 33 00-0059	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood	33.80		
32 93 33 00-0060	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood	43.47		
32 93 33 00-0061	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood	57.93		
32 93 33 00-0062	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood	86.95		
32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood	120.75		
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood	33.80		
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood	43.47		
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood	57.93		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0067 EA 24" To 30" Buxus sempervirens - Common Boxwood	86.95	
32 93 33 00-0068 EA 2 Gallon Buxus Hybrid - Boxwood Cultivars	22.25	
32 93 33 00-0069 EA 5 Gallon Buxus Hybrid - Boxwood Cultivars	37.08	
32 93 33 00-0070 EA 5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	97.46	
32 93 33 00-0071 EA 18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	52.97	
32 93 33 00-0072 EA 24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	72.04	
32 93 33 00-0073 EA 30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	97.46	
32 93 33 00-0074 EA 1 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	6.76	
32 93 33 00-0075 EA 5 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	20.81	
32 93 33 00-0076 EA 15 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	67.64	
32 93 33 00-0077 EA 5 Gallon Calycanthus floridus - Common Sweetshrub.....	34.96	
32 93 33 00-0078 EA 30" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	31.78	
32 93 33 00-0079 EA 36" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	42.38	
32 93 33 00-0080 EA 1 Gallon Camellia "Sasanqua" - Camellia.....	10.03	
32 93 33 00-0081 EA 3 Gallon Camellia "Sasanqua" - Camellia.....	21.39	
32 93 33 00-0082 EA 5 Gallon Camellia "Sasanqua" - Camellia.....	35.57	
32 93 33 00-0083 EA 7 Gallon Camellia "Sasanqua" - Camellia.....	52.96	
32 93 33 00-0084 EA 15 Gallon Camellia "Sasanqua" - Camellia.....	137.42	
32 93 33 00-0085 EA 1 Gallon Camellia japonica - Camellia.....	10.03	
32 93 33 00-0086 EA 3 Gallon Camellia japonica - Camellia.....	21.39	
32 93 33 00-0087 EA 5 Gallon Camellia japonica - Camellia.....	35.57	
32 93 33 00-0088 EA 5 Gallon Ceanothus americanus - New Jersey Tea.....	34.96	
32 93 33 00-0089 EA 1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	8.51	
32 93 33 00-0090 EA 5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	22.12	
32 93 33 00-0091 EA 5 Gallon Celastrus scandens - Bittersweet.....	34.96	
32 93 33 00-0092 EA 36" Balled and Burlapped, Celastrus scandens - Bittersweet.....	29.66	
32 93 33 00-0093 EA 5 Gallon Cephalanthus occidentalis - Buttonbush	34.96	
32 93 33 00-0094 EA 24" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	26.48	
32 93 33 00-0095 EA 30" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	29.66	
32 93 33 00-0096 EA 36" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	31.78	
32 93 33 00-0097 EA 18" To 24" Chaenomeles speciosa - Flowering Quince	30.50	
32 93 33 00-0098 EA 2' To 3' Chaenomeles speciosa - Flowering Quince	40.63	
32 93 33 00-0099 EA 3' To 4' Chaenomeles speciosa - Flowering Quince	62.71	
32 93 33 00-0100 EA 1 Gallon Cistus Hybridus - White Rockrose	7.53	
32 93 33 00-0101 EA 5 Gallon Cistus Hybridus - White Rockrose	18.63	
32 93 33 00-0102 EA 3 Gallon Clethra alnifolia & cvs - Summersweet Clethra.....	33.90	
32 93 33 00-0103 EA 18" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	36.55	
32 93 33 00-0104 EA 24" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	40.79	
32 93 33 00-0105 EA 30" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	42.91	
32 93 33 00-0106 EA 36" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	50.32	
32 93 33 00-0107 EA 1 Gallon Coleonema Pulchellum - Confetti Bush	7.53	
32 93 33 00-0108 EA 5 Gallon Coleonema Pulchellum - Confetti Bush	18.63	
32 93 33 00-0109 EA 15 Gallon Coleonema Pulchellum - Confetti Bush	87.25	
32 93 33 00-0110 EA 2' To 3' Cornus mas - Cornelian Cherry.....	48.25	
32 93 33 00-0111 EA 3' To 4' Cornus mas - Cornelian Cherry.....	60.32	
32 93 33 00-0112 EA 4' To 5' Cornus mas - Cornelian Cherry.....	77.28	
32 93 33 00-0113 EA 5' To 6' Cornus mas - Cornelian Cherry.....	106.18	
32 93 33 00-0114 EA 5 Gallon Cornus alba & cvs - Tartarian Dogwood	31.78	
32 93 33 00-0115 EA 36" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	22.25	
32 93 33 00-0116 EA 48" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	25.43	
32 93 33 00-0117 EA 60" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	31.78	
32 93 33 00-0118 EA 72" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	38.14	
32 93 33 00-0119 EA 36" Balled and Burlapped, Cornus amomum - Silky Dogwood	31.78	
32 93 33 00-0120 EA 5 Gallon Cornus obliqua - Blue Fruited Dogwood.....	34.96	
32 93 33 00-0121 EA 5 Gallon Cornus racemosa - Gray Dogwood	34.96	
32 93 33 00-0122 EA 36" Balled and Burlapped, Cornus racemosa - Gray Dogwood	31.78	
32 93 33 00-0123 EA 48" Balled and Burlapped, Cornus racemosa - Gray Dogwood	37.08	
32 93 33 00-0124 EA 60" Balled and Burlapped, Cornus racemosa - Gray Dogwood	40.26	
32 93 33 00-0125 EA 72" Balled and Burlapped, Cornus racemosa - Gray Dogwood	48.73	
32 93 33 00-0126 EA 36" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	34.43	
32 93 33 00-0127 EA 48" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	38.67	
32 93 33 00-0128 EA 60" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	43.96	
32 93 33 00-0129 EA 24" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	27.54	
32 93 33 00-0130 EA 30" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	31.78	
32 93 33 00-0131 EA 36" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	33.90	
32 93 33 00-0132 EA 48" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	37.08	
32 93 33 00-0133 EA 60" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	41.32	
32 93 33 00-0134 EA 5 Gallon Corylus americana - American Filbert	32.84	
32 93 33 00-0135 EA 30" Balled and Burlapped, Corylus americana - American Filbert	37.08	
32 93 33 00-0136 EA 36" Balled and Burlapped, Corylus americana - American Filbert	39.73	
32 93 33 00-0137 EA 48" Balled and Burlapped, Corylus americana - American Filbert	42.91	
32 93 33 00-0138 EA 24" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	105.94	
32 93 33 00-0139 EA 30" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	137.72	
32 93 33 00-0140 EA 36" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	148.31	
32 93 33 00-0141 EA 42" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	190.69	
32 93 33 00-0142 EA 48" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	233.07	
32 93 33 00-0143 EA 60" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	264.85	
32 93 33 00-0144 EA 5' To 6' Cotinus coggygria - Smoke Tree.....	101.40	
32 93 33 00-0145 EA 6' To 8' Cotinus coggygria - Smoke Tree.....	152.05	
32 93 33 00-0146 EA 8' To 10' Cotinus coggygria - Smoke Tree.....	229.32	
32 93 33 00-0147 EA 5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	26.48	

**Exterior Improvements****32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0148	EA	18" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	26.48		
32 93 33 00-0149	EA	24" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	27.54		
32 93 33 00-0150	EA	12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster	25.38		
32 93 33 00-0151	EA	3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	27.54		
32 93 33 00-0152	EA	18" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	26.48		
32 93 33 00-0153	EA	24" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	27.54		
32 93 33 00-0154	EA	1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster	10.93		
32 93 33 00-0155	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	33.80		
32 93 33 00-0156	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	45.64		
32 93 33 00-0157	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	77.28		
32 93 33 00-0158	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	7.53		
32 93 33 00-0159	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	18.63		
32 93 33 00-0160	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	10.93		
32 93 33 00-0161	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	21.51		
32 93 33 00-0162	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	7.53		
32 93 33 00-0163	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	18.63		
32 93 33 00-0164	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	73.97		
32 93 33 00-0165	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy	17.34		
32 93 33 00-0166	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy	43.36		
32 93 33 00-0167	EA	18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	27.01		
32 93 33 00-0168	EA	24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	29.66		
32 93 33 00-0169	EA	30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	38.14		
32 93 33 00-0170	EA	36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	44.49		
32 93 33 00-0171	EA	42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	50.85		
32 93 33 00-0172	EA	24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	42.38		
32 93 33 00-0173	EA	30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	50.85		
32 93 33 00-0174	EA	36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	59.33		
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	15.89		
32 93 33 00-0176	EA	36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	38.14		
32 93 33 00-0177	EA	48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	50.85		
32 93 33 00-0178	EA	5 Gallon Elaeagnus angustifolia - Russian Olive	18.63		
32 93 33 00-0179	EA	1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	7.53		
32 93 33 00-0180	EA	5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	18.63		
32 93 33 00-0181	EA	15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	73.97		
32 93 33 00-0182	EA	1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	7.53		
32 93 33 00-0183	EA	5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	18.63		
32 93 33 00-0184	EA	15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	73.97		
32 93 33 00-0185	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	31.64		
32 93 33 00-0186	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	43.47		
32 93 33 00-0187	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	52.01		
32 93 33 00-0188	EA	3' To 4' Elaeagnus angustifolia - Russian Olive	50.64		
32 93 33 00-0189	EA	1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	7.53		
32 93 33 00-0190	EA	5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	18.63		
32 93 33 00-0191	EA	15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	73.97		
32 93 33 00-0192	EA	1 Gallon Euonymus - Gold Spot	9.11		
32 93 33 00-0193	EA	2 Gallon Euonymus - Gold Spot	19.12		
32 93 33 00-0194	EA	5 Gallon Euonymus - Gold Spot	26.29		
32 93 33 00-0195	EA	1 Gallon Euonymus alatus - Winged Euonymus	7.77		
32 93 33 00-0196	EA	3 Gallon Euonymus alatus - Winged Euonymus	22.42		
32 93 33 00-0197	EA	24" Balled and Burlapped, Euonymus alatus - Winged Euonymus	30.21		
32 93 33 00-0198	EA	30" Balled and Burlapped, Euonymus alatus - Winged Euonymus	37.77		
32 93 33 00-0199	EA	36" Balled and Burlapped, Euonymus alatus - Winged Euonymus	51.90		
32 93 33 00-0200	EA	42" Balled and Burlapped, Euonymus alatus - Winged Euonymus	64.08		
32 93 33 00-0201	EA	48" Balled and Burlapped, Euonymus alatus - Winged Euonymus	75.53		
32 93 33 00-0202	EA	54" Balled and Burlapped, Euonymus alatus - Winged Euonymus	97.46		
32 93 33 00-0203	EA	5 Gallon Euonymus alatus - Winged Euonymus	28.02		
32 93 33 00-0204	EA	60" Balled and Burlapped, Euonymus alatus - Winged Euonymus	121.83		
32 93 33 00-0205	EA	30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	47.67		
32 93 33 00-0206	EA	36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	56.68		
32 93 33 00-0207	EA	42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	74.16		
32 93 33 00-0208	EA	48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	88.99		
32 93 33 00-0209	EA	60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	110.18		
32 93 33 00-0210	EA	18" To 24" Euonymus alatus - Winged Burning Bush	33.80		
32 93 33 00-0211	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush	39.83		
32 93 33 00-0212	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush	54.40		
32 93 33 00-0213	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush	65.21		
32 93 33 00-0214	EA	3-1/2' To 4' Euonymus alatus - Winged Burning Bush	82.06		
32 93 33 00-0215	EA	4' To 5' Euonymus alatus - Winged Burning Bush	115.86		
32 93 33 00-0216	EA	5' To 6' Euonymus alatus - Winged Burning Bush	144.88		
32 93 33 00-0217	EA	6' To 8' Euonymus alatus - Winged Burning Bush	169.00		
32 93 33 00-0218	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush	33.80		
32 93 33 00-0219	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush	38.58		
32 93 33 00-0220	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush	47.12		
32 93 33 00-0221	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush	66.46		
32 93 33 00-0222	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush	78.53		
32 93 33 00-0223	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush	94.12		
32 93 33 00-0224	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush	132.81		
32 93 33 00-0225	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush	156.94		
32 93 33 00-0226	EA	36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo	28.60		
32 93 33 00-0227	EA	1 Gallon Euonymus fortunei - Wintercreeper	10.93		
32 93 33 00-0228	EA	2 Gallon Euonymus fortunei - Wintercreeper	21.51		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0229 EA 3 Gallon Euonymus fortunei - Wintercreeper	26.29	
32 93 33 00-0230 EA 5 Gallon Euonymus fortunei - Wintercreeper	31.18	
32 93 33 00-0231 EA 1 Gallon Euonymus japonicus - Evergreen Spindle	7.53	
32 93 33 00-0232 EA 5 Gallon Euonymus japonicus - Evergreen Spindle	18.63	
32 93 33 00-0233 EA 15 Gallon Euonymus japonicus - Evergreen Spindle	73.97	
32 93 33 00-0234 EA 2' To 3' Forsythia - Korean Forsythia	24.13	
32 93 33 00-0235 EA 3' To 4' Forsythia - Korean Forsythia	30.50	
32 93 33 00-0236 EA 4' To 5' Forsythia - Korean Forsythia	38.01	
32 93 33 00-0237 EA 30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	24.37	
32 93 33 00-0238 EA 36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	27.01	
32 93 33 00-0239 EA 48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	29.13	
32 93 33 00-0240 EA 18" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	25.43	
32 93 33 00-0241 EA 24" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	33.90	
32 93 33 00-0242 EA 24" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	25.43	
32 93 33 00-0243 EA 30" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	29.66	
32 93 33 00-0244 EA 36" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	34.96	
32 93 33 00-0245 EA 42" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	40.26	
32 93 33 00-0246 EA 48" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	46.61	
32 93 33 00-0247 EA 2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	36.02	
32 93 33 00-0248 EA 3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	50.32	
32 93 33 00-0249 EA 5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	52.97	
32 93 33 00-0250 EA 15" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	55.09	
32 93 33 00-0251 EA 18" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	59.33	
32 93 33 00-0252 EA 24" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	72.04	
32 93 33 00-0253 EA 24" Balled and Burlapped, Fothergilla major - Large Fothergilla	93.23	
32 93 33 00-0254 EA 30" Balled and Burlapped, Fothergilla major - Large Fothergilla	105.94	
32 93 33 00-0255 EA 1 Gallon Gardenia jasminoides - Cape Jasmine	7.85	
32 93 33 00-0256 EA 3 Gallon Gardenia jasminoides - Cape Jasmine	20.60	
32 93 33 00-0257 EA 5 Gallon Gardenia jasminoides - Cape Jasmine	26.29	
32 93 33 00-0258 EA 1 Gallon Grevillea 'Noellii' - Noel's Grevillea	7.53	
32 93 33 00-0259 EA 5 Gallon Grevillea 'Noellii' - Noel's Grevillea	18.63	
32 93 33 00-0260 EA 15 Gallon Grevillea 'Noellii' - Noel's Grevillea	73.97	
32 93 33 00-0261 EA 36" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	74.16	
32 93 33 00-0262 EA 48" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	120.77	
32 93 33 00-0263 EA 60" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	152.55	
32 93 33 00-0264 EA 72" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	233.07	
32 93 33 00-0265 EA 84" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	264.85	
32 93 33 00-0266 EA 1 Gallon Hedychium gartdnerum - Variegated Ginger	4.51	
32 93 33 00-0267 EA 3 Gallon Hedychium gartdnerum - Variegated Ginger	15.84	
32 93 33 00-0268 EA 5 Gallon Hedychium gartdnerum - Variegated Ginger	30.46	
32 93 33 00-0269 EA 1 Gallon Hibiscus rosa-sinensis - Hibiscus	11.55	
32 93 33 00-0270 EA 3 Gallon Hibiscus rosa-sinensis - Hibiscus	19.49	
32 93 33 00-0271 EA 5 Gallon Hibiscus rosa-sinensis - Hibiscus	29.48	
32 93 33 00-0272 EA 5 Gallon Hibiscus syriacus - Rose Of Sharon	30.50	
32 93 33 00-0273 EA 2' To 3' Hibiscus syriacus - Rose Of Sharon	25.95	
32 93 33 00-0274 EA 3' To 4' Hibiscus syriacus - Rose Of Sharon	35.05	
32 93 33 00-0275 EA 4' To 5' Hibiscus syriacus - Rose Of Sharon	50.64	
32 93 33 00-0276 EA 5' To 6' Hibiscus syriacus - Rose Of Sharon	69.99	
32 93 33 00-0277 EA 2 Gallon Hydrangea - Blue Hydrangea	21.51	
32 93 33 00-0278 EA 5 Gallon Hydrangea - Blue Hydrangea	30.27	
32 93 33 00-0279 EA 2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	33.80	
32 93 33 00-0280 EA 3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	38.58	
32 93 33 00-0281 EA 2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea	21.51	
32 93 33 00-0282 EA 5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	37.08	
32 93 33 00-0283 EA 30" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	40.26	
32 93 33 00-0284 EA 36" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	46.61	
32 93 33 00-0285 EA 4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	48.73	
32 93 33 00-0286 EA 18" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	38.14	
32 93 33 00-0287 EA 24" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	50.85	
32 93 33 00-0288 EA 3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	22.25	
32 93 33 00-0289 EA 5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	26.48	
32 93 33 00-0290 EA 18" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	22.78	
32 93 33 00-0291 EA 24" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	24.37	
32 93 33 00-0292 EA 30" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	27.54	
32 93 33 00-0293 EA 36" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	31.78	
32 93 33 00-0294 EA 48" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	42.38	
32 93 33 00-0295 EA 18" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	30.72	
32 93 33 00-0296 EA 24" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	34.96	
32 93 33 00-0297 EA 30" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	41.32	
32 93 33 00-0298 EA 2 Gallon Hypericum kalmianum - St. John's Wort	21.51	
32 93 33 00-0299 EA 3 Gallon Hypericum kalmianum - St. John's Wort	25.43	
32 93 33 00-0300 EA 24" Balled and Burlapped, Hypericum kalmianum - St. John's Wort	27.54	
32 93 33 00-0301 EA 1 Gallon Ilex "Carissa" - Holly	10.93	
32 93 33 00-0302 EA 2 Gallon Ilex "Carissa" - Holly	21.51	
32 93 33 00-0303 EA 5 Gallon Ilex "Carissa" - Holly	30.27	
32 93 33 00-0304 EA 18" To 24" Ilex - Gulfside Sweet Holly	29.02	
32 93 33 00-0305 EA 2' To 2-1/2' Ilex - Gulfside Sweet Holly	36.76	
32 93 33 00-0306 EA 2-1/2' To 3' Ilex - Gulfside Sweet Holly	47.69	
32 93 33 00-0307 EA 3' To 3-1/2' Ilex - Gulfside Sweet Holly	57.93	
32 93 33 00-0308 EA 3 Gallon Ilex cornuta - Dwarf Horned Holly	21.68	
32 93 33 00-0309 EA 1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	10.93	



Exterior Improvements			32
Planting			32 90
Plants			32 93

32

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	21.51		
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	31.18		
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly.....	10.93		
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly.....	23.90		
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly.....	31.18		
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly.....	23.90		
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly.....	28.79		
32 93 33 00-0317	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly.....	57.93		
32 93 33 00-0318	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly.....	77.28		
32 93 33 00-0319	EA	2' To 3' Ilex opaca - American Holly.....	77.28		
32 93 33 00-0320	EA	3' To 4' Ilex opaca - American Holly.....	127.92		
32 93 33 00-0321	EA	4' To 5' Ilex opaca - American Holly.....	164.11		
32 93 33 00-0322	EA	5' To 6' Ilex opaca - American Holly.....	197.91		
32 93 33 00-0323	EA	6' To 7' Ilex opaca - American Holly.....	277.58		
32 93 33 00-0324	EA	7' To 8' Ilex opaca - American Holly.....	386.26		
32 93 33 00-0325	EA	8' To 10' Ilex opaca - American Holly.....	555.15		
32 93 33 00-0326	EA	10' To 12' Ilex opaca - American Holly.....	844.91		
32 93 33 00-0327	EA	12' To 14' Ilex opaca - American Holly.....	1,025.86		
32 93 33 00-0328	EA	14' To 16' Ilex opaca - American Holly.....	1,267.25		
32 93 33 00-0329	EA	2' To 3' Ilex verticillata - Winterberry (Female).....	77.28		
32 93 33 00-0330	EA	3' To 4' Ilex verticillata - Winterberry (Female).....	101.40		
32 93 33 00-0331	EA	2' To 3' Ilex verticillata - Winterberry (Male).....	62.71		
32 93 33 00-0332	EA	3' To 4' Ilex verticillata - Winterberry (Male).....	86.95		
32 93 33 00-0333	EA	4' To 5' Ilex verticillata - Winterberry (Male).....	101.40		
32 93 33 00-0334	EA	1 Gallon Ilex vomitoria - Yaupon Holly.....	10.24		
32 93 33 00-0335	EA	3 Gallon Ilex vomitoria - Yaupon Holly.....	20.60		
32 93 33 00-0336	EA	10 Gallon Ilex vomitoria - Yaupon Holly.....	72.38		
32 93 33 00-0337	EA	18" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly.....	32.84		
32 93 33 00-0338	EA	24" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly.....	37.08		
32 93 33 00-0339	EA	3 Gallon Ilex meserveae & cvs - Blue Holly.....	42.38		
32 93 33 00-0340	EA	18" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly.....	39.20		
32 93 33 00-0341	EA	24" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly.....	47.67		
32 93 33 00-0342	EA	5 Gallon Ilex verticillata & cvs - Common Winterberry.....	34.96		
32 93 33 00-0343	EA	24" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	34.96		
32 93 33 00-0344	EA	30" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	37.08		
32 93 33 00-0345	EA	36" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	44.49		
32 93 33 00-0346	EA	42" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	49.79		
32 93 33 00-0347	EA	48" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	52.97		
32 93 33 00-0348	EA	60" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	67.80		
32 93 33 00-0349	EA	4' To 5' Ilex x attenuata "Foster" - Holly.....	125.53		
32 93 33 00-0350	EA	5' To 6' Ilex x attenuata "Foster" - Holly.....	166.50		
32 93 33 00-0351	EA	6' To 7' Ilex x attenuata "Foster" - Holly.....	148.97		
32 93 33 00-0352	EA	7' To 8' Ilex x attenuata "Foster" - Holly.....	289.64		
32 93 33 00-0353	EA	1 Gallon Jasminum - Jasmine.....	2.80		
32 93 33 00-0354	EA	3 Gallon Jasminum - Jasmine.....	10.96		
32 93 33 00-0355	EA	3 Gallon Jasminum - Orange Jasmine.....	8.53		
32 93 33 00-0356	EA	4' - 5' Jasminum - Orange Jasmine.....	97.46		
32 93 33 00-0357	EA	6' - 7' Jasminum - Orange Jasmine.....	194.93		
32 93 33 00-0358	EA	8' - 10' Jasminum - Orange Jasmine.....	263.15		
32 93 33 00-0359	EA	3 Gallon Juniperus chinensis cvs - Chinese Juniper.....	37.08		
32 93 33 00-0360	EA	5 Gallon Juniperus chinensis cvs - Chinese Juniper.....	41.32		
32 93 33 00-0361	EA	18" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	55.09		
32 93 33 00-0362	EA	24" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	72.04		
32 93 33 00-0363	EA	30" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	84.75		
32 93 33 00-0364	EA	36" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	114.41		
32 93 33 00-0365	EA	48" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	156.79		
32 93 33 00-0366	EA	1 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	17.67		
32 93 33 00-0367	EA	3 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	37.08		
32 93 33 00-0368	EA	5 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	41.32		
32 93 33 00-0369	EA	15" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	44.49		
32 93 33 00-0370	EA	18" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	48.73		
32 93 33 00-0371	EA	24" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	59.33		
32 93 33 00-0372	EA	30" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	72.04		
32 93 33 00-0373	EA	3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper.....	28.60		
32 93 33 00-0374	EA	18" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	33.90		
32 93 33 00-0375	EA	24" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	46.61		
32 93 33 00-0376	EA	30" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	59.33		
32 93 33 00-0377	EA	36" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	72.04		
32 93 33 00-0378	EA	3 Gallon Juniperus sabina cvs - Savin Juniper.....	26.48		
32 93 33 00-0379	EA	5 Gallon Juniperus sabina cvs - Savin Juniper.....	31.78		
32 93 33 00-0380	EA	4 Gallon Juniperus virginiana cvs - Red Cedar Juniper.....	27.54		
32 93 33 00-0381	EA	36" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	52.97		
32 93 33 00-0382	EA	48" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	82.63		
32 93 33 00-0383	EA	60" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	103.82		
32 93 33 00-0384	EA	15" To 18" Kalmia latifolia - Mountain Laurel.....	43.47		
32 93 33 00-0385	EA	18" To 24" Kalmia latifolia - Mountain Laurel.....	57.93		
32 93 33 00-0386	EA	2' To 3' Kalmia latifolia - Mountain Laurel.....	84.45		
32 93 33 00-0387	EA	4' To 5' Kalmia latifolia - Mountain Laurel.....	154.44		
32 93 33 00-0388	EA	5' To 6' Kalmia latifolia - Mountain Laurel.....	236.61		
32 93 33 00-0389	EA	6' To 8' Kalmia latifolia - Mountain Laurel.....	362.14		
32 93 33 00-0390	EA	1 Gallon Kerria japonica - Kerria.....	9.67		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0391 EA 5 Gallon Kerria japonica - Kerria.....	30.27	
32 93 33 00-0392 EA 24" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	30.72	
32 93 33 00-0393 EA 30" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	34.96	
32 93 33 00-0394 EA 36" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	38.14	
32 93 33 00-0395 EA 42" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	44.49	
32 93 33 00-0396 EA 48" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	50.85	
32 93 33 00-0397 EA 60" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	63.56	
32 93 33 00-0398 EA 1 Gallon Lagerstroemia indica - Crape Myrtle.....	7.28	
32 93 33 00-0399 EA 5 Gallon Lagerstroemia indica - Crape Myrtle.....	25.95	
32 93 33 00-0400 EA 3' To 4' Lagerstroemia indica - Crape Myrtle.....	36.19	
32 93 33 00-0401 EA 4' To 5' Lagerstroemia indica - Crape Myrtle.....	53.15	
32 93 33 00-0402 EA 5' To 6' Lagerstroemia indica - Crape Myrtle.....	84.45	
32 93 33 00-0403 EA 7' To 8' Lagerstroemia indica - Crape Myrtle.....	109.65	
32 93 33 00-0404 EA 9' To 10' Lagerstroemia indica - Crape Myrtle.....	146.20	
32 93 33 00-0405 EA 11' To 12' Lagerstroemia indica - Crape Myrtle.....	304.58	
32 93 33 00-0406 EA 1 Gallon Leucothoe axillaris - Coast Leucothoe.....	10.93	
32 93 33 00-0407 EA 2 Gallon Leucothoe axillaris - Coast Leucothoe.....	23.90	
32 93 33 00-0408 EA 3 Gallon Leucothoe axillaris - Coast Leucothoe.....	28.79	
32 93 33 00-0409 EA 1 Gallon Ligustrum lucidum - Glossy Privet.....	6.72	
32 93 33 00-0410 EA 5 Gallon Ligustrum lucidum - Glossy Privet.....	20.60	
32 93 33 00-0411 EA 15 Gallon Ligustrum lucidum - Glossy Privet.....	96.51	
32 93 33 00-0412 EA 1 Gallon Ligustrum sinense - Variegated Chinese Privet.....	6.72	
32 93 33 00-0413 EA 2 Gallon Ligustrum sinense - Variegated Chinese Privet.....	14.45	
32 93 33 00-0414 EA 3 Gallon Ligustrum sinense - Variegated Chinese Privet.....	18.78	
32 93 33 00-0415 EA 36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet.....	31.78	
32 93 33 00-0416 EA 48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet.....	46.61	
32 93 33 00-0417 EA 60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet.....	59.33	
32 93 33 00-0418 EA 72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet.....	67.80	
32 93 33 00-0419 EA 5 Gallon Linder benzoin - Spicebush.....	34.96	
32 93 33 00-0420 EA 36" Balled and Burlapped, Linder benzoin - Spicebush.....	29.66	
32 93 33 00-0421 EA 48" Balled and Burlapped, Linder benzoin - Spicebush.....	36.02	
32 93 33 00-0422 EA 2' To 3' Lonicera fragrantissima - Winter Honeysuckle.....	57.93	
32 93 33 00-0423 EA 3' To 4' Lonicera fragrantissima - Winter Honeysuckle.....	69.99	
32 93 33 00-0424 EA 30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle.....	31.78	
32 93 33 00-0425 EA 36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle.....	38.14	
32 93 33 00-0426 EA 42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle.....	42.38	
32 93 33 00-0427 EA 48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle.....	46.61	
32 93 33 00-0428 EA 1 Gallon Myrica cerifera - Wax Myrtle.....	6.09	
32 93 33 00-0429 EA 4 Gallon Myrica cerifera - Wax Myrtle.....	19.49	
32 93 33 00-0430 EA 7 Gallon Myrica cerifera - Wax Myrtle.....	42.64	
32 93 33 00-0431 EA 10 Gallon Myrica cerifera - Wax Myrtle.....	63.35	
32 93 33 00-0432 EA 15 Gallon Myrica cerifera - Wax Myrtle.....	97.46	
32 93 33 00-0433 EA 45 Gallon Myrica cerifera - Wax Myrtle.....	292.39	
32 93 33 00-0434 EA 1' - 2' Myrica cerifera - Wax Myrtle.....	8.53	
32 93 33 00-0435 EA 3' - 4' Myrica cerifera - Wax Myrtle.....	29.24	
32 93 33 00-0436 EA 5' - 6' Myrica cerifera - Wax Myrtle.....	53.61	
32 93 33 00-0437 EA 7' - 8' Myrica cerifera - Wax Myrtle.....	73.10	
32 93 33 00-0438 EA 9' - 10' Myrica cerifera - Wax Myrtle.....	97.46	
32 93 33 00-0439 EA 11' - 12' Myrica cerifera - Wax Myrtle.....	148.63	
32 93 33 00-0440 EA 3 Gallon Myrica pensylvanica - Northern Bayberry.....	31.78	
32 93 33 00-0441 EA 24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	51.91	
32 93 33 00-0442 EA 30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	76.28	
32 93 33 00-0443 EA 36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	91.11	
32 93 33 00-0444 EA 48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	95.35	
32 93 33 00-0445 EA 1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	7.53	
32 93 33 00-0446 EA 5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	18.63	
32 93 33 00-0447 EA 15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	73.97	
32 93 33 00-0448 EA 1 Gallon Nandina domestica - Heavenly Bamboo.....	10.93	
32 93 33 00-0449 EA 2 Gallon Nandina domestica - Heavenly Bamboo.....	23.90	
32 93 33 00-0450 EA 5 Gallon Nandina domestica - Heavenly Bamboo.....	36.19	
32 93 33 00-0451 EA 15 Gallon Nerium oleander - Oleander.....	80.93	
32 93 33 00-0452 EA 24" Box Nerium oleander - Oleander.....	290.84	
32 93 33 00-0453 EA 1 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	6.72	
32 93 33 00-0454 EA 3 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	18.21	
32 93 33 00-0455 EA 1 Gallon Philadelphus - Evergreen Mockorange.....	9.33	
32 93 33 00-0456 EA 5 Gallon Philadelphus - Evergreen Mockorange.....	30.27	
32 93 33 00-0457 EA 36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	31.78	
32 93 33 00-0458 EA 42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	37.08	
32 93 33 00-0459 EA 48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	42.38	
32 93 33 00-0460 EA 1 Gallon Photinia fraseri - Red-Tipped Photinia.....	7.53	
32 93 33 00-0461 EA 5 Gallon Photinia fraseri - Red-Tipped Photinia.....	18.63	
32 93 33 00-0462 EA 15 Gallon Photinia fraseri - Red-Tipped Photinia.....	73.97	
32 93 33 00-0463 EA 1 Gallon Phormium tenax - New Zealand Flax.....	7.94	
32 93 33 00-0464 EA 5 Gallon Phormium tenax - New Zealand Flax.....	19.04	
32 93 33 00-0465 EA 15 Gallon Phormium tenax - New Zealand Flax.....	80.93	
32 93 33 00-0466 EA 24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	31.78	
32 93 33 00-0467 EA 30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	37.08	
32 93 33 00-0468 EA 36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	42.38	
32 93 33 00-0469 EA 42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	52.97	
32 93 33 00-0470 EA 48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	63.56	
32 93 33 00-0471 EA 12" To 15" Spread Pieris - Mountain Andromeda.....	29.25	

**Exterior Improvements****32**

Planting

32 90

Plants

32 93

32

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 93 33 00-0472	EA	15" To 18" Spread Pieris - Mountain Andromeda.....		62.71	
32 93 33 00-0473	EA	12" To 15" Pieris japonica - Japanese Andromeda.....		38.01	
32 93 33 00-0474	EA	15" To 18" Pieris japonica - Japanese Andromeda.....		43.47	
32 93 33 00-0475	EA	18" To 24" Pieris japonica - Japanese Andromeda.....		54.40	
32 93 33 00-0476	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda.....		77.28	
32 93 33 00-0477	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda.....		91.73	
32 93 33 00-0478	EA	24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....		32.61	
32 93 33 00-0479	EA	30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....		41.74	
32 93 33 00-0480	EA	36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....		50.22	
32 93 33 00-0481	EA	48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....		64.57	
32 93 33 00-0482	EA	60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....		77.61	
32 93 33 00-0483	EA	72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....		113.49	
32 93 33 00-0484	EA	30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....		70.44	
32 93 33 00-0485	EA	36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....		84.79	
32 93 33 00-0486	EA	48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....		112.83	
32 93 33 00-0487	EA	1 Gallon Pittosporum - Pittosporum.....		4.02	
32 93 33 00-0488	EA	3 Gallon Pittosporum - Pittosporum.....		10.36	
32 93 33 00-0489	EA	1 Gallon Pittosporum - Varigated Pittosporum.....		4.02	
32 93 33 00-0490	EA	3 Gallon Pittosporum - Varigated Pittosporum.....		10.36	
32 93 33 00-0491	EA	5 Gallon Pittosporum - Varigated Pittosporum.....		18.15	
32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood.....		8.65	
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood.....		20.50	
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum.....		7.53	
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum.....		18.63	
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum.....		73.97	
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....		18.01	
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....		25.43	
32 93 33 00-0499	EA	18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....		19.07	
32 93 33 00-0500	EA	24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....		21.19	
32 93 33 00-0501	EA	30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....		30.72	
32 93 33 00-0502	EA	36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....		35.49	
32 93 33 00-0503	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel.....		4.48	
32 93 33 00-0504	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel.....		11.21	
32 93 33 00-0505	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel.....		66.84	
32 93 33 00-0506	EA	15" To 18" Prunus laurocerasus - Cherry Laurel.....		17.10	
32 93 33 00-0507	EA	18" To 24" Prunus laurocerasus - Cherry Laurel.....		21.16	
32 93 33 00-0508	EA	24" To 30" Prunus laurocerasus - Cherry Laurel.....		27.54	
32 93 33 00-0509	EA	15" To 18" Prunus triloba - Double White Flowering Almond.....		15.27	
32 93 33 00-0510	EA	18" To 24" Prunus triloba - Double White Flowering Almond.....		19.55	
32 93 33 00-0511	EA	3' To 4' Prunus triloba - Double White Flowering Almond.....		31.18	
32 93 33 00-0512	EA	4' To 6' Prunus triloba - Double White Flowering Almond.....		62.43	
32 93 33 00-0513	EA	5 Gallon Prunus triloba - Pink Flowering Almond.....		18.78	
32 93 33 00-0514	EA	18" To 24" Prunus triloba - Pink Flowering Almond.....		21.09	
32 93 33 00-0515	EA	2' To 3' Prunus triloba - Pink Flowering Almond.....		24.52	
32 93 33 00-0516	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry.....		16.68	
32 93 33 00-0517	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry.....		20.46	
32 93 33 00-0518	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry.....		24.52	
32 93 33 00-0519	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry.....		28.10	
32 93 33 00-0520	EA	1 Gallon Punica granatum - Dwarf Pomegranate.....		7.17	
32 93 33 00-0521	EA	3 Gallon Punica granatum - Dwarf Pomegranate.....		21.17	
32 93 33 00-0522	EA	7 Gallon Punica granatum - Dwarf Pomegranate.....		43.47	
32 93 33 00-0523	EA	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....		9.10	
32 93 33 00-0524	EA	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....		30.27	
32 93 33 00-0525	EA	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha.....		62.71	
32 93 33 00-0526	EA	1 Gallon Ralphialepis indica - Indian Hawthorne.....		7.28	
32 93 33 00-0527	EA	2 Gallon Ralphialepis indica - Indian Hawthorne.....		13.88	
32 93 33 00-0528	EA	5 Gallon Ralphialepis indica - Indian Hawthorne.....		24.70	
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry.....		11.07	
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry.....		31.66	
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry.....		95.01	
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge.....		55.54	
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge.....		76.14	
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge.....		99.01	
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge.....		181.07	
32 93 33 00-0536	EA	1 Gallon Rhaphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn.....		8.02	
32 93 33 00-0537	EA	5 Gallon Rhaphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn.....		19.04	
32 93 33 00-0538	EA	15 Gallon Rhaphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn.....		80.93	
32 93 33 00-0539	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids.....		11.84	
32 93 33 00-0540	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids.....		23.90	
32 93 33 00-0541	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids.....		31.18	
32 93 33 00-0542	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids.....		36.19	
32 93 33 00-0543	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids.....		42.34	
32 93 33 00-0544	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids.....		53.15	
32 93 33 00-0545	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids.....		77.28	
32 93 33 00-0546	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids.....		108.57	
32 93 33 00-0547	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....		13.32	
32 93 33 00-0548	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....		23.90	
32 93 33 00-0549	EA	15' To 18' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....		41.08	
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....		53.15	
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....		77.28	
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....		113.47	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0553 EA 4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	152.05	
32 93 33 00-0554 EA 5 Gallon Rhododendron - Boxleaf Azara	30.27	
32 93 33 00-0555 EA 15 Gallon Rhododendron - Boxleaf Azara	108.57	
32 93 33 00-0556 EA 15" To 18" Rhododendron - Carolina Rhododendron	34.26	
32 93 33 00-0557 EA 18" To 24" Rhododendron - Carolina Rhododendron	60.32	
32 93 33 00-0558 EA 24" To 30" Rhododendron - Carolina Rhododendron	89.34	
32 93 33 00-0559 EA 2' To 3' Rhododendron - Five-leafed Azalea.....	40.63	
32 93 33 00-0560 EA 3' To 4' Rhododendron - Five-leafed Azalea.....	53.15	
32 93 33 00-0561 EA 4' To 5' Rhododendron - Five-leafed Azalea.....	69.99	
32 93 33 00-0562 EA 15" To 18" Rhododendron - Ghent Azalea.....	40.63	
32 93 33 00-0563 EA 18" To 24" Rhododendron - Ghent Azalea.....	50.64	
32 93 33 00-0564 EA 2' To 3' Rhododendron - Ghent Azalea.....	82.06	
32 93 33 00-0565 EA 3' To 4' Rhododendron - Ghent Azalea.....	113.47	
32 93 33 00-0566 EA 4' To 5' Rhododendron - Ghent Azalea.....	152.05	
32 93 33 00-0567 EA 5' To 6' Rhododendron - Ghent Azalea.....	202.81	
32 93 33 00-0568 EA 1 Gallon Rhododendron - Hybrid Rhododendron.....	13.32	
32 93 33 00-0569 EA 2 Gallon Rhododendron - Hybrid Rhododendron.....	28.79	
32 93 33 00-0570 EA 3 Gallon Rhododendron - Hybrid Rhododendron.....	40.86	
32 93 33 00-0571 EA 5 Gallon Rhododendron - Hybrid Rhododendron.....	45.64	
32 93 33 00-0572 EA 15" To 18" Rhododendron - Hybrid Rhododendron	38.58	
32 93 33 00-0573 EA 18" To 24" Rhododendron - Hybrid Rhododendron	53.15	
32 93 33 00-0574 EA 24" To 30" Rhododendron - Hybrid Rhododendron	72.38	
32 93 33 00-0575 EA 30" To 36" Rhododendron - Hybrid Rhododendron	84.45	
32 93 33 00-0576 EA 36" To 42" Rhododendron - Hybrid Rhododendron	120.75	
32 93 33 00-0577 EA 42" To 48" Rhododendron - Hybrid Rhododendron	149.66	
32 93 33 00-0578 EA 15" To 18" Rhododendron - Pjm Rhododendron.....	43.47	
32 93 33 00-0579 EA 18" To 24" Rhododendron - Pjm Rhododendron.....	53.15	
32 93 33 00-0580 EA 2' To 2-1/2' Rhododendron - Pjm Rhododendron.....	77.28	
32 93 33 00-0581 EA 2-1/2 To 3' Rhododendron - Pjm Rhododendron	99.01	
32 93 33 00-0582 EA 3' To 3-1/2' Rhododendron - Pjm Rhododendron.....	120.75	
32 93 33 00-0583 EA 12" To 15" Rhododendron - Torch Azalea	33.80	
32 93 33 00-0584 EA 15" To 18" Rhododendron - Torch Azalea	40.63	
32 93 33 00-0585 EA 18" To 24" Rhododendron - Torch Azalea	50.64	
32 93 33 00-0586 EA 2' To 3' Rhododendron - Torch Azalea	84.45	
32 93 33 00-0587 EA 3 Gallon Rhododendron cvs - Lepidote Rhododendron.....	38.14	
32 93 33 00-0588 EA 5 Gallon Rhododendron cvs - Lepidote Rhododendron.....	46.61	
32 93 33 00-0589 EA 18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	57.21	
32 93 33 00-0590 EA 24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	72.04	
32 93 33 00-0591 EA 30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	84.75	
32 93 33 00-0592 EA 36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	101.70	
32 93 33 00-0593 EA 1 Gallon Rhus glabra - Dwarf Smooth Sumac	10.93	
32 93 33 00-0594 EA 5 Gallon Rhus glabra - Dwarf Smooth Sumac	30.27	
32 93 33 00-0595 EA 2 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	25.43	
32 93 33 00-0596 EA 5 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	34.96	
32 93 33 00-0597 EA 18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	40.26	
32 93 33 00-0598 EA 24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	52.97	
32 93 33 00-0599 EA 36" Balled and Burlapped, Rhus glabra - Smooth Sumac.....	31.78	
32 93 33 00-0600 EA 48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	52.97	
32 93 33 00-0601 EA 72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	84.75	
32 93 33 00-0602 EA 15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	28.60	
32 93 33 00-0603 EA 18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	32.84	
32 93 33 00-0604 EA 24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	47.67	
32 93 33 00-0605 EA 30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	63.56	
32 93 33 00-0606 EA 1 Gallon Rosa hybrids & cvs - Shrub Rose.....	17.48	
32 93 33 00-0607 EA 2 Gallon Rosa hybrids & cvs - Shrub Rose.....	21.19	
32 93 33 00-0608 EA 3 Gallon Rosa hybrids & cvs - Shrub Rose.....	26.48	
32 93 33 00-0609 EA 2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	19.07	
32 93 33 00-0610 EA 3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	24.37	
32 93 33 00-0611 EA 5 Gallon Sambucus canadensis - American Elder.....	34.96	
32 93 33 00-0612 EA 1 Gallon Santolina chamaecyparissus - Lavender Cotton	7.53	
32 93 33 00-0613 EA 5 Gallon Santolina chamaecyparissus - Lavender Cotton	18.63	
32 93 33 00-0614 EA 1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	7.53	
32 93 33 00-0615 EA 5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	18.63	
32 93 33 00-0616 EA 2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	15.71	
32 93 33 00-0617 EA 3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	22.99	
32 93 33 00-0618 EA 1 Gallon Sarcococca humilis - Fragrant Sarcococca	8.54	
32 93 33 00-0619 EA 5 Gallon Sarcococca humilis - Fragrant Sarcococca	22.31	
32 93 33 00-0620 EA 5 Gallon Senna artemisioides - Feathery Cassia.....	20.81	
32 93 33 00-0621 EA 15 Gallon Senna artemisioides - Feathery Cassia.....	82.81	
32 93 33 00-0622 EA 24" Box Senna artemisioides - Feathery Cassia.....	260.14	
32 93 33 00-0623 EA 1 Gallon Skimmia japonica - Japanese Skimmia	10.93	
32 93 33 00-0624 EA 2 Gallon Skimmia japonica - Japanese Skimmia	21.74	
32 93 33 00-0625 EA 5 Gallon Skimmia japonica - Japanese Skimmia.....	35.05	
32 93 33 00-0626 EA 1 Gallon Sollya fusiformis - Bluebell Creeper.....	7.53	
32 93 33 00-0627 EA 5 Gallon Sollya fusiformis - Bluebell Creeper.....	18.63	
32 93 33 00-0628 EA 3' To 4' Spiraea - Garland Spirea.....	50.64	
32 93 33 00-0629 EA 4' To 5' Spiraea - Garland Spirea.....	77.28	
32 93 33 00-0630 EA 5 Gallon Spiraea - Snowmound Spirea.....	30.27	
32 93 33 00-0631 EA 18" To 24" Spiraea - Snowmound Spirea.....	24.81	
32 93 33 00-0632 EA 2' To 3' Spiraea - Snowmound Spirea.....	35.05	
32 93 33 00-0633 EA 3' To 4' Spiraea - Snowmound Spirea.....	40.63	



Exterior Improvements		32
Planting	32 90	32
Plants	32 93	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0634	EA	4' To 5' Spiraea - Snowmound Spiraea	69.99	
32 93 33 00-0635	EA	1 Gallon Spiraea japonica & cvs - Japanese Spiraea	10.93	
32 93 33 00-0636	EA	2 Gallon Spiraea japonica & cvs - Japanese Spiraea	21.51	
32 93 33 00-0637	EA	3 Gallon Spiraea japonica & cvs - Japanese Spiraea	24.90	
32 93 33 00-0638	EA	5 Gallon Spiraea japonica & cvs - Japanese Spiraea	27.01	
32 93 33 00-0639	EA	18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea	27.54	
32 93 33 00-0640	EA	24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea	31.78	
32 93 33 00-0641	EA	30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea	36.02	
32 93 33 00-0642	EA	36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea	41.85	
32 93 33 00-0643	EA	2 Gallon Spiraea nipponica & cvs - Nippon Spiraea	16.95	
32 93 33 00-0644	EA	5 Gallon Spiraea nipponica & cvs - Nippon Spiraea	25.43	
32 93 33 00-0645	EA	18" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	23.31	
32 93 33 00-0646	EA	24" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	27.54	
32 93 33 00-0647	EA	30" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	31.78	
32 93 33 00-0648	EA	36" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	36.02	
32 93 33 00-0649	EA	48" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	46.61	
32 93 33 00-0650	EA	1 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea	10.93	
32 93 33 00-0651	EA	2 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea	19.60	
32 93 33 00-0652	EA	4 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea	25.43	
32 93 33 00-0653	EA	18" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea	22.25	
32 93 33 00-0654	EA	24" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea	27.01	
32 93 33 00-0655	EA	30" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea	31.78	
32 93 33 00-0656	EA	36" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea	36.02	
32 93 33 00-0657	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	25.43	
32 93 33 00-0658	EA	18" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	25.43	
32 93 33 00-0659	EA	24" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	29.66	
32 93 33 00-0660	EA	30" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	40.26	
32 93 33 00-0661	EA	36" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	46.61	
32 93 33 00-0662	EA	42" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	55.09	
32 93 33 00-0663	EA	5 Gallon Staphylea trifolia - Bladdernut	35.77	
32 93 33 00-0664	EA	2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra	25.43	
32 93 33 00-0665	EA	5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra	27.54	
32 93 33 00-0666	EA	24" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra	31.78	
32 93 33 00-0667	EA	30" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra	38.14	
32 93 33 00-0668	EA	2 Gallon Symphoricarpos albus - Common Snowberry	26.48	
32 93 33 00-0669	EA	5 Gallon Symphoricarpos albus - Common Snowberry	28.07	
32 93 33 00-0670	EA	24" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	46.61	
32 93 33 00-0671	EA	30" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	58.27	
32 93 33 00-0672	EA	36" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	67.80	
32 93 33 00-0673	EA	42" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	78.39	
32 93 33 00-0674	EA	18" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	46.61	
32 93 33 00-0675	EA	24" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	50.85	
32 93 33 00-0676	EA	30" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	58.27	
32 93 33 00-0677	EA	36" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	67.80	
32 93 33 00-0678	EA	42" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	78.39	
32 93 33 00-0679	EA	60" Balled and Burlapped, Syringa villosa & cvs - Late Lilac	37.08	
32 93 33 00-0680	EA	72" Balled and Burlapped, Syringa villosa & cvs - Late Lilac	40.26	
32 93 33 00-0681	EA	36" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	31.78	
32 93 33 00-0682	EA	42" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	36.02	
32 93 33 00-0683	EA	48" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	40.26	
32 93 33 00-0684	EA	60" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	46.61	
32 93 33 00-0685	EA	72" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	57.21	
32 93 33 00-0686	EA	5 Gallon Syringa x chinensis & cvs - Chinese Lilac	26.48	
32 93 33 00-0687	EA	36" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac	30.72	
32 93 33 00-0688	EA	48" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac	40.26	
32 93 33 00-0689	EA	48" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	168.44	
32 93 33 00-0690	EA	54" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	188.57	
32 93 33 00-0691	EA	60" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	207.64	
32 93 33 00-0692	EA	72" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	250.02	
32 93 33 00-0693	EA	18" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	44.49	
32 93 33 00-0694	EA	24" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	58.27	
32 93 33 00-0695	EA	30" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	67.80	
32 93 33 00-0696	EA	36" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	74.16	
32 93 33 00-0697	EA	15" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	44.49	
32 93 33 00-0698	EA	18" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	58.27	
32 93 33 00-0699	EA	24" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	68.86	
32 93 33 00-0700	EA	30" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	81.57	
32 93 33 00-0701	EA	36" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	122.89	
32 93 33 00-0702	EA	36" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	67.80	
32 93 33 00-0703	EA	48" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	91.11	
32 93 33 00-0704	EA	60" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	137.72	
32 93 33 00-0705	EA	72" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	201.28	
32 93 33 00-0706	EA	84" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	230.95	
32 93 33 00-0707	EA	96" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	268.03	
32 93 33 00-0708	EA	15" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	29.66	
32 93 33 00-0709	EA	18" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	41.32	
32 93 33 00-0710	EA	24" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	58.27	
32 93 33 00-0711	EA	3' To 4' Viburnum dilatatum - Linden Viburnum	50.64	
32 93 33 00-0712	EA	4' To 5' Viburnum dilatatum - Linden Viburnum	77.28	
32 93 33 00-0713	EA	5' To 6' Viburnum dilatatum - Linden Viburnum	101.40	
32 93 33 00-0714	EA	1 Gallon Viburnum japonicum - Japanese Viburnum	6.15	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0715 EA 3 Gallon Viburnum japonicum - Japanese Viburnum.....	16.84	
32 93 33 00-0716 EA 5 Gallon Viburnum plicatum - Japanese Snowball.....	30.27	
32 93 33 00-0717 EA 5' To 6' Viburnum plicatum - Japanese Snowball.....	113.47	
32 93 33 00-0718 EA 2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	53.15	
32 93 33 00-0719 EA 3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	62.71	
32 93 33 00-0720 EA 4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	88.20	
32 93 33 00-0721 EA 30" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum.....	58.27	
32 93 33 00-0722 EA 36" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum.....	69.92	
32 93 33 00-0723 EA 24" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	52.97	
32 93 33 00-0724 EA 30" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	63.56	
32 93 33 00-0725 EA 36" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	74.16	
32 93 33 00-0726 EA 42" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	84.75	
32 93 33 00-0727 EA 1 Gallon Viburnum davidii - David Viburnum.....	7.53	
32 93 33 00-0728 EA 5 Gallon Viburnum davidii - David Viburnum.....	18.63	
32 93 33 00-0729 EA 36" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	29.66	
32 93 33 00-0730 EA 42" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	31.78	
32 93 33 00-0731 EA 48" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	37.08	
32 93 33 00-0732 EA 60" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	42.38	
32 93 33 00-0733 EA 72" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	46.61	
32 93 33 00-0734 EA 30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	28.60	
32 93 33 00-0735 EA 36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	31.78	
32 93 33 00-0736 EA 42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	40.26	
32 93 33 00-0737 EA 48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	46.61	
32 93 33 00-0738 EA 60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	63.56	
32 93 33 00-0739 EA 72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	76.28	
32 93 33 00-0740 EA 36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	31.78	
32 93 33 00-0741 EA 48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	42.38	
32 93 33 00-0742 EA 5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	52.97	
32 93 33 00-0743 EA 6' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	74.16	
32 93 33 00-0744 EA 7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	105.94	
32 93 33 00-0745 EA 8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	148.31	
32 93 33 00-0746 EA 9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	190.69	
32 93 33 00-0747 EA 30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	38.14	
32 93 33 00-0748 EA 36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	42.38	
32 93 33 00-0749 EA 36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	76.28	
32 93 33 00-0750 EA 48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	116.53	
32 93 33 00-0751 EA 60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	148.31	
32 93 33 00-0752 EA 72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	180.10	
32 93 33 00-0753 EA 84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	222.47	
32 93 33 00-0754 EA 96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	264.85	
32 93 33 00-0755 EA 108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	317.82	
32 93 33 00-0756 EA 120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	370.79	
32 93 33 00-0757 EA 30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	32.31	
32 93 33 00-0758 EA 36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	35.49	
32 93 33 00-0759 EA 48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	40.26	
32 93 33 00-0760 EA 60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	46.61	
32 93 33 00-0761 EA 72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	53.50	
32 93 33 00-0762 EA 18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	30.72	
32 93 33 00-0763 EA 24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	37.08	
32 93 33 00-0764 EA 30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	44.49	
32 93 33 00-0765 EA 36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	50.85	
32 93 33 00-0766 EA 42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	61.44	
32 93 33 00-0767 EA 48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	67.80	
32 93 33 00-0768 EA 30" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	52.97	
32 93 33 00-0769 EA 36" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	63.56	
32 93 33 00-0770 EA 42" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	74.16	
32 93 33 00-0771 EA 48" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	84.75	
32 93 33 00-0772 EA 60" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	95.35	
32 93 33 00-0773 EA 30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	67.80	
32 93 33 00-0774 EA 36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	76.28	
32 93 33 00-0775 EA 42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	86.87	
32 93 33 00-0776 EA 48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	99.58	
32 93 33 00-0777 EA 2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball.....	62.71	
32 93 33 00-0778 EA 3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball.....	77.28	
32 93 33 00-0779 EA 4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball.....	113.47	
32 93 33 00-0780 EA 5 Gallon Weigela florida & cvs - Old Fashioned Weigela.....	34.96	
32 93 33 00-0781 EA 24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	31.78	
32 93 33 00-0782 EA 30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	36.02	
32 93 33 00-0783 EA 36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	40.26	
32 93 33 00-0784 EA 42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	46.61	
32 93 33 00-0785 EA 48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	52.97	
32 93 33 00-0786 EA 1 Gallon Xylosma congestum - Shiny Xylosma.....	7.28	
32 93 33 00-0787 EA 5 Gallon Xylosma congestum - Shiny Xylosma.....	20.60	
32 93 33 00-0788 EA 15 Gallon Xylosma congestum - Shiny Xylosma.....	90.59	
32 93 33 00-0789 EA 1 Gallon Yucca aloifolia - Spanish Bayonet.....	6.15	
32 93 33 00-0790 EA 3 Gallon Yucca aloifolia - Spanish Bayonet.....	16.27	
32 93 33 00-0791 EA 1 Gallon Yucca filamentosa - Adams Needle.....	8.54	
32 93 33 00-0792 EA 3 Gallon Yucca filamentosa - Adams Needle.....	16.62	
32 93 33 00-0793 EA 5 Gallon Yucca filamentosa - Adams Needle.....	26.29	
32 93 33 00-0794 EA 5 Gallon Border Forsythia - Goldenbells.....	29.25	
32 93 33 00-0795 EA 2' To 3' Border Forsythia - Goldenbells.....	24.13	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0796	EA		3' To 4' Border Forsythia - Goldenbells.....	30.50	
32 93 33 00-0797	EA		4' To 5' Border Forsythia - Goldenbells.....	38.01	
32 93 33 00-0798	EA		5' To 6' Border Forsythia - Goldenbells.....	45.64	
32 93 33 00-0799	EA		6' To 8' Border Forsythia - Goldenbells.....	62.71	
32 93 33 00-0800	EA		3' Juniperus chinensis - Columnar Chinese Juniper	62.13	
32 93 33 00-0801	EA		4' Juniperus chinensis - Columnar Chinese Juniper	85.28	
32 93 33 00-0802	EA		5' Juniperus chinensis - Columnar Chinese Juniper	134.01	
32 93 33 00-0803	EA		6' Juniperus chinensis - Columnar Chinese Juniper	155.94	
32 93 33 00-0804	EA		7' Juniperus chinensis - Columnar Chinese Juniper	204.67	
32 93 33 00-0805	EA		2 Gallon Chrysobalanus icaco - Cocoplum Red Tip	12.18	
32 93 33 00-0806	EA		3 Gallon Chrysobalanus icaco - Cocoplum Red Tip	17.06	
32 93 33 00-0807	EA		5 Gallon Chrysobalanus icaco - Cocoplum Red Tip	41.30	
32 93 33 00-0808	EA		2 Gallon Chrysobalanus icaco - Cocoplum Green Tip	12.18	
32 93 33 00-0809	EA		3 Gallon Chrysobalanus icaco - Cocoplum Green Tip	17.06	

32 93 43**Trees (32 93)**

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 93 43 00-0001**Deciduous Ornamental Trees (32 93 43)**

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA		6' Clump Form Acer ginnala & cvs - Amur Maple	340.08	
32 93 43 00-0003	EA		7' Clump Form Acer ginnala & cvs - Amur Maple	415.66	
32 93 43 00-0004	EA		8' Clump Form Acer ginnala & cvs - Amur Maple	472.34	
32 93 43 00-0005	EA		10' Clump Form Acer ginnala & cvs - Amur Maple	547.91	
32 93 43 00-0006	EA		12' Clump Form Acer ginnala & cvs - Amur Maple	623.48	
32 93 43 00-0007	EA		14' Clump Form Acer ginnala & cvs - Amur Maple	736.85	
32 93 43 00-0008	EA		1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	208.83	
32 93 43 00-0009	EA		2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,209.18	
32 93 43 00-0010	EA		2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,511.48	
32 93 43 00-0011	EA		5' Clump Form Acer griseum - Paperbark Maple	302.30	
32 93 43 00-0012	EA		1-1/2" Caliper Aesculus californica - California Buckeye	755.74	
32 93 43 00-0013	EA		2" Caliper Aesculus californica - California Buckeye	982.46	
32 93 43 00-0014	EA		2-1/2" Caliper Aesculus californica - California Buckeye	1,133.61	
32 93 43 00-0015	EA		3" Caliper Aesculus californica - California Buckeye	1,284.76	
32 93 43 00-0016	EA		3-1/2" Caliper Aesculus californica - California Buckeye	1,511.48	
32 93 43 00-0017	EA		36" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	84.75	
32 93 43 00-0018	EA		48" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	105.94	
32 93 43 00-0019	EA		60" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	131.36	
32 93 43 00-0020	EA		60" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	105.94	
32 93 43 00-0021	EA		72" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	127.13	
32 93 43 00-0022	EA		7' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	148.31	
32 93 43 00-0023	EA		8' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	169.50	
32 93 43 00-0024	EA		5' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	190.69	
32 93 43 00-0025	EA		6' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	211.88	
32 93 43 00-0026	EA		7' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	243.66	
32 93 43 00-0027	EA		8' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	275.44	
32 93 43 00-0028	EA		9' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	317.82	
32 93 43 00-0029	EA		7' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	243.66	
32 93 43 00-0030	EA		8' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	286.04	
32 93 43 00-0031	EA		9' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	328.41	
32 93 43 00-0032	EA		10' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	360.19	
32 93 43 00-0033	EA		30" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	84.75	
32 93 43 00-0034	EA		48" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	180.10	
32 93 43 00-0035	EA		60" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	233.07	
32 93 43 00-0036	EA		2' To 4' Amelemchier - Juneberry	25.80	
32 93 43 00-0037	EA		4' To 5' Amelemchier - Juneberry	27.06	
32 93 43 00-0038	EA		5' To 6' Amelemchier - Juneberry	32.22	
32 93 43 00-0039	EA		6' To 8' Amelemchier - Juneberry	38.44	
32 93 43 00-0040	EA		6' Cercis occidentalis - Western Redbud	211.63	
32 93 43 00-0041	EA		8' Cercis occidentalis - Western Redbud	291.15	
32 93 43 00-0042	EA		2-1/2" Caliper Cercis occidentalis - Western Redbud	599.68	
32 93 43 00-0043	EA		3" Caliper Cercis occidentalis - Western Redbud	730.04	
32 93 43 00-0044	EA		2' To 3' Magnolia Virginiana - Sweetbay Magnolia	71.61	
32 93 43 00-0045	EA		3' To 4' Magnolia Virginiana - Sweetbay Magnolia	107.42	
32 93 43 00-0046	EA		4' To 5' Magnolia Virginiana - Sweetbay Magnolia	134.27	
32 93 43 00-0047	EA		5' To 6' Magnolia Virginiana - Sweetbay Magnolia	167.24	
32 93 43 00-0048	EA		4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	283.40	
32 93 43 00-0049	EA		5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	377.87	
32 93 43 00-0050	EA		6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	491.23	
32 93 43 00-0051	EA		7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	547.91	
32 93 43 00-0052	EA		8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	661.27	
32 93 43 00-0053	EA		9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	736.85	
32 93 43 00-0054	EA		4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	283.40	
32 93 43 00-0055	EA		5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	377.87	
32 93 43 00-0056	EA		6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	491.23	
32 93 43 00-0057	EA		7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	547.91	
32 93 43 00-0058	EA		8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	661.27	
32 93 43 00-0059	EA		9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	736.85	
32 93 43 00-0060	EA		1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	4.99	
32 93 43 00-0061	EA		5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	21.12	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0062 EA 20 Gallon Prunus subhirtella - Flowering Cherry	265.70	
32 93 43 00-0063 EA 1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry.....	274.65	
32 93 43 00-0064 EA 2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	343.28	
32 93 43 00-0065 EA 3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry.....	716.39	
32 93 43 00-0066 EA 3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	552.14	
32 93 43 00-0067 EA 4" To 5" Caliper Prunus subhirtella - Flowering Cherry.....	1,074.59	
32 93 43 00-0068 EA 5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	68.63	
32 93 43 00-0069 EA 15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	187.98	
32 93 43 00-0070 EA 20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	244.81	
32 93 43 00-0071 EA 5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	77.58	
32 93 43 00-0072 EA 6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	149.19	
32 93 43 00-0073 EA 1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	274.65	
32 93 43 00-0074 EA 2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	328.36	
32 93 43 00-0075 EA 1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry.....	214.98	
32 93 43 00-0076 EA 1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	179.03	
32 93 43 00-0077 EA 1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry.....	262.57	
32 93 43 00-0078 EA 2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry	313.44	
32 93 43 00-0079 EA 2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry	402.95	
32 93 43 00-0080 EA 15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	207.44	
32 93 43 00-0081 EA 20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	259.31	
32 93 43 00-0082 EA 1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	269.68	
32 93 43 00-0083 EA 2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	321.54	
32 93 43 00-0084 EA 2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	435.63	
32 93 43 00-0085 EA 3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	570.47	
32 93 43 00-0086 EA 3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	726.05	
32 93 43 00-0087 EA 15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	207.44	
32 93 43 00-0088 EA 20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	259.31	
32 93 43 00-0089 EA 1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	176.33	
32 93 43 00-0090 EA 2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	269.68	
32 93 43 00-0091 EA 2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	321.26	
32 93 43 00-0092 EA 3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	435.63	
32 93 43 00-0093 EA 3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	570.47	
32 93 43 00-0094 EA 1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	377.87	
32 93 43 00-0095 EA 2" Caliper Pyrus calleryana & cvs - Callery Pear	472.34	
32 93 43 00-0096 EA 2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	585.70	
32 93 43 00-0097 EA 3" Caliper Pyrus calleryana & cvs - Callery Pear	661.27	
32 93 43 00-0098 EA 3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	736.85	
32 93 43 00-0099 EA 4" Caliper Pyrus calleryana & cvs - Callery Pear	944.67	
32 93 43 00-0100 EA 1 Gallon Ribes aureum - Golden Currant.....	4.36	
32 93 43 00-0101 EA 5 Gallon Ribes aureum - Golden Currant.....	12.48	
32 93 43 00-0102 EA 1 Gallon Ribes sanguineum - Red Flowering Currant.....	4.36	
32 93 43 00-0103 EA 5 Gallon Ribes sanguineum - Red Flowering Currant.....	12.48	
32 93 43 00-0104 EA 1 Gallon Ribes viburnifolium - Evergreen Currant.....	4.36	
32 93 43 00-0105 EA 5 Gallon Ribes viburnifolium - Evergreen Currant.....	12.48	
32 93 43 00-0106 EA 6' Brachychiton acerifolius - Flame Tree	583.01	
32 93 43 00-0107 EA 8' Brachychiton acerifolius - Flame Tree	777.34	
32 93 43 00-0108 EA 5 Gallon Celtis Sinensis - Chinese Hackberry	35.65	
32 93 43 00-0109 EA 15 Gallon Celtis Sinensis - Chinese Hackberry	93.98	
32 93 43 00-0110 EA 24" Box Celtis Sinensis - Chinese Hackberry	307.86	
32 93 43 00-0111 EA 36" Box Celtis Sinensis - Chinese Hackberry	899.27	
32 93 43 00-0112 EA 5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	35.65	
32 93 43 00-0113 EA 15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	93.98	
32 93 43 00-0114 EA 24" Box Crataegus phaenopyrum - Washington Hawthorn.....	307.86	
32 93 43 00-0115 EA 36" Box Crataegus phaenopyrum - Washington Hawthorn.....	899.27	
32 93 43 00-0116 EA 1 Gallon Eucalyptus ficifolia - Red-Flowering Gum	10.53	
32 93 43 00-0117 EA 5 Gallon Eucalyptus ficifolia - Red-Flowering Gum	29.17	
32 93 43 00-0118 EA 15 Gallon Eucalyptus ficifolia - Red-Flowering Gum	128.00	
32 93 43 00-0119 EA 24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	307.86	
32 93 43 00-0120 EA 36" Box Eucalyptus ficifolia - Red-Flowering Gum	810.15	
32 93 43 00-0121 EA 15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	79.39	
32 93 43 00-0122 EA 24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	259.25	
32 93 43 00-0123 EA 36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	688.63	
32 93 43 00-0124 EA 48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	1,539.28	
32 93 43 00-0125 EA 5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	22.68	
32 93 43 00-0126 EA 15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	79.39	
32 93 43 00-0127 EA 24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	259.25	
32 93 43 00-0128 EA 36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	688.63	
32 93 43 00-0129 EA 48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	1,539.28	
32 93 43 00-0130 EA 5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	22.68	
32 93 43 00-0131 EA 15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	95.60	
32 93 43 00-0132 EA 24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	259.25	
32 93 43 00-0133 EA 36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	729.14	
32 93 43 00-0134 EA 48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	1,863.34	
32 93 43 00-0135 EA 5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	22.68	
32 93 43 00-0136 EA 15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	95.60	
32 93 43 00-0137 EA 24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	259.25	
32 93 43 00-0138 EA 36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	729.14	
32 93 43 00-0139 EA 48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	1,863.34	
32 93 43 00-0140 EA 5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	22.68	
32 93 43 00-0141 EA 15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	95.60	
32 93 43 00-0142 EA 24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	259.25	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0143	EA		36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	729.14	
32 93 43 00-0144	EA		48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	1,863.34	
32 93 43 00-0145	EA		1 Gallon Pittosporum undulatum - Victorian Box	9.52	
32 93 43 00-0146	EA		5 Gallon Pittosporum undulatum - Victorian Box	20.51	
32 93 43 00-0147	EA		15 Gallon Pittosporum undulatum - Victorian Box	115.74	
32 93 43 00-0148	EA		24" Box Pittosporum undulatum - Victorian Box	278.37	
32 93 43 00-0149	EA		36" Box Pittosporum undulatum - Victorian Box	805.80	
32 93 43 00-0150	EA		48" Box Pittosporum undulatum - Victorian Box	1,831.38	
32 93 43 00-0151	EA		15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	80.93	
32 93 43 00-0152	EA		24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	291.57	

32 93 43 00-0153

Deciduous Shade Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0154	EA		3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple.....	178.67	
32 93 43 00-0155	EA		4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple.....	219.02	
32 93 43 00-0156	EA		4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple.....	285.30	
32 93 43 00-0157	EA		5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple.....	369.83	
32 93 43 00-0158	EA		2' To 2-1/2' Acer palmatum - Japanese Maple.....	18.85	
32 93 43 00-0159	EA		4' To 5' Acer palmatum - Japanese Maple.....	39.58	
32 93 43 00-0160	EA		5' To 6' Acer palmatum - Japanese Maple.....	51.82	
32 93 43 00-0161	EA		6' To 7' Acer palmatum - Japanese Maple.....	94.23	
32 93 43 00-0162	EA		7' To 8' Acer palmatum - Japanese Maple.....	131.92	
32 93 43 00-0163	EA		8' To 10' Acer palmatum - Japanese Maple.....	169.61	
32 93 43 00-0164	EA		10' To 12' Acer palmatum - Japanese Maple.....	226.14	
32 93 43 00-0165	EA		2" Caliper Acer platanoides & cvs - Norway Maple.....	96.06	
32 93 43 00-0166	EA		2" Caliper Acer platanoides & cvs - Norway Maple.....	116.94	
32 93 43 00-0167	EA		3" Caliper Acer platanoides & cvs - Norway Maple.....	150.35	
32 93 43 00-0168	EA		3-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	175.41	
32 93 43 00-0169	EA		4" Caliper Acer platanoides & cvs - Norway Maple.....	187.94	
32 93 43 00-0170	EA		4-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	204.65	
32 93 43 00-0171	EA		5" Caliper Acer platanoides & cvs - Norway Maple.....	229.71	
32 93 43 00-0172	EA		2" Caliper Acer rubrum & cvs - Red Maple.....	91.88	
32 93 43 00-0173	EA		2-1/2" Caliper Acer rubrum & cvs - Red Maple.....	116.94	
32 93 43 00-0174	EA		3" Caliper Acer rubrum & cvs - Red Maple.....	150.35	
32 93 43 00-0175	EA		3-1/2" Caliper Acer rubrum & cvs - Red Maple.....	183.77	
32 93 43 00-0176	EA		4" Caliper Acer rubrum & cvs - Red Maple.....	208.83	
32 93 43 00-0177	EA		4-1/2" Caliper Acer rubrum & cvs - Red Maple.....	242.24	
32 93 43 00-0178	EA		5" Caliper Acer rubrum & cvs - Red Maple.....	271.47	
32 93 43 00-0179	EA		8' Clump Form Acer rubrum & cvs - Red Maple.....	112.77	
32 93 43 00-0180	EA		10' Clump Form Acer rubrum & cvs - Red Maple.....	150.35	
32 93 43 00-0181	EA		12' Clump Form Acer rubrum & cvs - Red Maple.....	175.41	
32 93 43 00-0182	EA		14' Clump Form Acer rubrum & cvs - Red Maple.....	200.47	
32 93 43 00-0183	EA		16' Clump Form Acer rubrum & cvs - Red Maple.....	225.53	
32 93 43 00-0184	EA		18' Clump Form Acer rubrum & cvs - Red Maple.....	250.59	
32 93 43 00-0185	EA		2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	146.18	
32 93 43 00-0186	EA		2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	162.88	
32 93 43 00-0187	EA		3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	183.77	
32 93 43 00-0188	EA		3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	208.83	
32 93 43 00-0189	EA		4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	250.59	
32 93 43 00-0190	EA		2" Caliper Betula nigra - River Birch.....	104.41	
32 93 43 00-0191	EA		2-1/2" Caliper Betula nigra - River Birch.....	118.24	
32 93 43 00-0192	EA		3" Caliper Betula nigra - River Birch.....	133.65	
32 93 43 00-0193	EA		3-1/2" Caliper Betula nigra - River Birch.....	167.06	
32 93 43 00-0194	EA		4" Caliper Betula nigra - River Birch.....	187.94	
32 93 43 00-0195	EA		4-1/2" Caliper Betula nigra - River Birch.....	208.83	
32 93 43 00-0196	EA		5" Caliper Betula nigra - River Birch.....	229.71	
32 93 43 00-0197	EA		8' Clump Form Betula nigra - River Birch.....	96.06	
32 93 43 00-0198	EA		10' Clump Form Betula nigra - River Birch.....	108.59	
32 93 43 00-0199	EA		12' Clump Form Betula nigra - River Birch.....	125.30	
32 93 43 00-0200	EA		14' Clump Form Betula nigra - River Birch.....	146.18	
32 93 43 00-0201	EA		16' Clump Form Betula nigra - River Birch.....	167.06	
32 93 43 00-0202	EA		12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	125.30	
32 93 43 00-0203	EA		14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	150.35	
32 93 43 00-0204	EA		16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	175.41	
32 93 43 00-0205	EA		18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	208.83	
32 93 43 00-0206	EA		20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	217.18	
32 93 43 00-0207	EA		2" Caliper Carpinus betulus & cvs - European Hornbeam.....	167.06	
32 93 43 00-0208	EA		2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	187.94	
32 93 43 00-0209	EA		3" Caliper Carpinus betulus & cvs - European Hornbeam.....	217.18	
32 93 43 00-0210	EA		3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	263.12	
32 93 43 00-0211	EA		6' Clump Form Carpinus betulus & cvs - European Hornbeam.....	75.18	
32 93 43 00-0212	EA		7' Clump Form Carpinus betulus & cvs - European Hornbeam.....	104.41	
32 93 43 00-0213	EA		8' Clump Form Carpinus betulus & cvs - European Hornbeam.....	129.47	
32 93 43 00-0214	EA		2" Caliper Catalpa speciosa - Western Catalpa.....	91.88	
32 93 43 00-0215	EA		2-1/2" Caliper Catalpa speciosa - Western Catalpa.....	125.30	
32 93 43 00-0216	EA		3" Caliper Catalpa speciosa - Western Catalpa.....	162.88	
32 93 43 00-0217	EA		3-1/2" Caliper Catalpa speciosa - Western Catalpa.....	196.30	
32 93 43 00-0218	EA		4" Caliper Catalpa speciosa - Western Catalpa.....	225.53	
32 93 43 00-0219	EA		8' Clump Form Corylus cornuta californica - Western Filbert.....	116.94	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0220	EA	10' Clump Form <i>Corylus cornuta californica</i> - Western Filbert.....	142.00	
32 93 43 00-0221	EA	12' Clump Form <i>Corylus cornuta californica</i> - Western Filbert.....	167.06	
32 93 43 00-0222	EA	1-1/2" Caliper <i>Diospyros</i> - Persimmon.....	75.18	
32 93 43 00-0223	EA	2" Caliper <i>Diospyros</i> - Persimmon.....	91.88	
32 93 43 00-0224	EA	2-1/2" Caliper <i>Diospyros</i> - Persimmon.....	116.94	
32 93 43 00-0225	EA	3" Caliper <i>Diospyros</i> - Persimmon.....	146.18	
32 93 43 00-0226	EA	3-1/2" Caliper <i>Diospyros</i> - Persimmon.....	175.41	
32 93 43 00-0227	EA	2" Caliper <i>Fagus sylvatica</i> & cvs - European Beech.....	187.94	
32 93 43 00-0228	EA	2-1/2" Caliper <i>Fagus sylvatica</i> & cvs - European Beech.....	225.53	
32 93 43 00-0229	EA	3" Caliper <i>Fagus sylvatica</i> & cvs - European Beech.....	271.47	
32 93 43 00-0230	EA	3-1/2" Caliper <i>Fagus sylvatica</i> & cvs - European Beech.....	300.71	
32 93 43 00-0231	EA	4" Caliper <i>Fagus sylvatica</i> & cvs - European Beech.....	355.00	
32 93 43 00-0232	EA	4-1/2" Caliper <i>Fagus sylvatica</i> & cvs - European Beech.....	459.42	
32 93 43 00-0233	EA	5" Caliper <i>Fagus sylvatica</i> & cvs - European Beech.....	542.95	
32 93 43 00-0234	EA	2" Caliper <i>Fraxinus americana</i> & cvs - White Ash.....	104.41	
32 93 43 00-0235	EA	2-1/2" Caliper <i>Fraxinus americana</i> & cvs - White Ash.....	125.30	
32 93 43 00-0236	EA	3" Caliper <i>Fraxinus americana</i> & cvs - White Ash.....	158.71	
32 93 43 00-0237	EA	3-1/2" Caliper <i>Fraxinus americana</i> & cvs - White Ash.....	192.12	
32 93 43 00-0238	EA	4" Caliper <i>Fraxinus americana</i> & cvs - White Ash.....	225.53	
32 93 43 00-0239	EA	4-1/2" Caliper <i>Fraxinus americana</i> & cvs - White Ash.....	250.59	
32 93 43 00-0240	EA	5" Caliper <i>Fraxinus americana</i> & cvs - White Ash.....	292.36	
32 93 43 00-0241	EA	1-1/2" Caliper <i>Ginkgo biloba</i> & cvs - Ginkgo (Maidenhair Tree).....	146.18	
32 93 43 00-0242	EA	2" Caliper <i>Ginkgo biloba</i> & cvs - Ginkgo (Maidenhair Tree).....	162.88	
32 93 43 00-0243	EA	2-1/2" Caliper <i>Ginkgo biloba</i> & cvs - Ginkgo (Maidenhair Tree).....	183.77	
32 93 43 00-0244	EA	3" Caliper <i>Ginkgo biloba</i> & cvs - Ginkgo (Maidenhair Tree).....	204.65	
32 93 43 00-0245	EA	3-1/2" Caliper <i>Ginkgo biloba</i> & cvs - Ginkgo (Maidenhair Tree).....	229.71	
32 93 43 00-0246	EA	4" Caliper <i>Ginkgo biloba</i> & cvs - Ginkgo (Maidenhair Tree).....	250.59	
32 93 43 00-0247	EA	4-1/2" Caliper <i>Ginkgo biloba</i> & cvs - Ginkgo (Maidenhair Tree).....	375.89	
32 93 43 00-0248	EA	5" Caliper <i>Ginkgo biloba</i> & cvs - Ginkgo (Maidenhair Tree).....	417.65	
32 93 43 00-0249	EA	2" Caliper <i>Gleditsia triacanthos inermis</i> & cvs - Thornless Common Honeylocust.....	100.24	
32 93 43 00-0250	EA	2-1/2" Caliper <i>Gleditsia triacanthos inermis</i> & cvs - Thornless Common Honeylocust.....	125.30	
32 93 43 00-0251	EA	3" Caliper <i>Gleditsia triacanthos inermis</i> & cvs - Thornless Common Honeylocust.....	150.35	
32 93 43 00-0252	EA	3-1/2" Caliper <i>Gleditsia triacanthos inermis</i> & cvs - Thornless Common Honeylocust.....	175.41	
32 93 43 00-0253	EA	4" Caliper <i>Gleditsia triacanthos inermis</i> & cvs - Thornless Common Honeylocust.....	200.47	
32 93 43 00-0254	EA	4-1/2" Caliper <i>Gleditsia triacanthos inermis</i> & cvs - Thornless Common Honeylocust.....	225.53	
32 93 43 00-0255	EA	5" Caliper <i>Gleditsia triacanthos inermis</i> & cvs - Thornless Common Honeylocust.....	267.30	
32 93 43 00-0256	EA	10' - 12' <i>Bursera Simaruba</i> - Gumbo Limbo.....	52.83	
32 93 43 00-0257	EA	12' - 14' <i>Bursera Simaruba</i> - Gumbo Limbo.....	62.44	
32 93 43 00-0258	EA	14' - 16' <i>Bursera Simaruba</i> - Gumbo Limbo.....	86.45	
32 93 43 00-0259	EA	17' - 18' <i>Bursera Simaruba</i> - Gumbo Limbo.....	112.39	
32 93 43 00-0260	EA	19' - 20' <i>Bursera Simaruba</i> - Gumbo Limbo.....	124.88	
32 93 43 00-0261	EA	21' - 22' <i>Bursera Simaruba</i> - Gumbo Limbo.....	147.93	
32 93 43 00-0262	EA	1-1/2" Caliper <i>Juglans californica</i> - California Walnut.....	100.24	
32 93 43 00-0263	EA	2" Caliper <i>Juglans californica</i> - California Walnut.....	116.94	
32 93 43 00-0264	EA	2-1/2" Caliper <i>Juglans californica</i> - California Walnut.....	146.18	
32 93 43 00-0265	EA	3" Caliper <i>Juglans californica</i> - California Walnut.....	183.77	
32 93 43 00-0266	EA	3-1/2" Caliper <i>Juglans californica</i> - California Walnut.....	225.53	
32 93 43 00-0267	EA	4" Caliper <i>Juglans californica</i> - California Walnut.....	271.47	
32 93 43 00-0268	EA	4-1/2" Caliper <i>Juglans californica</i> - California Walnut.....	313.24	
32 93 43 00-0269	EA	5" Caliper <i>Juglans californica</i> - California Walnut.....	355.00	
32 93 43 00-0270	EA	5 Gallon <i>Koelreuteria Paniculata</i> - Goldenrain Tree.....	11.31	
32 93 43 00-0271	EA	15 Gallon <i>Koelreuteria Paniculata</i> - Goldenrain Tree.....	28.27	
32 93 43 00-0272	EA	20 Gallon <i>Koelreuteria Paniculata</i> - Goldenrain Tree.....	56.54	
32 93 43 00-0273	EA	55 Gallon <i>Koelreuteria Paniculata</i> - Goldenrain Tree.....	73.50	
32 93 43 00-0274	EA	1-1/2" To 2" Caliper <i>Koelreuteria Paniculata</i> - Goldenrain Tree.....	53.71	
32 93 43 00-0275	EA	2" To 2-1/2" Caliper <i>Koelreuteria Paniculata</i> - Goldenrain Tree.....	65.02	
32 93 43 00-0276	EA	2-1/2" To 3" Caliper <i>Koelreuteria Paniculata</i> - Goldenrain Tree.....	90.46	
32 93 43 00-0277	EA	1-1/2" Caliper <i>Liquidambar styraciflua</i> - American Sweetgum.....	133.65	
32 93 43 00-0278	EA	2" Caliper <i>Liquidambar styraciflua</i> - American Sweetgum.....	167.06	
32 93 43 00-0279	EA	2-1/2" Caliper <i>Liquidambar styraciflua</i> - American Sweetgum.....	208.83	
32 93 43 00-0280	EA	3" Caliper <i>Liquidambar styraciflua</i> - American Sweetgum.....	250.59	
32 93 43 00-0281	EA	3-1/2" Caliper <i>Liquidambar styraciflua</i> - American Sweetgum.....	292.36	
32 93 43 00-0282	EA	1-1/2" Caliper <i>Liriodendron tulipifera</i> - Tulip Tree.....	133.65	
32 93 43 00-0283	EA	2" Caliper <i>Liriodendron tulipifera</i> - Tulip Tree.....	183.77	
32 93 43 00-0284	EA	2-1/2" Caliper <i>Liriodendron tulipifera</i> - Tulip Tree.....	217.18	
32 93 43 00-0285	EA	3" Caliper <i>Liriodendron tulipifera</i> - Tulip Tree.....	250.59	
32 93 43 00-0286	EA	3-1/2" Caliper <i>Liriodendron tulipifera</i> - Tulip Tree.....	284.00	
32 93 43 00-0287	EA	8' Clump Form <i>Liriodendron tulipifera</i> - Tulip Tree.....	100.24	
32 93 43 00-0288	EA	10' Clump Form <i>Liriodendron tulipifera</i> - Tulip Tree.....	179.59	
32 93 43 00-0289	EA	12' Clump Form <i>Liriodendron tulipifera</i> - Tulip Tree.....	217.18	
32 93 43 00-0290	EA	1-1/2" Caliper <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	133.65	
32 93 43 00-0291	EA	2" Caliper <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	167.06	
32 93 43 00-0292	EA	2-1/2" Caliper <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	208.83	
32 93 43 00-0293	EA	3" Caliper <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	250.59	
32 93 43 00-0294	EA	3-1/2" Caliper <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	292.36	
32 93 43 00-0295	EA	4' Clump Form <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	58.47	
32 93 43 00-0296	EA	5' Clump Form <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	66.82	
32 93 43 00-0297	EA	6' Clump Form <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	79.35	
32 93 43 00-0298	EA	7' Clump Form <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	100.24	
32 93 43 00-0299	EA	8' Clump Form <i>Nyssa sylvatica</i> - Black Tupelo Sour Gum.....	125.30	
32 93 43 00-0300	EA	30" Box <i>Platanus Occidentalis</i> - Buttonwood Sycamore.....	181.45	

**Exterior Improvements****32**

Planting 32 90

Plants 32 93

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0301 EA 36" Box Platanus Occidentalis - Buttonwood Sycamore.....	263.93	
32 93 43 00-0302 EA 42" Box Platanus occidentalis - Buttonwood Sycamore.....	392.61	
32 93 43 00-0303 EA 1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	60.71	
32 93 43 00-0304 EA 2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	72.58	
32 93 43 00-0305 EA 2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore.....	98.97	
32 93 43 00-0306 EA 3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	120.11	
32 93 43 00-0307 EA 8' To 10' Platanus occidentalis - Green Or Silver Buttonwood.....	49.95	
32 93 43 00-0308 EA 10' To 12' Platanus occidentalis - Green Or Silver Buttonwood.....	62.44	
32 93 43 00-0309 EA 12' To 14' Platanus occidentalis - Green Or Silver Buttonwood.....	110.47	
32 93 43 00-0310 EA 16' To 18' Platanus occidentalis - Green Or Silver Buttonwood.....	158.50	
32 93 43 00-0311 EA 2" Caliper Platanus x acerifolia & cvs - London Planetree.....	100.24	
32 93 43 00-0312 EA 2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	121.12	
32 93 43 00-0313 EA 3" Caliper Platanus x acerifolia & cvs - London Planetree.....	146.18	
32 93 43 00-0314 EA 3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	175.41	
32 93 43 00-0315 EA 4" Caliper Platanus x acerifolia & cvs - London Planetree.....	208.83	
32 93 43 00-0316 EA 2" Caliper Populus alba & cvs - White Poplar.....	100.24	
32 93 43 00-0317 EA 2-1/2" Caliper Populus alba & cvs - White Poplar.....	116.94	
32 93 43 00-0318 EA 3" Caliper Populus alba & cvs - White Poplar.....	133.65	
32 93 43 00-0319 EA 3-1/2" Caliper Populus alba & cvs - White Poplar.....	158.71	
32 93 43 00-0320 EA 4" Caliper Populus alba & cvs - White Poplar.....	175.41	
32 93 43 00-0321 EA 4-1/2" Caliper Populus alba & cvs - White Poplar.....	200.47	
32 93 43 00-0322 EA 2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	91.88	
32 93 43 00-0323 EA 2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	121.12	
32 93 43 00-0324 EA 3" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	146.18	
32 93 43 00-0325 EA 3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	175.41	
32 93 43 00-0326 EA 4" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	208.83	
32 93 43 00-0327 EA 2" Caliper Quercus palustris - Pin Oak.....	91.88	
32 93 43 00-0328 EA 2-1/2" Caliper Quercus palustris - Pin Oak.....	125.30	
32 93 43 00-0329 EA 3" Caliper Quercus palustris - Pin Oak.....	162.88	
32 93 43 00-0330 EA 3-1/2" Caliper Quercus palustris - Pin Oak.....	187.94	
32 93 43 00-0331 EA 4" Caliper Quercus palustris - Pin Oak.....	217.18	
32 93 43 00-0332 EA 4-1/2" Caliper Quercus palustris - Pin Oak.....	246.41	
32 93 43 00-0333 EA 5" Caliper Quercus palustris - Pin Oak.....	271.47	
32 93 43 00-0334 EA 2" Caliper Quercus shumardii - Shumard Oak.....	142.00	
32 93 43 00-0335 EA 2-1/2" Caliper Quercus shumardii - Shumard Oak.....	179.59	
32 93 43 00-0336 EA 3" Caliper Quercus shumardii - Shumard Oak.....	208.83	
32 93 43 00-0337 EA 3-1/2" Caliper Quercus shumardii - Shumard Oak.....	250.59	
32 93 43 00-0338 EA 4" Caliper Quercus shumardii - Shumard Oak.....	292.36	
32 93 43 00-0339 EA 4-1/2" Caliper Quercus shumardii - Shumard Oak.....	334.12	
32 93 43 00-0340 EA 5" Caliper Quercus shumardii - Shumard Oak.....	375.89	
32 93 43 00-0341 EA 24" Box Salix babylonica - Weeping Willow.....	105.57	
32 93 43 00-0342 EA 36" Box Salix babylonica - Weeping Willow.....	263.93	
32 93 43 00-0343 EA 1-1/2" To 2" Caliper Salix babylonica - Weeping Willow.....	60.71	
32 93 43 00-0344 EA 2" To 2-1/2" Caliper Salix babylonica - Weeping Willow.....	72.58	
32 93 43 00-0345 EA 2-1/2" To 3" Caliper Salix babylonica - Weeping Willow.....	79.18	
32 93 43 00-0346 EA 2' Thuja occidentalis - American Arborvitae.....	14.31	
32 93 43 00-0347 EA 2-1/2' Thuja occidentalis - American Arborvitae.....	15.47	
32 93 43 00-0348 EA 3' Thuja occidentalis - American Arborvitae.....	22.09	
32 93 43 00-0349 EA 4' Thuja occidentalis - American Arborvitae.....	30.36	
32 93 43 00-0350 EA 5' Thuja occidentalis - American Arborvitae.....	42.27	
32 93 43 00-0351 EA 6' Thuja occidentalis - American Arborvitae.....	58.60	
32 93 43 00-0352 EA 7' Thuja occidentalis - American Arborvitae.....	71.08	
32 93 43 00-0353 EA 8' Thuja occidentalis - American Arborvitae.....	99.90	
32 93 43 00-0354 EA 2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	105.04	
32 93 43 00-0355 EA 2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	126.88	
32 93 43 00-0356 EA 3" Caliper Tilia cordata & cvs - Littleleaf Linden.....	146.18	
32 93 43 00-0357 EA 3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	179.59	
32 93 43 00-0358 EA 4" Caliper Tilia cordata & cvs - Littleleaf Linden.....	204.65	
32 93 43 00-0359 EA 4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	229.71	
32 93 43 00-0360 EA 5" Caliper Tilia cordata & cvs - Littleleaf Linden.....	254.77	
32 93 43 00-0361 EA 2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	116.94	
32 93 43 00-0362 EA 2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	133.65	
32 93 43 00-0363 EA 3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	146.18	
32 93 43 00-0364 EA 3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	158.71	
32 93 43 00-0365 EA 4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	175.41	
32 93 43 00-0366 EA 4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	208.83	
32 93 43 00-0367 EA 5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	246.41	
32 93 43 00-0368 EA 2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	133.65	
32 93 43 00-0369 EA 2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	146.18	
32 93 43 00-0370 EA 3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	158.71	
32 93 43 00-0371 EA 3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	175.41	
32 93 43 00-0372 EA 4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	208.83	
32 93 43 00-0373 EA 4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	246.41	
32 93 43 00-0374 EA 5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	284.00	
32 93 43 00-0375 EA 2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	133.65	
32 93 43 00-0376 EA 2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm.....	146.18	
32 93 43 00-0377 EA 3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	158.71	
32 93 43 00-0378 EA 3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	175.41	
32 93 43 00-0379 EA 4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	208.83	
32 93 43 00-0380 EA 4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	246.41	
32 93 43 00-0381 EA 5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	284.00	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 93 43 00-0382****Evergreen Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0383	EA	2' To 3' Cedrus atlantica - Blue Atlas Cedar	17.00
32 93 43 00-0384	EA	3' To 4' Cedrus atlantica - Blue Atlas Cedar	27.33
32 93 43 00-0385	EA	4' To 5' Cedrus atlantica - Blue Atlas Cedar	40.61
32 93 43 00-0386	EA	5' To 6' Cedrus atlantica - Blue Atlas Cedar	54.63
32 93 43 00-0387	EA	7' To 8' Cedrus atlantica - Blue Atlas Cedar	77.57
32 93 43 00-0388	EA	6' To 8' Cedrus deodara - Indian Cedar	70.18
32 93 43 00-0389	EA	8' To 10' Cedrus deodara - Indian Cedar	81.26
32 93 43 00-0390	EA	10' To 12' Cedrus deodara - Indian Cedar	110.79
32 93 43 00-0391	EA	12' To 14' Cedrus deodara - Indian Cedar	144.02
32 93 43 00-0392	EA	14' To 16' Cedrus deodara - Indian Cedar	184.67
32 93 43 00-0393	EA	15' To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	21.94
32 93 43 00-0394	EA	18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	32.91
32 93 43 00-0395	EA	2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	51.19
32 93 43 00-0396	EA	3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	87.75
32 93 43 00-0397	EA	5 Gallon Cupressocyparis leylandii - Leyland Cypress	12.07
32 93 43 00-0398	EA	15 Gallon Cupressocyparis leylandii - Leyland Cypress	48.28
32 93 43 00-0399	EA	4' To 5' Cupressocyparis leylandii - Leyland Cypress	21.12
32 93 43 00-0400	EA	5' To 6' Cupressocyparis leylandii - Leyland Cypress	27.16
32 93 43 00-0401	EA	6' To 7' Cupressocyparis leylandii - Leyland Cypress	42.24
32 93 43 00-0402	EA	24" Box Cupressocyparis leylandii - Leyland Cypress	102.59
32 93 43 00-0403	EA	1 Gallon Cupressus macrocarpa - Monterey Cypress	2.20
32 93 43 00-0404	EA	5 Gallon Cupressus macrocarpa - Monterey Cypress	9.90
32 93 43 00-0405	EA	15 Gallon Cupressus macrocarpa - Monterey Cypress	33.01
32 93 43 00-0406	EA	5 Gallon Cupressus sempervirens - Italian Cypress	11.36
32 93 43 00-0407	EA	15 Gallon Cupressus sempervirens - Italian Cypress	31.24
32 93 43 00-0408	EA	1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	3.34
32 93 43 00-0409	EA	2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	6.53
32 93 43 00-0410	EA	3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	8.09
32 93 43 00-0411	EA	5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	9.51
32 93 43 00-0412	EA	1 Gallon Juniperus - Blue Sargent Juniper	3.34
32 93 43 00-0413	EA	2 Gallon Juniperus - Blue Sargent Juniper	6.53
32 93 43 00-0414	EA	3 Gallon Juniperus - Blue Sargent Juniper	8.09
32 93 43 00-0415	EA	5 Gallon Juniperus - Blue Sargent Juniper	9.51
32 93 43 00-0416	EA	5 Gallon Juniperus - Compact Pfitzer Juniper	9.51
32 93 43 00-0417	EA	15" To 18" Juniperus - Compact Pfitzer Juniper	10.29
32 93 43 00-0418	EA	18" To 24" Juniperus - Compact Pfitzer Juniper	12.42
32 93 43 00-0419	EA	2' To 2 1/2' Juniperus - Compact Pfitzer Juniper	18.46
32 93 43 00-0420	EA	2-1/2' To 3' Juniperus - Compact Pfitzer Juniper	21.37
32 93 43 00-0421	EA	5' To 6' Juniperus - Fairview Juniper	31.83
32 93 43 00-0422	EA	1 Gallon Juniperus - Hollywood Juniper	4.26
32 93 43 00-0423	EA	5 Gallon Juniperus - Hollywood Juniper	11.86
32 93 43 00-0424	EA	15 Gallon Juniperus - Hollywood Juniper	50.27
32 93 43 00-0425	EA	4' To 5' Juniperus - Hollywood Juniper	33.23
32 93 43 00-0426	EA	5' To 6' Juniperus - Hollywood Juniper	42.81
32 93 43 00-0427	EA	1 Gallon Juniperus - Parson's Juniper	3.34
32 93 43 00-0428	EA	2 Gallon Juniperus - Parson's Juniper	6.60
32 93 43 00-0429	EA	3 Gallon Juniperus - Parson's Juniper	8.16
32 93 43 00-0430	EA	5 Gallon Juniperus - Parson's Juniper	9.66
32 93 43 00-0431	EA	5 Gallon Juniperus - Skyrocket Juniper	11.93
32 93 43 00-0432	EA	15 Gallon Juniperus - Skyrocket Juniper	50.76
32 93 43 00-0433	EA	2' To 3' Juniperus - Skyrocket Juniper	17.89
32 93 43 00-0434	EA	3' To 4' Juniperus - Skyrocket Juniper	25.35
32 93 43 00-0435	EA	4' To 5' Juniperus - Skyrocket Juniper	33.58
32 93 43 00-0436	EA	5' To 6' Juniperus - Skyrocket Juniper	43.31
32 93 43 00-0437	EA	6' To 8' Juniperus - Skyrocket Juniper	55.95
32 93 43 00-0438	EA	1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	3.34
32 93 43 00-0439	EA	2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	6.57
32 93 43 00-0440	EA	3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	8.06
32 93 43 00-0441	EA	5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	9.55
32 93 43 00-0442	EA	1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	3.34
32 93 43 00-0443	EA	2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	6.57
32 93 43 00-0444	EA	3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	8.06
32 93 43 00-0445	EA	5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	9.55
32 93 43 00-0446	EA	3' Pinus sylvestris - Scotch Pine	31.01
32 93 43 00-0447	EA	4' Pinus sylvestris - Scotch Pine	43.05
32 93 43 00-0448	EA	5' Pinus sylvestris - Scotch Pine	60.42
32 93 43 00-0449	EA	6' Pinus sylvestris - Scotch Pine	83.83
32 93 43 00-0450	EA	7' Pinus sylvestris - Scotch Pine	102.72
32 93 43 00-0451	EA	8' Pinus sylvestris - Scotch Pine	145.01
32 93 43 00-0452	EA	9' Pinus sylvestris - Scotch Pine	184.10
32 93 43 00-0453	EA	10' Pinus sylvestris - Scotch Pine	212.42
32 93 43 00-0454	EA	12' Pinus sylvestris - Scotch Pine	250.18
32 93 43 00-0455	EA	14' Pinus sylvestris - Scotch Pine	283.23
32 93 43 00-0456	EA	16' Pinus sylvestris - Scotch Pine	330.43
32 93 43 00-0457	EA	1 Gallon Pinus thunbergiana - Japanese Black Pine	3.34
32 93 43 00-0458	EA	5 Gallon Pinus thunbergiana - Japanese Black Pine	11.86

**Exterior Improvements****32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0459 EA 15 Gallon Pinus thunbergiana - Japanese Black Pine	38.41	
32 93 43 00-0460 EA 2' To 3' Pinus thunbergiana - Japanese Black Pine	16.26	
32 93 43 00-0461 EA 3' To 4' Pinus thunbergiana - Japanese Black Pine	20.66	
32 93 43 00-0462 EA 4' To 5' Pinus thunbergiana - Japanese Black Pine	31.03	
32 93 43 00-0463 EA 5' To 6' Pinus thunbergiana - Japanese Black Pine	60.56	
32 93 43 00-0464 EA 6' To 7' Pinus Thunbergiana - Japanese Black Pine	67.95	
32 93 43 00-0465 EA 7' To 8' Pinus thunbergiana - Japanese Black Pine	84.91	
32 93 43 00-0466 EA 6' Pinus flexilis & cvs - Limber Pine	118.01	
32 93 43 00-0467 EA 7' Pinus flexilis & cvs - Limber Pine	136.89	
32 93 43 00-0468 EA 8' Pinus flexilis & cvs - Limber Pine	169.94	
32 93 43 00-0469 EA 9' Pinus flexilis & cvs - Limber Pine	207.70	
32 93 43 00-0470 EA 10' Pinus flexilis & cvs - Limber Pine	236.02	
32 93 43 00-0471 EA 1 Gallon Pinus mugo - Mugho Pine	4.40	
32 93 43 00-0472 EA 2 Gallon Pinus mugo - Mugho Pine	9.30	
32 93 43 00-0473 EA 3 Gallon Pinus mugo - Mugho Pine	11.64	
32 93 43 00-0474 EA 5 Gallon Pinus mugo - Mugho Pine	14.77	
32 93 43 00-0475 EA 12" To 15" Spread Pinus mugo - Mugho Pine	11.43	
32 93 43 00-0476 EA 15" To 18" Spread Pinus mugo - Mugho Pine	13.63	
32 93 43 00-0477 EA 18" To 24" Spread Pinus mugo - Mugho Pine	18.46	
32 93 43 00-0478 EA 2' To 2-1/2' Spread Pinus mugo - Mugho Pine	25.84	
32 93 43 00-0479 EA 2-1/2' To 3' Spread Pinus mugo - Mugho Pine	33.23	
32 93 43 00-0480 EA 3' To 3-1/2' Spread Pinus mugo - Mugho Pine	41.39	
32 93 43 00-0481 EA 3-1/2' To 4' Spread Pinus mugo - Mugho Pine	50.27	
32 93 43 00-0482 EA 6' Pinus nigra - Austrian Pine	118.01	
32 93 43 00-0483 EA 7' Pinus nigra - Austrian Pine	141.61	
32 93 43 00-0484 EA 8' Pinus nigra - Austrian Pine	184.10	
32 93 43 00-0485 EA 9' Pinus nigra - Austrian Pine	212.42	
32 93 43 00-0486 EA 10' Pinus nigra - Austrian Pine	250.18	
32 93 43 00-0487 EA 12' Pinus nigra - Austrian Pine	283.23	
32 93 43 00-0488 EA 14' Pinus nigra - Austrian Pine	316.27	
32 93 43 00-0489 EA 16' Pinus nigra - Austrian Pine	358.75	
32 93 43 00-0490 EA 1 Gallon Podocarpus - Chinese Podocarpus	2.20	
32 93 43 00-0491 EA 3 Gallon Podocarpus - Chinese Podocarpus	5.11	
32 93 43 00-0492 EA 7 Gallon Podocarpus - Chinese Podocarpus	14.77	
32 93 43 00-0493 EA 15 Gallon Podocarpus - Chinese Podocarpus	24.00	
32 93 43 00-0494 EA 4' To 5' Podocarpus - Chinese Podocarpus	36.92	
32 93 43 00-0495 EA 5' To 6' Sequoia sempervirens - Dawn Redwood	46.15	
32 93 43 00-0496 EA 6' To 8' Sequoia sempervirens - Dawn Redwood	62.30	
32 93 43 00-0497 EA 8' To 10' Sequoia sempervirens - Dawn Redwood	76.15	
32 93 43 00-0498 EA 3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae	8.90	
32 93 43 00-0499 EA 3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae	19.97	
32 93 43 00-0500 Palm And Subtropical Trees ^(32 93 43)		
Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.		
32 93 43 00-0501 EA 9' Ptychosperma elegans - Alexander Palm, Solitaire Palm	132.11	
32 93 43 00-0502 EA 11' Ptychosperma elegans - Alexander Palm, Solitaire Palm	220.19	
32 93 43 00-0503 EA 15' Ptychosperma elegans - Alexander Palm, Solitaire Palm	334.68	
32 93 43 00-0504 EA 17' Ptychosperma elegans - Alexander Palm, Solitaire Palm	378.72	
32 93 43 00-0505 EA 20' Ptychosperma elegans - Alexander Palm, Solitaire Palm	440.38	
32 93 43 00-0506 EA 4' To 5' Bauninia blakeana - Hong Kong Orchid	378.72	
32 93 43 00-0507 EA 6' Bauninia blakeana - Hong Kong Orchid	449.18	
32 93 43 00-0508 EA 8' Bauninia blakeana - Hong Kong Orchid	598.91	
32 93 43 00-0509 EA 10' Bauninia blakeana - Hong Kong Orchid	748.64	
32 93 43 00-0510 EA 4' To 5' Acacia baileyana - Bailey Acacia	192.12	
32 93 43 00-0511 EA 6' Acacia baileyana - Bailey Acacia	230.54	
32 93 43 00-0512 EA 8' Acacia baileyana - Bailey Acacia	268.97	
32 93 43 00-0513 EA 10' Acacia baileyana - Bailey Acacia	336.21	
32 93 43 00-0514 EA 6' Agonis flexuosa - Peppermint Tree	115.27	
32 93 43 00-0515 EA 8' Agonis flexuosa - Peppermint Tree	144.09	
32 93 43 00-0516 EA 10' Agonis flexuosa - Peppermint Tree	172.91	
32 93 43 00-0517 EA 24" Box Agonis flexuosa - Peppermint Tree	143.61	
32 93 43 00-0518 EA 6' Bauhinia purpurea - Purple Orchid Tree	475.60	
32 93 43 00-0519 EA 8' Bauhinia purpurea - Purple Orchid Tree	634.14	
32 93 43 00-0520 EA 10' Bauhinia purpurea - Purple Orchid Tree	792.68	
32 93 43 00-0521 EA 24" Box Bauhinia purpurea - Purple Orchid Tree	206.10	
32 93 43 00-0522 EA 6' Bauhinia variegata candida - White Orchid Tree	528.45	
32 93 43 00-0523 EA 8' Bauhinia variegata candida - White Orchid Tree	704.60	
32 93 43 00-0524 EA 10' Bauhinia variegata candida - White Orchid Tree	880.75	
32 93 43 00-0525 EA 6' Callistemon citrinus - Crimson or Lemon Bottle Brush	259.36	
32 93 43 00-0526 EA 8' Callistemon citrinus - Crimson or Lemon Bottle Brush	345.82	
32 93 43 00-0527 EA 10' Callistemon citrinus - Crimson or Lemon Bottle Brush	432.27	
32 93 43 00-0528 EA 6' Eriobotrya deflexa - Bronze Loquat	475.60	
32 93 43 00-0529 EA 8' Eriobotrya deflexa - Bronze Loquat	634.14	
32 93 43 00-0530 EA 10' Eriobotrya deflexa - Bronze Loquat	792.68	
32 93 43 00-0531 EA 6' Eucalyptus erythrocorys - Red Cap Gum	475.60	
32 93 43 00-0532 EA 8' Eucalyptus erythrocorys - Red Cap Gum	634.14	
32 93 43 00-0533 EA 10' Eucalyptus erythrocorys - Red Cap Gum	792.68	
32 93 43 00-0534 EA 6' Eucalyptus torquata - Coral Gum	475.60	
32 93 43 00-0535 EA 8' Eucalyptus torquata - Coral Gum	634.14	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0536	EA		10' Eucalyptus torquata - Coral Gum	792.68	
32 93 43 00-0537	EA		8' Fraxinus oxycarpa "Raywood" - Raywood Ash	268.97	
32 93 43 00-0538	EA		10' Fraxinus oxycarpa "Raywood" - Raywood Ash	365.03	
32 93 43 00-0539	EA		12' Fraxinus oxycarpa "Raywood" - Raywood Ash	451.48	
32 93 43 00-0540	EA		1 Gallon Washingtonia robusta - Mexican Fan Palm	7.29	
32 93 43 00-0541	EA		5 Gallon Washingtonia robusta - Mexican Fan Palm	22.68	
32 93 43 00-0542	EA		15 Gallon Washingtonia robusta - Mexican Fan Palm	79.39	
32 93 43 00-0543	EA		24" Box Washingtonia robusta - Mexican Fan Palm	259.25	
32 93 43 00-0544	EA		36" Box Washingtonia robusta - Mexican Fan Palm	688.63	
32 93 43 00-0545	EA		6' Washingtonia robusta - Mexican Fan Palm	475.60	
32 93 43 00-0546	EA		8' Washingtonia robusta - Mexican Fan Palm	634.14	
32 93 43 00-0547	EA		10' Washingtonia robusta - Mexican Fan Palm	792.68	
32 93 43 00-0548	EA		12' Washingtonia robusta - Mexican Fan Palm	951.21	
32 93 43 00-0549	EA		6' Olea europaea - Olive "Fruitless"	293.14	
32 93 43 00-0550	EA		8' Olea europaea - Olive "Fruitless"	390.85	
32 93 43 00-0551	EA		10' Olea europaea - Olive "Fruitless"	488.56	
32 93 43 00-0552	EA		12' Olea europaea - Olive "Fruitless"	586.28	
32 93 43 00-0553	EA		24" Box Olea europaea - Olive "Fruitless"	360.45	
32 93 43 00-0554	EA		6' Eucalyptus polyanthemos - Silver Dollar Gum	475.60	
32 93 43 00-0555	EA		8' Eucalyptus polyanthemos - Silver Dollar Gum	634.14	
32 93 43 00-0556	EA		10' Eucalyptus polyanthemos - Silver Dollar Gum	792.68	
32 93 43 00-0557	EA		6' Eucalyptus leucosylon - White Ironbark	475.60	
32 93 43 00-0558	EA		8' Eucalyptus leucosylon - White Ironbark	634.14	
32 93 43 00-0559	EA		10' Eucalyptus leucosylon - White Ironbark	792.68	
32 93 43 00-0560	EA		12' Eucalyptus leucosylon - White Ironbark	951.21	
32 93 43 00-0561	EA		6' Callistemon viminalis - Weeping Bottle Brush	259.36	
32 93 43 00-0562	EA		8' Callistemon viminalis - Weeping Bottle Brush	345.82	
32 93 43 00-0563	EA		10' Callistemon viminalis - Weeping Bottle Brush	432.27	
32 93 43 00-0564	EA		12' Callistemon viminalis - Weeping Bottle Brush	518.72	
32 93 43 00-0565	EA		6' Eucalyptus gunnii - Cider Gum	475.60	
32 93 43 00-0566	EA		8' Eucalyptus gunnii - Cider Gum	634.14	
32 93 43 00-0567	EA		10' Eucalyptus gunnii - Cider Gum	792.68	
32 93 43 00-0568	EA		6' Jacarandra acutifolia - Jacaranda	475.60	
32 93 43 00-0569	EA		8' Jacarandra acutifolia - Jacaranda	634.14	
32 93 43 00-0570	EA		10' Jacarandra acutifolia - Jacaranda	792.68	
32 93 43 00-0571	EA		24" Box Jacarandra acutifolia - Jacaranda	206.10	
32 93 43 00-0572	EA		5 Gallon Pistacia chinensis - Chinese Pistache	31.71	
32 93 43 00-0573	EA		15 Gallon Pistacia chinensis - Chinese Pistache	105.69	
32 93 43 00-0574	EA		24" Box Pistacia chinensis - Chinese Pistache	410.43	
32 93 43 00-0575	EA		36" Box Pistacia chinensis - Chinese Pistache	1,092.13	
32 93 43 00-0576	EA		48" Box Pistacia chinensis - Chinese Pistache	2,325.18	
32 93 43 00-0577	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Single	17.87	
32 93 43 00-0578	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Single	59.56	
32 93 43 00-0579	EA		24" Box Pyrus kawakamii - Evergreen Pear, Single	223.82	
32 93 43 00-0580	EA		30" Box Pyrus kawakamii - Evergreen Pear, Single	409.22	
32 93 43 00-0581	EA		36" Box Pyrus kawakamii - Evergreen Pear, Single	595.57	
32 93 43 00-0582	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Multi	17.87	
32 93 43 00-0583	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Multi	63.40	
32 93 43 00-0584	EA		24" Box Pyrus kawakamii - Evergreen Pear, Multi	230.54	
32 93 43 00-0585	EA		30" Box Pyrus kawakamii - Evergreen Pear, Multi	409.22	
32 93 43 00-0586	EA		36" Box Pyrus kawakamii - Evergreen Pear, Multi	595.57	

32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA		3" To 5" Bare Root Seedlings Tree Planting	1.23	
32 93 83 00-0003	EA		6" To 10" Bare Root Seedlings Tree Planting	1.97	
32 93 83 00-0004	EA		11" To 16" Bare Root Seedlings Tree Planting	2.47	
32 93 83 00-0005	EA		17" To 24" Bare Root Seedlings Tree Planting	3.95	
32 93 83 00-0006	EA		1 Gallon Container Tree Planting	19.72	
			For >10 To 25, Deduct	-0.99	
			For >25 To 50, Deduct	-2.47	
			For >50 To 100, Deduct	-3.94	
			For >100, Deduct	-5.92	
32 93 83 00-0007	EA		2 Gallon Container Tree Planting	27.61	
			For >10 To 25, Deduct	-1.38	
			For >25 To 50, Deduct	-3.45	
			For >50 To 100, Deduct	-5.52	
			For >100, Deduct	-8.28	
32 93 83 00-0008	EA		3 Gallon Container Tree Planting	35.49	
			For >10 To 25, Deduct	-1.77	
			For >25 To 50, Deduct	-4.44	
			For >50 To 100, Deduct	-7.10	
			For >100, Deduct	-10.65	
32 93 83 00-0009	EA		5 Gallon Container Tree Planting	59.16	
			For >10 To 25, Deduct	-2.96	
			For >25 To 50, Deduct	-7.40	
			For >50 To 100, Deduct	-11.83	
			For >100, Deduct	-17.75	



Exterior Improvements		32
Planting		32 90
Plants		32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0010 EA 7 Gallon Container Tree Planting.....	78.87	
For >10 To 25, Deduct	-3.94	
For >25 To 50, Deduct	-9.86	
For >50 To 100, Deduct	-15.77	
For >100, Deduct	-23.66	
32 93 83 00-0011 EA 10 Gallon Container Tree Planting.....	102.54	
For >10 To 25, Deduct	-5.13	
For >25 To 50, Deduct	-12.82	
For >50 To 100, Deduct	-20.51	
For >100, Deduct	-30.76	
32 93 83 00-0012 EA 15 Gallon Container Tree Planting.....	145.92	
For >10 To 25, Deduct	-7.30	
For >25 To 50, Deduct	-18.24	
For >50 To 100, Deduct	-29.18	
For >100, Deduct	-43.78	
32 93 83 00-0013 EA 20 Gallon Container Tree Planting.....	240.58	
For >10 To 25, Deduct	-12.03	
For >25 To 50, Deduct	-30.07	
For >50 To 100, Deduct	-48.12	
For >100, Deduct	-72.17	
32 93 83 00-0014 EA 25 Gallon Container Tree Planting.....	311.57	
For >10 To 25, Deduct	-15.58	
For >25 To 50, Deduct	-38.95	
For >50 To 100, Deduct	-62.31	
For >100, Deduct	-93.47	
32 93 83 00-0015 EA 30 Gallon Container Tree Planting.....	374.67	
For >10 To 25, Deduct	-18.73	
For >25 To 50, Deduct	-46.83	
For >50 To 100, Deduct	-74.93	
For >100, Deduct	-112.40	
32 93 83 00-0016 EA 45 Gallon Container Tree Planting.....	465.39	
For >10 To 25, Deduct	-23.27	
For >25 To 50, Deduct	-58.17	
For >50 To 100, Deduct	-93.08	
For >100, Deduct	-139.62	
32 93 83 00-0017 EA 65 Gallon Container Tree Planting.....	552.15	
For >10 To 25, Deduct	-27.61	
For >25 To 50, Deduct	-69.02	
For >50 To 100, Deduct	-110.43	
For >100, Deduct	-165.65	
32 93 83 00-0018 EA 6' Balled And Burlapped Tree Planting.....	197.20	
For >10 To 25, Deduct	-9.86	
For >25 To 50, Deduct	-24.65	
For >50 To 100, Deduct	-39.44	
For >100, Deduct	-59.16	
32 93 83 00-0019 EA 7' Balled And Burlapped Tree Planting.....	262.67	
For >10 To 25, Deduct	-13.13	
For >25 To 50, Deduct	-32.83	
For >50 To 100, Deduct	-52.53	
For >100, Deduct	-78.80	
32 93 83 00-0020 EA 8' Balled And Burlapped Tree Planting.....	295.80	
For >10 To 25, Deduct	-14.79	
For >25 To 50, Deduct	-36.98	
For >50 To 100, Deduct	-59.16	
For >100, Deduct	-88.74	
32 93 83 00-0021 EA 10' Balled And Burlapped Tree Planting.....	345.10	
For >10 To 25, Deduct	-17.26	
For >25 To 50, Deduct	-43.14	
For >50 To 100, Deduct	-69.02	
For >100, Deduct	-103.53	
32 93 83 00-0022 EA 12' Balled And Burlapped Tree Planting.....	461.44	
For >10 To 25, Deduct	-23.07	
For >25 To 50, Deduct	-57.68	
For >50 To 100, Deduct	-92.29	
For >100, Deduct	-138.43	
32 93 83 00-0023 EA 14' Balled And Burlapped Tree Planting.....	528.49	
For >10 To 25, Deduct	-26.42	
For >25 To 50, Deduct	-66.06	
For >50 To 100, Deduct	-105.70	
For >100, Deduct	-158.55	
32 93 83 00-0024 EA 16' Balled And Burlapped Tree Planting.....	640.90	
For >10 To 25, Deduct	-32.05	
For >25 To 50, Deduct	-80.11	
For >50 To 100, Deduct	-128.18	
For >100, Deduct	-192.27	
32 93 83 00-0025 EA 18' Balled And Burlapped Tree Planting.....	769.08	
For >10 To 25, Deduct	-38.45	
For >25 To 50, Deduct	-96.14	
For >50 To 100, Deduct	-153.82	
For >100, Deduct	-230.72	
32 93 83 00-0026 EA 20' Balled And Burlapped Tree Planting.....	887.39	
For >10 To 25, Deduct	-44.37	
For >25 To 50, Deduct	-110.92	
For >50 To 100, Deduct	-177.48	
For >100, Deduct	-266.22	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting	295.80	
For >10 To 25, Deduct	-14.79	
For >25 To 50, Deduct	-36.98	
For >50 To 100, Deduct	-59.16	
For >100, Deduct	-88.74	
32 93 83 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting	345.10	
For >10 To 25, Deduct	-17.26	
For >25 To 50, Deduct	-43.14	
For >50 To 100, Deduct	-69.02	
For >100, Deduct	-103.53	
32 93 83 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting	463.42	
For >10 To 25, Deduct	-23.17	
For >25 To 50, Deduct	-57.93	
For >50 To 100, Deduct	-92.68	
For >100, Deduct	-139.03	
32 93 83 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting	532.43	
For >10 To 25, Deduct	-26.62	
For >25 To 50, Deduct	-66.55	
For >50 To 100, Deduct	-106.49	
For >100, Deduct	-159.73	
32 93 83 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting	591.60	
For >10 To 25, Deduct	-29.58	
For >25 To 50, Deduct	-73.95	
For >50 To 100, Deduct	-118.32	
For >100, Deduct	-177.48	
32 93 83 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting	678.36	
For >10 To 25, Deduct	-33.92	
For >25 To 50, Deduct	-84.80	
For >50 To 100, Deduct	-135.67	
For >100, Deduct	-203.51	
32 93 83 00-0033 Planting Shrubs (32 93 83)		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034 EA 1 Gallon Container Shrub Planting	16.77	
For >10 To 25, Deduct	-0.84	
For >25 To 50, Deduct	-2.10	
For >50 To 100, Deduct	-3.35	
For >100, Deduct	-5.03	
32 93 83 00-0035 EA 2 Gallon Container Shrub Planting	23.66	
For >10 To 25, Deduct	-1.18	
For >25 To 50, Deduct	-2.96	
For >50 To 100, Deduct	-4.73	
For >100, Deduct	-7.10	
32 93 83 00-0036 EA 3 Gallon Container Shrub Planting	29.58	
For >10 To 25, Deduct	-1.48	
For >25 To 50, Deduct	-3.70	
For >50 To 100, Deduct	-5.92	
For >100, Deduct	-8.87	
32 93 83 00-0037 EA 4 Gallon Container Shrub Planting	39.44	
For >10 To 25, Deduct	-1.97	
For >25 To 50, Deduct	-4.93	
For >50 To 100, Deduct	-7.89	
For >100, Deduct	-11.83	
32 93 83 00-0038 EA 5 Gallon Container Shrub Planting	49.30	
For >10 To 25, Deduct	-2.47	
For >25 To 50, Deduct	-6.16	
For >50 To 100, Deduct	-9.86	
For >100, Deduct	-14.79	
32 93 83 00-0039 EA 7 Gallon Container Shrub Planting	67.05	
For >10 To 25, Deduct	-3.35	
For >25 To 50, Deduct	-8.38	
For >50 To 100, Deduct	-13.41	
For >100, Deduct	-20.12	
32 93 83 00-0040 EA 10 Gallon Container Shrub Planting	88.74	
For >10 To 25, Deduct	-4.44	
For >25 To 50, Deduct	-11.09	
For >50 To 100, Deduct	-17.75	
For >100, Deduct	-26.62	
32 93 83 00-0041 EA 15 Gallon Container Shrub Planting	122.27	
For >10 To 25, Deduct	-6.11	
For >25 To 50, Deduct	-15.28	
For >50 To 100, Deduct	-24.45	
For >100, Deduct	-36.68	
32 93 83 00-0042 EA 20 Gallon Container Shrub Planting	205.09	
For >10 To 25, Deduct	-10.25	
For >25 To 50, Deduct	-25.64	
For >50 To 100, Deduct	-41.02	
For >100, Deduct	-61.53	
32 93 83 00-0043 EA 25 Gallon Container Shrub Planting	262.67	
For >10 To 25, Deduct	-13.13	
For >25 To 50, Deduct	-32.83	
For >50 To 100, Deduct	-52.53	
For >100, Deduct	-78.80	



Exterior Improvements		32
	Planting	32 90
	Plants	32 93

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0044 EA 15" Balled And Burlapped Shrub Planting	55.22	
For >10 To 25, Deduct	-2.76	
For >25 To 50, Deduct	-6.90	
For >50 To 100, Deduct	-11.04	
For >100, Deduct	-16.57	
32 93 83 00-0045 EA 18" Balled And Burlapped Shrub Planting	57.19	
For >10 To 25, Deduct	-2.86	
For >25 To 50, Deduct	-7.15	
For >50 To 100, Deduct	-11.44	
For >100, Deduct	-17.16	
32 93 83 00-0046 EA 24" Balled And Burlapped Shrub Planting	63.10	
For >10 To 25, Deduct	-3.16	
For >25 To 50, Deduct	-7.89	
For >50 To 100, Deduct	-12.62	
For >100, Deduct	-18.93	
32 93 83 00-0047 EA 30" Balled And Burlapped Shrub Planting	63.10	
For >10 To 25, Deduct	-3.16	
For >25 To 50, Deduct	-7.89	
For >50 To 100, Deduct	-12.62	
For >100, Deduct	-18.93	
32 93 83 00-0048 EA 36" Balled And Burlapped Shrub Planting	69.02	
For >10 To 25, Deduct	-3.45	
For >25 To 50, Deduct	-8.63	
For >50 To 100, Deduct	-13.80	
For >100, Deduct	-20.71	
32 93 83 00-0049 EA 42" Balled And Burlapped Shrub Planting	72.96	
For >10 To 25, Deduct	-3.65	
For >25 To 50, Deduct	-9.12	
For >50 To 100, Deduct	-14.59	
For >100, Deduct	-21.89	
32 93 83 00-0050 EA 48" Balled And Burlapped Shrub Planting	78.87	
For >10 To 25, Deduct	-3.94	
For >25 To 50, Deduct	-9.86	
For >50 To 100, Deduct	-15.77	
For >100, Deduct	-23.66	
32 93 83 00-0051 EA 5' Balled And Burlapped Shrub Planting	118.32	
For >10 To 25, Deduct	-5.92	
For >25 To 50, Deduct	-14.79	
For >50 To 100, Deduct	-23.66	
For >100, Deduct	-35.50	
32 93 83 00-0052 EA 6' Balled And Burlapped Shrub Planting	167.62	
For >10 To 25, Deduct	-8.38	
For >25 To 50, Deduct	-20.95	
For >50 To 100, Deduct	-33.52	
For >100, Deduct	-50.29	
32 93 83 00-0053 EA 7' Balled And Burlapped Shrub Planting	222.84	
For >10 To 25, Deduct	-11.14	
For >25 To 50, Deduct	-27.86	
For >50 To 100, Deduct	-44.57	
For >100, Deduct	-66.85	
32 93 83 00-0054 EA 8' Balled And Burlapped Shrub Planting	252.42	
For >10 To 25, Deduct	-12.62	
For >25 To 50, Deduct	-31.55	
For >50 To 100, Deduct	-50.48	
For >100, Deduct	-75.73	
32 93 83 00-0055 EA 9' Balled And Burlapped Shrub Planting	272.14	
For >10 To 25, Deduct	-13.61	
For >25 To 50, Deduct	-34.02	
For >50 To 100, Deduct	-54.43	
For >100, Deduct	-81.64	
32 93 83 00-0056 EA 10' Balled And Burlapped Shrub Planting	295.80	
For >10 To 25, Deduct	-14.79	
For >25 To 50, Deduct	-36.98	
For >50 To 100, Deduct	-59.16	
For >100, Deduct	-88.74	
32 93 83 00-0057 Planting Groundcover, Vines, Perennials, Annuals And Bulbs (32 93 83)		
See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0058 EA 2-1/4" Diameter Potted Groundcover And Flower Planting	1.65	
For >10 To 25, Deduct	-0.08	
For >25 To 50, Deduct	-0.21	
For >50 To 100, Deduct	-0.33	
For >100, Deduct	-0.50	
32 93 83 00-0059 EA 3" Diameter Potted Groundcover And Flower Planting	1.88	
For >10 To 25, Deduct	-0.09	
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.38	
For >100, Deduct	-0.56	
32 93 83 00-0060 EA 4" Diameter Potted Groundcover And Flower Planting	2.19	
For >10 To 25, Deduct	-0.11	
For >25 To 50, Deduct	-0.27	
For >50 To 100, Deduct	-0.44	
For >100, Deduct	-0.66	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0061 EA 5-1/2" Diameter Potted Groundcover And Flower Planting	2.63	
For >10 To 25, Deduct	-0.13	
For >25 To 50, Deduct	-0.33	
For >50 To 100, Deduct	-0.53	
For >100, Deduct	-0.79	
32 93 83 00-0062 EA 6" Diameter Potted Groundcover And Flower Planting	3.28	
For >10 To 25, Deduct	-0.16	
For >25 To 50, Deduct	-0.41	
For >50 To 100, Deduct	-0.66	
For >100, Deduct	-0.98	
32 93 83 00-0063 EA 8" Diameter Potted Groundcover And Flower Planting	4.93	
For >10 To 25, Deduct	-0.25	
For >25 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-0.99	
For >100, Deduct	-1.48	
32 93 83 00-0064 EA 1 Gallon Container Groundcover And Flower Planting	15.77	
For >10 To 25, Deduct	-0.79	
For >25 To 50, Deduct	-1.97	
For >50 To 100, Deduct	-3.15	
For >100, Deduct	-4.73	
32 93 83 00-0065 EA 2 Gallon Container Groundcover And Flower Planting	21.70	
For >10 To 25, Deduct	-1.09	
For >25 To 50, Deduct	-2.71	
For >50 To 100, Deduct	-4.34	
For >100, Deduct	-6.51	
32 93 83 00-0066 EA 3 Gallon Container Groundcover And Flower Planting	27.61	
For >10 To 25, Deduct	-1.38	
For >25 To 50, Deduct	-3.45	
For >50 To 100, Deduct	-5.52	
For >100, Deduct	-8.28	
32 93 83 00-0067 EA 4 Gallon Container Groundcover And Flower Planting	35.49	
For >10 To 25, Deduct	-1.77	
For >25 To 50, Deduct	-4.44	
For >50 To 100, Deduct	-7.10	
For >100, Deduct	-10.65	
32 93 83 00-0068 EA 5 Gallon Container Groundcover And Flower Planting	43.38	
For >10 To 25, Deduct	-2.17	
For >25 To 50, Deduct	-5.42	
For >50 To 100, Deduct	-8.68	
For >100, Deduct	-13.01	
32 93 83 00-0069 EA 7 Gallon Container Groundcover And Flower Planting	59.16	
For >10 To 25, Deduct	-2.96	
For >25 To 50, Deduct	-7.40	
For >50 To 100, Deduct	-11.83	
For >100, Deduct	-17.75	
32 93 83 00-0070 EA Bulb Planting.....	0.98	
For >10 To 25, Deduct	-0.05	
For >25 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.20	
For >100, Deduct	-0.29	
32 93 83 00-0071 EA Flats Of 24 Groundcover And Flower Planting.....	27.61	
For >10 To 25, Deduct	-1.38	
For >25, Deduct	-3.45	
32 93 83 00-0072 EA Flats Of 36 Groundcover And Flower Planting.....	39.16	
For >10 To 25, Deduct	-1.96	
For >25, Deduct	-4.90	
32 93 83 00-0073 EA Flats Of 48 Groundcover And Flower Planting.....	52.13	
For >10 To 25, Deduct	-2.61	
For >25, Deduct	-6.52	

32 93 83 00-0074 Tree Pits (32 93 83)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch.

32 93 83 00-0075 EA 2' x 1-1/4' Deep Tree Pit	125.38
32 93 83 00-0076 EA 2' x 2-1/2' Deep Tree Pit	188.02
32 93 83 00-0077 EA 2-1/2' x 1-1/2' Deep Tree Pit	241.32
32 93 83 00-0078 EA 2-1/2' x 3' Deep Tree Pit	361.93
32 93 83 00-0079 EA 3' x 1-3/4' Deep Tree Pit	375.35
32 93 83 00-0080 EA 3' x 3-1/2' Deep Tree Pit	560.49
32 93 83 00-0081 EA 3-1/2' x 1-3/4' Deep Tree Pit	461.65
32 93 83 00-0082 EA 3-1/2' x 3-1/2' Deep Tree Pit	691.62
32 93 83 00-0083 EA 4' x 2' Deep Tree Pit.....	552.48
32 93 83 00-0084 EA 4' x 4' Deep Tree Pit.....	828.32
32 93 83 00-0085 EA 4-1/2' x 2' Deep Tree Pit	798.25
32 93 83 00-0086 EA 4-1/2' x 4' Deep Tree Pit	1,199.41
32 93 83 00-0087 EA 5' x 2-1/4' Deep Tree Pit	1,061.70
32 93 83 00-0088 EA 5' x 4-1/2' Deep Tree Pit	1,582.93
32 93 83 00-0089 EA 6' x 2-1/2' Deep Tree Pit	1,505.57
32 93 83 00-0090 EA 6' x 5' Deep Tree Pit.....	2,255.47
32 93 83 00-0091 EA 7' x 3' Deep Tree Pit.....	2,538.14
32 93 83 00-0092 EA 7' x 6' Deep Tree Pit.....	3,824.71
32 93 83 00-0093 EA 8' x 3-1/4' Deep Tree Pit	3,496.84



Exterior Improvements		32
Planting	32 90	32
Plants	32 93	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 93 83 00-0094 EA 8" x 6-1/2' Deep Tree Pit 5,243.34

32 94 Planting Accessories (32 90)

32 94 13 Landscape Edging (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF	1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	8.50	2.39
32 94 13 00-0003	LF	1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	9.27	2.39
32 94 13 00-0004	LF	1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging	9.32	2.39
32 94 13 00-0005	LF	3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	10.67	2.47
32 94 13 00-0006	LF	3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	11.62	2.47
32 94 13 00-0007	LF	3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging	11.60	2.47
32 94 13 00-0008	LF	1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	9.53	2.55
32 94 13 00-0009	LF	1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	10.59	2.55
32 94 13 00-0010	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	10.69	2.55
32 94 13 00-0011	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	12.01	2.63
32 94 13 00-0012	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	13.07	2.63
32 94 13 00-0013	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	13.16	2.63
32 94 13 00-0014	LF	3/16" x 4" Powder Coated Steel Landscape Edging	10.60	2.47
32 94 13 00-0015	LF	1/4" x 5" Powder Coated Steel Landscape Edging	14.77	2.47

32 94 16 Landscape Timbers (32 94)

32 94 16 00-0001	LF	6" x 8" Railroad Ties	14.48	4.77
32 94 16 00-0002	LF	7" x 9" Railroad Ties	17.44	5.98
32 94 16 00-0003	LF	1" x 4" Redwood	5.03	1.69
32 94 16 00-0004	LF	2" x 4" Redwood Edging	6.91	2.53
32 94 16 00-0005	LF	4" x 6" Pressure Treated Hardwood	9.37	3.38
32 94 16 00-0006	LF	6" x 6" Pressure Treated Hardwood	12.15	4.22
32 94 16 00-0007	LF	6" x 8" Pressure Treated Hardwood	14.18	4.96
32 94 16 00-0008	LF	1" x 4" Pressure Treated Pine	3.82	1.69
32 94 16 00-0009	LF	2" x 4" Pressure Treated Pine	5.78	2.53
32 94 16 00-0010	LF	4" x 6" Pressure Treated Pine	8.91	3.27
32 94 16 00-0011	LF	6" x 6" Pressure Treated Pine	12.06	4.22
32 94 16 00-0012	LF	6" x 8" Pressure Treated Pine	14.69	4.96

32 94 43 Tree Grates (32 94)

32 94 43 00-0001 Tree Grates With Frames (32 94 43)

32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)

32 94 43 00-0003	EA	32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame	875.72	62.90
		For >3 To 9, Deduct	-56.24	
		For >9, Deduct	-116.24	
32 94 43 00-0004	EA	36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame	1,012.04	62.90
		For >3 To 9, Deduct	-66.47	
		For >9, Deduct	-137.37	
32 94 43 00-0005	EA	42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame	1,224.41	83.86
		For >3 To 9, Deduct	-79.25	
		For >9, Deduct	-163.79	
32 94 43 00-0006	EA	48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame	1,521.16	83.86
		For >3 To 9, Deduct	-101.51	
		For >9, Deduct	-209.78	
32 94 43 00-0007	EA	54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame	1,950.08	104.83
		For >3 To 9, Deduct	-130.53	
		For >9, Deduct	-269.77	
32 94 43 00-0008	EA	60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame	2,048.15	125.79
		For >3 To 9, Deduct	-134.74	
		For >9, Deduct	-278.47	
32 94 43 00-0009	EA	60" Diameter, >350 LB Cast Iron Tree Grate With Frame	2,254.67	125.79
		For >3 To 9, Deduct	-150.23	
		For >9, Deduct	-310.48	
32 94 43 00-0010	EA	72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame	3,003.14	178.21
		For >3 To 9, Deduct	-198.50	
		For >9, Deduct	-410.24	
32 94 43 00-0011	EA	72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame	3,123.45	178.21
		For >3 To 9, Deduct	-207.53	
		For >9, Deduct	-428.89	
32 94 43 00-0012	EA	72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame	3,223.70	178.21
		For >3 To 9, Deduct	-215.05	
		For >9, Deduct	-444.43	
32 94 43 00-0013	EA	72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame	3,303.91	178.21
		For >3 To 9, Deduct	-221.06	
		For >9, Deduct	-456.86	
32 94 43 00-0014	EA	72" Diameter, >700 LB Cast Iron Tree Grate With Frame	3,364.06	178.21
		For >3 To 9, Deduct	-225.57	
		For >9, Deduct	-466.19	

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0015 EA 93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame	3,691.63	209.65
For >3 To 9, Deduct	-245.42	
For >9, Deduct	-507.21	
32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)		
32 94 43 00-0017 EA 30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame	807.52	62.90
For >3 To 9, Deduct	-51.13	
For >9, Deduct	-105.67	
32 94 43 00-0018 EA 36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame	977.96	62.90
For >3 To 9, Deduct	-63.91	
For >9, Deduct	-132.09	
32 94 43 00-0019 EA 48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame	1,452.81	104.83
For >3 To 9, Deduct	-93.24	
For >9, Deduct	-192.69	
32 94 43 00-0020 EA 48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame	1,713.47	104.83
For >3 To 9, Deduct	-112.79	
For >9, Deduct	-233.09	
32 94 43 00-0021 EA 48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame	1,954.09	104.83
For >3 To 9, Deduct	-130.83	
For >9, Deduct	-270.39	
32 94 43 00-0022 EA 48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame	2,174.65	104.83
For >3 To 9, Deduct	-147.38	
For >9, Deduct	-304.58	
32 94 43 00-0023 EA 48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame	2,375.16	104.83
For >3 To 9, Deduct	-162.41	
For >9, Deduct	-335.65	
32 94 43 00-0024 EA 48" x 48", >400 LB Cast Iron Tree Grate With Frame	2,555.62	104.83
For >3 To 9, Deduct	-175.95	
For >9, Deduct	-363.63	
32 94 43 00-0025 EA 60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame	2,459.03	146.76
For >3 To 9, Deduct	-162.41	
For >9, Deduct	-335.65	
32 94 43 00-0026 EA 60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame	2,639.49	146.76
For >3 To 9, Deduct	-175.95	
For >9, Deduct	-363.63	
32 94 43 00-0027 EA 60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame	2,799.90	146.76
For >3 To 9, Deduct	-187.98	
For >9, Deduct	-388.49	
32 94 43 00-0028 EA 60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame	2,940.25	146.76
For >3 To 9, Deduct	-198.50	
For >9, Deduct	-410.24	
32 94 43 00-0029 EA 60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame	3,060.56	146.76
For >3 To 9, Deduct	-207.53	
For >9, Deduct	-428.89	
32 94 43 00-0030 EA 60" x 60", >600 LB Cast Iron Tree Grate With Frame	3,160.81	146.76
For >3 To 9, Deduct	-215.05	
For >9, Deduct	-444.43	
32 94 43 00-0031 EA 72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame	3,003.14	178.21
For >3 To 9, Deduct	-198.50	
For >9, Deduct	-410.24	
32 94 43 00-0032 EA 72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame	3,123.45	178.21
For >3 To 9, Deduct	-207.53	
For >9, Deduct	-428.89	
32 94 43 00-0033 EA 72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame	3,223.70	178.21
For >3 To 9, Deduct	-215.05	
For >9, Deduct	-444.43	
32 94 43 00-0034 EA 72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame	3,303.91	178.21
For >3 To 9, Deduct	-221.06	
For >9, Deduct	-456.86	
32 94 43 00-0035 EA 72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame	3,364.06	178.21
For >3 To 9, Deduct	-225.57	
For >9, Deduct	-466.19	
32 94 43 00-0036 EA 72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame	3,404.16	178.21
For >3 To 9, Deduct	-228.58	
For >9, Deduct	-472.40	
32 94 43 00-0037 EA 72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame	3,424.21	178.21
For >3 To 9, Deduct	-230.09	
For >9, Deduct	-475.51	
32 94 43 00-0038 EA 72" x 72", >850 LB Cast Iron Tree Grate With Frame	3,444.26	178.21
For >3 To 9, Deduct	-231.59	
For >9, Deduct	-478.62	
32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)		
32 94 43 00-0040 EA 36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame	1,521.16	83.86
For >3 To 9, Deduct	-101.51	
For >9, Deduct	-209.78	
32 94 43 00-0041 EA 36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame	1,551.24	83.86
For >3 To 9, Deduct	-103.76	
For >9, Deduct	-214.45	
32 94 43 00-0042 EA 36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame	1,895.94	104.83
For >3 To 9, Deduct	-126.47	
For >9, Deduct	-261.37	



Exterior Improvements			32
Planting			32 90
Planting Accessories			32 94

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0043 EA 48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame For >3 To 9, Deduct For >9, Deduct	2,230.79 -151.59 -313.28	104.83
32 94 43 00-0044 EA 48" x 72", >350 LB Cast Iron Tree Grate With Frame..... For >3 To 9, Deduct For >9, Deduct	2,375.16 -162.41 -335.65	104.83
32 94 43 00-0045 EA 60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame..... For >3 To 9, Deduct For >9, Deduct	3,183.60 -212.04 -438.21	178.21

32 94 49 Plant and Tree Accessories (32 94)

32 94 49 00-0001 Tree Guying (32 94 49)

32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)

Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.

32 94 49 00-0003 EA Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap	22.58
32 94 49 00-0004 EA Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap	39.49
32 94 49 00-0005 EA Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap	67.92

32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)

Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.

32 94 49 00-0007 EA Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope	96.06
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope	129.73
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope	166.71
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope	214.51

32 94 49 00-0011 Tree Wrap (32 94 49)

32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree	5.97
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree	9.92
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree	19.68
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree	30.46

32 94 49 00-0016 Tree Guards (32 94 49)

32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard.....	11.25
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard.....	9.99

32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)

Note: When no design available.

32 94 49 00-0020 EA Stake Out Trees Or Shrubs	6.16

32 94 49 00-0021 Root Barriers (32 94 49)

32 94 49 00-0022 EA 12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	10.46
32 94 49 00-0023 EA 18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	14.82
32 94 49 00-0024 EA 24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	17.49
32 94 49 00-0025 EA 36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	32.78
32 94 49 00-0026 EA 48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	45.27

32 96 Transplanting (32 96)

See CSI section 32 94 49 00-0001 for guying.

32 96 33 Shrub Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33)

Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.

32 96 33 00-0002 EA Up To 18" Root Ball, Move Shrubs On Site	67.42
For >25 To 50, Deduct	-6.74
For >50, Deduct	-10.11
32 96 33 00-0003 EA >18" To 24" Root Ball, Move Shrubs On Site	91.21
For >25 To 50, Deduct	-9.12
For >50, Deduct	-13.68
32 96 33 00-0004 EA >24" To 30" Root Ball, Move Shrubs On Site	154.65
For >25 To 50, Deduct	-15.47
For >50, Deduct	-23.20
32 96 33 00-0005 EA >30" To 36" Root Ball, Move Shrubs On Site	237.94
For >25 To 50, Deduct	-23.79
For >50, Deduct	-35.69

32 96 43 Tree Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)

Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0768 for crane lifting equipment, 32 94 49 00-0001 for guying.

32 Exterior Improvements**32 90 Planting****32 96 Transplanting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 43 00-0002 EA Up To 24" Root Ball, Move Trees On Site.....	259.85	
For >5 To 10, Deduct	-12.99	
For >10 To 20, Deduct	-25.99	
For >20, Deduct	-38.98	
32 96 43 00-0003 EA >24" To 30" Root Ball, Move Trees On Site.....	356.37	
For >5 To 10, Deduct	-17.82	
For >10 To 20, Deduct	-35.64	
For >20, Deduct	-53.46	
32 96 43 00-0004 EA >30" To 36" Root Ball, Move Trees On Site.....	577.45	
For >5 To 10, Deduct	-28.87	
For >10 To 20, Deduct	-57.75	
For >20, Deduct	-86.62	
32 96 43 00-0005 EA >36" To 48" Root Ball, Move Trees On Site.....	959.46	
For >5 To 10, Deduct	-47.97	
For >10 To 20, Deduct	-95.95	
For >20, Deduct	-143.92	
32 96 43 00-0006 EA >48" To 60" Root Ball, Move Trees On Site.....	1,559.12	
For >5 To 10, Deduct	-77.96	
For >10 To 20, Deduct	-155.91	
For >20, Deduct	-233.87	
32 96 43 00-0007 EA >60" To 72" Root Ball, Move Trees On Site.....	2,011.77	
For >5 To 10, Deduct	-100.59	
For >10 To 20, Deduct	-201.18	
For >20, Deduct	-301.77	
32 96 43 00-0008 EA >72" To 84" Root Ball, Move Trees On Site.....	2,598.54	
For >5 To 10, Deduct	-129.93	
For >10 To 20, Deduct	-259.85	
For >20, Deduct	-389.78	
32 96 43 00-0009 EA >84" To 96" Root Ball, Move Trees On Site.....	3,118.24	
For >5 To 10, Deduct	-155.91	
For >10 To 20, Deduct	-311.82	
For >20, Deduct	-467.74	
32 96 43 00-0010 EA >96" To 120" Root Ball, Move Trees On Site.....	3,543.45	
For >5 To 10, Deduct	-177.17	
For >10 To 20, Deduct	-354.35	
For >20, Deduct	-531.52	

END OF SECTION 32



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Water Utilities	33 01 10	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 Utilities

33 01 Operation and Maintenance of Utilities⁽³³⁾

33 01 10 Operation and Maintenance of Water Utilities^(33 01)

33 01 10 54 Cleaning of Water Utility Piping^(33 01 10)

See CSI section 33 01 30 41-0006 for cleaning of water lines.

33 01 10 58 Disinfection of Water Utility Piping Systems^(33 01 10)

33 01 10 58-0001 Water Main Disinfection/Sterilization^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	912.45	
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	456.23	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization.....	0.34	
		For >250 To 500, Deduct	-0.02	
		For >500 To 1,000, Deduct	-0.03	
		For >1,000 To 2,000, Deduct	-0.05	
		For >2,000 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.09	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization.....	0.52	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.05	
		For >1,000 To 2,000, Deduct	-0.08	
		For >2,000 To 5,000, Deduct	-0.10	
		For >5,000, Deduct	-0.13	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization.....	0.69	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.07	
		For >1,000 To 2,000, Deduct	-0.10	
		For >2,000 To 5,000, Deduct	-0.14	
		For >5,000, Deduct	-0.17	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization.....	0.81	
		For >250 To 500, Deduct	-0.04	
		For >500 To 1,000, Deduct	-0.08	
		For >1,000 To 2,000, Deduct	-0.12	
		For >2,000 To 5,000, Deduct	-0.16	
		For >5,000, Deduct	-0.20	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization.....	1.05	
		For >250 To 500, Deduct	-0.05	
		For >500 To 1,000, Deduct	-0.11	
		For >1,000 To 2,000, Deduct	-0.16	
		For >2,000 To 5,000, Deduct	-0.21	
		For >5,000, Deduct	-0.26	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.19	
		For >250 To 500, Deduct	-0.06	
		For >500 To 1,000, Deduct	-0.12	
		For >1,000 To 2,000, Deduct	-0.18	
		For >2,000 To 5,000, Deduct	-0.24	
		For >5,000, Deduct	-0.30	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.37	
		For >250 To 500, Deduct	-0.07	
		For >500 To 1,000, Deduct	-0.14	
		For >1,000 To 2,000, Deduct	-0.21	
		For >2,000 To 5,000, Deduct	-0.27	
		For >5,000, Deduct	-0.34	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.61	
		For >250 To 500, Deduct	-0.08	
		For >500 To 1,000, Deduct	-0.16	
		For >1,000 To 2,000, Deduct	-0.24	
		For >2,000 To 5,000, Deduct	-0.32	
		For >5,000, Deduct	-0.40	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.07	
		For >250 To 500, Deduct	-0.10	
		For >500 To 1,000, Deduct	-0.21	
		For >1,000 To 2,000, Deduct	-0.31	
		For >2,000 To 5,000, Deduct	-0.41	
		For >5,000, Deduct	-0.52	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.04	
		For >250 To 500, Deduct	-0.15	
		For >500 To 1,000, Deduct	-0.30	
		For >1,000 To 2,000, Deduct	-0.46	
		For >2,000 To 5,000, Deduct	-0.61	
		For >5,000, Deduct	-0.76	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization.....	4.22	
		For >250 To 500, Deduct	-0.21	
		For >500 To 1,000, Deduct	-0.42	
		For >1,000 To 2,000, Deduct	-0.63	
		For >2,000 To 5,000, Deduct	-0.84	
		For >5,000, Deduct	-1.06	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001 Relining Underground Water Pipelines (33 01 10 71)

Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.

33 01 10 71-0002 Relining Underground Water Pipelines Set-Up And Reinsertion (33 01 10 71-0001)

33 01 10 71-0003	EA	Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines	5,084.20
33 01 10 71-0004	EA	Move And Reset Up At Different Access/Location	2,033.68

33 01 10 71-0005 Lining Pipe With Cement (33 01 10 71-0001)

33 01 10 71-0006	LF	Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	69.30
		For 3/16" Thickness, Add	0.80
		For 1/4" Thickness, Add	1.60
33 01 10 71-0007	LF	>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	61.65
		For 3/16" Thickness, Add	0.80
		For 1/4" Thickness, Add	1.60
33 01 10 71-0008	LF	>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	51.40
		For 3/16" Thickness, Add	0.80
		For 1/4" Thickness, Add	1.60
33 01 10 71-0009	LF	>5,000', 4" Pipe, 1/8" Pipe Lining With Cement	38.54
		For 3/16" Thickness, Add	0.80
		For 1/4" Thickness, Add	1.60
33 01 10 71-0010	LF	Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	71.85
		For 3/16" Thickness, Add	1.20
		For 1/4" Thickness, Add	2.40
33 01 10 71-0011	LF	>500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	63.91
		For 3/16" Thickness, Add	1.20
		For 1/4" Thickness, Add	2.40
33 01 10 71-0012	LF	>1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	53.32
		For 3/16" Thickness, Add	1.20
		For 1/4" Thickness, Add	2.40
33 01 10 71-0013	LF	>5,000', 6" Pipe, 1/8" Pipe Lining With Cement	40.28
		For 3/16" Thickness, Add	1.20
		For 1/4" Thickness, Add	2.40
33 01 10 71-0014	LF	Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	74.28
		For 3/16" Thickness, Add	1.60
		For 1/4" Thickness, Add	3.19
33 01 10 71-0015	LF	>500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	66.17
		For 3/16" Thickness, Add	1.60
		For 1/4" Thickness, Add	3.19
33 01 10 71-0016	LF	>1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	55.22
		For 3/16" Thickness, Add	1.60
		For 1/4" Thickness, Add	3.19
33 01 10 71-0017	LF	>5,000', 8" Pipe, 1/8" Pipe Lining With Cement	42.01
		For 3/16" Thickness, Add	1.60
		For 1/4" Thickness, Add	3.19
33 01 10 71-0018	LF	Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	76.08
		For 3/16" Thickness, Add	2.00
		For 1/4" Thickness, Add	4.00
33 01 10 71-0019	LF	>500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	67.84
		For 3/16" Thickness, Add	2.00
		For 1/4" Thickness, Add	4.00
33 01 10 71-0020	LF	>1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	56.73
		For 3/16" Thickness, Add	2.00
		For 1/4" Thickness, Add	4.00
33 01 10 71-0021	LF	>5,000', 10" Pipe, 1/8" Pipe Lining With Cement	43.75
		For 3/16" Thickness, Add	2.00
		For 1/4" Thickness, Add	4.00
33 01 10 71-0022	LF	Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	82.08
		For 3/16" Thickness, Add	2.40
		For 1/4" Thickness, Add	4.80
33 01 10 71-0023	LF	>500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	73.32
		For 3/16" Thickness, Add	2.40
		For 1/4" Thickness, Add	4.80
33 01 10 71-0024	LF	>1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	61.51
		For 3/16" Thickness, Add	2.40
		For 1/4" Thickness, Add	4.80
33 01 10 71-0025	LF	>5,000', 12" Pipe, 1/8" Pipe Lining With Cement	47.48
		For 3/16" Thickness, Add	2.40
		For 1/4" Thickness, Add	4.80
33 01 10 71-0026	LF	Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	87.63
		For 1/4" Thickness, Add	2.67
		For 5/16" Thickness, Add	5.34
33 01 10 71-0027	LF	>500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	78.55
		For 1/4" Thickness, Add	2.67
		For 5/16" Thickness, Add	5.34
33 01 10 71-0028	LF	>1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	66.24
		For 1/4" Thickness, Add	2.67
		For 5/16" Thickness, Add	5.34
33 01 10 71-0029	LF	>5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	52.79
		For 1/4" Thickness, Add	2.67
		For 5/16" Thickness, Add	5.34



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Water Utilities	33 01 10	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030	LF	Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	91.56	
		For 1/4" Thickness, Add	3.20	
		For 5/16" Thickness, Add	6.39	
33 01 10 71-0031	LF	>500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	82.18	
		For 1/4" Thickness, Add	3.20	
		For 5/16" Thickness, Add	6.39	
33 01 10 71-0032	LF	>1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	69.46	
		For 1/4" Thickness, Add	3.20	
		For 5/16" Thickness, Add	6.39	
33 01 10 71-0033	LF	>5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	56.71	
		For 1/4" Thickness, Add	3.20	
		For 5/16" Thickness, Add	6.39	
33 01 10 71-0034	LF	Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	96.55	
		For 1/4" Thickness, Add	3.73	
		For 5/16" Thickness, Add	7.47	
33 01 10 71-0035	LF	>500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	86.85	
		For 1/4" Thickness, Add	3.73	
		For 5/16" Thickness, Add	7.47	
33 01 10 71-0036	LF	>1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	73.52	
		For 1/4" Thickness, Add	3.73	
		For 5/16" Thickness, Add	7.47	
33 01 10 71-0037	LF	>5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	61.59	
		For 1/4" Thickness, Add	3.73	
		For 5/16" Thickness, Add	7.47	
33 01 10 71-0038	LF	Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	101.66	
		For 1/4" Thickness, Add	4.27	
		For 5/16" Thickness, Add	8.53	
33 01 10 71-0039	LF	>500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	91.57	
		For 1/4" Thickness, Add	4.27	
		For 5/16" Thickness, Add	8.53	
33 01 10 71-0040	LF	>1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	77.81	
		For 1/4" Thickness, Add	4.27	
		For 5/16" Thickness, Add	8.53	
33 01 10 71-0041	LF	>5,000', 24" Pipe, 3/16" Pipe Lining With Cement	66.70	
		For 1/4" Thickness, Add	4.27	
		For 5/16" Thickness, Add	8.53	
33 01 10 71-0042	LF	Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	108.25	
		For 1/4" Thickness, Add	5.33	
		For 5/16" Thickness, Add	10.67	
33 01 10 71-0043	LF	>500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	97.57	
		For 1/4" Thickness, Add	5.33	
		For 5/16" Thickness, Add	10.67	
33 01 10 71-0044	LF	>1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	83.00	
		For 1/4" Thickness, Add	5.33	
		For 5/16" Thickness, Add	10.67	
33 01 10 71-0045	LF	>5,000', 30" Pipe, 3/16" Pipe Lining With Cement	71.77	
		For 1/4" Thickness, Add	5.33	
		For 5/16" Thickness, Add	10.67	
33 01 10 71-0046	LF	Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	114.73	
		For 1/4" Thickness, Add	6.40	
		For 5/16" Thickness, Add	12.80	
33 01 10 71-0047	LF	500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	103.58	
		For 1/4" Thickness, Add	6.40	
		For 5/16" Thickness, Add	12.80	
33 01 10 71-0048	LF	>1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	88.18	
		For 1/4" Thickness, Add	6.40	
		For 5/16" Thickness, Add	12.80	
33 01 10 71-0049	LF	>5,000', 36" Pipe, 3/16" Pipe Lining With Cement	76.84	
		For 1/4" Thickness, Add	6.40	
		For 5/16" Thickness, Add	12.80	
33 01 10 71-0050	LF	Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	138.01	
		For 3/8" Thickness, Add	16.80	
		For 7/16" Thickness, Add	25.20	
33 01 10 71-0051	LF	>500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	125.87	
		For 3/8" Thickness, Add	16.80	
		For 7/16" Thickness, Add	25.20	
33 01 10 71-0052	LF	>1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	109.13	
		For 3/8" Thickness, Add	16.80	
		For 7/16" Thickness, Add	25.20	
33 01 10 71-0053	LF	>5,000', 42" Pipe, 1/4" Pipe Lining With Cement	97.43	
		For 3/8" Thickness, Add	16.80	
		For 7/16" Thickness, Add	25.20	
33 01 10 71-0054	LF	Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	151.57	
		For 3/8" Thickness, Add	19.20	
		For 7/16" Thickness, Add	28.79	
33 01 10 71-0055	LF	>500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	138.57	
		For 3/8" Thickness, Add	19.20	
		For 7/16" Thickness, Add	28.79	
33 01 10 71-0056	LF	>1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	120.59	
		For 3/8" Thickness, Add	19.20	
		For 7/16" Thickness, Add	28.79	
33 01 10 71-0057	LF	>5,000', 48" Pipe, 1/4" Pipe Lining With Cement	108.66	
		For 3/8" Thickness, Add	19.20	
		For 7/16" Thickness, Add	28.79	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement.....	158.47	
For 3/8" Thickness, Add	21.60	
For 7/16" Thickness, Add	32.39	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	145.20	
For 3/8" Thickness, Add	21.60	
For 7/16" Thickness, Add	32.39	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	126.79	
For 3/8" Thickness, Add	21.60	
For 7/16" Thickness, Add	32.39	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	115.33	
For 3/8" Thickness, Add	21.60	
For 7/16" Thickness, Add	32.39	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement.....	165.39	
For 3/8" Thickness, Add	24.00	
For 7/16" Thickness, Add	36.00	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	151.88	
For 3/8" Thickness, Add	24.00	
For 7/16" Thickness, Add	36.00	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	133.12	
For 3/8" Thickness, Add	24.00	
For 7/16" Thickness, Add	36.00	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement	122.01	
For 3/8" Thickness, Add	24.00	
For 7/16" Thickness, Add	36.00	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement.....	172.65	
For 3/8" Thickness, Add	26.40	
For 7/16" Thickness, Add	39.60	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	158.85	
For 3/8" Thickness, Add	26.40	
For 7/16" Thickness, Add	39.60	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	139.79	
For 3/8" Thickness, Add	26.40	
For 7/16" Thickness, Add	39.60	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement	129.50	
For 3/8" Thickness, Add	26.40	
For 7/16" Thickness, Add	39.60	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement.....	180.36	
For 3/8" Thickness, Add	28.80	
For 7/16" Thickness, Add	43.20	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	166.33	
For 3/8" Thickness, Add	28.80	
For 7/16" Thickness, Add	43.20	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	146.81	
For 3/8" Thickness, Add	28.80	
For 7/16" Thickness, Add	43.20	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement	137.11	
For 3/8" Thickness, Add	28.80	
For 7/16" Thickness, Add	43.20	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)**33 01 30 11 Television Inspection Of Pipelines** (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up** (33 01 30 11-0001)

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	860.87
Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.	
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,721.75
Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).	
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,582.62
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	430.43
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	860.87

33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)

Note: For pipe interior and culverts.

33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.18
Note: CCTV inspection of pipe interior.	
For >500 To 1,000, Deduct	-0.22
For >1,000 To 5,000, Deduct	-0.55
For >5,000, Deduct	-0.76
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.91
Note: CCTV inspection of pipe interior.	
For >500 To 1,000, Deduct	-0.29
For >1,000 To 5,000, Deduct	-0.73
For >5,000, Deduct	-1.02
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.64
Note: CCTV inspection of pipe interior.	
For >500 To 1,000, Deduct	-0.36
For >1,000 To 5,000, Deduct	-0.91
For >5,000, Deduct	-1.27



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012	LF	>21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	4.85 -0.49 -1.21 -1.70	
33 01 30 11-0013	LF	>30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	6.82 -0.68 -1.71 -2.39	
33 01 30 11-0014	LF	>42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	9.09 -0.91 -2.27 -3.18	
33 01 30 11-0015	LF	>60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	12.84 -1.28 -3.21 -4.49	
33 01 30 11-0016	LF	>72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	18.19 -1.82 -4.55 -6.37	
33 01 30 11-0017		Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018	LF	4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	3.22 -0.32 -0.81 -1.13	
33 01 30 11-0019	LF	>6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	4.30 -0.43 -1.08 -1.51	
33 01 30 11-0020	LF	>12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	5.38 -0.54 -1.35 -1.88	
33 01 30 11-0021	LF	>21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	7.17 -0.72 -1.79 -2.51	
33 01 30 11-0022	LF	>30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	10.09 -1.01 -2.52 -3.53	
33 01 30 11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	13.46 -1.35 -3.37 -4.71	
33 01 30 11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	18.99 -1.90 -4.75 -6.65	
33 01 30 11-0025	LF	>72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	26.90 -2.69 -6.73 -9.42	
33 01 30 11-0026		Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027	LF	4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	2.30 -0.23 -0.58 -0.81	
33 01 30 11-0028	LF	>6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	3.08 -0.31 -0.77 -1.08	
33 01 30 11-0029	LF	>12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	3.84 -0.38 -0.96 -1.34	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.13	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.51	
For >1,000 To 5,000, Deduct	-1.28	
For >5,000, Deduct	-1.80	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	7.21	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.72	
For >1,000 To 5,000, Deduct	-1.80	
For >5,000, Deduct	-2.52	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	9.60	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.96	
For >1,000 To 5,000, Deduct	-2.40	
For >5,000, Deduct	-3.36	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	13.56	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.36	
For >1,000 To 5,000, Deduct	-3.39	
For >5,000, Deduct	-4.75	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	19.22	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.92	
For >1,000 To 5,000, Deduct	-4.81	
For >5,000, Deduct	-6.73	
33 01 30 23 Pipe Bursting (33 01 30)		
33 01 30 23-0001 Pipe Bursting (33 01 30 23)		
Note: The following section excludes costs for CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control. See CSI section 31 13 13 00-0001 for tree removal.		
33 01 30 23-0002 Manhole Chipping (33 01 30 23-0001)		
Note: For use at manholes to open holes for pipe bursting head.		
33 01 30 23-0003 EA 6" To 15" Diameter, Manhole Chipping.....	379.65	
33 01 30 23-0004 EA >15" To 24" Diameter, Manhole Chipping.....	445.71	
33 01 30 23-0005 EA >24" To 36" Diameter, Manhole Chipping.....	557.12	
33 01 30 23-0006 Pipe Bursting (33 01 30 23-0001)		
Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0047 for PE piping.		
33 01 30 23-0007 Pipe Bursting Equipment Set-up (33 01 30 23-0006)		
33 01 30 23-0008 EA Initial Set-up Pipe Bursting Equipment.....	7,389.36	
33 01 30 23-0009 EA Re-Set Up/Move Pipe Bursting Equipment.....	3,694.67	
33 01 30 23-0010 EA Set Up/Move Pipe Bursting Equipment For Laterals.....	1,847.34	
33 01 30 23-0011 Pneumatic Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0012 LF 4" Diameter, Pneumatic Head Pipe Bursting.....	24.61	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.29	
For >150 To 200, Add	0.84	
For >100 To 150, Add	1.68	
For >75 To 100, Add	2.52	
For >50 To 75, Add	3.36	
For >25 To 50, Add	5.04	
For Up To 25, Add	7.56	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.68	
For Bursting Ductile Iron Pipe, Add	4.20	
33 01 30 23-0013 LF 6" Diameter, Pneumatic Head Pipe Bursting.....	28.64	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.60	
For >150 To 200, Add	1.04	
For >100 To 150, Add	2.08	
For >75 To 100, Add	3.12	
For >50 To 75, Add	4.16	
For >25 To 50, Add	6.25	
For Up To 25, Add	9.37	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.08	
For Bursting Ductile Iron Pipe, Add	5.21	
33 01 30 23-0014 LF 8" Diameter, Pneumatic Head Pipe Bursting.....	32.44	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.90	
For >150 To 200, Add	1.23	
For >100 To 150, Add	2.46	
For >75 To 100, Add	3.69	
For >50 To 75, Add	4.92	
For >25 To 50, Add	7.39	
For Up To 25, Add	11.08	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.46	
For Bursting Ductile Iron Pipe, Add	6.16	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0015	LF		10" Diameter, Pneumatic Head Pipe Bursting	37.32	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.27	
			For >150 To 200, Add	1.48	
			For >100 To 150, Add	2.95	
			For >75 To 100, Add	4.43	
			For >50 To 75, Add	5.90	
			For >25 To 50, Add	8.85	
			For Up To 25, Add	13.28	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.95	
			For Bursting Ductile Iron Pipe, Add	7.38	
33 01 30 23-0016	LF		12" Diameter, Pneumatic Head Pipe Bursting	42.95	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.71	
			For >150 To 200, Add	1.76	
			For >100 To 150, Add	3.51	
			For >75 To 100, Add	5.27	
			For >50 To 75, Add	7.03	
			For >25 To 50, Add	10.54	
			For Up To 25, Add	15.81	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.51	
			For Bursting Ductile Iron Pipe, Add	8.78	
33 01 30 23-0017	LF		15" Diameter, Pneumatic Head Pipe Bursting	47.07	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.79	
			For >150 To 200, Add	1.81	
			For >100 To 150, Add	3.63	
			For >75 To 100, Add	5.44	
			For >50 To 75, Add	7.25	
			For >25 To 50, Add	10.88	
			For Up To 25, Add	16.32	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.63	
			For Bursting Ductile Iron Pipe, Add	9.07	
33 01 30 23-0018	LF		18" Diameter, Pneumatic Head Pipe Bursting	52.71	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.23	
			For >150 To 200, Add	2.10	
			For >100 To 150, Add	4.19	
			For >75 To 100, Add	6.29	
			For >50 To 75, Add	8.38	
			For >25 To 50, Add	12.57	
			For Up To 25, Add	18.86	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.19	
			For Bursting Ductile Iron Pipe, Add	10.48	
33 01 30 23-0019	LF		21"/22" Diameter, Pneumatic Head Pipe Bursting	66.08	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.84	
			For >150 To 200, Add	2.49	
			For >100 To 150, Add	4.99	
			For >75 To 100, Add	7.48	
			For >50 To 75, Add	9.97	
			For >25 To 50, Add	14.96	
			For Up To 25, Add	22.43	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.99	
			For Bursting Ductile Iron Pipe, Add	12.46	
33 01 30 23-0020	LF		24" Diameter, Pneumatic Head Pipe Bursting	82.10	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.07	
			For >150 To 200, Add	3.29	
			For >100 To 150, Add	6.59	
			For >75 To 100, Add	9.88	
			For >50 To 75, Add	13.17	
			For >25 To 50, Add	19.76	
			For Up To 25, Add	29.64	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.59	
			For Bursting Ductile Iron Pipe, Add	16.47	
33 01 30 23-0021	LF		30" Diameter, Pneumatic Head Pipe Bursting	89.96	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.26	
			For >150 To 200, Add	3.42	
			For >100 To 150, Add	6.83	
			For >75 To 100, Add	10.25	
			For >50 To 75, Add	13.67	
			For >25 To 50, Add	20.50	
			For Up To 25, Add	30.75	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.83	
			For Bursting Ductile Iron Pipe, Add	17.09	
33 01 30 23-0022	LF		36" Diameter, Pneumatic Head Pipe Bursting	116.79	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.33	
			For >150 To 200, Add	4.76	
			For >100 To 150, Add	9.52	
			For >75 To 100, Add	14.28	
			For >50 To 75, Add	19.03	
			For >25 To 50, Add	28.55	
			For Up To 25, Add	42.83	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.52	
			For Bursting Ductile Iron Pipe, Add	23.79	

33 01 30 23-0023 Static Head Pipe Bursting (33 01 30 23-0006)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0024 LF 4" Diameter, Static Head Pipe Bursting	32.78	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.92	
For >150 To 200, Add	1.25	
For >100 To 150, Add	2.50	
For >75 To 100, Add	3.74	
For >50 To 75, Add	4.99	
For >25 To 50, Add	7.49	
For Up To 25, Add	11.23	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.50	
For Bursting Ductile Iron Pipe, Add	6.24	
33 01 30 23-0025 LF 6" Diameter, Static Head Pipe Bursting	36.84	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.23	
For >150 To 200, Add	1.45	
For >100 To 150, Add	2.90	
For >75 To 100, Add	4.35	
For >50 To 75, Add	5.80	
For >25 To 50, Add	8.71	
For Up To 25, Add	13.06	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.90	
For Bursting Ductile Iron Pipe, Add	7.26	
33 01 30 23-0026 LF 8" Diameter, Static Head Pipe Bursting	41.54	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.60	
For >150 To 200, Add	1.69	
For >100 To 150, Add	3.37	
For >75 To 100, Add	5.06	
For >50 To 75, Add	6.74	
For >25 To 50, Add	10.12	
For Up To 25, Add	15.17	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.37	
For Bursting Ductile Iron Pipe, Add	8.43	
33 01 30 23-0027 LF 10" Diameter, Static Head Pipe Bursting	47.64	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.07	
For >150 To 200, Add	1.99	
For >100 To 150, Add	3.98	
For >75 To 100, Add	5.97	
For >50 To 75, Add	7.96	
For >25 To 50, Add	11.95	
For Up To 25, Add	17.92	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.98	
For Bursting Ductile Iron Pipe, Add	9.96	
33 01 30 23-0028 LF 12" Diameter, Static Head Pipe Bursting	54.68	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.61	
For >150 To 200, Add	2.34	
For >100 To 150, Add	4.69	
For >75 To 100, Add	7.03	
For >50 To 75, Add	9.37	
For >25 To 50, Add	14.06	
For Up To 25, Add	21.09	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.69	
For Bursting Ductile Iron Pipe, Add	11.72	
33 01 30 23-0029 LF 15" Diameter, Static Head Pipe Bursting	62.22	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.96	
For >150 To 200, Add	2.57	
For >100 To 150, Add	5.14	
For >75 To 100, Add	7.71	
For >50 To 75, Add	10.28	
For >25 To 50, Add	15.42	
For Up To 25, Add	23.13	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.14	
For Bursting Ductile Iron Pipe, Add	12.85	
33 01 30 23-0030 LF 18" Diameter, Static Head Pipe Bursting	68.99	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.48	
For >150 To 200, Add	2.91	
For >100 To 150, Add	5.82	
For >75 To 100, Add	8.73	
For >50 To 75, Add	11.64	
For >25 To 50, Add	17.45	
For Up To 25, Add	26.18	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.82	
For Bursting Ductile Iron Pipe, Add	14.55	
33 01 30 23-0031 LF 21"/22" Diameter, Static Head Pipe Bursting	85.89	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.36	
For >150 To 200, Add	3.48	
For >100 To 150, Add	6.97	
For >75 To 100, Add	10.45	
For >50 To 75, Add	13.93	
For >25 To 50, Add	20.90	
For Up To 25, Add	31.35	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.97	
For Bursting Ductile Iron Pipe, Add	17.42	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0032	LF		24" Diameter, Static Head Pipe Bursting	111.50	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.34	
			For >150 To 200, Add	4.76	
			For >100 To 150, Add	9.53	
			For >75 To 100, Add	14.29	
			For >50 To 75, Add	19.05	
			For >25 To 50, Add	28.58	
			For Up To 25, Add	42.87	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.53	
			For Bursting Ductile Iron Pipe, Add	23.82	
33 01 30 23-0033	LF		30" Diameter, Static Head Pipe Bursting	135.46	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.77	
			For >150 To 200, Add	5.69	
			For >100 To 150, Add	11.38	
			For >75 To 100, Add	17.08	
			For >50 To 75, Add	22.77	
			For >25 To 50, Add	34.15	
			For Up To 25, Add	51.23	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	11.38	
			For Bursting Ductile Iron Pipe, Add	28.46	
33 01 30 23-0034	LF		36" Diameter, Static Head Pipe Bursting	164.34	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	10.99	
			For >150 To 200, Add	7.14	
			For >100 To 150, Add	14.27	
			For >75 To 100, Add	21.41	
			For >50 To 75, Add	28.54	
			For >25 To 50, Add	42.82	
			For Up To 25, Add	64.22	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	14.27	
			For Bursting Ductile Iron Pipe, Add	35.68	
33 01 30 23-0035 Hydraulic Head Pipe Bursting (33 01 30 23-0006)					
33 01 30 23-0036	LF		4" Diameter, Hydraulic Head Pipe Bursting	28.34	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.58	
			For >150 To 200, Add	1.03	
			For >100 To 150, Add	2.05	
			For >75 To 100, Add	3.08	
			For >50 To 75, Add	4.10	
			For >25 To 50, Add	6.16	
			For Up To 25, Add	9.23	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.05	
			For Bursting Ductile Iron Pipe, Add	5.13	
33 01 30 23-0037	LF		6" Diameter, Hydraulic Head Pipe Bursting	31.95	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.86	
			For >150 To 200, Add	1.21	
			For >100 To 150, Add	2.41	
			For >75 To 100, Add	3.62	
			For >50 To 75, Add	4.83	
			For >25 To 50, Add	7.24	
			For Up To 25, Add	10.86	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.41	
			For Bursting Ductile Iron Pipe, Add	6.03	
33 01 30 23-0038	LF		8" Diameter, Hydraulic Head Pipe Bursting	36.07	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.18	
			For >150 To 200, Add	1.41	
			For >100 To 150, Add	2.83	
			For >75 To 100, Add	4.24	
			For >50 To 75, Add	5.65	
			For >25 To 50, Add	8.48	
			For Up To 25, Add	12.71	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.83	
			For Bursting Ductile Iron Pipe, Add	7.06	
33 01 30 23-0039	LF		10" Diameter, Hydraulic Head Pipe Bursting	41.45	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.59	
			For >150 To 200, Add	1.68	
			For >100 To 150, Add	3.36	
			For >75 To 100, Add	5.04	
			For >50 To 75, Add	6.73	
			For >25 To 50, Add	10.09	
			For Up To 25, Add	15.13	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.36	
			For Bursting Ductile Iron Pipe, Add	8.41	
33 01 30 23-0040	LF		12" Diameter, Hydraulic Head Pipe Bursting	47.64	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.07	
			For >150 To 200, Add	1.99	
			For >100 To 150, Add	3.98	
			For >75 To 100, Add	5.97	
			For >50 To 75, Add	7.96	
			For >25 To 50, Add	11.95	
			For Up To 25, Add	17.92	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.98	
			For Bursting Ductile Iron Pipe, Add	9.96	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0041 LF 15" Diameter, Hydraulic Head Pipe Bursting	54.01	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.33	
For >150 To 200, Add	2.16	
For >100 To 150, Add	4.32	
For >75 To 100, Add	6.48	
For >50 To 75, Add	8.64	
For >25 To 50, Add	12.96	
For Up To 25, Add	19.44	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.32	
For Bursting Ductile Iron Pipe, Add	10.80	
33 01 30 23-0042 LF 18" Diameter, Hydraulic Head Pipe Bursting	60.65	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.84	
For >150 To 200, Add	2.49	
For >100 To 150, Add	4.98	
For >75 To 100, Add	7.48	
For >50 To 75, Add	9.97	
For >25 To 50, Add	14.95	
For Up To 25, Add	22.43	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.98	
For Bursting Ductile Iron Pipe, Add	12.46	
33 01 30 23-0043 LF 21"/22" Diameter, Hydraulic Head Pipe Bursting	75.92	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.60	
For >150 To 200, Add	2.98	
For >100 To 150, Add	5.97	
For >75 To 100, Add	8.95	
For >50 To 75, Add	11.94	
For >25 To 50, Add	17.91	
For Up To 25, Add	26.86	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.97	
For Bursting Ductile Iron Pipe, Add	14.92	
33 01 30 23-0044 LF 24" Diameter, Hydraulic Head Pipe Bursting	99.47	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.41	
For >150 To 200, Add	4.16	
For >100 To 150, Add	8.32	
For >75 To 100, Add	12.49	
For >50 To 75, Add	16.65	
For >25 To 50, Add	24.97	
For Up To 25, Add	37.46	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.32	
For Bursting Ductile Iron Pipe, Add	20.81	
33 01 30 23-0045 LF 30" Diameter, Hydraulic Head Pipe Bursting	121.97	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.73	
For >150 To 200, Add	5.02	
For >100 To 150, Add	10.04	
For >75 To 100, Add	15.05	
For >50 To 75, Add	20.07	
For >25 To 50, Add	30.11	
For Up To 25, Add	45.16	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	10.04	
For Bursting Ductile Iron Pipe, Add	25.09	
33 01 30 23-0046 LF 36" Diameter, Hydraulic Head Pipe Bursting	149.43	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	9.84	
For >150 To 200, Add	6.39	
For >100 To 150, Add	12.78	
For >75 To 100, Add	19.17	
For >50 To 75, Add	25.56	
For >25 To 50, Add	38.34	
For Up To 25, Add	57.51	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	12.78	
For Bursting Ductile Iron Pipe, Add	31.95	
33 01 30 23-0047 Pipe Lining (33 01 30 23-0001)		
33 01 30 23-0048 Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining (33 01 30 23-0047)		
Note: Per each joint.		
33 01 30 23-0049 EA 4" To 15", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	119.87	
33 01 30 23-0050 EA >15" To 24", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	137.54	
33 01 30 23-0051 EA >24" To 36", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	164.05	
33 01 30 23-0052 High Density Polyethylene (HDPE) Pipe Lining, DR 17 (33 01 30 23-0047)		
Note: Material only, to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0048 for pipe joint fusion.		
33 01 30 23-0053 LF 4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	4.01	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.45	
For DR 11 Polyethylene Pipe, 160 PSI, Add	1.23	
For White Interior Pipe, Add	0.83	
For Gray Interior Pipe, Add	0.63	
33 01 30 23-0054 LF 5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	5.35	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.69	
For DR 11 Polyethylene Pipe, 160 PSI, Add	1.86	
For White Interior Pipe, Add	1.26	
For Gray Interior Pipe, Add	0.95	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0055	LF	6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	7.68	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-1.10	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	2.98	
		For White Interior Pipe, Add	2.01	
		For Gray Interior Pipe, Add	1.53	
33 01 30 23-0056	LF	7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	8.66	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-1.27	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	3.44	
		For White Interior Pipe, Add	2.32	
		For Gray Interior Pipe, Add	1.76	
33 01 30 23-0057	LF	8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	11.96	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-1.85	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	5.04	
		For White Interior Pipe, Add	3.40	
		For Gray Interior Pipe, Add	2.58	
33 01 30 23-0058	LF	10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	17.72	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-2.88	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	7.83	
		For White Interior Pipe, Add	5.28	
		For Gray Interior Pipe, Add	4.00	
33 01 30 23-0059	LF	12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	24.27	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-4.05	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	11.01	
		For White Interior Pipe, Add	7.43	
		For Gray Interior Pipe, Add	5.63	
33 01 30 23-0060	LF	13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	26.58	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-4.46	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	12.12	
		For White Interior Pipe, Add	8.18	
		For Gray Interior Pipe, Add	6.20	
33 01 30 23-0061	LF	14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	29.01	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-4.89	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	13.28	
		For White Interior Pipe, Add	8.96	
		For Gray Interior Pipe, Add	6.79	
33 01 30 23-0062	LF	16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	37.44	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-6.38	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	17.34	
		For White Interior Pipe, Add	11.71	
		For Gray Interior Pipe, Add	8.87	
33 01 30 23-0063	LF	18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	47.02	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-8.09	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	21.97	
		For White Interior Pipe, Add	14.82	
		For Gray Interior Pipe, Add	11.23	
33 01 30 23-0064	LF	20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	57.69	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-9.98	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	27.11	
		For White Interior Pipe, Add	18.29	
		For Gray Interior Pipe, Add	13.86	
33 01 30 23-0065	LF	22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	69.50	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-12.07	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	32.80	
		For White Interior Pipe, Add	22.13	
		For Gray Interior Pipe, Add	16.77	
33 01 30 23-0066	LF	24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	82.47	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-14.37	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	39.05	
		For White Interior Pipe, Add	26.35	
		For Gray Interior Pipe, Add	19.96	
33 01 30 23-0067	LF	26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	96.52	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-16.86	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	45.79	
		For White Interior Pipe, Add	30.90	
		For Gray Interior Pipe, Add	23.41	
33 01 30 23-0068	LF	28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	111.79	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-19.55	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	53.12	
		For White Interior Pipe, Add	35.85	
		For Gray Interior Pipe, Add	27.16	
33 01 30 23-0069	LF	30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	128.23	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-22.45	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	60.99	
		For White Interior Pipe, Add	41.16	
		For Gray Interior Pipe, Add	31.18	
33 01 30 23-0070	LF	32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	145.81	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-25.54	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	69.37	
		For White Interior Pipe, Add	46.82	
		For Gray Interior Pipe, Add	35.47	
33 01 30 23-0071	LF	34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	179.55	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-31.51	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	85.60	
		For White Interior Pipe, Add	57.77	
		For Gray Interior Pipe, Add	43.76	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0072 LF 36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	184.83	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-32.32	
For DR 11 Polyethylene Pipe, 160 PSI, Add	87.81	
For White Interior Pipe, Add	59.26	
For Gray Interior Pipe, Add	44.89	
33 01 30 23-0073 Re-Connection Of Non-Renewed Laterals (33 01 30 23-0001)		
33 01 30 23-0074 Re-Connection Of Non-Renewed Laterals; Insert-A-Tee (33 01 30 23-0073)		
Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0029 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0075 EA Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee.....	1,194.72	
For No Excavation, Deduct	-780.19	
33 01 30 23-0076 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee.....	1,341.33	
For No Excavation, Deduct	-877.72	
33 01 30 23-0077 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee	1,415.84	
For No Excavation, Deduct	-926.47	
33 01 30 23-0078 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee	1,490.37	
For No Excavation, Deduct	-975.24	
33 01 30 23-0079 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee	1,611.03	
For No Excavation, Deduct	-1,024.00	
33 01 30 23-0080 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee	1,507.37	
For No Excavation, Deduct	-975.24	
33 01 30 23-0081 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee	1,584.31	
For No Excavation, Deduct	-1,024.00	
33 01 30 23-0082 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee	1,695.28	
For No Excavation, Deduct	-1,072.76	
33 01 30 23-0083 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee	1,971.41	
For No Excavation, Deduct	-1,121.52	
33 01 30 23-0084 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee	2,075.09	
For No Excavation, Deduct	-1,170.29	
33 01 30 23-0085 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee	2,499.40	
For No Excavation, Deduct	-1,219.04	
33 01 30 23-0086 Re-Connection Of Non-Renewed Laterals; Saddle Style (33 01 30 23-0073)		
Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0029 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0087 EA Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,664.97	
For No Excavation, Deduct	-870.75	
For Strap-On Saddle Type Instead Of Fusion Weld	-209.78	
33 01 30 23-0088 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,945.42	
For No Excavation, Deduct	-905.58	
For Strap-On Saddle Type Instead Of Fusion Weld	-192.09	
33 01 30 23-0089 EA Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,124.18	
For No Excavation, Deduct	-940.41	
For Strap-On Saddle Type Instead Of Fusion Weld	-39.66	
33 01 30 23-0090 EA Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,333.16	
For No Excavation, Deduct	-1,044.90	
For Strap-On Saddle Type Instead Of Fusion Weld	-81.45	
33 01 30 23-0091 EA Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	7,710.72	
For No Excavation, Deduct	-1,114.56	
For Strap-On Saddle Type Instead Of Fusion Weld	376.42	
33 01 30 23-0092 EA Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	8,354.05	
For No Excavation, Deduct	-1,236.47	
For Strap-On Saddle Type Instead Of Fusion Weld	387.58	
33 01 30 23-0093 EA Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	11,257.10	
For No Excavation, Deduct	-1,358.37	
For Strap-On Saddle Type Instead Of Fusion Weld	737.71	
33 01 30 23-0094 EA Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	10,705.38	
For No Excavation, Deduct	-1,532.52	
For Strap-On Saddle Type Instead Of Fusion Weld	533.05	
33 01 30 23-0095 EA Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	13,007.79	
For No Excavation, Deduct	-1,811.16	
For Strap-On Saddle Type Instead Of Fusion Weld	683.36	
33 01 30 41 Cleaning of Sewers (33 01 30)		
33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning	2,486.61	
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning.....	621.65	
33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0007	LF	Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	3.34	
		For >250 To 500, Deduct	-0.17	
		For >500 To 1,000, Deduct	-0.33	
		For >1,000 To 2,000, Deduct	-0.50	
		For >2,000 To 5,000, Deduct	-0.67	
		For >5,000, Deduct	-0.84	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.51	
33 01 30 41-0008	LF	6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.83	
		For >250 To 500, Deduct	-0.19	
		For >500 To 1,000, Deduct	-0.38	
		For >1,000 To 2,000, Deduct	-0.57	
		For >2,000 To 5,000, Deduct	-0.77	
		For >5,000, Deduct	-0.96	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.87	
33 01 30 41-0009	LF	8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.50	
		For >250 To 500, Deduct	-0.23	
		For >500 To 1,000, Deduct	-0.45	
		For >1,000 To 2,000, Deduct	-0.68	
		For >2,000 To 5,000, Deduct	-0.90	
		For >5,000, Deduct	-1.13	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.38	
33 01 30 41-0010	LF	10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.58	
		For >250 To 500, Deduct	-0.28	
		For >500 To 1,000, Deduct	-0.56	
		For >1,000 To 2,000, Deduct	-0.84	
		For >2,000 To 5,000, Deduct	-1.12	
		For >5,000, Deduct	-1.40	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.19	
33 01 30 41-0011	LF	12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.31	
		For >250 To 500, Deduct	-0.32	
		For >500 To 1,000, Deduct	-0.63	
		For >1,000 To 2,000, Deduct	-0.95	
		For >2,000 To 5,000, Deduct	-1.26	
		For >5,000, Deduct	-1.58	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.73	
33 01 30 41-0012	LF	>12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	7.29	
		For >250 To 500, Deduct	-0.36	
		For >500 To 1,000, Deduct	-0.73	
		For >1,000 To 2,000, Deduct	-1.09	
		For >2,000 To 5,000, Deduct	-1.46	
		For >5,000, Deduct	-1.82	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.47	
33 01 30 41-0013	LF	>16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	8.78	
		For >250 To 500, Deduct	-0.44	
		For >500 To 1,000, Deduct	-0.88	
		For >1,000 To 2,000, Deduct	-1.32	
		For >2,000 To 5,000, Deduct	-1.76	
		For >5,000, Deduct	-2.20	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	6.59	
33 01 30 41-0014	LF	>24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	9.96	
		For >250 To 500, Deduct	-0.50	
		For >500 To 1,000, Deduct	-1.00	
		For >1,000 To 2,000, Deduct	-1.49	
		For >2,000 To 5,000, Deduct	-1.99	
		For >5,000, Deduct	-2.49	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	7.47	
33 01 30 41-0015	LF	>30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	11.77	
		For >250 To 500, Deduct	-0.59	
		For >500 To 1,000, Deduct	-1.18	
		For >1,000 To 2,000, Deduct	-1.77	
		For >2,000 To 5,000, Deduct	-2.35	
		For >5,000, Deduct	-2.94	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	8.83	
33 01 30 41-0016	LF	>42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	14.80	
		For >250 To 500, Deduct	-0.74	
		For >500 To 1,000, Deduct	-1.48	
		For >1,000 To 2,000, Deduct	-2.22	
		For >2,000 To 5,000, Deduct	-2.96	
		For >5,000, Deduct	-3.70	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	11.10	
33 01 30 41-0017	LF	>60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	17.27	
		For >250 To 500, Deduct	-0.86	
		For >500 To 1,000, Deduct	-1.73	
		For >1,000 To 2,000, Deduct	-2.59	
		For >2,000 To 5,000, Deduct	-3.45	
		For >5,000, Deduct	-4.32	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	12.95	
33 01 30 41-0018		Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
		Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0019	LF	12" To 16" Diameter Pipe Line Flushing	1.28	
		For >250 To 500, Deduct	-0.06	
		For >500 To 1,000, Deduct	-0.13	
		For >1,000 To 2,000, Deduct	-0.19	
		For >2,000 To 5,000, Deduct	-0.26	
		For >5,000, Deduct	-0.32	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0020 LF >16" To 24" Diameter Pipe Line Flushing	1.46	
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.15	
For >1,000 To 2,000, Deduct	-0.22	
For >2,000 To 5,000, Deduct	-0.29	
For >5,000, Deduct	-0.37	
33 01 30 41-0021 LF >24" To 30" Diameter Pipe Line Flushing	1.72	
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.17	
For >1,000 To 2,000, Deduct	-0.26	
For >2,000 To 5,000, Deduct	-0.34	
For >5,000, Deduct	-0.43	
33 01 30 41-0022 LF >30" To 42" Diameter Pipe Line Flushing	1.97	
For >250 To 500, Deduct	-0.10	
For >500 To 1,000, Deduct	-0.20	
For >1,000 To 2,000, Deduct	-0.30	
For >2,000 To 5,000, Deduct	-0.39	
For >5,000, Deduct	-0.49	
33 01 30 41-0023 LF >42" To 60" Diameter Pipe Line Flushing	2.63	
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.26	
For >1,000 To 2,000, Deduct	-0.39	
For >2,000 To 5,000, Deduct	-0.53	
For >5,000, Deduct	-0.66	
33 01 30 41-0024 Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)		
33 01 30 41-0025 LF Jet Cleaning Of Culvert, 0-250 LF.....	15.47	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.55	
For >1,000 To 2,000, Deduct	-2.32	
For >2,000 To 5,000, Deduct	-3.09	
For >5,000, Deduct	-3.87	
33 01 30 41-0026 Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0027 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	1,094.94	
33 01 30 41-0028 EA Move And Reset Up At Different Access/Location.....	364.98	
33 01 30 41-0029 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	6.32	
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.61	
For >1,000 To 2,000, Deduct	-0.91	
For >2,000 To 5,000, Deduct	-1.22	
For >5,000, Deduct	-1.52	
33 01 30 41-0030 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	8.31	
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 2,000, Deduct	-1.17	
For >2,000 To 5,000, Deduct	-1.56	
For >5,000, Deduct	-1.96	
33 01 30 41-0031 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	9.73	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.91	
For >1,000 To 2,000, Deduct	-1.37	
For >2,000 To 5,000, Deduct	-1.82	
For >5,000, Deduct	-2.28	
33 01 30 41-0032 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	11.26	
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-1.58	
For >2,000 To 5,000, Deduct	-2.11	
For >5,000, Deduct	-2.63	
33 01 30 41-0033 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	12.26	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-1.14	
For >1,000 To 2,000, Deduct	-1.71	
For >2,000 To 5,000, Deduct	-2.28	
For >5,000, Deduct	-2.85	
33 01 30 41-0034 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method.....	14.13	
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-1.96	
For >2,000 To 5,000, Deduct	-2.61	
For >5,000, Deduct	-3.26	
33 01 30 41-0035 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method.....	17.80	
For >250 To 500, Deduct	-0.81	
For >500 To 1,000, Deduct	-1.61	
For >1,000 To 2,000, Deduct	-2.42	
For >2,000 To 5,000, Deduct	-3.22	
For >5,000, Deduct	-4.03	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0036	LF		>24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	20.38	
			For >250 To 500, Deduct	-0.90	
			For >500 To 1,000, Deduct	-1.80	
			For >1,000 To 2,000, Deduct	-2.69	
			For >2,000 To 5,000, Deduct	-3.59	
			For >5,000, Deduct	-4.49	
33 01 30 41-0037	LF		>30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	23.70	
			For >250 To 500, Deduct	-1.03	
			For >500 To 1,000, Deduct	-2.07	
			For >1,000 To 2,000, Deduct	-3.10	
			For >2,000 To 5,000, Deduct	-4.13	
			For >5,000, Deduct	-5.17	
33 01 30 41-0038	LF		>42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....	31.01	
			For >250 To 500, Deduct	-1.37	
			For >500 To 1,000, Deduct	-2.74	
			For >1,000 To 2,000, Deduct	-4.11	
			For >2,000 To 5,000, Deduct	-5.47	
			For >5,000, Deduct	-6.84	
33 01 30 41-0039	LF		>60" Diameter Pipe Line Cleaning, Mechanical Method.....	35.27	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-3.04	
			For >1,000 To 2,000, Deduct	-4.56	
			For >2,000 To 5,000, Deduct	-6.08	
			For >5,000, Deduct	-7.60	
33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)					
33 01 30 41-0041	EA		Initial Set Up And Final Equipment Removal For Auguring	1,094.94	
33 01 30 41-0042	EA		Move And Reset Up At Different Location	364.98	
33 01 30 41-0043	LF		Up To 4" Diameter Pipe Line Auguring/Rod Out.....	3.65	
			For >250 To 500, Deduct	-0.18	
			For >500 To 1,000, Deduct	-0.37	
			For >1,000 To 2,000, Deduct	-0.55	
			For >2,000 To 5,000, Deduct	-0.73	
			For >5,000, Deduct	-0.91	
33 01 30 41-0044	LF		6" Diameter Pipe Line Auguring/Rod Out	4.72	
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.47	
			For >1,000 To 2,000, Deduct	-0.71	
			For >2,000 To 5,000, Deduct	-0.94	
			For >5,000, Deduct	-1.18	
33 01 30 41-0045	LF		8" Diameter Pipe Line Auguring/Rod Out	5.47	
			For >250 To 500, Deduct	-0.27	
			For >500 To 1,000, Deduct	-0.55	
			For >1,000 To 2,000, Deduct	-0.82	
			For >2,000 To 5,000, Deduct	-1.09	
			For >5,000, Deduct	-1.37	
33 01 30 41-0046	LF		10" Diameter Pipe Line Auguring/Rod Out	6.37	
			For >250 To 500, Deduct	-0.32	
			For >500 To 1,000, Deduct	-0.64	
			For >1,000 To 2,000, Deduct	-0.96	
			For >2,000 To 5,000, Deduct	-1.27	
			For >5,000, Deduct	-1.59	
33 01 30 41-0047	LF		12" Diameter Pipe Line Auguring/Rod Out	6.85	
			For >250 To 500, Deduct	-0.34	
			For >500 To 1,000, Deduct	-0.69	
			For >1,000 To 2,000, Deduct	-1.03	
			For >2,000 To 5,000, Deduct	-1.37	
			For >5,000, Deduct	-1.71	
33 01 30 41-0048	LF		>12" To 16" Diameter Pipe Line Auguring/Rod Out.....	7.82	
			For >250 To 500, Deduct	-0.39	
			For >500 To 1,000, Deduct	-0.78	
			For >1,000 To 2,000, Deduct	-1.17	
			For >2,000 To 5,000, Deduct	-1.56	
			For >5,000, Deduct	-1.96	
33 01 30 41-0049	LF		>16" To 24" Diameter Pipe Line Auguring/Rod Out.....	9.61	
			For >250 To 500, Deduct	-0.48	
			For >500 To 1,000, Deduct	-0.96	
			For >1,000 To 2,000, Deduct	-1.44	
			For >2,000 To 5,000, Deduct	-1.92	
			For >5,000, Deduct	-2.40	
33 01 30 41-0050	LF		>24" To 30" Diameter Pipe Line Auguring/Rod Out.....	10.73	
			For >250 To 500, Deduct	-0.54	
			For >500 To 1,000, Deduct	-1.07	
			For >1,000 To 2,000, Deduct	-1.61	
			For >2,000 To 5,000, Deduct	-2.15	
			For >5,000, Deduct	-2.68	
33 01 30 41-0051	LF		>30" To 42" Diameter Pipe Line Auguring/Rod Out.....	12.44	
			For >250 To 500, Deduct	-0.62	
			For >500 To 1,000, Deduct	-1.24	
			For >1,000 To 2,000, Deduct	-1.87	
			For >2,000 To 5,000, Deduct	-2.49	
			For >5,000, Deduct	-3.11	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0052 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out	17.11	
For >250 To 500, Deduct	-0.86	
For >500 To 1,000, Deduct	-1.71	
For >1,000 To 2,000, Deduct	-2.57	
For >2,000 To 5,000, Deduct	-3.42	
For >5,000, Deduct	-4.28	
33 01 30 41-0053 LF >60" Diameter Pipe Line Auguring/Rod Out	18.25	
For >250 To 500, Deduct	-0.91	
For >500 To 1,000, Deduct	-1.83	
For >1,000 To 2,000, Deduct	-2.74	
For >2,000 To 5,000, Deduct	-3.65	
For >5,000, Deduct	-4.56	
33 01 30 42 Cleaning of Manholes (33 01 30)		
33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)		
Note: Includes flushing. Owner provided water.		
33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)		
33 01 30 42-0003 EA Rod Out Waste Water Drain	58.46	
33 01 30 42-0004 EA Rod Out Sewer Catch Basin	116.92	
33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage	23.38	
33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage	25.72	
33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage	29.23	
33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage	33.91	
33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage	39.75	
33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage	46.76	
33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage	54.95	
33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage	63.14	
33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage	73.66	
33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage	87.69	
33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure	292.30	
33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand	788.80	
For >10 To 100, Deduct	-118.32	
For >100 To 250, Deduct	-177.48	
For >250, Deduct	-236.64	
33 01 30 42-0017 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand	946.55	
For >10 To 100, Deduct	-141.98	
For >100 To 250, Deduct	-212.97	
For >250, Deduct	-283.97	
33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand	473.28	
For >10 To 100, Deduct	-70.99	
For >100 To 250, Deduct	-106.49	
For >250, Deduct	-141.98	
33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)		
Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.		
33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	269.84	
33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	250.64	
33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	231.43	
33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	212.23	
33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	193.02	
33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes	173.82	
33 01 30 43 Removal of Protruding Service Connection (33 01 30)		
33 01 30 43-0001 Trim Protruding Service Taps (33 01 30 43)		
33 01 30 43-0002 EA Trim Protruding Service Tap, 4", Robotic	699.76	
33 01 30 43-0003 EA Trim Protruding Service Tap, 6", Robotic	769.75	
33 01 30 43-0004 EA Trim Protruding Service Tap, 8", Robotic	839.72	
33 01 30 51 Maintenance of Utilities (33 01 30)		
33 01 30 51-0001 Pipe Repair (33 01 30 51)		
33 01 30 51-0002 Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001)		
Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0003 EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	136.60	
For Stainless Steel Nuts And Bolts, Add	20.64	
33 01 30 51-0004 EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	192.04	
For Stainless Steel Nuts And Bolts, Add	31.10	
33 01 30 51-0005 EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	221.06	
For Stainless Steel Nuts And Bolts, Add	36.63	
33 01 30 51-0006 EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	251.38	
For Stainless Steel Nuts And Bolts, Add	42.14	
33 01 30 51-0007 EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	147.17	
For Stainless Steel Nuts And Bolts, Add	22.41	
33 01 30 51-0008 EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	203.97	
For Stainless Steel Nuts And Bolts, Add	33.19	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0009	EA	2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	233.12	
		For Stainless Steel Nuts And Bolts, Add	38.59	
33 01 30 51-0010	EA	2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	268.75	
		For Stainless Steel Nuts And Bolts, Add	45.15	
33 01 30 51-0011	EA	3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	157.75	
		For Stainless Steel Nuts And Bolts, Add	24.52	
33 01 30 51-0012	EA	3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	211.95	
		For Stainless Steel Nuts And Bolts, Add	34.70	
33 01 30 51-0013	EA	3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	244.37	
		For Stainless Steel Nuts And Bolts, Add	40.68	
33 01 30 51-0014	EA	3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	283.87	
		For Stainless Steel Nuts And Bolts, Add	48.30	
33 01 30 51-0015	EA	4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	177.44	
		For Stainless Steel Nuts And Bolts, Add	27.88	
33 01 30 51-0016	EA	4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	233.52	
		For Stainless Steel Nuts And Bolts, Add	37.53	
33 01 30 51-0017	EA	4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	282.98	
		For Stainless Steel Nuts And Bolts, Add	45.68	
33 01 30 51-0018	EA	4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	340.83	
		For Stainless Steel Nuts And Bolts, Add	55.11	
33 01 30 51-0019	EA	4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	443.31	
		For Stainless Steel Nuts And Bolts, Add	74.02	
33 01 30 51-0020	EA	4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	550.52	
		For Stainless Steel Nuts And Bolts, Add	92.93	
33 01 30 51-0021	EA	4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	670.88	
		For Stainless Steel Nuts And Bolts, Add	113.99	
33 01 30 51-0022	EA	6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	208.43	
		For Stainless Steel Nuts And Bolts, Add	32.90	
33 01 30 51-0023	EA	6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	275.77	
		For Stainless Steel Nuts And Bolts, Add	44.63	
33 01 30 51-0024	EA	6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	326.89	
		For Stainless Steel Nuts And Bolts, Add	52.62	
33 01 30 51-0025	EA	6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	383.58	
		For Stainless Steel Nuts And Bolts, Add	61.15	
33 01 30 51-0026	EA	6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	526.52	
		For Stainless Steel Nuts And Bolts, Add	88.61	
33 01 30 51-0027	EA	6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	639.82	
		For Stainless Steel Nuts And Bolts, Add	108.06	
33 01 30 51-0028	EA	6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	764.13	
		For Stainless Steel Nuts And Bolts, Add	129.12	
33 01 30 51-0029	EA	8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	275.75	
		For Stainless Steel Nuts And Bolts, Add	39.36	
33 01 30 51-0030	EA	8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	357.22	
		For Stainless Steel Nuts And Bolts, Add	52.08	
33 01 30 51-0031	EA	8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	430.97	
		For Stainless Steel Nuts And Bolts, Add	63.02	
33 01 30 51-0032	EA	8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	514.86	
		For Stainless Steel Nuts And Bolts, Add	75.10	
33 01 30 51-0033	EA	8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	678.62	
		For Stainless Steel Nuts And Bolts, Add	104.04	
33 01 30 51-0034	EA	8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	811.67	
		For Stainless Steel Nuts And Bolts, Add	124.41	
33 01 30 51-0035	EA	8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	962.33	
		For Stainless Steel Nuts And Bolts, Add	146.43	
33 01 30 51-0036	EA	10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	320.75	
		For Stainless Steel Nuts And Bolts, Add	47.90	
33 01 30 51-0037	EA	10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	428.68	
		For Stainless Steel Nuts And Bolts, Add	66.26	
33 01 30 51-0038	EA	10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	505.55	
		For Stainless Steel Nuts And Bolts, Add	77.47	
33 01 30 51-0039	EA	10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	619.35	
		For Stainless Steel Nuts And Bolts, Add	95.82	
33 01 30 51-0040	EA	10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	808.36	
		For Stainless Steel Nuts And Bolts, Add	129.97	
33 01 30 51-0041	EA	10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	923.24	
		For Stainless Steel Nuts And Bolts, Add	145.27	
33 01 30 51-0042	EA	10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,182.47	
		For Stainless Steel Nuts And Bolts, Add	191.65	
33 01 30 51-0043	EA	12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	365.70	
		For Stainless Steel Nuts And Bolts, Add	54.03	
33 01 30 51-0044	EA	12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	475.93	
		For Stainless Steel Nuts And Bolts, Add	71.86	
33 01 30 51-0045	EA	12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	574.25	
		For Stainless Steel Nuts And Bolts, Add	86.96	
33 01 30 51-0046	EA	12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	705.22	
		For Stainless Steel Nuts And Bolts, Add	108.06	
33 01 30 51-0047	EA	12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	903.04	
		For Stainless Steel Nuts And Bolts, Add	142.72	
33 01 30 51-0048	EA	12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,063.38	
		For Stainless Steel Nuts And Bolts, Add	166.67	
33 01 30 51-0049	EA	12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,346.33	
		For Stainless Steel Nuts And Bolts, Add	216.11	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001)				
Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.				
33 01 30 51-0051	EA	14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	789.32	
		For Stainless Steel Nuts And Bolts, Add	207.89	
33 01 30 51-0052	EA	14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,114.58	
		For Stainless Steel Nuts And Bolts, Add	300.12	
33 01 30 51-0053	EA	14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,498.51	
		For Stainless Steel Nuts And Bolts, Add	407.00	
33 01 30 51-0054	EA	14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,195.91	
		For Stainless Steel Nuts And Bolts, Add	613.43	
33 01 30 51-0055	EA	15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	828.56	
		For Stainless Steel Nuts And Bolts, Add	218.12	
33 01 30 51-0056	EA	15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,166.88	
		For Stainless Steel Nuts And Bolts, Add	314.03	
33 01 30 51-0057	EA	15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,565.21	
		For Stainless Steel Nuts And Bolts, Add	424.56	
33 01 30 51-0058	EA	15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,302.25	
		For Stainless Steel Nuts And Bolts, Add	642.70	
33 01 30 51-0059	EA	15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	850.66	
		For Stainless Steel Nuts And Bolts, Add	222.53	
33 01 30 51-0060	EA	15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,195.89	
		For Stainless Steel Nuts And Bolts, Add	319.90	
33 01 30 51-0061	EA	15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,607.61	
		For Stainless Steel Nuts And Bolts, Add	434.08	
33 01 30 51-0062	EA	15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,362.75	
		For Stainless Steel Nuts And Bolts, Add	656.60	
33 01 30 51-0063	EA	16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	874.04	
		For Stainless Steel Nuts And Bolts, Add	226.92	
33 01 30 51-0064	EA	16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,229.01	
		For Stainless Steel Nuts And Bolts, Add	326.48	
33 01 30 51-0065	EA	16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,649.58	
		For Stainless Steel Nuts And Bolts, Add	442.13	
33 01 30 51-0066	EA	16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,423.76	
		For Stainless Steel Nuts And Bolts, Add	669.79	
33 01 30 51-0067	EA	17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	895.30	
		For Stainless Steel Nuts And Bolts, Add	230.58	
33 01 30 51-0068	EA	17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,257.78	
		For Stainless Steel Nuts And Bolts, Add	331.60	
33 01 30 51-0069	EA	17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,691.55	
		For Stainless Steel Nuts And Bolts, Add	450.18	
33 01 30 51-0070	EA	17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,479.63	
		For Stainless Steel Nuts And Bolts, Add	680.76	
33 01 30 51-0071	EA	17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	915.23	
		For Stainless Steel Nuts And Bolts, Add	234.25	
33 01 30 51-0072	EA	17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,286.78	
		For Stainless Steel Nuts And Bolts, Add	337.45	
33 01 30 51-0073	EA	17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,728.81	
		For Stainless Steel Nuts And Bolts, Add	457.50	
33 01 30 51-0074	EA	17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,516.64	
		For Stainless Steel Nuts And Bolts, Add	686.25	
33 01 30 51-0075	EA	18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	937.79	
		For Stainless Steel Nuts And Bolts, Add	238.81	
33 01 30 51-0076	EA	18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,320.73	
		For Stainless Steel Nuts And Bolts, Add	344.77	
33 01 30 51-0077	EA	18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,768.15	
		For Stainless Steel Nuts And Bolts, Add	465.55	



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0078	EA	18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,593.36 705.65	
33 01 30 51-0079		Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080		Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081		Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082	EA	1/2" Copper Compression Repair Coupling	97.77	
33 01 30 51-0083	EA	3/4" Copper Compression Repair Coupling	113.76	
33 01 30 51-0084	EA	1" Copper Compression Repair Coupling	133.73	
33 01 30 51-0085	EA	1-1/4" Copper Compression Repair Coupling	150.44	
33 01 30 51-0086	EA	1-1/2" Copper Compression Repair Coupling	232.25	
33 01 30 51-0087		Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088	EA	1/2" Copper Compression Repair 90 Degree Elbow	117.39	
33 01 30 51-0089	EA	1" Copper Compression Repair 90 Degree Elbow	136.54	
33 01 30 51-0090	EA	1-1/2" Copper Compression Repair 90 Degree Elbow	276.85	
33 01 30 51-0091	EA	1" IPS x 1" CTS 90 Degree Plain End Street Elbow	110.27	
33 01 30 51-0092	EA	3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	99.06	
33 01 30 51-0093	EA	1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	115.95	
33 01 30 51-0094	EA	1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	143.35	
33 01 30 51-0095		Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096	EA	1/2" Copper Compression Repair Tee	215.18	
33 01 30 51-0097	EA	3/4" Copper Compression Repair Tee	167.14	
33 01 30 51-0098	EA	1" Copper Compression Repair Tee	198.55	
33 01 30 51-0099	EA	1" F x 1" M x 1" CTS Street Tee	163.77	
33 01 30 51-0100		Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101	EA	3/4" M x 1/2" CTS Male Adapter	101.54	
33 01 30 51-0102	EA	3/4" M x 3/4" CTS Male Adapter	81.68	
33 01 30 51-0103	EA	1" M x 1" CTS Male Adapter	93.16	
33 01 30 51-0104	EA	1-1/4" M x 1" CTS Male Adapter	113.46	
33 01 30 51-0105	EA	1-1/4" M x 1-1/4" CTS Male Adapter	135.52	
33 01 30 51-0106	EA	1-1/2" M x 1" CTS Male Adapter	147.97	
33 01 30 51-0107		Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108	EA	3/4" M x 3/4" CTS Female Adapter	118.94	
33 01 30 51-0109	EA	1" M x 1" CTS Female Adapter	126.19	
33 01 30 51-0110		Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111		Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110) Note: Includes gaskets.		
33 01 30 51-0112	EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring	70.64	
33 01 30 51-0113	EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring	72.55	
33 01 30 51-0114	EA	1" Coupling, Cast Body (Compression), 5" Middle Ring	81.96	
33 01 30 51-0115	EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring	91.45	
33 01 30 51-0116	EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring	113.15	
33 01 30 51-0117	EA	2" Coupling, Cast Body (Compression), 5" Middle Ring	137.49	
33 01 30 51-0118	EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	72.46	
33 01 30 51-0119	EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	74.55	
33 01 30 51-0120	EA	1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	82.26	
33 01 30 51-0121	EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	92.38	
33 01 30 51-0122	EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	116.20	
33 01 30 51-0123	EA	2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	138.83	
33 01 30 51-0124	EA	3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	134.88	
33 01 30 51-0125	EA	1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	157.78	
33 01 30 51-0126	EA	1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	164.91	
33 01 30 51-0127	EA	1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	186.45	
33 01 30 51-0128	EA	2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	226.72	
33 01 30 51-0129		Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110) Note: Includes armored gaskets.		
33 01 30 51-0130	EA	3/4" x 1/2" Reducing Coupling (Compression)	78.61	
33 01 30 51-0131	EA	1" x 3/4" Reducing Coupling (Compression)	83.93	
33 01 30 51-0132	EA	1-1/4" x 3/4" Reducing Coupling (Compression)	94.77	
33 01 30 51-0133	EA	1-1/4" x 1" Reducing Coupling (Compression)	98.12	
33 01 30 51-0134	EA	1-1/2" x 3/4" Reducing Coupling (Compression)	183.10	
33 01 30 51-0135	EA	1-1/2" x 1" Reducing Coupling (Compression)	118.35	
33 01 30 51-0136	EA	1-1/2" x 1-1/4" Reducing Coupling (Compression)	118.82	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0137	EA	2" x 3/4" Reducing Coupling (Compression)	.....	218.75	
33 01 30 51-0138	EA	2" x 1" Reducing Coupling (Compression)	.....	200.15	
33 01 30 51-0139	EA	2" x 1-1/4" Reducing Coupling (Compression)	.....	155.89	
33 01 30 51-0140	EA	2" x 1-1/2" Reducing Coupling (Compression)	.....	155.40	
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)					
Note: Includes armored gaskets.					
33 01 30 51-0142	EA	1" 45 Degree Elbow (Compression)	.....	126.63	
33 01 30 51-0143	EA	1-1/4" 45 Degree Elbow (Compression)	.....	132.71	
33 01 30 51-0144	EA	1-1/2" 45 Degree Elbow (Compression)	.....	171.07	
33 01 30 51-0145	EA	2" 45 Degree Elbow (Compression)	.....	215.27	
33 01 30 51-0146	EA	3/4" 90 Degree Elbow (Compression)	.....	86.33	
33 01 30 51-0147	EA	1" 90 Degree Elbow (Compression)	.....	90.39	
33 01 30 51-0148	EA	1-1/4" 90 Degree Elbow (Compression)	.....	105.65	
33 01 30 51-0149	EA	1-1/2" 90 Degree Elbow (Compression)	.....	149.12	
33 01 30 51-0150	EA	2" 90 Degree Elbow (Compression)	.....	164.52	
33 01 30 51-0151	EA	3/4" Plain End 90 Degree Street Elbow (Compression)	.....	86.58	
33 01 30 51-0152	EA	1" Plain End 90 Degree Street Elbow (Compression)	.....	78.33	
33 01 30 51-0153	EA	1-1/4" Plain End 90 Degree Street Elbow (Compression)	.....	88.58	
33 01 30 51-0154	EA	1-1/2" Plain End 90 Degree Street Elbow (Compression)	.....	111.91	
33 01 30 51-0155	EA	2" Plain End 90 Degree Street Elbow (Compression)	.....	143.48	
33 01 30 51-0156	EA	3/4" Threaded End 90 Degree Street Elbow (Compression)	.....	89.20	
33 01 30 51-0157	EA	1" Threaded End 90 Degree Street Elbow (Compression)	.....	83.24	
33 01 30 51-0158	EA	1-1/4" Threaded End 90 Degree Street Elbow (Compression)	.....	106.82	
33 01 30 51-0159	EA	1-1/2" Threaded End 90 Degree Street Elbow (Compression)	.....	129.31	
33 01 30 51-0160	EA	2" Threaded End 90 Degree Street Elbow (Compression)	.....	180.69	
33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110)					
Note: Includes armored gaskets.					
33 01 30 51-0162	EA	3/4" Street Tee (Compression)	.....	97.85	
33 01 30 51-0163	EA	1" Street Tee (Compression)	.....	115.07	
33 01 30 51-0164	EA	1-1/4" Street Tee (Compression)	.....	117.96	
33 01 30 51-0165	EA	1-1/2" Street Tee (Compression)	.....	137.58	
33 01 30 51-0166	EA	2" Street Tee (Compression)	.....	202.49	
33 01 30 51-0167	EA	1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression)	.....	117.01	
33 01 30 51-0168	EA	1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression)	.....	121.77	
33 01 30 51-0169	EA	1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression)	.....	152.47	
33 01 30 51-0170	EA	1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression)	.....	173.94	
33 01 30 51-0171	EA	1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression)	.....	174.89	
33 01 30 51-0172	EA	1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression)	.....	150.45	
33 01 30 51-0173	EA	2" x 1-1/4" x 2" Reducing Street Tee (Compression)	.....	197.85	
33 01 30 51-0174	EA	2" x 1-1/2" x 2" Reducing Street Tee (Compression)	.....	221.71	
33 01 30 51-0175	EA	3/4" Welding Street Tee (Compression)	.....	169.43	
33 01 30 51-0176	EA	1" Welding Street Tee (Compression)	.....	171.72	
33 01 30 51-0177	EA	1-1/4" Welding Street Tee (Compression)	.....	185.10	
33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression)	.....	223.46	
33 01 30 51-0179	EA	2" Welding Street Tee (Compression)	.....	298.29	
33 01 30 51-0180	EA	3/4" Regular Tee (Compression)	.....	127.79	
33 01 30 51-0181	EA	1" Regular Tee (Compression)	.....	217.15	
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression)	.....	230.43	
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression)	.....	250.05	
33 01 30 51-0184	EA	2" Regular Tee (Compression)	.....	278.96	
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression)	.....	275.14	
33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)					
Note: Includes armored gaskets.					
33 01 30 51-0187	EA	3/4" Male Adapter (Compression)	.....	86.11	
33 01 30 51-0188	EA	1" Male Adapter (Compression)	.....	96.34	
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression)	.....	124.25	
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression)	.....	141.50	
33 01 30 51-0191	EA	2" Male Adapter (Compression)	.....	160.53	
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression)	.....	123.63	
33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)					
Note: Includes armored gaskets.					
33 01 30 51-0194	EA	3/4" Line Caps (Compression)	.....	45.99	
33 01 30 51-0195	EA	1" Line Caps (Compression)	.....	53.55	
33 01 30 51-0196	EA	1-1/4" Line Caps (Compression)	.....	61.23	
33 01 30 51-0197	EA	1-1/2" Line Caps (Compression)	.....	72.41	
33 01 30 51-0198	EA	2" Line Caps (Compression)	.....	89.20	
33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)					
Note: Includes Buna S gasket. Dresser style 38					
33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket	.....	52.26	
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket	.....	67.22	
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket	.....	80.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0203 EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	101.18	
33 01 30 51-0204 EA 2" Coupling, 4" Middle Ring With Buna S Gasket.....	124.77	
33 01 30 51-0205 EA 2" Coupling, 5" Middle Ring With Buna S Gasket.....	142.03	
33 01 30 51-0206 EA 2" Coupling, 7" Middle Ring With Buna S Gasket.....	137.74	
33 01 30 51-0207 EA 3" Coupling, 4" Middle Ring With Buna S Gasket.....	189.41	
33 01 30 51-0208 EA 3" Coupling, 5" Middle Ring With Buna S Gasket.....	192.01	
33 01 30 51-0209 EA 3" Coupling, 7" Middle Ring With Buna S Gasket.....	194.61	
33 01 30 51-0210 EA 4" Coupling, 4" Middle Ring With Buna S Gasket.....	229.94	
33 01 30 51-0211 EA 4" Coupling, 5" Middle Ring With Buna S Gasket.....	234.35	
33 01 30 51-0212 EA 4" Coupling, 7" Middle Ring With Buna S Gasket.....	239.88	
33 01 30 51-0213 EA 5" Coupling, 4" Middle Ring With Buna S Gasket.....	286.31	
33 01 30 51-0214 EA 5" Coupling, 5" Middle Ring With Buna S Gasket.....	288.05	
33 01 30 51-0215 EA 5" Coupling, 7" Middle Ring With Buna S Gasket.....	294.39	
33 01 30 51-0216 EA 6" Coupling, 4" Middle Ring With Buna S Gasket.....	317.32	
33 01 30 51-0217 EA 6" Coupling, 5" Middle Ring With Buna S Gasket.....	322.03	
33 01 30 51-0218 EA 6" Coupling, 7" Middle Ring With Buna S Gasket.....	328.05	
33 01 30 51-0219 EA 8" Coupling, 4" Middle Ring With Buna S Gasket.....	371.66	
33 01 30 51-0220 EA 8" Coupling, 5" Middle Ring With Buna S Gasket.....	378.63	
33 01 30 51-0221 EA 8" Coupling, 7" Middle Ring With Buna S Gasket.....	384.35	
33 01 30 51-0222 EA 10" Coupling, 5" Middle Ring With Buna S Gasket.....	435.89	
33 01 30 51-0223 EA 10" Coupling, 7" Middle Ring With Buna S Gasket.....	468.78	
33 01 30 51-0224 EA 12" Coupling, 5" Middle Ring With Buna S Gasket.....	494.37	
33 01 30 51-0225 EA 12" Coupling, 7" Middle Ring With Buna S Gasket.....	564.09	
33 01 30 51-0226 EA 14" Coupling, 7" Middle Ring With Buna S Gasket.....	637.17	
33 01 30 51-0227 EA 16" Coupling, 7" Middle Ring With Buna S Gasket.....	730.83	
33 01 30 51-0228 EA 18" Coupling, 7" Middle Ring With Buna S Gasket.....	798.66	
33 01 30 51-0229 EA 20" Coupling, 7" Middle Ring With Buna S Gasket.....	861.30	
33 01 30 51-0230 EA 22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,011.03	
33 01 30 51-0231 EA 24" Coupling, 7" Middle Ring With Buna S Gasket.....	1,069.77	

33 01 30 51-0232

Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket, protected. Dresser style 38.

33 01 30 51-0233 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	53.01
33 01 30 51-0234 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	67.12
33 01 30 51-0235 EA 1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	80.78
33 01 30 51-0236 EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	100.84
33 01 30 51-0237 EA 2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	134.69
33 01 30 51-0238 EA 2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	133.32
33 01 30 51-0239 EA 2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	134.01
33 01 30 51-0240 EA 3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	194.61
33 01 30 51-0241 EA 3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	197.21
33 01 30 51-0242 EA 3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	199.81
33 01 30 51-0243 EA 4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	237.02
33 01 30 51-0244 EA 4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	232.44
33 01 30 51-0245 EA 4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	234.85
33 01 30 51-0246 EA 5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	295.43
33 01 30 51-0247 EA 5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	296.71
33 01 30 51-0248 EA 5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	355.68
33 01 30 51-0249 EA 6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	320.11
33 01 30 51-0250 EA 6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	326.88
33 01 30 51-0251 EA 6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	329.49
33 01 30 51-0252 EA 8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	386.79
33 01 30 51-0253 EA 8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	389.36
33 01 30 51-0254 EA 8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	393.50
33 01 30 51-0255 EA 10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	442.13
33 01 30 51-0256 EA 10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	475.28
33 01 30 51-0257 EA 12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	500.87
33 01 30 51-0258 EA 12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	570.45
33 01 30 51-0259 EA 14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	643.67
33 01 30 51-0260 EA 16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	740.58
33 01 30 51-0261 EA 18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	811.66
33 01 30 51-0262 EA 20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	874.30
33 01 30 51-0263 EA 22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,024.03
33 01 30 51-0264 EA 24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,082.77

33 01 30 51-0265

Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna N gasket, protected. Dresser style 38.

33 01 30 51-0266 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected.....	57.63
33 01 30 51-0267 EA 3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	71.82
33 01 30 51-0268 EA 1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	86.30
33 01 30 51-0269 EA 1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	108.01
33 01 30 51-0270 EA 2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	134.69
33 01 30 51-0271 EA 2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	146.30
33 01 30 51-0272 EA 2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	150.16
33 01 30 51-0273 EA 3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	194.61
33 01 30 51-0274 EA 3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	197.21
33 01 30 51-0275 EA 3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	199.81
33 01 30 51-0276 EA 4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	237.02
33 01 30 51-0277 EA 4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	246.29

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0278 EA 4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	249.82	
33 01 30 51-0279 EA 5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	295.43	
33 01 30 51-0280 EA 5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	296.71	
33 01 30 51-0281 EA 5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	311.59	
33 01 30 51-0282 EA 6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	320.11	
33 01 30 51-0283 EA 6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	326.88	
33 01 30 51-0284 EA 6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	329.49	
33 01 30 51-0285 EA 8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	386.79	
33 01 30 51-0286 EA 8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	389.36	
33 01 30 51-0287 EA 8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	393.50	
33 01 30 51-0288 EA 10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	442.13	
33 01 30 51-0289 EA 10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	475.28	
33 01 30 51-0290 EA 12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	500.87	
33 01 30 51-0291 EA 12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	570.45	
33 01 30 51-0292 EA 14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	643.67	
33 01 30 51-0293 EA 16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	730.83	
33 01 30 51-0294 EA 18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	811.66	
33 01 30 51-0295 EA 20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	874.30	
33 01 30 51-0296 EA 22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,024.03	
33 01 30 51-0297 EA 24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,082.77	

33 01 30 51-0298**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected. Dresser style 38.

33 01 30 51-0299 EA 3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	88.13	
33 01 30 51-0300 EA 1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	101.21	
33 01 30 51-0301 EA 1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	117.10	
33 01 30 51-0302 EA 2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	162.18	
33 01 30 51-0303 EA 2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	169.30	
33 01 30 51-0304 EA 2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	172.92	
33 01 30 51-0305 EA 3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	219.67	
33 01 30 51-0306 EA 3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	218.85	
33 01 30 51-0307 EA 4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	259.29	
33 01 30 51-0308 EA 4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	262.82	
33 01 30 51-0309 EA 5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	337.07	
33 01 30 51-0310 EA 5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	341.75	
33 01 30 51-0311 EA 6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	370.98	
33 01 30 51-0312 EA 6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	374.09	
33 01 30 51-0313 EA 8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	409.09	
33 01 30 51-0314 EA 8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	455.61	
33 01 30 51-0315 EA 8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	474.58	
33 01 30 51-0316 EA 10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	506.86	
33 01 30 51-0317 EA 10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	506.80	
33 01 30 51-0318 EA 12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	611.59	
33 01 30 51-0319 EA 12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	625.88	
33 01 30 51-0320 EA 14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	708.96	
33 01 30 51-0321 EA 16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	841.21	
33 01 30 51-0322 EA 18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	855.86	
33 01 30 51-0323 EA 20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	941.25	
33 01 30 51-0324 EA 22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,015.58	
33 01 30 51-0325 EA 24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,095.77	

33 01 30 51-0326**Grind Offset Joint** (33 01 30 51-0001)

33 01 30 51-0327 EA 6" To 10", Grind Drop Offset Joint.....	419.86	
33 01 30 51-0328 EA >10" To 15", Grind Drop Offset Joint.....	559.81	
33 01 30 51-0329 EA >15" To 24", Grind Drop Offset Joint.....	699.76	
33 01 30 51-0330 EA >24" To 30", Grind Drop Offset Joint.....	839.72	

33 01 30 51-0331**Temporary Pipe Plugging** (33 01 30 51-0001)**33 01 30 51-0332****Gravity Bladder Pipe Plugging** (33 01 30 51-0331)

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.

33 01 30 51-0333 EA 3/4" Bladder Type Pipe Plug.....	73.50	
33 01 30 51-0334 EA 1" Bladder Type Pipe Plug.....	78.83	
33 01 30 51-0335 EA 1-1/4" Bladder Type Pipe Plug.....	86.11	
33 01 30 51-0336 EA 1-1/2" Bladder Type Pipe Plug.....	92.60	
33 01 30 51-0337 EA 2" Bladder Type Pipe Plug.....	98.70	
33 01 30 51-0338 EA 2-1/2" Bladder Type Pipe Plug.....	105.95	
33 01 30 51-0339 EA 3" Bladder Type Pipe Plug.....	116.09	
33 01 30 51-0340 EA 4" Bladder Type Pipe Plug.....	128.10	
33 01 30 51-0341 EA 5" Bladder Type Pipe Plug.....	138.54	
33 01 30 51-0342 EA 6" Bladder Type Pipe Plug.....	154.13	
33 01 30 51-0343 EA 8" Bladder Type Pipe Plug.....	171.42	
33 01 30 51-0344 EA 10" Bladder Type Pipe Plug.....	198.44	
33 01 30 51-0345 EA 12" Bladder Type Pipe Plug.....	239.96	
33 01 30 51-0346 EA 14" Bladder Type Pipe Plug.....	284.14	
33 01 30 51-0347 EA 16" Bladder Type Pipe Plug.....	341.66	
33 01 30 51-0348 EA 18" Bladder Type Pipe Plug.....	410.83	
33 01 30 51-0349 EA 20" Bladder Type Pipe Plug.....	494.60	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 01 30 51-0350	EA	24" Bladder Type Pipe Plug.....		573.51	
33 01 30 51-0351 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0331)					
Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.					
33 01 30 51-0352	EA	2" Hydra Stop, Line Stopper		2,312.49	
33 01 30 51-0353	EA	2-1/2" Hydra Stop, Line Stopper		2,901.42	
33 01 30 51-0354	EA	3" Hydra Stop, Line Stopper		3,555.23	
33 01 30 51-0355	EA	4" Hydra Stop, Line Stopper		4,300.62	
33 01 30 51-0356	EA	5" Hydra Stop, Line Stopper		4,862.19	
33 01 30 51-0357	EA	6" Hydra Stop, Line Stopper		5,769.12	
33 01 30 51-0358	EA	8" Hydra Stop, Line Stopper		6,330.71	
33 01 30 51-0359	EA	10" Hydra Stop, Line Stopper		7,237.62	
33 01 30 51-0360	EA	12" Hydra Stop, Line Stopper		8,144.56	
33 01 30 51-0361	EA	14" Hydra Stop, Line Stopper		9,105.52	
33 01 30 51-0362	EA	16" Hydra Stop, Line Stopper		10,390.91	
33 01 30 51-0363	EA	18" Hydra Stop, Line Stopper		11,838.45	
33 01 30 51-0364	EA	20" Hydra Stop, Line Stopper		14,042.75	
33 01 30 51-0365 Aluminum Expansion Plugs (33 01 30 51-0331)					
Note: For use with PVC, clay Or cast iron drainage pipe.					
33 01 30 51-0366	EA	3" Pipe Aluminum Expansion Plug.....		69.68	
33 01 30 51-0367	EA	4" Pipe Aluminum Expansion Plug.....		98.02	
33 01 30 51-0368	EA	5" Pipe Aluminum Expansion Plug.....		110.22	
33 01 30 51-0369	EA	6" Pipe Aluminum Expansion Plug.....		164.38	
33 01 30 51-0370	EA	8" Pipe Aluminum Expansion Plug.....		169.24	
33 01 30 51-0371	EA	10" Pipe Aluminum Expansion Plug.....		210.25	
33 01 30 51-0372	EA	12" Pipe Aluminum Expansion Plug.....		281.73	
33 01 30 51-0373	EA	14" Pipe Aluminum Expansion Plug.....		449.81	
33 01 30 51-0374	EA	15" Pipe Aluminum Expansion Plug.....		486.67	
33 01 30 51-0375 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)					
33 01 30 51-0376	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		183.34	
33 01 30 51-0377	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		183.52	
33 01 30 51-0378	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		183.96	
33 01 30 51-0379	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long		184.40	
33 01 30 51-0380	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long		184.62	
33 01 30 51-0381	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		185.28	
33 01 30 51-0382	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long		185.94	
33 01 30 51-0383	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		186.82	
33 01 30 51-0384	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		337.33	
33 01 30 51-0385	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		340.19	
33 01 30 51-0386	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		342.18	
33 01 30 51-0387	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		363.13	
33 01 30 51-0388	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		365.78	
33 01 30 51-0389	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		367.55	
33 01 30 51-0390	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		370.19	
33 01 30 51-0391	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		372.84	
33 01 30 51-0392	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		376.37	
33 01 30 51-0393	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....		382.54	
33 01 30 51-0394 Polyseal Pipe Coupler (33 01 30 51-0001)					
33 01 30 51-0395	EA	18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....		370.29	
33 01 30 51-0396	EA	24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....		418.70	
33 01 30 63 Sewer and Pipe Joint Sealing (33 01 30)					
33 01 30 63-0001 Joint Air Test (33 01 30 63)					
33 01 30 63-0002	EA	4" To 8", Joint Air Test		103.69	
33 01 30 63-0003	EA	10" To 15", Joint Air Test		120.98	
33 01 30 63-0004	EA	>15" To 21", Joint Air Test		138.26	
33 01 30 63-0005	EA	>21" To 24", Joint Air Test		172.83	
33 01 30 63-0006	EA	>24" To 27", Joint Air Test		207.39	
33 01 30 63-0007	EA	>27" To 36", Joint Air Test		241.95	
33 01 30 63-0008 Joint Seal And Joint Air Retest (33 01 30 63)					
Note: Includes grout.					
33 01 30 63-0009	EA	4" Joint Seal And Joint Air Retest		305.67	
Note: Includes up to 1 gallon of grout.					
33 01 30 63-0010	EA	6" Joint Seal And Joint Air Retest		340.23	
Note: Includes 1 gallon of grout.					
33 01 30 63-0011	EA	8" Joint Seal And Joint Air Retest		403.95	
Note: Includes 2 gallons of grout.					
33 01 30 63-0012	EA	10" Joint Seal And Joint Air Retest		453.10	
Note: Includes 2.5 gallons of grout.					

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 63-0013 EA 12" Joint Seal And Joint Air Retest Note: Includes 3 gallons of grout.	502.23	
33 01 30 63-0014 EA 15" Joint Seal And Joint Air Retest Note: Includes 3.75 gallons of grout.	593.22	
33 01 30 63-0015 EA 18" Joint Seal And Joint Air Retest Note: Includes 4.5 gallons of grout.	684.22	
33 01 30 63-0016 EA 21" Joint Seal And Joint Air Retest Note: Includes 5.25 gallons of grout.	775.21	
33 01 30 63-0017 EA 24" Joint Seal And Joint Air Retest Note: Includes 6 gallons of grout.	900.76	
33 01 30 63-0018 EA 27" Joint Seal And Joint Air Retest Note: Includes 6.75 gallons of grout.	1,026.33	
33 01 30 63-0019 EA 30" Joint Seal And Joint Air Retest Note: Includes 7.5 gallons of grout.	1,186.46	
33 01 30 63-0020 EA 36" Joint Seal And Joint Air Retest Note: Includes 9 gallons of grout.	1,368.43	
33 01 30 63-0021 GAL Extra Grout Per Joint Note: For extra grout per joint required over listed amount.	167.41	

33 01 30 71 Relining Sewer Utilities Pipelines (33 01 30)**33 01 30 71-0001 Relining Underground Pipelines (33 01 30 71)**

Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 71-0002 Lining Pipe With Rib Loc (33 01 30 71-0001)

33 01 30 71-0003 LF Lining 6" Pipe With Rib Loc.....	41.28	
For >500 To 1,000, Deduct	-1.06	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000 To 5,000, Deduct	-3.18	
For >5,000, Deduct	-4.71	
33 01 30 71-0004 LF Lining 8" Pipe With Rib Loc.....	45.90	
For >500 To 1,000, Deduct	-1.17	
For >1,000 To 2,000, Deduct	-2.28	
For >2,000 To 5,000, Deduct	-3.52	
For >5,000, Deduct	-5.23	
33 01 30 71-0005 LF Lining 10" Pipe With Rib Loc.....	63.46	
For >500 To 1,000, Deduct	-1.55	
For >1,000 To 2,000, Deduct	-3.02	
For >2,000 To 5,000, Deduct	-4.64	
For >5,000, Deduct	-7.04	
33 01 30 71-0006 LF Lining 12" Pipe With Rib Loc.....	80.70	
For >500 To 1,000, Deduct	-1.92	
For >1,000 To 2,000, Deduct	-3.76	
For >2,000 To 5,000, Deduct	-5.76	
For >5,000, Deduct	-8.83	
33 01 30 71-0007 LF Lining 15" Pipe With Rib Loc.....	107.32	
For >500 To 1,000, Deduct	-2.49	
For >1,000 To 2,000, Deduct	-4.90	
For >2,000 To 5,000, Deduct	-7.48	
For >5,000, Deduct	-11.60	
33 01 30 71-0008 LF Lining 18" Pipe With Rib Loc.....	138.36	
For >500 To 1,000, Deduct	-3.16	
For >1,000 To 2,000, Deduct	-6.22	
For >2,000 To 5,000, Deduct	-9.48	
For >5,000, Deduct	-14.81	
33 01 30 71-0009 LF Lining 21" Pipe With Rib Loc.....	173.64	
For >500 To 1,000, Deduct	-3.90	
For >1,000 To 2,000, Deduct	-7.69	
For >2,000 To 5,000, Deduct	-11.69	
For >5,000, Deduct	-18.42	
33 01 30 71-0010 LF Lining 24" Pipe With Rib Loc.....	214.77	
For >500 To 1,000, Deduct	-4.76	
For >1,000 To 2,000, Deduct	-9.40	
For >2,000 To 5,000, Deduct	-14.27	
For >5,000, Deduct	-22.63	
33 01 30 71-0011 LF Lining 27" Pipe With Rib Loc.....	257.21	
For >500 To 1,000, Deduct	-5.65	
For >1,000 To 2,000, Deduct	-11.18	
For >2,000 To 5,000, Deduct	-16.96	
For >5,000, Deduct	-26.99	
33 01 30 71-0012 LF Lining 30" Pipe With Rib Loc.....	305.10	
For >500 To 1,000, Deduct	-6.67	
For >1,000 To 2,000, Deduct	-13.19	
For >2,000 To 5,000, Deduct	-20.00	
For >5,000, Deduct	-31.92	
33 01 30 71-0013 LF Lining 36" Pipe With Rib Loc.....	388.92	
For >500 To 1,000, Deduct	-8.41	
For >1,000 To 2,000, Deduct	-16.67	
For >2,000 To 5,000, Deduct	-25.24	
For >5,000, Deduct	-40.48	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0014 LF Lining 42" Pipe With Rib Loc	484.23	
For >500 To 1,000, Deduct	-10.41	
For >1,000 To 2,000, Deduct	-20.64	
For >2,000 To 5,000, Deduct	-31.23	
For >5,000, Deduct	-50.24	
33 01 30 71-0015 LF Lining 48" Pipe With Rib Loc	592.66	
For >500 To 1,000, Deduct	-12.70	
For >1,000 To 2,000, Deduct	-25.19	
For >2,000 To 5,000, Deduct	-38.10	
For >5,000, Deduct	-61.38	
33 01 30 71-0016 LF Lining 54" Pipe With Rib Loc	700.88	
For >500 To 1,000, Deduct	-15.03	
For >1,000 To 2,000, Deduct	-29.81	
For >2,000 To 5,000, Deduct	-45.10	
For >5,000, Deduct	-72.63	
33 01 30 71-0017 LF Lining 60" Pipe With Rib Loc	827.72	
For >500 To 1,000, Deduct	-17.94	
For >1,000 To 2,000, Deduct	-35.54	
For >2,000 To 5,000, Deduct	-53.82	
For >5,000, Deduct	-86.24	
33 01 30 71-0018 LF Lining 66" Pipe With Rib Loc	984.88	
For >500 To 1,000, Deduct	-21.88	
For >1,000 To 2,000, Deduct	-43.21	
For >2,000 To 5,000, Deduct	-65.63	
For >5,000, Deduct	-103.94	
33 01 30 71-0019 LF Lining 72" Pipe With Rib Loc	1,193.99	
For >500 To 1,000, Deduct	-27.69	
For >1,000 To 2,000, Deduct	-54.43	
For >2,000 To 5,000, Deduct	-83.08	
For >5,000, Deduct	-128.93	
33 01 30 71-0020 Lining Pipe, Spray Applied With Structural Polyurethane (33 01 30 71-0001)		
Note: Two part structural polyurethane.		
33 01 30 71-0021 Mobilization And Setup For Spray Applied Structural Polyurethane Lining (33 01 30 71-0020)		
33 01 30 71-0022 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,656.78	
33 01 30 71-0023 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0024 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	49.62	
For Up To 75, Add	10.82	
For >75 To 150, Add	4.96	
For >500 To 1,000, Deduct	-1.35	
For >1,000 To 2,000, Deduct	-2.61	
For >2,000 To 5,000, Deduct	-4.05	
For >5,000, Deduct	-5.86	
33 01 30 71-0025 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	57.90	
For Up To 75, Add	12.62	
For >75 To 150, Add	5.79	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-3.05	
For >2,000 To 5,000, Deduct	-4.73	
For >5,000, Deduct	-6.83	
33 01 30 71-0026 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	66.18	
For Up To 75, Add	14.43	
For >75 To 150, Add	6.62	
For >500 To 1,000, Deduct	-1.80	
For >1,000 To 2,000, Deduct	-3.48	
For >2,000 To 5,000, Deduct	-5.40	
For >5,000, Deduct	-7.81	
33 01 30 71-0027 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	74.45	
For Up To 75, Add	16.23	
For >75 To 150, Add	7.45	
For >500 To 1,000, Deduct	-2.03	
For >1,000 To 2,000, Deduct	-3.92	
For >2,000 To 5,000, Deduct	-6.08	
For >5,000, Deduct	-8.79	
33 01 30 71-0028 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	82.72	
For Up To 75, Add	18.03	
For >75 To 150, Add	8.27	
For >500 To 1,000, Deduct	-2.25	
For >1,000 To 2,000, Deduct	-4.35	
For >2,000 To 5,000, Deduct	-6.75	
For >5,000, Deduct	-9.76	
33 01 30 71-0029 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	90.99	
For Up To 75, Add	19.84	
For >75 To 150, Add	9.10	
For >500 To 1,000, Deduct	-2.48	
For >1,000 To 2,000, Deduct	-4.79	
For >2,000 To 5,000, Deduct	-7.43	
For >5,000, Deduct	-10.74	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0030 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	99.27	
For Up To 75, Add	21.64	
For >75 To 150, Add	9.93	
For >500 To 1,000, Deduct	-2.70	
For >1,000 To 2,000, Deduct	-5.22	
For >2,000 To 5,000, Deduct	-8.10	
For >5,000, Deduct	-11.71	
33 01 30 71-0031 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	107.53	
For Up To 75, Add	23.44	
For >75 To 150, Add	10.75	
For >500 To 1,000, Deduct	-2.93	
For >1,000 To 2,000, Deduct	-5.66	
For >2,000 To 5,000, Deduct	-8.78	
For >5,000, Deduct	-12.69	
33 01 30 71-0032 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	115.82	
For Up To 75, Add	25.25	
For >75 To 150, Add	11.58	
For >500 To 1,000, Deduct	-3.15	
For >1,000 To 2,000, Deduct	-6.09	
For >2,000 To 5,000, Deduct	-9.45	
For >5,000, Deduct	-13.67	
33 01 30 71-0033 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	124.07	
For Up To 75, Add	27.05	
For >75 To 150, Add	12.41	
For >500 To 1,000, Deduct	-3.37	
For >1,000 To 2,000, Deduct	-6.53	
For >2,000 To 5,000, Deduct	-10.12	
For >5,000, Deduct	-14.64	
33 01 30 71-0034 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	132.35	
For Up To 75, Add	28.85	
For >75 To 150, Add	13.24	
For >500 To 1,000, Deduct	-3.60	
For >1,000 To 2,000, Deduct	-6.96	
For >2,000 To 5,000, Deduct	-10.80	
For >5,000, Deduct	-15.62	
33 01 30 71-0035 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	140.63	
For Up To 75, Add	30.66	
For >75 To 150, Add	14.06	
For >500 To 1,000, Deduct	-3.83	
For >1,000 To 2,000, Deduct	-7.40	
For >2,000 To 5,000, Deduct	-11.48	
For >5,000, Deduct	-16.60	
33 01 30 71-0036 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	148.89	
For Up To 75, Add	32.46	
For >75 To 150, Add	14.89	
For >500 To 1,000, Deduct	-4.05	
For >1,000 To 2,000, Deduct	-7.83	
For >2,000 To 5,000, Deduct	-12.15	
For >5,000, Deduct	-17.57	
33 01 30 71-0037 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	157.17	
For Up To 75, Add	34.26	
For >75 To 150, Add	15.72	
For >500 To 1,000, Deduct	-4.28	
For >1,000 To 2,000, Deduct	-8.27	
For >2,000 To 5,000, Deduct	-12.83	
For >5,000, Deduct	-18.55	
33 01 30 71-0038 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	165.44	
For Up To 75, Add	36.07	
For >75 To 150, Add	16.54	
For >500 To 1,000, Deduct	-4.50	
For >1,000 To 2,000, Deduct	-8.70	
For >2,000 To 5,000, Deduct	-13.50	
For >5,000, Deduct	-19.52	
33 01 30 71-0039 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane.....	5.27	
33 01 30 71-0040 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0041 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	66.48	
For Up To 75, Add	14.24	
For >75 To 150, Add	6.65	
For >500 To 1,000, Deduct	-1.71	
For >1,000 To 2,000, Deduct	-3.32	
For >2,000 To 5,000, Deduct	-5.12	
For >5,000, Deduct	-7.59	
33 01 30 71-0042 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	77.56	
For Up To 75, Add	16.61	
For >75 To 150, Add	7.76	
For >500 To 1,000, Deduct	-1.99	
For >1,000 To 2,000, Deduct	-3.87	
For >2,000 To 5,000, Deduct	-5.97	
For >5,000, Deduct	-8.85	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0043	LF	48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	88.64	
		For Up To 75, Add	18.98	
		For >75 To 150, Add	8.86	
		For >500 To 1,000, Deduct	-2.27	
		For >1,000 To 2,000, Deduct	-4.42	
		For >2,000 To 5,000, Deduct	-6.82	
		For >5,000, Deduct	-10.12	
33 01 30 71-0044	LF	54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	99.73	
		For Up To 75, Add	21.36	
		For >75 To 150, Add	9.97	
		For >500 To 1,000, Deduct	-2.56	
		For >1,000 To 2,000, Deduct	-4.98	
		For >2,000 To 5,000, Deduct	-7.68	
		For >5,000, Deduct	-11.38	
33 01 30 71-0045	LF	60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	110.80	
		For Up To 75, Add	23.73	
		For >75 To 150, Add	11.08	
		For >500 To 1,000, Deduct	-2.84	
		For >1,000 To 2,000, Deduct	-5.53	
		For >2,000 To 5,000, Deduct	-8.53	
		For >5,000, Deduct	-12.65	
33 01 30 71-0046	LF	66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	121.89	
		For Up To 75, Add	26.10	
		For >75 To 150, Add	12.19	
		For >500 To 1,000, Deduct	-3.13	
		For >1,000 To 2,000, Deduct	-6.08	
		For >2,000 To 5,000, Deduct	-9.38	
		For >5,000, Deduct	-13.91	
33 01 30 71-0047	LF	72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	132.97	
		For Up To 75, Add	28.48	
		For >75 To 150, Add	13.30	
		For >500 To 1,000, Deduct	-3.41	
		For >1,000 To 2,000, Deduct	-6.64	
		For >2,000 To 5,000, Deduct	-10.24	
		For >5,000, Deduct	-15.18	
33 01 30 71-0048	LF	78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	144.05	
		For Up To 75, Add	30.85	
		For >75 To 150, Add	14.41	
		For >500 To 1,000, Deduct	-3.70	
		For >1,000 To 2,000, Deduct	-7.19	
		For >2,000 To 5,000, Deduct	-11.09	
		For >5,000, Deduct	-16.44	
33 01 30 71-0049	LF	84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	155.12	
		For Up To 75, Add	33.22	
		For >75 To 150, Add	15.51	
		For >500 To 1,000, Deduct	-3.98	
		For >1,000 To 2,000, Deduct	-7.74	
		For >2,000 To 5,000, Deduct	-11.94	
		For >5,000, Deduct	-17.71	
33 01 30 71-0050	LF	90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	166.21	
		For Up To 75, Add	35.59	
		For >75 To 150, Add	16.62	
		For >500 To 1,000, Deduct	-4.26	
		For >1,000 To 2,000, Deduct	-8.29	
		For >2,000 To 5,000, Deduct	-12.79	
		For >5,000, Deduct	-18.97	
33 01 30 71-0051	LF	96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	177.29	
		For Up To 75, Add	37.97	
		For >75 To 150, Add	17.73	
		For >500 To 1,000, Deduct	-4.55	
		For >1,000 To 2,000, Deduct	-8.85	
		For >2,000 To 5,000, Deduct	-13.65	
		For >5,000, Deduct	-20.24	
33 01 30 71-0052	LF	102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	188.36	
		For Up To 75, Add	40.34	
		For >75 To 150, Add	18.84	
		For >500 To 1,000, Deduct	-4.83	
		For >1,000 To 2,000, Deduct	-9.40	
		For >2,000 To 5,000, Deduct	-14.50	
		For >5,000, Deduct	-21.50	
33 01 30 71-0053	LF	108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	199.45	
		For Up To 75, Add	42.71	
		For >75 To 150, Add	19.95	
		For >500 To 1,000, Deduct	-5.12	
		For >1,000 To 2,000, Deduct	-9.95	
		For >2,000 To 5,000, Deduct	-15.35	
		For >5,000, Deduct	-22.77	
33 01 30 71-0054	LF	114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	210.53	
		For Up To 75, Add	45.08	
		For >75 To 150, Add	21.05	
		For >500 To 1,000, Deduct	-5.40	
		For >1,000 To 2,000, Deduct	-10.51	
		For >2,000 To 5,000, Deduct	-16.21	
		For >5,000, Deduct	-24.03	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0055 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	221.61	
For Up To 75, Add	47.46	
For >75 To 150, Add	22.16	
For >500 To 1,000, Deduct	-5.69	
For >1,000 To 2,000, Deduct	-11.06	
For >2,000 To 5,000, Deduct	-17.06	
For >5,000, Deduct	-25.30	
33 01 30 71-0056 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane.....	7.06	
33 01 30 71-0057 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0058 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	83.32	
For Up To 75, Add	17.65	
For >75 To 150, Add	8.33	
For >500 To 1,000, Deduct	-2.06	
For >1,000 To 2,000, Deduct	-4.03	
For >2,000 To 5,000, Deduct	-6.19	
For >5,000, Deduct	-9.32	
33 01 30 71-0059 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	97.21	
For Up To 75, Add	20.60	
For >75 To 150, Add	9.72	
For >500 To 1,000, Deduct	-2.41	
For >1,000 To 2,000, Deduct	-4.70	
For >2,000 To 5,000, Deduct	-7.22	
For >5,000, Deduct	-10.88	
33 01 30 71-0060 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	111.10	
For Up To 75, Add	23.54	
For >75 To 150, Add	11.11	
For >500 To 1,000, Deduct	-2.75	
For >1,000 To 2,000, Deduct	-5.37	
For >2,000 To 5,000, Deduct	-8.25	
For >5,000, Deduct	-12.43	
33 01 30 71-0061 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	124.99	
For Up To 75, Add	26.48	
For >75 To 150, Add	12.50	
For >500 To 1,000, Deduct	-3.09	
For >1,000 To 2,000, Deduct	-6.04	
For >2,000 To 5,000, Deduct	-9.28	
For >5,000, Deduct	-13.98	
33 01 30 71-0062 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	138.87	
For Up To 75, Add	29.42	
For >75 To 150, Add	13.89	
For >500 To 1,000, Deduct	-3.44	
For >1,000 To 2,000, Deduct	-6.71	
For >2,000 To 5,000, Deduct	-10.31	
For >5,000, Deduct	-15.54	
33 01 30 71-0063 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	152.76	
For Up To 75, Add	32.37	
For >75 To 150, Add	15.28	
For >500 To 1,000, Deduct	-3.78	
For >1,000 To 2,000, Deduct	-7.38	
For >2,000 To 5,000, Deduct	-11.34	
For >5,000, Deduct	-17.09	
33 01 30 71-0064 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	166.64	
For Up To 75, Add	35.31	
For >75 To 150, Add	16.66	
For >500 To 1,000, Deduct	-4.12	
For >1,000 To 2,000, Deduct	-8.05	
For >2,000 To 5,000, Deduct	-12.37	
For >5,000, Deduct	-18.64	
33 01 30 71-0065 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	180.53	
For Up To 75, Add	38.25	
For >75 To 150, Add	18.05	
For >500 To 1,000, Deduct	-4.47	
For >1,000 To 2,000, Deduct	-8.72	
For >2,000 To 5,000, Deduct	-13.41	
For >5,000, Deduct	-20.20	
33 01 30 71-0066 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	194.43	
For Up To 75, Add	41.20	
For >75 To 150, Add	19.44	
For >500 To 1,000, Deduct	-4.81	
For >1,000 To 2,000, Deduct	-9.39	
For >2,000 To 5,000, Deduct	-14.44	
For >5,000, Deduct	-21.75	
33 01 30 71-0067 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	208.30	
For Up To 75, Add	44.14	
For >75 To 150, Add	20.83	
For >500 To 1,000, Deduct	-5.16	
For >1,000 To 2,000, Deduct	-10.06	
For >2,000 To 5,000, Deduct	-15.47	
For >5,000, Deduct	-23.31	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 01 30 71-0068	LF	96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	222.20	
		For Up To 75, Add	47.08	
		For >75 To 150, Add	22.22	
		For >500 To 1,000, Deduct	-5.50	
		For >1,000 To 2,000, Deduct	-10.74	
		For >2,000 To 5,000, Deduct	-16.50	
		For >5,000, Deduct	-24.86	
33 01 30 71-0069	LF	102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	236.08	
		For Up To 75, Add	50.02	
		For >75 To 150, Add	23.61	
		For >500 To 1,000, Deduct	-5.84	
		For >1,000 To 2,000, Deduct	-11.41	
		For >2,000 To 5,000, Deduct	-17.53	
		For >5,000, Deduct	-26.41	
33 01 30 71-0070	LF	108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	249.96	
		For Up To 75, Add	52.96	
		For >75 To 150, Add	25.00	
		For >500 To 1,000, Deduct	-6.19	
		For >1,000 To 2,000, Deduct	-12.08	
		For >2,000 To 5,000, Deduct	-18.56	
		For >5,000, Deduct	-27.97	
33 01 30 71-0071	LF	114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	263.86	
		For Up To 75, Add	55.91	
		For >75 To 150, Add	26.39	
		For >500 To 1,000, Deduct	-6.53	
		For >1,000 To 2,000, Deduct	-12.75	
		For >2,000 To 5,000, Deduct	-19.59	
		For >5,000, Deduct	-29.52	
33 01 30 71-0072	LF	120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	277.74	
		For Up To 75, Add	58.85	
		For >75 To 150, Add	27.77	
		For >500 To 1,000, Deduct	-6.87	
		For >1,000 To 2,000, Deduct	-13.42	
		For >2,000 To 5,000, Deduct	-20.62	
		For >5,000, Deduct	-31.07	
33 01 30 71-0073	SF	Structure Lining, Spray Applied With 200 mil Structural Polyurethane	8.84	
33 01 30 71-0074 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane (33 01 30 71-0020)				
Note: Two part structural polyurethane.				
33 01 30 71-0075	LF	36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	100.24	
		For Up To 75, Add	21.09	
		For >75 To 150, Add	10.02	
		For >500 To 1,000, Deduct	-2.42	
		For >1,000 To 2,000, Deduct	-4.74	
		For >2,000 To 5,000, Deduct	-7.26	
		For >5,000, Deduct	-11.07	
33 01 30 71-0076	LF	42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	116.96	
		For Up To 75, Add	24.61	
		For >75 To 150, Add	11.70	
		For >500 To 1,000, Deduct	-2.83	
		For >1,000 To 2,000, Deduct	-5.53	
		For >2,000 To 5,000, Deduct	-8.48	
		For >5,000, Deduct	-12.91	
33 01 30 71-0077	LF	48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	133.66	
		For Up To 75, Add	28.12	
		For >75 To 150, Add	13.37	
		For >500 To 1,000, Deduct	-3.23	
		For >1,000 To 2,000, Deduct	-6.32	
		For >2,000 To 5,000, Deduct	-9.69	
		For >5,000, Deduct	-14.76	
33 01 30 71-0078	LF	54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	150.36	
		For Up To 75, Add	31.64	
		For >75 To 150, Add	15.04	
		For >500 To 1,000, Deduct	-3.63	
		For >1,000 To 2,000, Deduct	-7.11	
		For >2,000 To 5,000, Deduct	-10.90	
		For >5,000, Deduct	-16.60	
33 01 30 71-0079	LF	60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	167.08	
		For Up To 75, Add	35.15	
		For >75 To 150, Add	16.71	
		For >500 To 1,000, Deduct	-4.04	
		For >1,000 To 2,000, Deduct	-7.90	
		For >2,000 To 5,000, Deduct	-12.11	
		For >5,000, Deduct	-18.45	
33 01 30 71-0080	LF	66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	183.78	
		For Up To 75, Add	38.67	
		For >75 To 150, Add	18.38	
		For >500 To 1,000, Deduct	-4.44	
		For >1,000 To 2,000, Deduct	-8.69	
		For >2,000 To 5,000, Deduct	-13.32	
		For >5,000, Deduct	-20.29	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0081 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	200.50	
For Up To 75, Add	42.19	
For >75 To 150, Add	20.05	
For >500 To 1,000, Deduct	-4.84	
For >1,000 To 2,000, Deduct	-9.48	
For >2,000 To 5,000, Deduct	-14.53	
For >5,000, Deduct	-22.14	
33 01 30 71-0082 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	217.20	
For Up To 75, Add	45.70	
For >75 To 150, Add	21.72	
For >500 To 1,000, Deduct	-5.25	
For >1,000 To 2,000, Deduct	-10.27	
For >2,000 To 5,000, Deduct	-15.74	
For >5,000, Deduct	-23.98	
33 01 30 71-0083 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	233.91	
For Up To 75, Add	49.21	
For >75 To 150, Add	23.39	
For >500 To 1,000, Deduct	-5.65	
For >1,000 To 2,000, Deduct	-11.06	
For >2,000 To 5,000, Deduct	-16.95	
For >5,000, Deduct	-25.82	
33 01 30 71-0084 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	250.61	
For Up To 75, Add	52.73	
For >75 To 150, Add	25.06	
For >500 To 1,000, Deduct	-6.05	
For >1,000 To 2,000, Deduct	-11.85	
For >2,000 To 5,000, Deduct	-18.16	
For >5,000, Deduct	-27.67	
33 01 30 71-0085 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	267.33	
For Up To 75, Add	56.25	
For >75 To 150, Add	26.73	
For >500 To 1,000, Deduct	-6.46	
For >1,000 To 2,000, Deduct	-12.64	
For >2,000 To 5,000, Deduct	-19.38	
For >5,000, Deduct	-29.51	
33 01 30 71-0086 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	284.02	
For Up To 75, Add	59.76	
For >75 To 150, Add	28.40	
For >500 To 1,000, Deduct	-6.86	
For >1,000 To 2,000, Deduct	-13.43	
For >2,000 To 5,000, Deduct	-20.58	
For >5,000, Deduct	-31.35	
33 01 30 71-0087 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	300.75	
For Up To 75, Add	63.28	
For >75 To 150, Add	30.08	
For >500 To 1,000, Deduct	-7.27	
For >1,000 To 2,000, Deduct	-14.22	
For >2,000 To 5,000, Deduct	-21.80	
For >5,000, Deduct	-33.20	
33 01 30 71-0088 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	317.44	
For Up To 75, Add	66.79	
For >75 To 150, Add	31.74	
For >500 To 1,000, Deduct	-7.67	
For >1,000 To 2,000, Deduct	-15.01	
For >2,000 To 5,000, Deduct	-23.01	
For >5,000, Deduct	-35.04	
33 01 30 71-0089 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	334.16	
For Up To 75, Add	70.31	
For >75 To 150, Add	33.42	
For >500 To 1,000, Deduct	-8.07	
For >1,000 To 2,000, Deduct	-15.80	
For >2,000 To 5,000, Deduct	-24.22	
For >5,000, Deduct	-36.89	
33 01 30 71-0090 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane.....	10.63	
33 01 30 71-0091 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0029)		
Note: Two part structural polyurethane.		
33 01 30 71-0092 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	117.28	
For Up To 75, Add	24.55	
For >75 To 150, Add	11.73	
For >500 To 1,000, Deduct	-2.78	
For >1,000 To 2,000, Deduct	-5.46	
For >2,000 To 5,000, Deduct	-8.35	
For >5,000, Deduct	-12.83	
33 01 30 71-0093 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	136.83	
For Up To 75, Add	28.65	
For >75 To 150, Add	13.68	
For >500 To 1,000, Deduct	-3.25	
For >1,000 To 2,000, Deduct	-6.37	
For >2,000 To 5,000, Deduct	-9.75	
For >5,000, Deduct	-14.96	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0094	LF	48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	156.38	
		For Up To 75, Add	32.74	
		For >75 To 150, Add	15.64	
		For >500 To 1,000, Deduct	-3.71	
		For >1,000 To 2,000, Deduct	-7.28	
		For >2,000 To 5,000, Deduct	-11.14	
		For >5,000, Deduct	-17.10	
33 01 30 71-0095	LF	54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	175.93	
		For Up To 75, Add	36.83	
		For >75 To 150, Add	17.59	
		For >500 To 1,000, Deduct	-4.18	
		For >1,000 To 2,000, Deduct	-8.19	
		For >2,000 To 5,000, Deduct	-12.53	
		For >5,000, Deduct	-19.24	
33 01 30 71-0096	LF	60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	195.47	
		For Up To 75, Add	40.92	
		For >75 To 150, Add	19.55	
		For >500 To 1,000, Deduct	-4.64	
		For >1,000 To 2,000, Deduct	-9.10	
		For >2,000 To 5,000, Deduct	-13.92	
		For >5,000, Deduct	-21.38	
33 01 30 71-0097	LF	66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	215.02	
		For Up To 75, Add	45.02	
		For >75 To 150, Add	21.50	
		For >500 To 1,000, Deduct	-5.11	
		For >1,000 To 2,000, Deduct	-10.01	
		For >2,000 To 5,000, Deduct	-15.32	
		For >5,000, Deduct	-23.51	
33 01 30 71-0098	LF	72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	234.56	
		For Up To 75, Add	49.11	
		For >75 To 150, Add	23.46	
		For >500 To 1,000, Deduct	-5.57	
		For >1,000 To 2,000, Deduct	-10.92	
		For >2,000 To 5,000, Deduct	-16.71	
		For >5,000, Deduct	-25.65	
33 01 30 71-0099	LF	78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	254.11	
		For Up To 75, Add	53.20	
		For >75 To 150, Add	25.41	
		For >500 To 1,000, Deduct	-6.03	
		For >1,000 To 2,000, Deduct	-11.83	
		For >2,000 To 5,000, Deduct	-18.10	
		For >5,000, Deduct	-27.79	
33 01 30 71-0100	LF	84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	273.65	
		For Up To 75, Add	57.29	
		For >75 To 150, Add	27.37	
		For >500 To 1,000, Deduct	-6.50	
		For >1,000 To 2,000, Deduct	-12.74	
		For >2,000 To 5,000, Deduct	-19.49	
		For >5,000, Deduct	-29.92	
33 01 30 71-0101	LF	90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	293.21	
		For Up To 75, Add	61.39	
		For >75 To 150, Add	29.32	
		For >500 To 1,000, Deduct	-6.96	
		For >1,000 To 2,000, Deduct	-13.65	
		For >2,000 To 5,000, Deduct	-20.88	
		For >5,000, Deduct	-32.06	
33 01 30 71-0102	LF	96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	312.75	
		For Up To 75, Add	65.48	
		For >75 To 150, Add	31.28	
		For >500 To 1,000, Deduct	-7.43	
		For >1,000 To 2,000, Deduct	-14.56	
		For >2,000 To 5,000, Deduct	-22.28	
		For >5,000, Deduct	-34.20	
33 01 30 71-0103	LF	102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	332.30	
		For Up To 75, Add	69.57	
		For >75 To 150, Add	33.23	
		For >500 To 1,000, Deduct	-7.89	
		For >1,000 To 2,000, Deduct	-15.47	
		For >2,000 To 5,000, Deduct	-23.67	
		For >5,000, Deduct	-36.34	
33 01 30 71-0104	LF	108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	351.85	
		For Up To 75, Add	73.66	
		For >75 To 150, Add	35.19	
		For >500 To 1,000, Deduct	-8.35	
		For >1,000 To 2,000, Deduct	-16.38	
		For >2,000 To 5,000, Deduct	-25.06	
		For >5,000, Deduct	-38.48	
33 01 30 71-0105	LF	114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	371.41	
		For Up To 75, Add	77.76	
		For >75 To 150, Add	37.14	
		For >500 To 1,000, Deduct	-8.82	
		For >1,000 To 2,000, Deduct	-17.29	
		For >2,000 To 5,000, Deduct	-26.45	
		For >5,000, Deduct	-40.62	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0106 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	390.94	
For Up To 75, Add	81.84	
For >75 To 150, Add	39.09	
For >500 To 1,000, Deduct	-9.28	
For >1,000 To 2,000, Deduct	-18.20	
For >2,000 To 5,000, Deduct	-27.84	
For >5,000, Deduct	-42.75	
33 01 30 71-0107 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane.....	12.44	
33 01 30 71-0108 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0109 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	151.42	
For Up To 75, Add	31.50	
For >75 To 150, Add	15.14	
For >500 To 1,000, Deduct	-3.52	
For >1,000 To 2,000, Deduct	-6.91	
For >2,000 To 5,000, Deduct	-10.55	
For >5,000, Deduct	-16.36	
33 01 30 71-0110 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	176.67	
For Up To 75, Add	36.76	
For >75 To 150, Add	17.67	
For >500 To 1,000, Deduct	-4.10	
For >1,000 To 2,000, Deduct	-8.06	
For >2,000 To 5,000, Deduct	-12.31	
For >5,000, Deduct	-19.09	
33 01 30 71-0111 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	201.90	
For Up To 75, Add	42.01	
For >75 To 150, Add	20.19	
For >500 To 1,000, Deduct	-4.69	
For >1,000 To 2,000, Deduct	-9.21	
For >2,000 To 5,000, Deduct	-14.06	
For >5,000, Deduct	-21.82	
33 01 30 71-0112 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	227.13	
For Up To 75, Add	47.25	
For >75 To 150, Add	22.71	
For >500 To 1,000, Deduct	-5.27	
For >1,000 To 2,000, Deduct	-10.37	
For >2,000 To 5,000, Deduct	-15.82	
For >5,000, Deduct	-24.54	
33 01 30 71-0113 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	252.37	
For Up To 75, Add	52.51	
For >75 To 150, Add	25.24	
For >500 To 1,000, Deduct	-5.86	
For >1,000 To 2,000, Deduct	-11.52	
For >2,000 To 5,000, Deduct	-17.58	
For >5,000, Deduct	-27.27	
33 01 30 71-0114 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	277.61	
For Up To 75, Add	57.76	
For >75 To 150, Add	27.76	
For >500 To 1,000, Deduct	-6.45	
For >1,000 To 2,000, Deduct	-12.67	
For >2,000 To 5,000, Deduct	-19.34	
For >5,000, Deduct	-30.00	
33 01 30 71-0115 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	302.85	
For Up To 75, Add	63.01	
For >75 To 150, Add	30.29	
For >500 To 1,000, Deduct	-7.03	
For >1,000 To 2,000, Deduct	-13.82	
For >2,000 To 5,000, Deduct	-21.10	
For >5,000, Deduct	-32.72	
33 01 30 71-0116 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	328.09	
For Up To 75, Add	68.26	
For >75 To 150, Add	32.81	
For >500 To 1,000, Deduct	-7.62	
For >1,000 To 2,000, Deduct	-14.97	
For >2,000 To 5,000, Deduct	-22.86	
For >5,000, Deduct	-35.45	
33 01 30 71-0117 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	353.32	
For Up To 75, Add	73.51	
For >75 To 150, Add	35.33	
For >500 To 1,000, Deduct	-8.20	
For >1,000 To 2,000, Deduct	-16.12	
For >2,000 To 5,000, Deduct	-24.61	
For >5,000, Deduct	-38.18	
33 01 30 71-0118 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	378.56	
For Up To 75, Add	78.76	
For >75 To 150, Add	37.86	
For >500 To 1,000, Deduct	-8.79	
For >1,000 To 2,000, Deduct	-17.28	
For >2,000 To 5,000, Deduct	-26.37	
For >5,000, Deduct	-40.90	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 71-0119	LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	403.79		
	For Up To 75, Add	84.01		
	For >75 To 150, Add	40.38		
	For >500 To 1,000, Deduct	-9.38		
	For >1,000 To 2,000, Deduct	-18.43		
	For >2,000 To 5,000, Deduct	-28.13		
	For >5,000, Deduct	-43.63		
33 01 30 71-0120	LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	429.03		
	For Up To 75, Add	89.26		
	For >75 To 150, Add	42.90		
	For >500 To 1,000, Deduct	-9.96		
	For >1,000 To 2,000, Deduct	-19.58		
	For >2,000 To 5,000, Deduct	-29.89		
	For >5,000, Deduct	-46.36		
33 01 30 71-0121	LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	454.26		
	For Up To 75, Add	94.51		
	For >75 To 150, Add	45.43		
	For >500 To 1,000, Deduct	-10.55		
	For >1,000 To 2,000, Deduct	-20.73		
	For >2,000 To 5,000, Deduct	-31.64		
	For >5,000, Deduct	-49.08		
33 01 30 71-0122	LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	479.51		
	For Up To 75, Add	99.76		
	For >75 To 150, Add	47.95		
	For >500 To 1,000, Deduct	-11.13		
	For >1,000 To 2,000, Deduct	-21.88		
	For >2,000 To 5,000, Deduct	-33.40		
	For >5,000, Deduct	-51.81		
33 01 30 71-0123	LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	504.75		
	For Up To 75, Add	105.01		
	For >75 To 150, Add	50.48		
	For >500 To 1,000, Deduct	-11.72		
	For >1,000 To 2,000, Deduct	-23.03		
	For >2,000 To 5,000, Deduct	-35.16		
	For >5,000, Deduct	-54.54		
33 01 30 71-0124	SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane	16.07		
33 01 30 71-0125 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 71-0020)				
Note: Two part structural polyurethane.				
33 01 30 71-0126	LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	185.89		
	For Up To 75, Add	38.53		
	For >75 To 150, Add	18.59		
	For >500 To 1,000, Deduct	-4.26		
	For >1,000 To 2,000, Deduct	-8.38		
	For >2,000 To 5,000, Deduct	-12.78		
	For >5,000, Deduct	-19.94		
33 01 30 71-0127	LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	216.88		
	For Up To 75, Add	44.96		
	For >75 To 150, Add	21.69		
	For >500 To 1,000, Deduct	-4.97		
	For >1,000 To 2,000, Deduct	-9.78		
	For >2,000 To 5,000, Deduct	-14.91		
	For >5,000, Deduct	-23.27		
33 01 30 71-0128	LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	247.86		
	For Up To 75, Add	51.38		
	For >75 To 150, Add	24.79		
	For >500 To 1,000, Deduct	-5.68		
	For >1,000 To 2,000, Deduct	-11.18		
	For >2,000 To 5,000, Deduct	-17.04		
	For >5,000, Deduct	-26.59		
33 01 30 71-0129	LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	278.84		
	For Up To 75, Add	57.80		
	For >75 To 150, Add	27.88		
	For >500 To 1,000, Deduct	-6.39		
	For >1,000 To 2,000, Deduct	-12.58		
	For >2,000 To 5,000, Deduct	-19.17		
	For >5,000, Deduct	-29.92		
33 01 30 71-0130	LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	309.82		
	For Up To 75, Add	64.22		
	For >75 To 150, Add	30.98		
	For >500 To 1,000, Deduct	-7.10		
	For >1,000 To 2,000, Deduct	-13.97		
	For >2,000 To 5,000, Deduct	-21.30		
	For >5,000, Deduct	-33.24		
33 01 30 71-0131	LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	340.80		
	For Up To 75, Add	70.64		
	For >75 To 150, Add	34.08		
	For >500 To 1,000, Deduct	-7.81		
	For >1,000 To 2,000, Deduct	-15.37		
	For >2,000 To 5,000, Deduct	-23.43		
	For >5,000, Deduct	-36.56		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0132 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	371.78	
For Up To 75, Add	77.06	
For >75 To 150, Add	37.18	
For >500 To 1,000, Deduct	-8.52	
For >1,000 To 2,000, Deduct	-16.77	
For >2,000 To 5,000, Deduct	-25.56	
For >5,000, Deduct	-39.89	
33 01 30 71-0133 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	402.76	
For Up To 75, Add	83.49	
For >75 To 150, Add	40.28	
For >500 To 1,000, Deduct	-9.23	
For >1,000 To 2,000, Deduct	-18.16	
For >2,000 To 5,000, Deduct	-27.69	
For >5,000, Deduct	-43.21	
33 01 30 71-0134 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	433.74	
For Up To 75, Add	89.91	
For >75 To 150, Add	43.37	
For >500 To 1,000, Deduct	-9.94	
For >1,000 To 2,000, Deduct	-19.56	
For >2,000 To 5,000, Deduct	-29.82	
For >5,000, Deduct	-46.53	
33 01 30 71-0135 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	464.73	
For Up To 75, Add	96.33	
For >75 To 150, Add	46.47	
For >500 To 1,000, Deduct	-10.65	
For >1,000 To 2,000, Deduct	-20.96	
For >2,000 To 5,000, Deduct	-31.95	
For >5,000, Deduct	-49.86	
33 01 30 71-0136 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	495.72	
For Up To 75, Add	102.76	
For >75 To 150, Add	49.57	
For >500 To 1,000, Deduct	-11.36	
For >1,000 To 2,000, Deduct	-22.36	
For >2,000 To 5,000, Deduct	-34.08	
For >5,000, Deduct	-53.18	
33 01 30 71-0137 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	526.69	
For Up To 75, Add	109.18	
For >75 To 150, Add	52.67	
For >500 To 1,000, Deduct	-12.07	
For >1,000 To 2,000, Deduct	-23.75	
For >2,000 To 5,000, Deduct	-36.21	
For >5,000, Deduct	-56.51	
33 01 30 71-0138 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	557.68	
For Up To 75, Add	115.60	
For >75 To 150, Add	55.77	
For >500 To 1,000, Deduct	-12.78	
For >1,000 To 2,000, Deduct	-25.15	
For >2,000 To 5,000, Deduct	-38.34	
For >5,000, Deduct	-59.83	
33 01 30 71-0139 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	588.66	
For Up To 75, Add	122.02	
For >75 To 150, Add	58.87	
For >500 To 1,000, Deduct	-13.49	
For >1,000 To 2,000, Deduct	-26.55	
For >2,000 To 5,000, Deduct	-40.47	
For >5,000, Deduct	-63.16	
33 01 30 71-0140 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	619.65	
For Up To 75, Add	128.45	
For >75 To 150, Add	61.97	
For >500 To 1,000, Deduct	-14.20	
For >1,000 To 2,000, Deduct	-27.95	
For >2,000 To 5,000, Deduct	-42.60	
For >5,000, Deduct	-66.48	
33 01 30 71-0141 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane.....	19.72	

33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)
 Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)	
33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,525.27
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,542.11
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	3,813.16
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	5,084.20
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	762.63
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,271.05
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,588.82



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0010	EA		Move And Reset Up At Different Access/Location For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	2,033.68	
33 01 30 72-0011	EA		Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Note: Need to mix wet material in bag prior to installation.	1,271.05	
33 01 30 72-0012	EA		Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	3,050.52	
33 01 30 72-0013	EA		Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	5,084.20	
33 01 30 72-0014	EA		Mixing Truck And Refrigeration For Relining >48" To 72" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	7,626.31	
33 01 30 72-0015			Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) (33 01 30 72-0001) Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.		
33 01 30 72-0016			4.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0017	LF		4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... For Vinlyester Resin, Add For Epoxy Resin, Add For Up To >10, Add For >10 To 25, Add For >25 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	19.19 4.09 0.48 42.97 34.84 21.19 10.60 -1.29 -2.11 -4.04 -6.51	
33 01 30 72-0018	LF		4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... For Vinlyester Resin, Add For Epoxy Resin, Add For Up To >10, Add For >10 To 25, Add For >25 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	22.40 6.34 0.75 44.58 35.64 21.84 10.92 -1.45 -2.35 -4.42 -7.15	
33 01 30 72-0019	LF		4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... For Vinlyester Resin, Add For Epoxy Resin, Add For Up To >10, Add For >10 To 25, Add For >25 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	25.61 8.58 1.01 46.18 36.44 22.48 11.24 -1.61 -2.59 -4.81 -7.79	
33 01 30 72-0020	LF		4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... For Vinlyester Resin, Add For Epoxy Resin, Add For Up To >10, Add For >10 To 25, Add For >25 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	33.29 13.07 1.54 53.20 41.22 25.66 12.83 -2.03 -3.23 -5.90 -9.58	
33 01 30 72-0021	LF		4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... For Vinlyester Resin, Add For Epoxy Resin, Add For Up To >10, Add For >10 To 25, Add For >25 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	40.97 17.56 2.07 60.21 46.00 28.85 14.43 -2.45 -3.87 -6.98 -11.37	
33 01 30 72-0022			6mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0023	LF		6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... For Vinlyester Resin, Add For Epoxy Resin, Add For Up To >10, Add For >10 To 25, Add For >25 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	25.16 8.27 0.97 45.96 36.33 22.39 11.19 -1.59 -2.55 -4.75 -7.70	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0024	LF		6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	29.44	
			For Vinylester Resin, Add	11.26	
			For Epoxy Resin, Add	1.33	
			For Up To >10, Add	48.10	
			For >10 To 25, Add	37.40	
			For >25 To 50, Add	23.24	
			For >50 To 100, Add	11.62	
			For >500 To 1,000, Deduct	-1.81	
			For >1,000 To 2,000, Deduct	-2.88	
			For >2,000 To 5,000, Deduct	-5.27	
			For >5,000, Deduct	-8.56	
33 01 30 72-0025	LF		6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	39.26	
			For Vinylester Resin, Add	17.25	
			For Epoxy Resin, Add	2.03	
			For Up To >10, Add	56.18	
			For >10 To 25, Add	42.71	
			For >25 To 50, Add	26.86	
			For >50 To 100, Add	13.43	
			For >500 To 1,000, Deduct	-2.33	
			For >1,000 To 2,000, Deduct	-3.68	
			For >2,000 To 5,000, Deduct	-6.61	
			For >5,000, Deduct	-10.78	
33 01 30 72-0026	LF		6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	49.08	
			For Vinylester Resin, Add	23.23	
			For Epoxy Resin, Add	2.74	
			For Up To >10, Add	64.27	
			For >10 To 25, Add	48.02	
			For >25 To 50, Add	30.47	
			For >50 To 100, Add	15.24	
			For >500 To 1,000, Deduct	-2.85	
			For >1,000 To 2,000, Deduct	-4.48	
			For >2,000 To 5,000, Deduct	-7.96	
			For >5,000, Deduct	-12.99	
33 01 30 72-0027	LF		6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	59.02	
			For Vinylester Resin, Add	29.22	
			For Epoxy Resin, Add	3.44	
			For Up To >10, Add	72.71	
			For >10 To 25, Add	53.64	
			For >25 To 50, Add	34.27	
			For >50 To 100, Add	17.13	
			For >500 To 1,000, Deduct	-3.38	
			For >1,000 To 2,000, Deduct	-5.29	
			For >2,000 To 5,000, Deduct	-9.33	
			For >5,000, Deduct	-15.26	
33 01 30 72-0028	LF		6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	69.35	
			For Vinylester Resin, Add	35.20	
			For Epoxy Resin, Add	4.15	
			For Up To >10, Add	82.35	
			For >10 To 25, Add	60.25	
			For >25 To 50, Add	38.66	
			For >50 To 100, Add	19.33	
			For >500 To 1,000, Deduct	-3.94	
			For >1,000 To 2,000, Deduct	-6.15	
			For >2,000 To 5,000, Deduct	-10.80	
			For >5,000, Deduct	-17.68	
33 01 30 72-0029			7.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0030	LF		7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	33.15	
			For Vinylester Resin, Add	13.86	
			For Epoxy Resin, Add	1.63	
			For Up To >10, Add	49.95	
			For >10 To 25, Add	38.33	
			For >25 To 50, Add	23.99	
			For >50 To 100, Add	11.99	
			For >500 To 1,000, Deduct	-1.99	
			For >1,000 To 2,000, Deduct	-3.15	
			For >2,000 To 5,000, Deduct	-5.71	
			For >5,000, Deduct	-9.30	
33 01 30 72-0031	LF		7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	45.10	
			For Vinylester Resin, Add	21.34	
			For Epoxy Resin, Add	2.51	
			For Up To >10, Add	59.10	
			For >10 To 25, Add	44.17	
			For >25 To 50, Add	28.03	
			For >50 To 100, Add	14.01	
			For >500 To 1,000, Deduct	-2.62	
			For >1,000 To 2,000, Deduct	-4.11	
			For >2,000 To 5,000, Deduct	-7.31	
			For >5,000, Deduct	-11.94	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	57.06	
For Vinlyester Resin, Add	28.82	
For Epoxy Resin, Add	3.40	
For Up To >10, Add	68.26	
For >10 To 25, Add	50.02	
For >25 To 50, Add	32.07	
For >50 To 100, Add	16.03	
For >500 To 1,000, Deduct	-3.25	
For >1,000 To 2,000, Deduct	-5.07	
For >2,000 To 5,000, Deduct	-8.91	
For >5,000, Deduct	-14.59	
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	69.13	
For Vinlyester Resin, Add	36.30	
For Epoxy Resin, Add	4.28	
For Up To >10, Add	77.77	
For >10 To 25, Add	56.16	
For >25 To 50, Add	36.29	
For >50 To 100, Add	18.15	
For >500 To 1,000, Deduct	-3.89	
For >1,000 To 2,000, Deduct	-6.05	
For >2,000 To 5,000, Deduct	-10.54	
For >5,000, Deduct	-17.28	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	81.61	
For Vinlyester Resin, Add	43.78	
For Epoxy Resin, Add	5.16	
For Up To >10, Add	88.48	
For >10 To 25, Add	63.31	
For >25 To 50, Add	41.11	
For >50 To 100, Add	20.56	
For >500 To 1,000, Deduct	-4.56	
For >1,000 To 2,000, Deduct	-7.07	
For >2,000 To 5,000, Deduct	-12.27	
For >5,000, Deduct	-20.14	
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	100.17	
For Vinlyester Resin, Add	55.00	
For Epoxy Resin, Add	6.48	
For Up To >10, Add	104.09	
For >10 To 25, Add	73.64	
For >25 To 50, Add	48.11	
For >50 To 100, Add	24.06	
For >500 To 1,000, Deduct	-5.55	
For >1,000 To 2,000, Deduct	-8.59	
For >2,000 To 5,000, Deduct	-14.83	
For >5,000, Deduct	-24.35	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	119.01	
For Vinlyester Resin, Add	66.22	
For Epoxy Resin, Add	7.80	
For Up To >10, Add	120.53	
For >10 To 25, Add	84.68	
For >25 To 50, Add	55.54	
For >50 To 100, Add	27.77	
For >500 To 1,000, Deduct	-6.56	
For >1,000 To 2,000, Deduct	-10.15	
For >2,000 To 5,000, Deduct	-17.45	
For >5,000, Deduct	-28.68	
33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	50.82	
For Vinlyester Resin, Add	25.34	
For Epoxy Resin, Add	2.99	
For Up To >10, Add	61.96	
For >10 To 25, Add	45.60	
For >25 To 50, Add	29.17	
For >50 To 100, Add	14.59	
For >500 To 1,000, Deduct	-2.91	
For >1,000 To 2,000, Deduct	-4.54	
For >2,000 To 5,000, Deduct	-8.00	
For >5,000, Deduct	-13.09	
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	64.91	
For Vinlyester Resin, Add	34.31	
For Epoxy Resin, Add	4.04	
For Up To >10, Add	72.18	
For >10 To 25, Add	51.98	
For >25 To 50, Add	33.64	
For >50 To 100, Add	16.82	
For >500 To 1,000, Deduct	-3.64	
For >1,000 To 2,000, Deduct	-5.66	
For >2,000 To 5,000, Deduct	-9.85	
For >5,000, Deduct	-16.16	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	79.13	
For Vinlyester Resin, Add	43.30	
For Epoxy Resin, Add	5.10	
For Up To >10, Add	82.77	
For >10 To 25, Add	58.66	
For >25 To 50, Add	38.29	
For >50 To 100, Add	19.15	
For >500 To 1,000, Deduct	-4.39	
For >1,000 To 2,000, Deduct	-6.80	
For >2,000 To 5,000, Deduct	-11.74	
For >5,000, Deduct	-19.28	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	93.74	
For Vinlyester Resin, Add	52.27	
For Epoxy Resin, Add	6.16	
For Up To >10, Add	94.55	
For >10 To 25, Add	66.34	
For >25 To 50, Add	43.54	
For >50 To 100, Add	21.77	
For >500 To 1,000, Deduct	-5.16	
For >1,000 To 2,000, Deduct	-7.98	
For >2,000 To 5,000, Deduct	-13.73	
For >5,000, Deduct	-22.56	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	115.51	
For Vinlyester Resin, Add	65.74	
For Epoxy Resin, Add	7.75	
For Up To >10, Add	111.76	
For >10 To 25, Add	77.48	
For >25 To 50, Add	51.18	
For >50 To 100, Add	25.59	
For >500 To 1,000, Deduct	-6.32	
For >1,000 To 2,000, Deduct	-9.74	
For >2,000 To 5,000, Deduct	-16.67	
For >5,000, Deduct	-27.42	
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	137.55	
For Vinlyester Resin, Add	79.20	
For Epoxy Resin, Add	9.33	
For Up To >10, Add	129.80	
For >10 To 25, Add	89.31	
For >25 To 50, Add	59.24	
For >50 To 100, Add	29.62	
For >500 To 1,000, Deduct	-7.49	
For >1,000 To 2,000, Deduct	-11.54	
For >2,000 To 5,000, Deduct	-19.68	
For >5,000, Deduct	-32.39	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	158.81	
For Vinlyester Resin, Add	92.66	
For Epoxy Resin, Add	10.92	
For Up To >10, Add	145.51	
For >10 To 25, Add	99.19	
For >25 To 50, Add	66.13	
For >50 To 100, Add	33.07	
For >500 To 1,000, Deduct	-8.60	
For >1,000 To 2,000, Deduct	-13.23	
For >2,000 To 5,000, Deduct	-22.49	
For >5,000, Deduct	-37.05	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	180.47	
For Vinlyester Resin, Add	106.13	
For Epoxy Resin, Add	12.51	
For Up To >10, Add	162.39	
For >10 To 25, Add	110.05	
For >25 To 50, Add	73.61	
For >50 To 100, Add	36.81	
For >500 To 1,000, Deduct	-9.75	
For >1,000 To 2,000, Deduct	-14.98	
For >2,000 To 5,000, Deduct	-25.41	
For >5,000, Deduct	-41.87	
33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	130.71	
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	130.71	
For Vinlyester Resin, Add	76.38	
For Epoxy Resin, Add	9.00	
For Up To >10, Add	119.36	
For >10 To 25, Add	81.28	
For >25 To 50, Add	54.22	
For >50 To 100, Add	27.11	
For >500 To 1,000, Deduct	-7.08	
For >1,000 To 2,000, Deduct	-10.88	
For >2,000 To 5,000, Deduct	-18.49	
For >5,000, Deduct	-30.46	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0048	LF		10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	155.96	
			For Vinlyester Resin, Add	92.09	
			For Epoxy Resin, Add	10.85	
			For Up To >10, Add	139.01	
			For >10 To 25, Add	93.91	
			For >25 To 50, Add	62.93	
			For >50 To 100, Add	31.46	
			For >500 To 1,000, Deduct	-8.41	
			For >1,000 To 2,000, Deduct	-12.92	
			For >2,000 To 5,000, Deduct	-21.89	
			For >5,000, Deduct	-36.07	
33 01 30 72-0049	LF		10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	180.44	
			For Vinlyester Resin, Add	107.80	
			For Epoxy Resin, Add	12.71	
			For Up To >10, Add	156.32	
			For >10 To 25, Add	104.60	
			For >25 To 50, Add	70.46	
			For >50 To 100, Add	35.23	
			For >500 To 1,000, Deduct	-9.68	
			For >1,000 To 2,000, Deduct	-14.86	
			For >2,000 To 5,000, Deduct	-25.09	
			For >5,000, Deduct	-41.38	
33 01 30 72-0050	LF		10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	205.30	
			For Vinlyester Resin, Add	123.51	
			For Epoxy Resin, Add	14.56	
			For Up To >10, Add	174.80	
			For >10 To 25, Add	116.26	
			For >25 To 50, Add	78.58	
			For >50 To 100, Add	39.29	
			For >500 To 1,000, Deduct	-10.99	
			For >1,000 To 2,000, Deduct	-16.84	
			For >2,000 To 5,000, Deduct	-28.39	
			For >5,000, Deduct	-46.83	
33 01 30 72-0051	LF		10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	230.66	
			For Vinlyester Resin, Add	139.22	
			For Epoxy Resin, Add	16.41	
			For Up To >10, Add	194.78	
			For >10 To 25, Add	129.17	
			For >25 To 50, Add	87.45	
			For >50 To 100, Add	43.72	
			For >500 To 1,000, Deduct	-12.33	
			For >1,000 To 2,000, Deduct	-18.89	
			For >2,000 To 5,000, Deduct	-31.81	
			For >5,000, Deduct	-52.49	
33 01 30 72-0052	LF		10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	256.66	
			For Vinlyester Resin, Add	154.92	
			For Epoxy Resin, Add	18.26	
			For Up To >10, Add	216.68	
			For >10 To 25, Add	143.68	
			For >25 To 50, Add	97.27	
			For >50 To 100, Add	48.64	
			For >500 To 1,000, Deduct	-13.72	
			For >1,000 To 2,000, Deduct	-21.02	
			For >2,000 To 5,000, Deduct	-35.39	
			For >5,000, Deduct	-58.40	
33 01 30 72-0053	LF		10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	305.99	
			For Vinlyester Resin, Add	186.34	
			For Epoxy Resin, Add	21.96	
			For Up To >10, Add	252.47	
			For >10 To 25, Add	166.03	
			For >25 To 50, Add	112.93	
			For >50 To 100, Add	56.46	
			For >500 To 1,000, Deduct	-16.29	
			For >1,000 To 2,000, Deduct	-24.94	
			For >2,000 To 5,000, Deduct	-41.89	
			For >5,000, Deduct	-69.16	
33 01 30 72-0054			12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0055	LF		12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	145.80	
			For Vinlyester Resin, Add	86.94	
			For Epoxy Resin, Add	10.25	
			For Up To >10, Add	126.90	
			For >10 To 25, Add	85.05	
			For >25 To 50, Add	57.24	
			For >50 To 100, Add	28.62	
			For >500 To 1,000, Deduct	-7.83	
			For >1,000 To 2,000, Deduct	-12.02	
			For >2,000 To 5,000, Deduct	-20.30	
			For >5,000, Deduct	-33.48	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	174.26	
For Vinlyester Resin, Add	104.90	
For Epoxy Resin, Add	12.36	
For Up To >10, Add	148.16	
For >10 To 25, Add	98.49	
For >25 To 50, Add	66.59	
For >50 To 100, Add	33.29	
For >500 To 1,000, Deduct	-9.32	
For >1,000 To 2,000, Deduct	-14.29	
For >2,000 To 5,000, Deduct	-24.08	
For >5,000, Deduct	-39.73	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	201.93	
For Vinlyester Resin, Add	122.84	
For Epoxy Resin, Add	14.48	
For Up To >10, Add	167.07	
For >10 To 25, Add	109.97	
For >25 To 50, Add	74.76	
For >50 To 100, Add	37.38	
For >500 To 1,000, Deduct	-10.76	
For >1,000 To 2,000, Deduct	-16.47	
For >2,000 To 5,000, Deduct	-27.67	
For >5,000, Deduct	-45.67	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	230.00	
For Vinlyester Resin, Add	140.80	
For Epoxy Resin, Add	16.59	
For Up To >10, Add	187.15	
For >10 To 25, Add	122.44	
For >25 To 50, Add	83.52	
For >50 To 100, Add	41.76	
For >500 To 1,000, Deduct	-12.22	
For >1,000 To 2,000, Deduct	-18.69	
For >2,000 To 5,000, Deduct	-31.35	
For >5,000, Deduct	-51.77	
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	258.57	
For Vinlyester Resin, Add	158.75	
For Epoxy Resin, Add	18.71	
For Up To >10, Add	208.74	
For >10 To 25, Add	136.15	
For >25 To 50, Add	93.03	
For >50 To 100, Add	46.51	
For >500 To 1,000, Deduct	-13.72	
For >1,000 To 2,000, Deduct	-20.98	
For >2,000 To 5,000, Deduct	-35.16	
For >5,000, Deduct	-58.07	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	287.77	
For Vinlyester Resin, Add	176.70	
For Epoxy Resin, Add	20.83	
For Up To >10, Add	232.24	
For >10 To 25, Add	151.46	
For >25 To 50, Add	103.50	
For >50 To 100, Add	51.75	
For >500 To 1,000, Deduct	-15.27	
For >1,000 To 2,000, Deduct	-23.35	
For >2,000 To 5,000, Deduct	-39.13	
For >5,000, Deduct	-64.62	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	343.52	
For Vinlyester Resin, Add	212.61	
For Epoxy Resin, Add	25.06	
For Up To >10, Add	271.24	
For >10 To 25, Add	175.41	
For >25 To 50, Add	120.43	
For >50 To 100, Add	60.22	
For >500 To 1,000, Deduct	-18.17	
For >1,000 To 2,000, Deduct	-27.75	
For >2,000 To 5,000, Deduct	-46.40	
For >5,000, Deduct	-76.66	
33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	400.40	
For Vinlyester Resin, Add	248.51	
For Epoxy Resin, Add	29.29	
For Up To >10, Add	313.65	
For >10 To 25, Add	202.21	
For >25 To 50, Add	139.07	
For >50 To 100, Add	69.54	
For >500 To 1,000, Deduct	-21.15	
For >1,000 To 2,000, Deduct	-32.30	
For >2,000 To 5,000, Deduct	-53.95	
For >5,000, Deduct	-89.16	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0063	LF		12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	459.32	
			For Vinylster Resin, Add	284.42	
			For Epoxy Resin, Add	33.52	
			For Up To >10, Add	362.19	
			For >10 To 25, Add	234.10	
			For >25 To 50, Add	160.78	
			For >50 To 100, Add	80.39	
			For >500 To 1,000, Deduct	-24.29	
			For >1,000 To 2,000, Deduct	-37.10	
			For >2,000 To 5,000, Deduct	-62.01	
			For >5,000, Deduct	-102.47	
33 01 30 72-0064			13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0065	LF		13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	160.75	
			For Vinylster Resin, Add	97.41	
			For Epoxy Resin, Add	11.48	
			For Up To >10, Add	134.38	
			For >10 To 25, Add	88.79	
			For >25 To 50, Add	60.23	
			For >50 To 100, Add	30.12	
			For >500 To 1,000, Deduct	-8.58	
			For >1,000 To 2,000, Deduct	-13.14	
			For >2,000 To 5,000, Deduct	-22.10	
			For >5,000, Deduct	-36.47	
33 01 30 72-0066	LF		13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	192.42	
			For Vinylster Resin, Add	117.61	
			For Epoxy Resin, Add	13.86	
			For Up To >10, Add	157.24	
			For >10 To 25, Add	103.03	
			For >25 To 50, Add	70.22	
			For >50 To 100, Add	35.11	
			For >500 To 1,000, Deduct	-10.23	
			For >1,000 To 2,000, Deduct	-15.65	
			For >2,000 To 5,000, Deduct	-26.26	
			For >5,000, Deduct	-43.37	
33 01 30 72-0067	LF		13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	223.30	
			For Vinylster Resin, Add	137.80	
			For Epoxy Resin, Add	16.24	
			For Up To >10, Add	177.75	
			For >10 To 25, Add	115.32	
			For >25 To 50, Add	79.03	
			For >50 To 100, Add	39.52	
			For >500 To 1,000, Deduct	-11.83	
			For >1,000 To 2,000, Deduct	-18.07	
			For >2,000 To 5,000, Deduct	-30.23	
			For >5,000, Deduct	-49.95	
33 01 30 72-0068	LF		13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	254.57	
			For Vinylster Resin, Add	158.00	
			For Epoxy Resin, Add	18.62	
			For Up To >10, Add	199.44	
			For >10 To 25, Add	128.58	
			For >25 To 50, Add	88.43	
			For >50 To 100, Add	44.22	
			For >500 To 1,000, Deduct	-13.45	
			For >1,000 To 2,000, Deduct	-20.54	
			For >2,000 To 5,000, Deduct	-34.30	
			For >5,000, Deduct	-56.69	
33 01 30 72-0069	LF		13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	286.35	
			For Vinylster Resin, Add	178.20	
			For Epoxy Resin, Add	21.00	
			For Up To >10, Add	222.63	
			For >10 To 25, Add	143.09	
			For >25 To 50, Add	98.58	
			For >50 To 100, Add	49.29	
			For >500 To 1,000, Deduct	-15.11	
			For >1,000 To 2,000, Deduct	-23.07	
			For >2,000 To 5,000, Deduct	-38.49	
			For >5,000, Deduct	-63.63	
33 01 30 72-0070	LF		13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	318.76	
			For Vinylster Resin, Add	198.39	
			For Epoxy Resin, Add	23.38	
			For Up To >10, Add	247.73	
			For >10 To 25, Add	159.21	
			For >25 To 50, Add	109.69	
			For >50 To 100, Add	54.85	
			For >500 To 1,000, Deduct	-16.82	
			For >1,000 To 2,000, Deduct	-25.67	
			For >2,000 To 5,000, Deduct	-42.85	
			For >5,000, Deduct	-70.82	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	380.92	
For Vinlyester Resin, Add	238.79	
For Epoxy Resin, Add	28.14	
For Up To >10, Add	289.94	
For >10 To 25, Add	184.76	
For >25 To 50, Add	127.91	
For >50 To 100, Add	63.96	
For >500 To 1,000, Deduct	-20.04	
For >1,000 To 2,000, Deduct	-30.56	
For >2,000 To 5,000, Deduct	-50.88	
For >5,000, Deduct	-84.14	
33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	444.21	
For Vinlyester Resin, Add	279.18	
For Epoxy Resin, Add	32.90	
For Up To >10, Add	335.56	
For >10 To 25, Add	213.16	
For >25 To 50, Add	147.84	
For >50 To 100, Add	73.92	
For >500 To 1,000, Deduct	-23.35	
For >1,000 To 2,000, Deduct	-35.58	
For >2,000 To 5,000, Deduct	-59.20	
For >5,000, Deduct	-97.92	
33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	509.55	
For Vinlyester Resin, Add	319.58	
For Epoxy Resin, Add	37.66	
For Up To >10, Add	387.30	
For >10 To 25, Add	246.66	
For >25 To 50, Add	170.82	
For >50 To 100, Add	85.41	
For >500 To 1,000, Deduct	-26.80	
For >1,000 To 2,000, Deduct	-40.87	
For >2,000 To 5,000, Deduct	-68.04	
For >5,000, Deduct	-112.51	
33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	175.58	
For Vinlyester Resin, Add	107.79	
For Epoxy Resin, Add	12.70	
For Up To >10, Add	141.79	
For >10 To 25, Add	92.50	
For >25 To 50, Add	63.20	
For >50 To 100, Add	31.60	
For >500 To 1,000, Deduct	-9.32	
For >1,000 To 2,000, Deduct	-14.25	
For >2,000 To 5,000, Deduct	-23.88	
For >5,000, Deduct	-39.44	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	210.45	
For Vinlyester Resin, Add	130.23	
For Epoxy Resin, Add	15.35	
For Up To >10, Add	166.25	
For >10 To 25, Add	107.54	
For >25 To 50, Add	73.82	
For >50 To 100, Add	36.91	
For >500 To 1,000, Deduct	-11.13	
For >1,000 To 2,000, Deduct	-17.00	
For >2,000 To 5,000, Deduct	-28.43	
For >5,000, Deduct	-46.97	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	244.54	
For Vinlyester Resin, Add	152.67	
For Epoxy Resin, Add	17.99	
For Up To >10, Add	188.37	
For >10 To 25, Add	120.63	
For >25 To 50, Add	83.28	
For >50 To 100, Add	41.64	
For >500 To 1,000, Deduct	-12.89	
For >1,000 To 2,000, Deduct	-19.66	
For >2,000 To 5,000, Deduct	-32.78	
For >5,000, Deduct	-54.20	
33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	279.02	
For Vinlyester Resin, Add	175.11	
For Epoxy Resin, Add	20.64	
For Up To >10, Add	211.66	
For >10 To 25, Add	134.69	
For >25 To 50, Add	93.32	
For >50 To 100, Add	46.66	
For >500 To 1,000, Deduct	-14.67	
For >1,000 To 2,000, Deduct	-22.37	
For >2,000 To 5,000, Deduct	-37.23	
For >5,000, Deduct	-61.58	



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		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0079	LF		15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	314.00	
			For Vinlyester Resin, Add	197.55	
			For Epoxy Resin, Add	23.28	
			For Up To >10, Add	236.45	
			For >10 To 25, Add	150.01	
			For >25 To 50, Add	104.11	
			For >50 To 100, Add	52.06	
			For >500 To 1,000, Deduct	-16.49	
			For >1,000 To 2,000, Deduct	-25.14	
			For >2,000 To 5,000, Deduct	-41.81	
			For >5,000, Deduct	-69.16	
33 01 30 72-0080	LF		15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	349.62	
			For Vinlyester Resin, Add	220.00	
			For Epoxy Resin, Add	25.93	
			For Up To >10, Add	263.16	
			For >10 To 25, Add	166.92	
			For >25 To 50, Add	115.87	
			For >50 To 100, Add	57.93	
			For >500 To 1,000, Deduct	-18.36	
			For >1,000 To 2,000, Deduct	-27.99	
			For >2,000 To 5,000, Deduct	-46.55	
			For >5,000, Deduct	-76.99	
33 01 30 72-0081	LF		15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	418.19	
			For Vinlyester Resin, Add	264.88	
			For Epoxy Resin, Add	31.22	
			For Up To >10, Add	308.57	
			For >10 To 25, Add	194.08	
			For >25 To 50, Add	135.37	
			For >50 To 100, Add	67.68	
			For >500 To 1,000, Deduct	-21.90	
			For >1,000 To 2,000, Deduct	-33.35	
			For >2,000 To 5,000, Deduct	-55.36	
			For >5,000, Deduct	-91.60	
33 01 30 72-0082	LF		15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	487.90	
			For Vinlyester Resin, Add	309.76	
			For Epoxy Resin, Add	36.51	
			For Up To >10, Add	357.40	
			For >10 To 25, Add	224.08	
			For >25 To 50, Add	156.57	
			For >50 To 100, Add	78.29	
			For >500 To 1,000, Deduct	-25.53	
			For >1,000 To 2,000, Deduct	-38.86	
			For >2,000 To 5,000, Deduct	-64.45	
			For >5,000, Deduct	-106.66	
33 01 30 72-0083	LF		15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	559.64	
			For Vinlyester Resin, Add	354.64	
			For Epoxy Resin, Add	41.80	
			For Up To >10, Add	412.35	
			For >10 To 25, Add	259.18	
			For >25 To 50, Add	180.84	
			For >50 To 100, Add	90.42	
			For >500 To 1,000, Deduct	-29.31	
			For >1,000 To 2,000, Deduct	-44.62	
			For >2,000 To 5,000, Deduct	-74.05	
			For >5,000, Deduct	-122.53	
33 01 30 72-0084			16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0085	LF		16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	228.36	
			For Vinlyester Resin, Add	142.77	
			For Epoxy Resin, Add	16.83	
			For Up To >10, Add	175.21	
			For >10 To 25, Add	112.01	
			For >25 To 50, Add	77.41	
			For >50 To 100, Add	38.70	
			For >500 To 1,000, Deduct	-12.03	
			For >1,000 To 2,000, Deduct	-18.35	
			For >2,000 To 5,000, Deduct	-30.58	
			For >5,000, Deduct	-50.55	
33 01 30 72-0086	LF		16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	265.66	
			For Vinlyester Resin, Add	167.45	
			For Epoxy Resin, Add	19.74	
			For Up To >10, Add	198.93	
			For >10 To 25, Add	125.91	
			For >25 To 50, Add	87.50	
			For >50 To 100, Add	43.75	
			For >500 To 1,000, Deduct	-13.94	
			For >1,000 To 2,000, Deduct	-21.25	
			For >2,000 To 5,000, Deduct	-35.32	
			For >5,000, Deduct	-58.42	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	303.34	
For Vinlyester Resin, Add	192.14	
For Epoxy Resin, Add	22.64	
For Up To >10, Add	223.82	
For >10 To 25, Add	140.77	
For >25 To 50, Add	98.19	
For >50 To 100, Add	49.09	
For >500 To 1,000, Deduct	-15.89	
For >1,000 To 2,000, Deduct	-24.19	
For >2,000 To 5,000, Deduct	-40.15	
For >5,000, Deduct	-66.44	
33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	341.53	
For Vinlyester Resin, Add	216.83	
For Epoxy Resin, Add	25.55	
For Up To >10, Add	250.22	
For >10 To 25, Add	156.89	
For >25 To 50, Add	109.62	
For >50 To 100, Add	54.81	
For >500 To 1,000, Deduct	-17.87	
For >1,000 To 2,000, Deduct	-27.20	
For >2,000 To 5,000, Deduct	-45.12	
For >5,000, Deduct	-74.66	
33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	380.35	
For Vinlyester Resin, Add	241.51	
For Epoxy Resin, Add	28.46	
For Up To >10, Add	278.53	
For >10 To 25, Add	174.60	
For >25 To 50, Add	122.01	
For >50 To 100, Add	61.01	
For >500 To 1,000, Deduct	-19.90	
For >1,000 To 2,000, Deduct	-30.29	
For >2,000 To 5,000, Deduct	-50.24	
For >5,000, Deduct	-83.14	
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	455.33	
For Vinlyester Resin, Add	290.88	
For Epoxy Resin, Add	34.28	
For Up To >10, Add	327.14	
For >10 To 25, Add	203.36	
For >25 To 50, Add	142.79	
For >50 To 100, Add	71.40	
For >500 To 1,000, Deduct	-23.76	
For >1,000 To 2,000, Deduct	-36.14	
For >2,000 To 5,000, Deduct	-59.81	
For >5,000, Deduct	-99.02	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	531.45	
For Vinlyester Resin, Add	340.25	
For Epoxy Resin, Add	40.10	
For Up To >10, Add	379.18	
For >10 To 25, Add	234.97	
For >25 To 50, Add	165.28	
For >50 To 100, Add	82.64	
For >500 To 1,000, Deduct	-27.71	
For >1,000 To 2,000, Deduct	-42.13	
For >2,000 To 5,000, Deduct	-69.67	
For >5,000, Deduct	-115.37	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	609.61	
For Vinlyester Resin, Add	389.62	
For Epoxy Resin, Add	45.92	
For Up To >10, Add	437.33	
For >10 To 25, Add	271.68	
For >25 To 50, Add	190.84	
For >50 To 100, Add	95.42	
For >500 To 1,000, Deduct	-31.81	
For >1,000 To 2,000, Deduct	-48.37	
For >2,000 To 5,000, Deduct	-80.04	
For >5,000, Deduct	-132.52	
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	686.87	
For Vinlyester Resin, Add	438.99	
For Epoxy Resin, Add	51.74	
For Up To >10, Add	492.79	
For >10 To 25, Add	306.13	
For >25 To 50, Add	215.04	
For >50 To 100, Add	107.52	
For >500 To 1,000, Deduct	-35.84	
For >1,000 To 2,000, Deduct	-54.50	
For >2,000 To 5,000, Deduct	-90.19	
For >5,000, Deduct	-149.32	

33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



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		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0095	LF	18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	246.78	
		For Vinylster Resin, Add	155.22	
		For Epoxy Resin, Add	18.29	
		For Up To >10, Add	185.99	
		For >10 To 25, Add	118.04	
		For >25 To 50, Add	81.91	
		For >50 To 100, Add	40.95	
		For >500 To 1,000, Deduct	-12.97	
		For >1,000 To 2,000, Deduct	-19.76	
		For >2,000 To 5,000, Deduct	-32.87	
		For >5,000, Deduct	-54.36	
33 01 30 72-0096	LF	18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	287.41	
		For Vinylster Resin, Add	182.15	
		For Epoxy Resin, Add	21.47	
		For Up To >10, Add	211.71	
		For >10 To 25, Add	133.05	
		For >25 To 50, Add	92.84	
		For >50 To 100, Add	46.42	
		For >500 To 1,000, Deduct	-15.05	
		For >1,000 To 2,000, Deduct	-22.92	
		For >2,000 To 5,000, Deduct	-38.03	
		For >5,000, Deduct	-62.92	
33 01 30 72-0097	LF	18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	328.29	
		For Vinylster Resin, Add	209.08	
		For Epoxy Resin, Add	24.64	
		For Up To >10, Add	238.17	
		For >10 To 25, Add	148.70	
		For >25 To 50, Add	104.15	
		For >50 To 100, Add	52.08	
		For >500 To 1,000, Deduct	-17.15	
		For >1,000 To 2,000, Deduct	-26.10	
		For >2,000 To 5,000, Deduct	-43.24	
		For >5,000, Deduct	-71.58	
33 01 30 72-0098	LF	18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	369.81	
		For Vinylster Resin, Add	236.01	
		For Epoxy Resin, Add	27.81	
		For Up To >10, Add	266.56	
		For >10 To 25, Add	165.94	
		For >25 To 50, Add	116.42	
		For >50 To 100, Add	58.21	
		For >500 To 1,000, Deduct	-19.31	
		For >1,000 To 2,000, Deduct	-29.37	
		For >2,000 To 5,000, Deduct	-48.62	
		For >5,000, Deduct	-80.49	
33 01 30 72-0099	LF	18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	411.84	
		For Vinylster Resin, Add	262.93	
		For Epoxy Resin, Add	30.99	
		For Up To >10, Add	296.47	
		For >10 To 25, Add	184.46	
		For >25 To 50, Add	129.45	
		For >50 To 100, Add	64.73	
		For >500 To 1,000, Deduct	-21.50	
		For >1,000 To 2,000, Deduct	-32.70	
		For >2,000 To 5,000, Deduct	-54.13	
		For >5,000, Deduct	-89.61	
33 01 30 72-0100	LF	18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	494.25	
		For Vinylster Resin, Add	316.79	
		For Epoxy Resin, Add	37.34	
		For Up To >10, Add	351.35	
		For >10 To 25, Add	217.37	
		For >25 To 50, Add	153.05	
		For >50 To 100, Add	76.52	
		For >500 To 1,000, Deduct	-25.75	
		For >1,000 To 2,000, Deduct	-39.15	
		For >2,000 To 5,000, Deduct	-64.73	
		For >5,000, Deduct	-107.19	
33 01 30 72-0101	LF	18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	577.18	
		For Vinylster Resin, Add	370.66	
		For Epoxy Resin, Add	43.68	
		For Up To >10, Add	407.77	
		For >10 To 25, Add	251.55	
		For >25 To 50, Add	177.41	
		For >50 To 100, Add	88.70	
		For >500 To 1,000, Deduct	-30.05	
		For >1,000 To 2,000, Deduct	-45.67	
		For >2,000 To 5,000, Deduct	-75.46	
		For >5,000, Deduct	-124.97	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	662.12	
For Vinlyester Resin, Add	424.52	
For Epoxy Resin, Add	50.03	
For Up To >10, Add	470.24	
For >10 To 25, Add	290.79	
For >25 To 50, Add	204.80	
For >50 To 100, Add	102.40	
For >500 To 1,000, Deduct	-34.50	
For >1,000 To 2,000, Deduct	-52.44	
For >2,000 To 5,000, Deduct	-86.69	
For >5,000, Deduct	-143.56	
33 01 30 72-0103 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	746.18	
For Vinlyester Resin, Add	478.37	
For Epoxy Resin, Add	56.38	
For Up To >10, Add	530.07	
For >10 To 25, Add	327.82	
For >25 To 50, Add	230.86	
For >50 To 100, Add	115.43	
For >500 To 1,000, Deduct	-38.88	
For >1,000 To 2,000, Deduct	-59.10	
For >2,000 To 5,000, Deduct	-97.70	
For >5,000, Deduct	-161.79	
33 01 30 72-0104 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	830.12	
For Vinlyester Resin, Add	532.23	
For Epoxy Resin, Add	62.73	
For Up To >10, Add	589.54	
For >10 To 25, Add	364.56	
For >25 To 50, Add	256.75	
For >50 To 100, Add	128.38	
For >500 To 1,000, Deduct	-43.25	
For >1,000 To 2,000, Deduct	-65.75	
For >2,000 To 5,000, Deduct	-108.69	
For >5,000, Deduct	-179.98	
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	914.55	
For Vinlyester Resin, Add	586.09	
For Epoxy Resin, Add	69.07	
For Up To >10, Add	650.48	
For >10 To 25, Add	402.52	
For >25 To 50, Add	283.37	
For >50 To 100, Add	141.69	
For >500 To 1,000, Deduct	-47.66	
For >1,000 To 2,000, Deduct	-72.46	
For >2,000 To 5,000, Deduct	-119.79	
For >5,000, Deduct	-198.37	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	998.61	
For Vinlyester Resin, Add	639.95	
For Epoxy Resin, Add	75.42	
For Up To >10, Add	710.31	
For >10 To 25, Add	439.55	
For >25 To 50, Add	309.44	
For >50 To 100, Add	154.72	
For >500 To 1,000, Deduct	-52.04	
For >1,000 To 2,000, Deduct	-79.12	
For >2,000 To 5,000, Deduct	-130.81	
For >5,000, Deduct	-216.60	
33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	265.44	
For Vinlyester Resin, Add	167.57	
For Epoxy Resin, Add	19.75	
For Up To >10, Add	197.85	
For >10 To 25, Add	124.97	
For >25 To 50, Add	86.95	
For >50 To 100, Add	43.48	
For >500 To 1,000, Deduct	-13.92	
For >1,000 To 2,000, Deduct	-21.21	
For >2,000 To 5,000, Deduct	-35.24	
For >5,000, Deduct	-58.30	
33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	309.28	
For Vinlyester Resin, Add	196.75	
For Epoxy Resin, Add	23.19	
For Up To >10, Add	225.17	
For >10 To 25, Add	140.79	
For >25 To 50, Add	98.53	
For >50 To 100, Add	49.26	
For >500 To 1,000, Deduct	-16.17	
For >1,000 To 2,000, Deduct	-24.61	
For >2,000 To 5,000, Deduct	-40.78	
For >5,000, Deduct	-67.50	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0110	LF		19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	353.51	
			For Vinlyester Resin, Add	225.93	
			For Epoxy Resin, Add	26.63	
			For Up To >10, Add	253.66	
			For >10 To 25, Add	157.59	
			For >25 To 50, Add	110.69	
			For >50 To 100, Add	55.35	
			For >500 To 1,000, Deduct	-18.44	
			For >1,000 To 2,000, Deduct	-28.05	
			For >2,000 To 5,000, Deduct	-46.42	
			For >5,000, Deduct	-76.85	
33 01 30 72-0111	LF		19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	397.97	
			For Vinlyester Resin, Add	255.09	
			For Epoxy Resin, Add	30.06	
			For Up To >10, Add	282.86	
			For >10 To 25, Add	174.98	
			For >25 To 50, Add	123.21	
			For >50 To 100, Add	61.60	
			For >500 To 1,000, Deduct	-20.74	
			For >1,000 To 2,000, Deduct	-31.53	
			For >2,000 To 5,000, Deduct	-52.12	
			For >5,000, Deduct	-86.30	
33 01 30 72-0112	LF		19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	443.47	
			For Vinlyester Resin, Add	284.27	
			For Epoxy Resin, Add	33.50	
			For Up To >10, Add	315.16	
			For >10 To 25, Add	194.95	
			For >25 To 50, Add	137.28	
			For >50 To 100, Add	68.64	
			For >500 To 1,000, Deduct	-23.11	
			For >1,000 To 2,000, Deduct	-35.13	
			For >2,000 To 5,000, Deduct	-58.07	
			For >5,000, Deduct	-96.17	
33 01 30 72-0113	LF		19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	533.44	
			For Vinlyester Resin, Add	342.62	
			For Epoxy Resin, Add	40.38	
			For Up To >10, Add	376.67	
			For >10 To 25, Add	232.32	
			For >25 To 50, Add	163.86	
			For >50 To 100, Add	81.93	
			For >500 To 1,000, Deduct	-27.77	
			For >1,000 To 2,000, Deduct	-42.21	
			For >2,000 To 5,000, Deduct	-69.73	
			For >5,000, Deduct	-115.48	
33 01 30 72-0114	LF		19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	623.78	
			For Vinlyester Resin, Add	400.97	
			For Epoxy Resin, Add	47.26	
			For Up To >10, Add	439.32	
			For >10 To 25, Add	270.63	
			For >25 To 50, Add	191.02	
			For >50 To 100, Add	95.51	
			For >500 To 1,000, Deduct	-32.46	
			For >1,000 To 2,000, Deduct	-49.33	
			For >2,000 To 5,000, Deduct	-81.48	
			For >5,000, Deduct	-134.95	
33 01 30 72-0115	LF		19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	715.01	
			For Vinlyester Resin, Add	459.31	
			For Epoxy Resin, Add	54.13	
			For Up To >10, Add	504.63	
			For >10 To 25, Add	311.17	
			For >25 To 50, Add	219.51	
			For >50 To 100, Add	109.75	
			For >500 To 1,000, Deduct	-37.22	
			For >1,000 To 2,000, Deduct	-56.57	
			For >2,000 To 5,000, Deduct	-93.45	
			For >5,000, Deduct	-154.77	
33 01 30 72-0116	LF		19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	805.87	
			For Vinlyester Resin, Add	517.66	
			For Epoxy Resin, Add	61.01	
			For Up To >10, Add	568.81	
			For >10 To 25, Add	350.76	
			For >25 To 50, Add	247.43	
			For >50 To 100, Add	123.71	
			For >500 To 1,000, Deduct	-41.95	
			For >1,000 To 2,000, Deduct	-63.76	
			For >2,000 To 5,000, Deduct	-105.33	
			For >5,000, Deduct	-174.44	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0117	LF		19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	896.72	
			For Vinylester Resin, Add	576.01	
			For Epoxy Resin, Add	67.89	
			For Up To >10, Add	632.99	
			For >10 To 25, Add	390.34	
			For >25 To 50, Add	275.35	
			For >50 To 100, Add	137.67	
			For >500 To 1,000, Deduct	-46.68	
			For >1,000 To 2,000, Deduct	-70.95	
			For >2,000 To 5,000, Deduct	-117.21	
			For >5,000, Deduct	-194.11	
33 01 30 72-0118	LF		19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	989.10	
			For Vinylester Resin, Add	634.35	
			For Epoxy Resin, Add	74.76	
			For Up To >10, Add	701.75	
			For >10 To 25, Add	433.76	
			For >25 To 50, Add	305.56	
			For >50 To 100, Add	152.78	
			For >500 To 1,000, Deduct	-51.53	
			For >1,000 To 2,000, Deduct	-78.33	
			For >2,000 To 5,000, Deduct	-129.47	
			For >5,000, Deduct	-214.40	
33 01 30 72-0119	LF		19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,080.07	
			For Vinylester Resin, Add	692.70	
			For Epoxy Resin, Add	81.64	
			For Up To >10, Add	766.29	
			For >10 To 25, Add	473.64	
			For >25 To 50, Add	333.66	
			For >50 To 100, Add	166.83	
			For >500 To 1,000, Deduct	-56.27	
			For >1,000 To 2,000, Deduct	-85.53	
			For >2,000 To 5,000, Deduct	-141.37	
			For >5,000, Deduct	-234.11	
33 01 30 72-0120			21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0121	LF		21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	283.86	
			For Vinylester Resin, Add	179.84	
			For Epoxy Resin, Add	21.20	
			For Up To >10, Add	209.28	
			For >10 To 25, Add	131.58	
			For >25 To 50, Add	91.79	
			For >50 To 100, Add	45.90	
			For >500 To 1,000, Deduct	-14.87	
			For >1,000 To 2,000, Deduct	-22.64	
			For >2,000 To 5,000, Deduct	-37.57	
			For >5,000, Deduct	-62.16	
33 01 30 72-0122	LF		21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	331.04	
			For Vinylester Resin, Add	211.27	
			For Epoxy Resin, Add	24.90	
			For Up To >10, Add	238.60	
			For >10 To 25, Add	148.53	
			For >25 To 50, Add	104.21	
			For >50 To 100, Add	52.10	
			For >500 To 1,000, Deduct	-17.28	
			For >1,000 To 2,000, Deduct	-26.29	
			For >2,000 To 5,000, Deduct	-43.52	
			For >5,000, Deduct	-72.05	
33 01 30 72-0123	LF		21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	378.59	
			For Vinylester Resin, Add	242.68	
			For Epoxy Resin, Add	28.60	
			For Up To >10, Add	269.05	
			For >10 To 25, Add	166.42	
			For >25 To 50, Add	117.19	
			For >50 To 100, Add	58.59	
			For >500 To 1,000, Deduct	-19.73	
			For >1,000 To 2,000, Deduct	-29.99	
			For >2,000 To 5,000, Deduct	-49.58	
			For >5,000, Deduct	-82.10	
33 01 30 72-0124	LF		21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	426.02	
			For Vinylester Resin, Add	274.10	
			For Epoxy Resin, Add	32.30	
			For Up To >10, Add	299.14	
			For >10 To 25, Add	184.02	
			For >25 To 50, Add	129.99	
			For >50 To 100, Add	64.99	
			For >500 To 1,000, Deduct	-22.16	
			For >1,000 To 2,000, Deduct	-33.67	
			For >2,000 To 5,000, Deduct	-55.60	
			For >5,000, Deduct	-92.09	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0125	LF		21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	474.84	
			For Vinylester Resin, Add	305.52	
			For Epoxy Resin, Add	36.01	
			For Up To >10, Add	333.37	
			For >10 To 25, Add	205.07	
			For >25 To 50, Add	144.86	
			For >50 To 100, Add	72.43	
			For >500 To 1,000, Deduct	-24.70	
			For >1,000 To 2,000, Deduct	-37.53	
			For >2,000 To 5,000, Deduct	-61.97	
			For >5,000, Deduct	-102.64	
33 01 30 72-0126	LF		21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	572.49	
			For Vinylester Resin, Add	368.35	
			For Epoxy Resin, Add	43.41	
			For Up To >10, Add	401.92	
			For >10 To 25, Add	247.23	
			For >25 To 50, Add	174.65	
			For >50 To 100, Add	87.32	
			For >500 To 1,000, Deduct	-29.78	
			For >1,000 To 2,000, Deduct	-45.25	
			For >2,000 To 5,000, Deduct	-74.71	
			For >5,000, Deduct	-123.75	
33 01 30 72-0127	LF		21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	670.14	
			For Vinylester Resin, Add	431.19	
			For Epoxy Resin, Add	50.82	
			For Up To >10, Add	470.45	
			For >10 To 25, Add	289.37	
			For >25 To 50, Add	204.42	
			For >50 To 100, Add	102.21	
			For >500 To 1,000, Deduct	-34.86	
			For >1,000 To 2,000, Deduct	-52.97	
			For >2,000 To 5,000, Deduct	-87.46	
			For >5,000, Deduct	-144.86	
33 01 30 72-0128	LF		21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	767.78	
			For Vinylester Resin, Add	494.03	
			For Epoxy Resin, Add	58.22	
			For Up To >10, Add	538.97	
			For >10 To 25, Add	331.51	
			For >25 To 50, Add	234.20	
			For >50 To 100, Add	117.10	
			For >500 To 1,000, Deduct	-39.94	
			For >1,000 To 2,000, Deduct	-60.69	
			For >2,000 To 5,000, Deduct	-100.20	
			For >5,000, Deduct	-165.96	
33 01 30 72-0129	LF		21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	865.42	
			For Vinylester Resin, Add	556.86	
			For Epoxy Resin, Add	65.63	
			For Up To >10, Add	607.46	
			For >10 To 25, Add	373.63	
			For >25 To 50, Add	263.95	
			For >50 To 100, Add	131.98	
			For >500 To 1,000, Deduct	-45.02	
			For >1,000 To 2,000, Deduct	-68.40	
			For >2,000 To 5,000, Deduct	-112.94	
			For >5,000, Deduct	-187.06	
33 01 30 72-0130	LF		21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	963.07	
			For Vinylester Resin, Add	619.70	
			For Epoxy Resin, Add	73.04	
			For Up To >10, Add	676.01	
			For >10 To 25, Add	415.80	
			For >25 To 50, Add	293.74	
			For >50 To 100, Add	146.87	
			For >500 To 1,000, Deduct	-50.10	
			For >1,000 To 2,000, Deduct	-76.12	
			For >2,000 To 5,000, Deduct	-125.68	
			For >5,000, Deduct	-208.17	
33 01 30 72-0131	LF		21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,063.52	
			For Vinylester Resin, Add	682.54	
			For Epoxy Resin, Add	80.44	
			For Up To >10, Add	752.94	
			For >10 To 25, Add	464.94	
			For >25 To 50, Add	327.72	
			For >50 To 100, Add	163.86	
			For >500 To 1,000, Deduct	-55.39	
			For >1,000 To 2,000, Deduct	-84.19	
			For >2,000 To 5,000, Deduct	-139.12	
			For >5,000, Deduct	-230.40	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0132 LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,161.42	
For Vinlyester Resin, Add	745.37	
For Epoxy Resin, Add	87.85	
For Up To >10, Add	822.21	
For >10 To 25, Add	507.71	
For >25 To 50, Add	357.86	
For >50 To 100, Add	178.93	
For >500 To 1,000, Deduct	-60.49	
For >1,000 To 2,000, Deduct	-91.94	
For >2,000 To 5,000, Deduct	-151.93	
For >5,000, Deduct	-251.60	
33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	302.04	
33 01 30 72-0134 LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	302.04	
For Vinlyester Resin, Add	192.03	
For Epoxy Resin, Add	22.63	
For Up To >10, Add	220.30	
For >10 To 25, Add	137.86	
For >25 To 50, Add	96.43	
For >50 To 100, Add	48.22	
For >500 To 1,000, Deduct	-15.79	
For >1,000 To 2,000, Deduct	-24.04	
For >2,000 To 5,000, Deduct	-39.85	
For >5,000, Deduct	-65.95	
33 01 30 72-0135 LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	352.42	
For Vinlyester Resin, Add	225.69	
For Epoxy Resin, Add	26.60	
For Up To >10, Add	251.21	
For >10 To 25, Add	155.61	
For >25 To 50, Add	109.48	
For >50 To 100, Add	54.74	
For >500 To 1,000, Deduct	-18.37	
For >1,000 To 2,000, Deduct	-27.93	
For >2,000 To 5,000, Deduct	-46.19	
For >5,000, Deduct	-76.48	
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	403.56	
For Vinlyester Resin, Add	259.36	
For Epoxy Resin, Add	30.57	
For Up To >10, Add	284.41	
For >10 To 25, Add	175.25	
For >25 To 50, Add	123.68	
For >50 To 100, Add	61.84	
For >500 To 1,000, Deduct	-21.00	
For >1,000 To 2,000, Deduct	-31.92	
For >2,000 To 5,000, Deduct	-52.72	
For >5,000, Deduct	-87.32	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	455.08	
For Vinlyester Resin, Add	293.02	
For Epoxy Resin, Add	34.53	
For Up To >10, Add	318.74	
For >10 To 25, Add	195.85	
For >25 To 50, Add	138.44	
For >50 To 100, Add	69.22	
For >500 To 1,000, Deduct	-23.67	
For >1,000 To 2,000, Deduct	-35.96	
For >2,000 To 5,000, Deduct	-59.35	
For >5,000, Deduct	-98.31	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	507.35	
For Vinlyester Resin, Add	326.68	
For Epoxy Resin, Add	38.50	
For Up To >10, Add	355.35	
For >10 To 25, Add	218.35	
For >25 To 50, Add	154.34	
For >50 To 100, Add	77.17	
For >500 To 1,000, Deduct	-26.38	
For >1,000 To 2,000, Deduct	-40.08	
For >2,000 To 5,000, Deduct	-66.17	
For >5,000, Deduct	-109.60	
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	611.92	
For Vinlyester Resin, Add	394.00	
For Epoxy Resin, Add	46.44	
For Up To >10, Add	428.61	
For >10 To 25, Add	263.37	
For >25 To 50, Add	186.16	
For >50 To 100, Add	93.08	
For >500 To 1,000, Deduct	-31.82	
For >1,000 To 2,000, Deduct	-48.35	
For >2,000 To 5,000, Deduct	-79.81	
For >5,000, Deduct	-132.20	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0140	LF		22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	716.49	
			For Vinlyester Resin, Add	461.33	
			For Epoxy Resin, Add	54.37	
			For Up To >10, Add	501.87	
			For >10 To 25, Add	308.39	
			For >25 To 50, Add	217.98	
			For >50 To 100, Add	108.99	
			For >500 To 1,000, Deduct	-37.26	
			For >1,000 To 2,000, Deduct	-56.61	
			For >2,000 To 5,000, Deduct	-93.45	
			For >5,000, Deduct	-154.79	
33 01 30 72-0141	LF		22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	821.06	
			For Vinlyester Resin, Add	528.65	
			For Epoxy Resin, Add	62.31	
			For Up To >10, Add	575.13	
			For >10 To 25, Add	353.41	
			For >25 To 50, Add	249.80	
			For >50 To 100, Add	124.90	
			For >500 To 1,000, Deduct	-42.70	
			For >1,000 To 2,000, Deduct	-64.87	
			For >2,000 To 5,000, Deduct	-107.09	
			For >5,000, Deduct	-177.38	
33 01 30 72-0142	LF		22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	925.61	
			For Vinlyester Resin, Add	595.97	
			For Epoxy Resin, Add	70.24	
			For Up To >10, Add	648.36	
			For >10 To 25, Add	398.40	
			For >25 To 50, Add	281.61	
			For >50 To 100, Add	140.80	
			For >500 To 1,000, Deduct	-48.14	
			For >1,000 To 2,000, Deduct	-73.13	
			For >2,000 To 5,000, Deduct	-120.72	
			For >5,000, Deduct	-199.97	
33 01 30 72-0143	LF		22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,030.19	
			For Vinlyester Resin, Add	663.30	
			For Epoxy Resin, Add	78.17	
			For Up To >10, Add	721.65	
			For >10 To 25, Add	443.44	
			For >25 To 50, Add	313.44	
			For >50 To 100, Add	156.72	
			For >500 To 1,000, Deduct	-53.58	
			For >1,000 To 2,000, Deduct	-81.40	
			For >2,000 To 5,000, Deduct	-134.36	
			For >5,000, Deduct	-222.56	
33 01 30 72-0144	LF		22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,137.69	
			For Vinlyester Resin, Add	730.63	
			For Epoxy Resin, Add	86.11	
			For Up To >10, Add	803.70	
			For >10 To 25, Add	495.79	
			For >25 To 50, Add	349.66	
			For >50 To 100, Add	174.83	
			For >500 To 1,000, Deduct	-59.23	
			For >1,000 To 2,000, Deduct	-90.02	
			For >2,000 To 5,000, Deduct	-148.74	
			For >5,000, Deduct	-246.33	
33 01 30 72-0145	LF		22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,242.51	
			For Vinlyester Resin, Add	797.95	
			For Epoxy Resin, Add	94.04	
			For Up To >10, Add	877.71	
			For >10 To 25, Add	541.43	
			For >25 To 50, Add	381.86	
			For >50 To 100, Add	190.93	
			For >500 To 1,000, Deduct	-64.69	
			For >1,000 To 2,000, Deduct	-98.32	
			For >2,000 To 5,000, Deduct	-162.44	
			For >5,000, Deduct	-269.02	
33 01 30 72-0146			24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0147	LF		24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	319.95	
			For Vinlyester Resin, Add	204.13	
			For Epoxy Resin, Add	24.06	
			For Up To >10, Add	230.83	
			For >10 To 25, Add	143.75	
			For >25 To 50, Add	100.83	
			For >50 To 100, Add	50.42	
			For >500 To 1,000, Deduct	-16.71	
			For >1,000 To 2,000, Deduct	-25.41	
			For >2,000 To 5,000, Deduct	-42.08	
			For >5,000, Deduct	-69.66	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	373.54	
For Vinylester Resin, Add	240.04	
For Epoxy Resin, Add	28.29	
For Up To >10, Add	263.35	
For >10 To 25, Add	162.30	
For >25 To 50, Add	114.53	
For >50 To 100, Add	57.26	
For >500 To 1,000, Deduct	-19.44	
For >1,000 To 2,000, Deduct	-29.55	
For >2,000 To 5,000, Deduct	-48.81	
For >5,000, Deduct	-80.83	
33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	428.26	
For Vinylester Resin, Add	275.94	
For Epoxy Resin, Add	32.52	
For Up To >10, Add	299.28	
For >10 To 25, Add	183.70	
For >25 To 50, Add	129.93	
For >50 To 100, Add	64.97	
For >500 To 1,000, Deduct	-22.26	
For >1,000 To 2,000, Deduct	-33.82	
For >2,000 To 5,000, Deduct	-55.82	
For >5,000, Deduct	-92.46	
33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	484.00	
For Vinylester Resin, Add	311.84	
For Epoxy Resin, Add	36.75	
For Up To >10, Add	338.28	
For >10 To 25, Add	207.65	
For >25 To 50, Add	146.86	
For >50 To 100, Add	73.43	
For >500 To 1,000, Deduct	-25.16	
For >1,000 To 2,000, Deduct	-38.23	
For >2,000 To 5,000, Deduct	-63.09	
For >5,000, Deduct	-104.50	
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	539.75	
For Vinylester Resin, Add	347.75	
For Epoxy Resin, Add	40.99	
For Up To >10, Add	377.28	
For >10 To 25, Add	231.60	
For >25 To 50, Add	163.80	
For >50 To 100, Add	81.90	
For >500 To 1,000, Deduct	-28.06	
For >1,000 To 2,000, Deduct	-42.63	
For >2,000 To 5,000, Deduct	-70.35	
For >5,000, Deduct	-116.54	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	651.24	
For Vinylester Resin, Add	419.57	
For Epoxy Resin, Add	49.45	
For Up To >10, Add	455.27	
For >10 To 25, Add	279.50	
For >25 To 50, Add	197.67	
For >50 To 100, Add	98.83	
For >500 To 1,000, Deduct	-33.86	
For >1,000 To 2,000, Deduct	-51.44	
For >2,000 To 5,000, Deduct	-84.89	
For >5,000, Deduct	-140.62	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	791.09	
For Vinylester Resin, Add	511.32	
For Epoxy Resin, Add	60.26	
For Up To >10, Add	547.12	
For >10 To 25, Add	334.19	
For >25 To 50, Add	237.04	
For >50 To 100, Add	118.52	
For >500 To 1,000, Deduct	-41.07	
For >1,000 To 2,000, Deduct	-62.36	
For >2,000 To 5,000, Deduct	-102.81	
For >5,000, Deduct	-170.34	
33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	874.09	
For Vinylester Resin, Add	563.19	
For Epoxy Resin, Add	66.38	
For Up To >10, Add	610.87	
For >10 To 25, Add	374.97	
For >25 To 50, Add	265.21	
For >50 To 100, Add	132.60	
For >500 To 1,000, Deduct	-45.44	
For >1,000 To 2,000, Deduct	-69.03	
For >2,000 To 5,000, Deduct	-113.93	
For >5,000, Deduct	-188.72	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0155	LF	24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	.....	985.58	
		For Vinlyester Resin, Add		635.01	
		For Epoxy Resin, Add		74.84	
		For Up To >10, Add		688.87	
		For >10 To 25, Add		422.86	
		For >25 To 50, Add		299.08	
		For >50 To 100, Add		149.54	
		For >500 To 1,000, Deduct		-51.24	
		For >1,000 To 2,000, Deduct		-77.84	
		For >2,000 To 5,000, Deduct		-128.47	
		For >5,000, Deduct		-212.80	
33 01 30 72-0156	LF	24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	.....	1,097.06	
		For Vinlyester Resin, Add		706.81	
		For Epoxy Resin, Add		83.30	
		For Up To >10, Add		766.86	
		For >10 To 25, Add		470.76	
		For >25 To 50, Add		332.94	
		For >50 To 100, Add		166.47	
		For >500 To 1,000, Deduct		-57.04	
		For >1,000 To 2,000, Deduct		-86.65	
		For >2,000 To 5,000, Deduct		-143.00	
		For >5,000, Deduct		-236.88	
33 01 30 72-0157	LF	24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	.....	1,211.59	
		For Vinlyester Resin, Add		778.62	
		For Epoxy Resin, Add		91.77	
		For Up To >10, Add		853.97	
		For >10 To 25, Add		526.26	
		For >25 To 50, Add		371.37	
		For >50 To 100, Add		185.68	
		For >500 To 1,000, Deduct		-63.06	
		For >1,000 To 2,000, Deduct		-95.83	
		For >2,000 To 5,000, Deduct		-158.30	
		For >5,000, Deduct		-262.17	
33 01 30 72-0158	LF	24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	.....	1,323.33	
		For Vinlyester Resin, Add		850.44	
		For Epoxy Resin, Add		100.23	
		For Up To >10, Add		932.72	
		For >10 To 25, Add		574.78	
		For >25 To 50, Add		405.61	
		For >50 To 100, Add		202.81	
		For >500 To 1,000, Deduct		-68.88	
		For >1,000 To 2,000, Deduct		-104.67	
		For >2,000 To 5,000, Deduct		-172.89	
		For >5,000, Deduct		-286.35	
33 01 30 72-0159	LF	24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	.....	1,435.07	
		For Vinlyester Resin, Add		922.25	
		For Epoxy Resin, Add		108.69	
		For Up To >10, Add		1,011.46	
		For >10 To 25, Add		623.30	
		For >25 To 50, Add		439.86	
		For >50 To 100, Add		219.93	
		For >500 To 1,000, Deduct		-74.69	
		For >1,000 To 2,000, Deduct		-113.51	
		For >2,000 To 5,000, Deduct		-187.49	
		For >5,000, Deduct		-310.53	
33 01 30 72-0160	LF	24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	.....	1,546.82	
		For Vinlyester Resin, Add		994.06	
		For Epoxy Resin, Add		117.16	
		For Up To >10, Add		1,090.24	
		For >10 To 25, Add		671.85	
		For >25 To 50, Add		474.11	
		For >50 To 100, Add		237.06	
		For >500 To 1,000, Deduct		-80.51	
		For >1,000 To 2,000, Deduct		-122.35	
		For >2,000 To 5,000, Deduct		-202.09	
		For >5,000, Deduct		-334.71	
33 01 30 72-0161		25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)			
33 01 30 72-0162	LF	25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	.....	394.91	
		For Vinlyester Resin, Add		254.28	
		For Epoxy Resin, Add		29.97	
		For Up To >10, Add		276.58	
		For >10 To 25, Add		169.94	
		For >25 To 50, Add		120.13	
		For >50 To 100, Add		60.06	
		For >500 To 1,000, Deduct		-20.54	
		For >1,000 To 2,000, Deduct		-31.20	
		For >2,000 To 5,000, Deduct		-51.50	
		For >5,000, Deduct		-85.31	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	453.60	
For Vinylester Resin, Add	292.43	
For Epoxy Resin, Add	34.47	
For Up To >10, Add	316.40	
For >10 To 25, Add	194.04	
For >25 To 50, Add	137.31	
For >50 To 100, Add	68.66	
For >500 To 1,000, Deduct	-23.58	
For >1,000 To 2,000, Deduct	-35.81	
For >2,000 To 5,000, Deduct	-59.09	
For >5,000, Deduct	-97.89	
33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	512.82	
For Vinylester Resin, Add	330.59	
For Epoxy Resin, Add	38.96	
For Up To >10, Add	357.79	
For >10 To 25, Add	219.44	
For >25 To 50, Add	155.28	
For >50 To 100, Add	77.64	
For >500 To 1,000, Deduct	-26.65	
For >1,000 To 2,000, Deduct	-40.49	
For >2,000 To 5,000, Deduct	-66.81	
For >5,000, Deduct	-110.67	
33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	571.89	
For Vinylester Resin, Add	368.74	
For Epoxy Resin, Add	43.46	
For Up To >10, Add	398.75	
For >10 To 25, Add	244.49	
For >25 To 50, Add	173.03	
For >50 To 100, Add	86.52	
For >500 To 1,000, Deduct	-29.72	
For >1,000 To 2,000, Deduct	-45.15	
For >2,000 To 5,000, Deduct	-74.49	
For >5,000, Deduct	-123.40	
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	690.28	
For Vinylester Resin, Add	445.03	
For Epoxy Resin, Add	52.45	
For Up To >10, Add	481.44	
For >10 To 25, Add	295.24	
For >25 To 50, Add	208.93	
For >50 To 100, Add	104.47	
For >500 To 1,000, Deduct	-35.88	
For >1,000 To 2,000, Deduct	-54.50	
For >2,000 To 5,000, Deduct	-89.92	
For >5,000, Deduct	-148.96	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	808.58	
For Vinylester Resin, Add	521.34	
For Epoxy Resin, Add	61.44	
For Up To >10, Add	563.82	
For >10 To 25, Add	345.72	
For >25 To 50, Add	244.67	
For >50 To 100, Add	122.33	
For >500 To 1,000, Deduct	-42.02	
For >1,000 To 2,000, Deduct	-63.83	
For >2,000 To 5,000, Deduct	-105.32	
For >5,000, Deduct	-174.48	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	926.98	
For Vinylester Resin, Add	597.64	
For Epoxy Resin, Add	70.44	
For Up To >10, Add	646.52	
For >10 To 25, Add	396.47	
For >25 To 50, Add	280.57	
For >50 To 100, Add	140.28	
For >500 To 1,000, Deduct	-48.18	
For >1,000 To 2,000, Deduct	-73.18	
For >2,000 To 5,000, Deduct	-120.75	
For >5,000, Deduct	-200.04	
33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,045.26	
For Vinylester Resin, Add	673.94	
For Epoxy Resin, Add	79.43	
For Up To >10, Add	728.86	
For >10 To 25, Add	446.92	
For >25 To 50, Add	316.29	
For >50 To 100, Add	158.14	
For >500 To 1,000, Deduct	-54.33	
For >1,000 To 2,000, Deduct	-82.52	
For >2,000 To 5,000, Deduct	-136.15	
For >5,000, Deduct	-225.55	



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		Operation and Maintenance of Utilities	33 01	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0170	LF		25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,163.66	
			For Vinlyester Resin, Add	750.24	
			For Epoxy Resin, Add	88.42	
			For Up To >10, Add	811.56	
			For >10 To 25, Add	497.67	
			For >25 To 50, Add	352.19	
			For >50 To 100, Add	176.09	
			For >500 To 1,000, Deduct	-60.48	
			For >1,000 To 2,000, Deduct	-91.87	
			For >2,000 To 5,000, Deduct	-151.58	
			For >5,000, Deduct	-251.11	
33 01 30 72-0171	LF		25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,286.14	
			For Vinlyester Resin, Add	826.54	
			For Epoxy Resin, Add	97.41	
			For Up To >10, Add	906.50	
			For >10 To 25, Add	558.62	
			For >25 To 50, Add	394.21	
			For >50 To 100, Add	197.10	
			For >500 To 1,000, Deduct	-66.94	
			For >1,000 To 2,000, Deduct	-101.73	
			For >2,000 To 5,000, Deduct	-168.03	
			For >5,000, Deduct	-278.30	
33 01 30 72-0172	LF		25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,404.92	
			For Vinlyester Resin, Add	902.84	
			For Epoxy Resin, Add	106.41	
			For Up To >10, Add	990.34	
			For >10 To 25, Add	610.32	
			For >25 To 50, Add	430.68	
			For >50 To 100, Add	215.34	
			For >500 To 1,000, Deduct	-73.12	
			For >1,000 To 2,000, Deduct	-111.13	
			For >2,000 To 5,000, Deduct	-183.56	
			For >5,000, Deduct	-304.01	
33 01 30 72-0173	LF		25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,523.58	
			For Vinlyester Resin, Add	979.14	
			For Epoxy Resin, Add	115.40	
			For Up To >10, Add	1,073.82	
			For >10 To 25, Add	661.72	
			For >25 To 50, Add	466.97	
			For >50 To 100, Add	233.48	
			For >500 To 1,000, Deduct	-79.30	
			For >1,000 To 2,000, Deduct	-120.51	
			For >2,000 To 5,000, Deduct	-199.05	
			For >5,000, Deduct	-329.68	
33 01 30 72-0174	LF		25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,642.38	
			For Vinlyester Resin, Add	1,055.44	
			For Epoxy Resin, Add	124.39	
			For Up To >10, Add	1,157.72	
			For >10 To 25, Add	713.47	
			For >25 To 50, Add	503.47	
			For >50 To 100, Add	251.73	
			For >500 To 1,000, Deduct	-85.48	
			For >1,000 To 2,000, Deduct	-129.91	
			For >2,000 To 5,000, Deduct	-214.58	
			For >5,000, Deduct	-355.40	
33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0176	LF		27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	416.03	
			For Vinlyester Resin, Add	268.45	
			For Epoxy Resin, Add	31.64	
			For Up To >10, Add	289.34	
			For >10 To 25, Add	177.20	
			For >25 To 50, Add	125.50	
			For >50 To 100, Add	62.75	
			For >500 To 1,000, Deduct	-21.61	
			For >1,000 To 2,000, Deduct	-32.83	
			For >2,000 To 5,000, Deduct	-54.15	
			For >5,000, Deduct	-89.71	
33 01 30 72-0177	LF		27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	478.70	
			For Vinlyester Resin, Add	308.84	
			For Epoxy Resin, Add	36.40	
			For Up To >10, Add	333.10	
			For >10 To 25, Add	204.05	
			For >25 To 50, Add	144.49	
			For >50 To 100, Add	72.25	
			For >500 To 1,000, Deduct	-24.87	
			For >1,000 To 2,000, Deduct	-37.78	
			For >2,000 To 5,000, Deduct	-62.32	
			For >5,000, Deduct	-103.24	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	541.36	
For Vinlyester Resin, Add	349.24	
For Epoxy Resin, Add	41.16	
For Up To >10, Add	376.81	
For >10 To 25, Add	230.85	
For >25 To 50, Add	163.46	
For >50 To 100, Add	81.73	
For >500 To 1,000, Deduct	-28.13	
For >1,000 To 2,000, Deduct	-42.72	
For >2,000 To 5,000, Deduct	-70.48	
For >5,000, Deduct	-116.76	
33 01 30 72-0179 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	603.90	
For Vinlyester Resin, Add	389.63	
For Epoxy Resin, Add	45.92	
For Up To >10, Add	420.15	
For >10 To 25, Add	257.36	
For >25 To 50, Add	182.24	
For >50 To 100, Add	91.12	
For >500 To 1,000, Deduct	-31.38	
For >1,000 To 2,000, Deduct	-47.66	
For >2,000 To 5,000, Deduct	-78.61	
For >5,000, Deduct	-130.24	
33 01 30 72-0180 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	729.10	
For Vinlyester Resin, Add	470.42	
For Epoxy Resin, Add	55.44	
For Up To >10, Add	507.23	
For >10 To 25, Add	310.68	
For >25 To 50, Add	220.01	
For >50 To 100, Add	110.01	
For >500 To 1,000, Deduct	-37.88	
For >1,000 To 2,000, Deduct	-57.54	
For >2,000 To 5,000, Deduct	-94.91	
For >5,000, Deduct	-157.23	
33 01 30 72-0181 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	854.42	
For Vinlyester Resin, Add	551.21	
For Epoxy Resin, Add	64.96	
For Up To >10, Add	594.66	
For >10 To 25, Add	364.31	
For >25 To 50, Add	257.96	
For >50 To 100, Add	128.98	
For >500 To 1,000, Deduct	-44.40	
For >1,000 To 2,000, Deduct	-67.43	
For >2,000 To 5,000, Deduct	-111.24	
For >5,000, Deduct	-184.28	
33 01 30 72-0182 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	979.62	
For Vinlyester Resin, Add	632.00	
For Epoxy Resin, Add	74.49	
For Up To >10, Add	681.74	
For >10 To 25, Add	417.64	
For >25 To 50, Add	295.73	
For >50 To 100, Add	147.86	
For >500 To 1,000, Deduct	-50.90	
For >1,000 To 2,000, Deduct	-77.31	
For >2,000 To 5,000, Deduct	-127.53	
For >5,000, Deduct	-211.28	
33 01 30 72-0183 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,104.83	
For Vinlyester Resin, Add	712.79	
For Epoxy Resin, Add	84.01	
For Up To >10, Add	768.82	
For >10 To 25, Add	470.97	
For >25 To 50, Add	333.49	
For >50 To 100, Add	166.75	
For >500 To 1,000, Deduct	-57.41	
For >1,000 To 2,000, Deduct	-87.19	
For >2,000 To 5,000, Deduct	-143.83	
For >5,000, Deduct	-238.28	
33 01 30 72-0184 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,230.02	
For Vinlyester Resin, Add	793.58	
For Epoxy Resin, Add	93.53	
For Up To >10, Add	855.86	
For >10 To 25, Add	524.27	
For >25 To 50, Add	371.25	
For >50 To 100, Add	185.62	
For >500 To 1,000, Deduct	-63.91	
For >1,000 To 2,000, Deduct	-97.07	
For >2,000 To 5,000, Deduct	-160.13	
For >5,000, Deduct	-265.27	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0185	LF	27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,360.57	
		For Vinlyester Resin, Add	874.36	
		For Epoxy Resin, Add	103.05	
		For Up To >10, Add	958.99	
		For >10 To 25, Add	590.97	
		For >25 To 50, Add	417.04	
		For >50 To 100, Add	208.52	
		For >500 To 1,000, Deduct	-70.82	
		For >1,000 To 2,000, Deduct	-107.62	
		For >2,000 To 5,000, Deduct	-177.76	
		For >5,000, Deduct	-294.41	
33 01 30 72-0186	LF	27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,486.26	
		For Vinlyester Resin, Add	955.15	
		For Epoxy Resin, Add	112.57	
		For Up To >10, Add	1,047.53	
		For >10 To 25, Add	645.53	
		For >25 To 50, Add	455.54	
		For >50 To 100, Add	227.77	
		For >500 To 1,000, Deduct	-77.36	
		For >1,000 To 2,000, Deduct	-117.56	
		For >2,000 To 5,000, Deduct	-194.18	
		For >5,000, Deduct	-321.60	
33 01 30 72-0187	LF	27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,611.98	
		For Vinlyester Resin, Add	1,035.94	
		For Epoxy Resin, Add	122.09	
		For Up To >10, Add	1,136.14	
		For >10 To 25, Add	700.13	
		For >25 To 50, Add	494.07	
		For >50 To 100, Add	247.04	
		For >500 To 1,000, Deduct	-83.90	
		For >1,000 To 2,000, Deduct	-127.50	
		For >2,000 To 5,000, Deduct	-210.61	
		For >5,000, Deduct	-348.81	
33 01 30 72-0188	LF	27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,737.69	
		For Vinlyester Resin, Add	1,116.73	
		For Epoxy Resin, Add	131.61	
		For Up To >10, Add	1,224.75	
		For >10 To 25, Add	754.73	
		For >25 To 50, Add	532.61	
		For >50 To 100, Add	266.30	
		For >500 To 1,000, Deduct	-90.44	
		For >1,000 To 2,000, Deduct	-137.44	
		For >2,000 To 5,000, Deduct	-227.03	
		For >5,000, Deduct	-376.01	
33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)				
33 01 30 72-0190	LF	28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	503.41	
		For Vinlyester Resin, Add	325.16	
		For Epoxy Resin, Add	38.32	
		For Up To >10, Add	348.96	
		For >10 To 25, Add	213.38	
		For >25 To 50, Add	151.25	
		For >50 To 100, Add	75.63	
		For >500 To 1,000, Deduct	-26.14	
		For >1,000 To 2,000, Deduct	-39.70	
		For >2,000 To 5,000, Deduct	-65.47	
		For >5,000, Deduct	-108.46	
33 01 30 72-0191	LF	28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	569.54	
		For Vinlyester Resin, Add	367.80	
		For Epoxy Resin, Add	43.35	
		For Up To >10, Add	395.05	
		For >10 To 25, Add	241.63	
		For >25 To 50, Add	171.25	
		For >50 To 100, Add	85.63	
		For >500 To 1,000, Deduct	-29.58	
		For >1,000 To 2,000, Deduct	-44.92	
		For >2,000 To 5,000, Deduct	-74.08	
		For >5,000, Deduct	-122.73	
33 01 30 72-0192	LF	28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	635.53	
		For Vinlyester Resin, Add	410.44	
		For Epoxy Resin, Add	48.37	
		For Up To >10, Add	440.74	
		For >10 To 25, Add	269.56	
		For >25 To 50, Add	191.05	
		For >50 To 100, Add	95.53	
		For >500 To 1,000, Deduct	-33.01	
		For >1,000 To 2,000, Deduct	-50.12	
		For >2,000 To 5,000, Deduct	-82.66	
		For >5,000, Deduct	-136.94	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0193	LF		28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	803.53	
			For Vinlyester Resin, Add	520.92	
			For Epoxy Resin, Add	61.39	
			For Up To >10, Add	550.17	
			For >10 To 25, Add	334.44	
			For >25 To 50, Add	237.87	
			For >50 To 100, Add	118.94	
			For >500 To 1,000, Deduct	-41.66	
			For >1,000 To 2,000, Deduct	-63.23	
			For >2,000 To 5,000, Deduct	-104.14	
			For >5,000, Deduct	-172.58	
33 01 30 72-0194	LF		28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	899.65	
			For Vinlyester Resin, Add	580.99	
			For Epoxy Resin, Add	68.47	
			For Up To >10, Add	623.98	
			For >10 To 25, Add	381.65	
			For >25 To 50, Add	270.49	
			For >50 To 100, Add	135.24	
			For >500 To 1,000, Deduct	-46.72	
			For >1,000 To 2,000, Deduct	-70.96	
			For >2,000 To 5,000, Deduct	-117.01	
			For >5,000, Deduct	-193.86	
33 01 30 72-0195	LF		28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,031.63	
			For Vinlyester Resin, Add	666.27	
			For Epoxy Resin, Add	78.52	
			For Up To >10, Add	715.37	
			For >10 To 25, Add	437.50	
			For >25 To 50, Add	310.09	
			For >50 To 100, Add	155.05	
			For >500 To 1,000, Deduct	-53.58	
			For >1,000 To 2,000, Deduct	-81.36	
			For >2,000 To 5,000, Deduct	-134.17	
			For >5,000, Deduct	-222.29	
33 01 30 72-0196	LF		28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,163.63	
			For Vinlyester Resin, Add	751.55	
			For Epoxy Resin, Add	88.58	
			For Up To >10, Add	806.79	
			For >10 To 25, Add	493.39	
			For >25 To 50, Add	349.71	
			For >50 To 100, Add	174.86	
			For >500 To 1,000, Deduct	-60.43	
			For >1,000 To 2,000, Deduct	-91.77	
			For >2,000 To 5,000, Deduct	-151.33	
			For >5,000, Deduct	-250.72	
33 01 30 72-0197	LF		28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,295.62	
			For Vinlyester Resin, Add	836.82	
			For Epoxy Resin, Add	98.63	
			For Up To >10, Add	898.21	
			For >10 To 25, Add	549.27	
			For >25 To 50, Add	389.33	
			For >50 To 100, Add	194.67	
			For >500 To 1,000, Deduct	-67.29	
			For >1,000 To 2,000, Deduct	-102.18	
			For >2,000 To 5,000, Deduct	-168.50	
			For >5,000, Deduct	-279.16	
33 01 30 72-0198	LF		28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,433.21	
			For Vinlyester Resin, Add	922.10	
			For Epoxy Resin, Add	108.68	
			For Up To >10, Add	1,006.41	
			For >10 To 25, Add	619.12	
			For >25 To 50, Add	437.34	
			For >50 To 100, Add	218.67	
			For >500 To 1,000, Deduct	-74.56	
			For >1,000 To 2,000, Deduct	-113.29	
			For >2,000 To 5,000, Deduct	-187.05	
			For >5,000, Deduct	-309.83	
33 01 30 72-0199	LF		28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,565.71	
			For Vinlyester Resin, Add	1,007.38	
			For Epoxy Resin, Add	118.73	
			For Up To >10, Add	1,099.36	
			For >10 To 25, Add	676.28	
			For >25 To 50, Add	477.72	
			For >50 To 100, Add	238.86	
			For >500 To 1,000, Deduct	-81.45	
			For >1,000 To 2,000, Deduct	-123.76	
			For >2,000 To 5,000, Deduct	-204.34	
			For >5,000, Deduct	-338.46	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0200 LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,698.33	
For Vinlyester Resin, Add	1,092.65	
For Epoxy Resin, Add	128.78	
For Up To >10, Add	1,192.67	
For >10 To 25, Add	733.73	
For >25 To 50, Add	518.29	
For >50 To 100, Add	259.14	
For >500 To 1,000, Deduct	-88.35	
For >1,000 To 2,000, Deduct	-134.24	
For >2,000 To 5,000, Deduct	-221.66	
For >5,000, Deduct	-367.15	
33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,830.83	
For Vinlyester Resin, Add	1,177.93	
For Epoxy Resin, Add	138.83	
For Up To >10, Add	1,285.59	
For >10 To 25, Add	790.87	
For >25 To 50, Add	558.66	
For >50 To 100, Add	279.33	
For >500 To 1,000, Deduct	-95.24	
For >1,000 To 2,000, Deduct	-144.72	
For >2,000 To 5,000, Deduct	-238.95	
For >5,000, Deduct	-395.78	
33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	527.99	
For Vinlyester Resin, Add	341.39	
For Epoxy Resin, Add	40.24	
For Up To >10, Add	364.72	
For >10 To 25, Add	222.65	
For >25 To 50, Add	157.98	
For >50 To 100, Add	78.99	
For >500 To 1,000, Deduct	-27.41	
For >1,000 To 2,000, Deduct	-41.61	
For >2,000 To 5,000, Deduct	-68.60	
For >5,000, Deduct	-113.66	
33 01 30 72-0204 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	597.45	
For Vinlyester Resin, Add	386.27	
For Epoxy Resin, Add	45.53	
For Up To >10, Add	412.80	
For >10 To 25, Add	252.03	
For >25 To 50, Add	178.81	
For >50 To 100, Add	89.40	
For >500 To 1,000, Deduct	-31.01	
For >1,000 To 2,000, Deduct	-47.09	
For >2,000 To 5,000, Deduct	-77.63	
For >5,000, Deduct	-128.62	
33 01 30 72-0205 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	666.91	
For Vinlyester Resin, Add	431.16	
For Epoxy Resin, Add	50.82	
For Up To >10, Add	460.88	
For >10 To 25, Add	281.41	
For >25 To 50, Add	199.64	
For >50 To 100, Add	99.82	
For >500 To 1,000, Deduct	-34.62	
For >1,000 To 2,000, Deduct	-52.57	
For >2,000 To 5,000, Deduct	-86.66	
For >5,000, Deduct	-143.58	
33 01 30 72-0206 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	805.69	
For Vinlyester Resin, Add	520.92	
For Epoxy Resin, Add	61.39	
For Up To >10, Add	556.65	
For >10 To 25, Add	339.84	
For >25 To 50, Add	241.11	
For >50 To 100, Add	120.56	
For >500 To 1,000, Deduct	-41.82	
For >1,000 To 2,000, Deduct	-63.50	
For >2,000 To 5,000, Deduct	-104.68	
For >5,000, Deduct	-173.44	
33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	944.60	
For Vinlyester Resin, Add	610.69	
For Epoxy Resin, Add	71.97	
For Up To >10, Add	652.78	
For >10 To 25, Add	398.58	
For >25 To 50, Add	282.77	
For >50 To 100, Add	141.38	
For >500 To 1,000, Deduct	-49.03	
For >1,000 To 2,000, Deduct	-74.45	
For >2,000 To 5,000, Deduct	-122.74	
For >5,000, Deduct	-203.36	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0208 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,083.39	
For Vinylester Resin, Add	700.45	
For Epoxy Resin, Add	82.55	
For Up To >10, Add	748.57	
For >10 To 25, Add	457.04	
For >25 To 50, Add	324.25	
For >50 To 100, Add	162.13	
For >500 To 1,000, Deduct	-56.24	
For >1,000 To 2,000, Deduct	-85.39	
For >2,000 To 5,000, Deduct	-140.76	
For >5,000, Deduct	-233.23	
33 01 30 72-0209 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,222.30	
For Vinylester Resin, Add	790.22	
For Epoxy Resin, Add	93.13	
For Up To >10, Add	844.70	
For >10 To 25, Add	515.77	
For >25 To 50, Add	365.91	
For >50 To 100, Add	182.95	
For >500 To 1,000, Deduct	-63.45	
For >1,000 To 2,000, Deduct	-96.34	
For >2,000 To 5,000, Deduct	-158.82	
For >5,000, Deduct	-263.14	
33 01 30 72-0210 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,361.09	
For Vinylester Resin, Add	879.98	
For Epoxy Resin, Add	103.71	
For Up To >10, Add	940.47	
For >10 To 25, Add	574.21	
For >25 To 50, Add	407.38	
For >50 To 100, Add	203.69	
For >500 To 1,000, Deduct	-70.65	
For >1,000 To 2,000, Deduct	-107.28	
For >2,000 To 5,000, Deduct	-176.85	
For >5,000, Deduct	-293.01	
33 01 30 72-0211 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,505.72	
For Vinylester Resin, Add	969.75	
For Epoxy Resin, Add	114.29	
For Up To >10, Add	1,053.79	
For >10 To 25, Add	647.26	
For >25 To 50, Add	457.63	
For >50 To 100, Add	228.81	
For >500 To 1,000, Deduct	-78.30	
For >1,000 To 2,000, Deduct	-118.95	
For >2,000 To 5,000, Deduct	-196.33	
For >5,000, Deduct	-325.22	
33 01 30 72-0212 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,645.01	
For Vinylester Resin, Add	1,059.51	
For Epoxy Resin, Add	124.87	
For Up To >10, Add	1,151.06	
For >10 To 25, Add	706.95	
For >25 To 50, Add	499.85	
For >50 To 100, Add	249.92	
For >500 To 1,000, Deduct	-85.54	
For >1,000 To 2,000, Deduct	-129.95	
For >2,000 To 5,000, Deduct	-214.49	
For >5,000, Deduct	-355.29	
33 01 30 72-0213 LF 30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,784.44	
For Vinylester Resin, Add	1,149.28	
For Epoxy Resin, Add	135.45	
For Up To >10, Add	1,248.75	
For >10 To 25, Add	766.98	
For >25 To 50, Add	542.28	
For >50 To 100, Add	271.14	
For >500 To 1,000, Deduct	-92.79	
For >1,000 To 2,000, Deduct	-140.96	
For >2,000 To 5,000, Deduct	-232.67	
For >5,000, Deduct	-385.41	
33 01 30 72-0214 LF 30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,923.86	
For Vinylester Resin, Add	1,239.04	
For Epoxy Resin, Add	146.03	
For Up To >10, Add	1,346.43	
For >10 To 25, Add	827.02	
For >25 To 50, Add	584.71	
For >50 To 100, Add	292.36	
For >500 To 1,000, Deduct	-100.04	
For >1,000 To 2,000, Deduct	-151.98	
For >2,000 To 5,000, Deduct	-250.86	
For >5,000, Deduct	-415.53	



		Utilities	33	33
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0215	LF		30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,063.15	
			For Vinylster Resin, Add	1,328.81	
			For Epoxy Resin, Add	156.61	
			For Up To >10, Add	1,443.70	
			For >10 To 25, Add	886.70	
			For >25 To 50, Add	626.94	
			For >50 To 100, Add	313.47	
			For >500 To 1,000, Deduct	-107.28	
			For >1,000 To 2,000, Deduct	-162.98	
			For >2,000 To 5,000, Deduct	-269.01	
			For >5,000, Deduct	-445.60	
33 01 30 72-0216	LF		30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,202.58	
			For Vinylster Resin, Add	1,418.58	
			For Epoxy Resin, Add	167.19	
			For Up To >10, Add	1,541.39	
			For >10 To 25, Add	946.74	
			For >25 To 50, Add	669.37	
			For >50 To 100, Add	334.68	
			For >500 To 1,000, Deduct	-114.53	
			For >1,000 To 2,000, Deduct	-174.00	
			For >2,000 To 5,000, Deduct	-287.19	
			For >5,000, Deduct	-475.72	
33 01 30 72-0217			31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0218	LF		31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	552.45	
			For Vinylster Resin, Add	357.53	
			For Epoxy Resin, Add	42.14	
			For Up To >10, Add	380.45	
			For >10 To 25, Add	231.92	
			For >25 To 50, Add	164.69	
			For >50 To 100, Add	82.34	
			For >500 To 1,000, Deduct	-28.66	
			For >1,000 To 2,000, Deduct	-43.52	
			For >2,000 To 5,000, Deduct	-71.71	
			For >5,000, Deduct	-118.83	
33 01 30 72-0219	LF		31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	625.25	
			For Vinylster Resin, Add	404.66	
			For Epoxy Resin, Add	47.69	
			For Up To >10, Add	430.53	
			For >10 To 25, Add	262.42	
			For >25 To 50, Add	186.36	
			For >50 To 100, Add	93.18	
			For >500 To 1,000, Deduct	-32.44	
			For >1,000 To 2,000, Deduct	-49.25	
			For >2,000 To 5,000, Deduct	-81.16	
			For >5,000, Deduct	-134.48	
33 01 30 72-0220	LF		31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	698.03	
			For Vinylster Resin, Add	451.79	
			For Epoxy Resin, Add	53.25	
			For Up To >10, Add	480.57	
			For >10 To 25, Add	292.90	
			For >25 To 50, Add	208.01	
			For >50 To 100, Add	104.01	
			For >500 To 1,000, Deduct	-36.22	
			For >1,000 To 2,000, Deduct	-54.98	
			For >2,000 To 5,000, Deduct	-90.60	
			For >5,000, Deduct	-150.13	
33 01 30 72-0221	LF		31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	843.74	
			For Vinylster Resin, Add	546.04	
			For Epoxy Resin, Add	64.35	
			For Up To >10, Add	581.07	
			For >10 To 25, Add	354.22	
			For >25 To 50, Add	251.53	
			For >50 To 100, Add	125.77	
			For >500 To 1,000, Deduct	-43.78	
			For >1,000 To 2,000, Deduct	-66.46	
			For >2,000 To 5,000, Deduct	-109.53	
			For >5,000, Deduct	-181.48	
33 01 30 72-0222	LF		31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	989.32	
			For Vinylster Resin, Add	640.30	
			For Epoxy Resin, Add	75.46	
			For Up To >10, Add	681.19	
			For >10 To 25, Add	415.20	
			For >25 To 50, Add	294.86	
			For >50 To 100, Add	147.43	
			For >500 To 1,000, Deduct	-51.33	
			For >1,000 To 2,000, Deduct	-77.93	
			For >2,000 To 5,000, Deduct	-128.42	
			For >5,000, Deduct	-212.79	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0223 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,135.03	
For Vinlyester Resin, Add	734.55	
For Epoxy Resin, Add	86.57	
For Up To >10, Add	781.69	
For >10 To 25, Add	476.52	
For >25 To 50, Add	338.38	
For >50 To 100, Add	169.19	
For >500 To 1,000, Deduct	-58.89	
For >1,000 To 2,000, Deduct	-89.41	
For >2,000 To 5,000, Deduct	-147.34	
For >5,000, Deduct	-244.14	
33 01 30 72-0224 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,280.60	
For Vinlyester Resin, Add	828.80	
For Epoxy Resin, Add	97.68	
For Up To >10, Add	881.80	
For >10 To 25, Add	537.50	
For >25 To 50, Add	381.70	
For >50 To 100, Add	190.85	
For >500 To 1,000, Deduct	-66.45	
For >1,000 To 2,000, Deduct	-100.88	
For >2,000 To 5,000, Deduct	-166.23	
For >5,000, Deduct	-275.44	
33 01 30 72-0225 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,426.18	
For Vinlyester Resin, Add	923.06	
For Epoxy Resin, Add	108.79	
For Up To >10, Add	981.92	
For >10 To 25, Add	598.49	
For >25 To 50, Add	425.03	
For >50 To 100, Add	212.51	
For >500 To 1,000, Deduct	-74.00	
For >1,000 To 2,000, Deduct	-112.34	
For >2,000 To 5,000, Deduct	-185.12	
For >5,000, Deduct	-306.74	
33 01 30 72-0226 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,577.87	
For Vinlyester Resin, Add	1,017.31	
For Epoxy Resin, Add	119.90	
For Up To >10, Add	1,100.36	
For >10 To 25, Add	674.75	
For >25 To 50, Add	477.52	
For >50 To 100, Add	238.76	
For >500 To 1,000, Deduct	-82.01	
For >1,000 To 2,000, Deduct	-124.57	
For >2,000 To 5,000, Deduct	-205.54	
For >5,000, Deduct	-340.49	
33 01 30 72-0227 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,735.05	
For Vinlyester Resin, Add	1,119.15	
For Epoxy Resin, Add	131.90	
For Up To >10, Add	1,208.18	
For >10 To 25, Add	740.35	
For >25 To 50, Add	524.15	
For >50 To 100, Add	262.07	
For >500 To 1,000, Deduct	-90.16	
For >1,000 To 2,000, Deduct	-136.94	
For >2,000 To 5,000, Deduct	-225.92	
For >5,000, Deduct	-374.26	
33 01 30 72-0228 LF 31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,870.16	
For Vinlyester Resin, Add	1,205.81	
For Epoxy Resin, Add	142.11	
For Up To >10, Add	1,304.01	
For >10 To 25, Add	799.57	
For >25 To 50, Add	565.87	
For >50 To 100, Add	282.94	
For >500 To 1,000, Deduct	-97.20	
For >1,000 To 2,000, Deduct	-147.64	
For >2,000 To 5,000, Deduct	-243.60	
For >5,000, Deduct	-403.55	
33 01 30 72-0229 LF 31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,016.37	
For Vinlyester Resin, Add	1,300.07	
For Epoxy Resin, Add	153.22	
For Up To >10, Add	1,406.01	
For >10 To 25, Add	862.14	
For >25 To 50, Add	610.14	
For >50 To 100, Add	305.07	
For >500 To 1,000, Deduct	-104.80	
For >1,000 To 2,000, Deduct	-159.18	
For >2,000 To 5,000, Deduct	-262.65	
For >5,000, Deduct	-435.10	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0230	LF		31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,162.47	
			For Vinylster Resin, Add	1,394.32	
			For Epoxy Resin, Add	164.33	
			For Up To >10, Add	1,507.69	
			For >10 To 25, Add	924.42	
			For >25 To 50, Add	654.25	
			For >50 To 100, Add	327.12	
			For >500 To 1,000, Deduct	-112.39	
			For >1,000 To 2,000, Deduct	-170.71	
			For >2,000 To 5,000, Deduct	-281.67	
			For >5,000, Deduct	-466.61	
33 01 30 72-0231	LF		31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,308.68	
			For Vinylster Resin, Add	1,488.58	
			For Epoxy Resin, Add	175.44	
			For Up To >10, Add	1,609.69	
			For >10 To 25, Add	986.99	
			For >25 To 50, Add	698.52	
			For >50 To 100, Add	349.26	
			For >500 To 1,000, Deduct	-119.99	
			For >1,000 To 2,000, Deduct	-182.26	
			For >2,000 To 5,000, Deduct	-300.72	
			For >5,000, Deduct	-498.16	
33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0233	LF		33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	576.66	
			For Vinylster Resin, Add	373.59	
			For Epoxy Resin, Add	44.03	
			For Up To >10, Add	395.73	
			For >10 To 25, Add	240.83	
			For >25 To 50, Add	171.18	
			For >50 To 100, Add	85.59	
			For >500 To 1,000, Deduct	-29.91	
			For >1,000 To 2,000, Deduct	-45.40	
			For >2,000 To 5,000, Deduct	-74.78	
			For >5,000, Deduct	-123.92	
33 01 30 72-0234	LF		33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	652.90	
			For Vinylster Resin, Add	422.95	
			For Epoxy Resin, Add	49.85	
			For Up To >10, Add	448.15	
			For >10 To 25, Add	272.76	
			For >25 To 50, Add	193.86	
			For >50 To 100, Add	96.93	
			For >500 To 1,000, Deduct	-33.86	
			For >1,000 To 2,000, Deduct	-51.40	
			For >2,000 To 5,000, Deduct	-84.68	
			For >5,000, Deduct	-140.32	
33 01 30 72-0235	LF		33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	729.03	
			For Vinylster Resin, Add	472.33	
			For Epoxy Resin, Add	55.67	
			For Up To >10, Add	500.22	
			For >10 To 25, Add	304.39	
			For >25 To 50, Add	216.37	
			For >50 To 100, Add	108.19	
			For >500 To 1,000, Deduct	-37.81	
			For >1,000 To 2,000, Deduct	-57.39	
			For >2,000 To 5,000, Deduct	-94.54	
			For >5,000, Deduct	-156.66	
33 01 30 72-0236	LF		33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	881.53	
			For Vinylster Resin, Add	571.07	
			For Epoxy Resin, Add	67.31	
			For Up To >10, Add	605.04	
			For >10 To 25, Add	368.23	
			For >25 To 50, Add	261.73	
			For >50 To 100, Add	130.86	
			For >500 To 1,000, Deduct	-45.72	
			For >1,000 To 2,000, Deduct	-69.40	
			For >2,000 To 5,000, Deduct	-114.33	
			For >5,000, Deduct	-189.45	
33 01 30 72-0237	LF		33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,033.90	
			For Vinylster Resin, Add	669.81	
			For Epoxy Resin, Add	78.94	
			For Up To >10, Add	709.53	
			For >10 To 25, Add	431.79	
			For >25 To 50, Add	306.92	
			For >50 To 100, Add	153.46	
			For >500 To 1,000, Deduct	-53.62	
			For >1,000 To 2,000, Deduct	-81.39	
			For >2,000 To 5,000, Deduct	-134.08	
			For >5,000, Deduct	-222.19	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0238 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,186.41	
For Vinylester Resin, Add	768.56	
For Epoxy Resin, Add	90.58	
For Up To >10, Add	814.38	
For >10 To 25, Add	495.66	
For >25 To 50, Add	352.29	
For >50 To 100, Add	176.15	
For >500 To 1,000, Deduct	-61.53	
For >1,000 To 2,000, Deduct	-93.40	
For >2,000 To 5,000, Deduct	-153.87	
For >5,000, Deduct	-254.98	
33 01 30 72-0239 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,338.77	
For Vinylester Resin, Add	867.29	
For Epoxy Resin, Add	102.22	
For Up To >10, Add	918.84	
For >10 To 25, Add	559.20	
For >25 To 50, Add	397.47	
For >50 To 100, Add	198.73	
For >500 To 1,000, Deduct	-69.43	
For >1,000 To 2,000, Deduct	-105.40	
For >2,000 To 5,000, Deduct	-173.62	
For >5,000, Deduct	-287.71	
33 01 30 72-0240 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,491.15	
For Vinylester Resin, Add	966.04	
For Epoxy Resin, Add	113.85	
For Up To >10, Add	1,023.30	
For >10 To 25, Add	622.74	
For >25 To 50, Add	442.65	
For >50 To 100, Add	221.32	
For >500 To 1,000, Deduct	-77.33	
For >1,000 To 2,000, Deduct	-117.39	
For >2,000 To 5,000, Deduct	-193.38	
For >5,000, Deduct	-320.45	
33 01 30 72-0241 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,649.74	
For Vinylester Resin, Add	1,064.78	
For Epoxy Resin, Add	125.49	
For Up To >10, Add	1,146.45	
For >10 To 25, Add	701.85	
For >25 To 50, Add	497.17	
For >50 To 100, Add	248.58	
For >500 To 1,000, Deduct	-85.70	
For >1,000 To 2,000, Deduct	-130.16	
For >2,000 To 5,000, Deduct	-214.69	
For >5,000, Deduct	-355.67	
33 01 30 72-0242 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,803.14	
For Vinylester Resin, Add	1,163.53	
For Epoxy Resin, Add	137.13	
For Up To >10, Add	1,253.97	
For >10 To 25, Add	767.95	
For >25 To 50, Add	543.88	
For >50 To 100, Add	271.94	
For >500 To 1,000, Deduct	-93.68	
For >1,000 To 2,000, Deduct	-142.28	
For >2,000 To 5,000, Deduct	-234.70	
For >5,000, Deduct	-388.82	
33 01 30 72-0243 LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,955.63	
For Vinylester Resin, Add	1,262.26	
For Epoxy Resin, Add	148.77	
For Up To >10, Add	1,358.82	
For >10 To 25, Add	831.81	
For >25 To 50, Add	589.25	
For >50 To 100, Add	294.62	
For >500 To 1,000, Deduct	-101.59	
For >1,000 To 2,000, Deduct	-154.29	
For >2,000 To 5,000, Deduct	-254.49	
For >5,000, Deduct	-421.61	
33 01 30 72-0244 LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,108.64	
For Vinylester Resin, Add	1,361.00	
For Epoxy Resin, Add	160.40	
For Up To >10, Add	1,465.20	
For >10 To 25, Add	896.95	
For >25 To 50, Add	635.38	
For >50 To 100, Add	317.69	
For >500 To 1,000, Deduct	-109.54	
For >1,000 To 2,000, Deduct	-166.37	
For >2,000 To 5,000, Deduct	-274.40	
For >5,000, Deduct	-454.60	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0245	LF	33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,261.65	
		For Vinylester Resin, Add	1,459.75	
		For Epoxy Resin, Add	172.04	
		For Up To >10, Add	1,571.58	
		For >10 To 25, Add	962.09	
		For >25 To 50, Add	681.52	
		For >50 To 100, Add	340.76	
		For >500 To 1,000, Deduct	-117.49	
		For >1,000 To 2,000, Deduct	-178.44	
		For >2,000 To 5,000, Deduct	-294.32	
		For >5,000, Deduct	-487.59	
33 01 30 72-0246	LF	33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,414.66	
		For Vinylester Resin, Add	1,558.49	
		For Epoxy Resin, Add	183.68	
		For Up To >10, Add	1,677.96	
		For >10 To 25, Add	1,027.23	
		For >25 To 50, Add	727.66	
		For >50 To 100, Add	363.83	
		For >500 To 1,000, Deduct	-125.44	
		For >1,000 To 2,000, Deduct	-190.51	
		For >2,000 To 5,000, Deduct	-314.23	
		For >5,000, Deduct	-520.58	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)				
33 01 30 72-0248	LF	34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	680.07	
		For Vinylester Resin, Add	441.17	
		For Epoxy Resin, Add	51.99	
		For Up To >10, Add	464.61	
		For >10 To 25, Add	282.14	
		For >25 To 50, Add	200.79	
		For >50 To 100, Add	100.40	
		For >500 To 1,000, Deduct	-35.25	
		For >1,000 To 2,000, Deduct	-53.50	
		For >2,000 To 5,000, Deduct	-88.09	
		For >5,000, Deduct	-145.98	
33 01 30 72-0249	LF	34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	759.64	
		For Vinylester Resin, Add	492.78	
		For Epoxy Resin, Add	58.08	
		For Up To >10, Add	519.00	
		For >10 To 25, Add	315.17	
		For >25 To 50, Add	224.30	
		For >50 To 100, Add	112.15	
		For >500 To 1,000, Deduct	-39.37	
		For >1,000 To 2,000, Deduct	-59.76	
		For >2,000 To 5,000, Deduct	-98.39	
		For >5,000, Deduct	-163.06	
33 01 30 72-0250	LF	34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	918.82	
		For Vinylester Resin, Add	596.02	
		For Epoxy Resin, Add	70.24	
		For Up To >10, Add	627.84	
		For >10 To 25, Add	381.29	
		For >25 To 50, Add	271.35	
		For >50 To 100, Add	135.67	
		For >500 To 1,000, Deduct	-47.63	
		For >1,000 To 2,000, Deduct	-72.28	
		For >2,000 To 5,000, Deduct	-119.02	
		For >5,000, Deduct	-197.24	
33 01 30 72-0251	LF	34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,077.85	
		For Vinylester Resin, Add	699.24	
		For Epoxy Resin, Add	82.41	
		For Up To >10, Add	736.25	
		For >10 To 25, Add	447.06	
		For >25 To 50, Add	318.18	
		For >50 To 100, Add	159.09	
		For >500 To 1,000, Deduct	-55.87	
		For >1,000 To 2,000, Deduct	-84.79	
		For >2,000 To 5,000, Deduct	-139.60	
		For >5,000, Deduct	-231.36	
33 01 30 72-0252	LF	34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,237.02	
		For Vinylester Resin, Add	802.47	
		For Epoxy Resin, Add	94.58	
		For Up To >10, Add	845.09	
		For >10 To 25, Add	513.17	
		For >25 To 50, Add	365.22	
		For >50 To 100, Add	182.61	
		For >500 To 1,000, Deduct	-64.12	
		For >1,000 To 2,000, Deduct	-97.31	
		For >2,000 To 5,000, Deduct	-160.22	
		For >5,000, Deduct	-265.53	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0253	LF		34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,396.05	
			For Vinylster Resin, Add	905.70	
			For Epoxy Resin, Add	106.74	
			For Up To >10, Add	953.50	
			For >10 To 25, Add	578.94	
			For >25 To 50, Add	412.06	
			For >50 To 100, Add	206.03	
			For >500 To 1,000, Deduct	-72.36	
			For >1,000 To 2,000, Deduct	-109.81	
			For >2,000 To 5,000, Deduct	-180.81	
			For >5,000, Deduct	-299.65	
33 01 30 72-0254	LF		34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,555.21	
			For Vinylster Resin, Add	1,008.93	
			For Epoxy Resin, Add	118.91	
			For Up To >10, Add	1,062.31	
			For >10 To 25, Add	645.03	
			For >25 To 50, Add	459.09	
			For >50 To 100, Add	229.54	
			For >500 To 1,000, Deduct	-80.61	
			For >1,000 To 2,000, Deduct	-122.33	
			For >2,000 To 5,000, Deduct	-201.43	
			For >5,000, Deduct	-333.82	
33 01 30 72-0255	LF		34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,720.61	
			For Vinylster Resin, Add	1,112.16	
			For Epoxy Resin, Add	131.08	
			For Up To >10, Add	1,189.83	
			For >10 To 25, Add	726.73	
			For >25 To 50, Add	515.48	
			For >50 To 100, Add	257.74	
			For >500 To 1,000, Deduct	-89.33	
			For >1,000 To 2,000, Deduct	-135.64	
			For >2,000 To 5,000, Deduct	-223.61	
			For >5,000, Deduct	-370.48	
33 01 30 72-0256	LF		34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,880.54	
			For Vinylster Resin, Add	1,215.39	
			For Epoxy Resin, Add	143.24	
			For Up To >10, Add	1,300.95	
			For >10 To 25, Add	794.74	
			For >25 To 50, Add	563.66	
			For >50 To 100, Add	281.83	
			For >500 To 1,000, Deduct	-97.63	
			For >1,000 To 2,000, Deduct	-148.25	
			For >2,000 To 5,000, Deduct	-244.42	
			For >5,000, Deduct	-404.96	
33 01 30 72-0257	LF		34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,037.93	
			For Vinylster Resin, Add	1,318.63	
			For Epoxy Resin, Add	155.41	
			For Up To >10, Add	1,404.42	
			For >10 To 25, Add	856.39	
			For >25 To 50, Add	608.02	
			For >50 To 100, Add	304.01	
			For >500 To 1,000, Deduct	-105.75	
			For >1,000 To 2,000, Deduct	-160.55	
			For >2,000 To 5,000, Deduct	-264.60	
			For >5,000, Deduct	-438.42	
33 01 30 72-0258	LF		34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,199.76	
			For Vinylster Resin, Add	1,421.85	
			For Epoxy Resin, Add	167.58	
			For Up To >10, Add	1,521.23	
			For >10 To 25, Add	929.16	
			For >25 To 50, Add	659.05	
			For >50 To 100, Add	329.53	
			For >500 To 1,000, Deduct	-114.20	
			For >1,000 To 2,000, Deduct	-173.41	
			For >2,000 To 5,000, Deduct	-285.88	
			For >5,000, Deduct	-473.66	
33 01 30 72-0259	LF		34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,359.44	
			For Vinylster Resin, Add	1,525.08	
			For Epoxy Resin, Add	179.74	
			For Up To >10, Add	1,631.60	
			For >10 To 25, Add	996.55	
			For >25 To 50, Add	706.86	
			For >50 To 100, Add	353.43	
			For >500 To 1,000, Deduct	-122.49	
			For >1,000 To 2,000, Deduct	-186.00	
			For >2,000 To 5,000, Deduct	-306.63	
			For >5,000, Deduct	-508.04	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0260	LF	34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,519.10	
		For Vinylster Resin, Add	1,628.31	
		For Epoxy Resin, Add	191.91	
		For Up To >10, Add	1,741.90	
		For >10 To 25, Add	1,063.89	
		For >25 To 50, Add	754.64	
		For >50 To 100, Add	377.32	
		For >500 To 1,000, Deduct	-130.78	
		For >1,000 To 2,000, Deduct	-198.58	
		For >2,000 To 5,000, Deduct	-327.37	
		For >5,000, Deduct	-542.41	
33 01 30 72-0261		36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	707.10	
33 01 30 72-0262	LF	36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	790.10	
		For Vinylster Resin, Add	459.29	
		For Epoxy Resin, Add	54.13	
		For Up To >10, Add	480.98	
		For >10 To 25, Add	291.46	
		For >25 To 50, Add	207.68	
		For >50 To 100, Add	103.84	
		For >500 To 1,000, Deduct	-36.63	
		For >1,000 To 2,000, Deduct	-55.58	
		For >2,000 To 5,000, Deduct	-91.48	
		For >5,000, Deduct	-151.61	
33 01 30 72-0263	LF	36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	790.00	
		For Vinylster Resin, Add	513.14	
		For Epoxy Resin, Add	60.48	
		For Up To >10, Add	537.35	
		For >10 To 25, Add	325.62	
		For >25 To 50, Add	232.02	
		For >50 To 100, Add	116.01	
		For >500 To 1,000, Deduct	-40.92	
		For >1,000 To 2,000, Deduct	-62.10	
		For >2,000 To 5,000, Deduct	-102.20	
		For >5,000, Deduct	-169.39	
33 01 30 72-0264	LF	36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	955.84	
		For Vinylster Resin, Add	620.87	
		For Epoxy Resin, Add	73.17	
		For Up To >10, Add	650.15	
		For >10 To 25, Add	393.96	
		For >25 To 50, Add	280.73	
		For >50 To 100, Add	140.36	
		For >500 To 1,000, Deduct	-49.51	
		For >1,000 To 2,000, Deduct	-75.13	
		For >2,000 To 5,000, Deduct	-123.66	
		For >5,000, Deduct	-204.95	
33 01 30 72-0265	LF	36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,121.67	
		For Vinylster Resin, Add	728.59	
		For Epoxy Resin, Add	85.87	
		For Up To >10, Add	762.91	
		For >10 To 25, Add	462.29	
		For >25 To 50, Add	329.41	
		For >50 To 100, Add	164.71	
		For >500 To 1,000, Deduct	-58.10	
		For >1,000 To 2,000, Deduct	-88.17	
		For >2,000 To 5,000, Deduct	-145.11	
		For >5,000, Deduct	-240.50	
33 01 30 72-0266	LF	36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,287.38	
		For Vinylster Resin, Add	836.30	
		For Epoxy Resin, Add	98.56	
		For Up To >10, Add	875.34	
		For >10 To 25, Add	530.33	
		For >25 To 50, Add	377.93	
		For >50 To 100, Add	188.97	
		For >500 To 1,000, Deduct	-66.69	
		For >1,000 To 2,000, Deduct	-101.19	
		For >2,000 To 5,000, Deduct	-166.53	
		For >5,000, Deduct	-276.01	
33 01 30 72-0267	LF	36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,453.21	
		For Vinylster Resin, Add	944.02	
		For Epoxy Resin, Add	111.26	
		For Up To >10, Add	988.13	
		For >10 To 25, Add	598.68	
		For >25 To 50, Add	426.64	
		For >50 To 100, Add	213.32	
		For >500 To 1,000, Deduct	-75.28	
		For >1,000 To 2,000, Deduct	-114.22	
		For >2,000 To 5,000, Deduct	-187.98	
		For >5,000, Deduct	-311.56	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0268 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,619.04	
For Vinylester Resin, Add	1,051.74	
For Epoxy Resin, Add	123.95	
For Up To >10, Add	1,100.92	
For >10 To 25, Add	667.02	
For >25 To 50, Add	475.34	
For >50 To 100, Add	237.67	
For >500 To 1,000, Deduct	-83.87	
For >1,000 To 2,000, Deduct	-127.26	
For >2,000 To 5,000, Deduct	-209.44	
For >5,000, Deduct	-347.12	
33 01 30 72-0269 LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,791.35	
For Vinylester Resin, Add	1,159.46	
For Epoxy Resin, Add	136.65	
For Up To >10, Add	1,233.13	
For >10 To 25, Add	751.54	
For >25 To 50, Add	533.74	
For >50 To 100, Add	266.87	
For >500 To 1,000, Deduct	-92.94	
For >1,000 To 2,000, Deduct	-141.10	
For >2,000 To 5,000, Deduct	-232.51	
For >5,000, Deduct	-385.27	
33 01 30 72-0270 LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,957.82	
For Vinylester Resin, Add	1,267.18	
For Epoxy Resin, Add	149.35	
For Up To >10, Add	1,347.84	
For >10 To 25, Add	821.49	
For >25 To 50, Add	583.41	
For >50 To 100, Add	291.70	
For >500 To 1,000, Deduct	-101.58	
For >1,000 To 2,000, Deduct	-154.22	
For >2,000 To 5,000, Deduct	-254.12	
For >5,000, Deduct	-421.08	
33 01 30 72-0271 LF 36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,119.96	
For Vinylester Resin, Add	1,374.89	
For Epoxy Resin, Add	162.04	
For Up To >10, Add	1,449.56	
For >10 To 25, Add	880.61	
For >25 To 50, Add	626.57	
For >50 To 100, Add	313.29	
For >500 To 1,000, Deduct	-109.89	
For >1,000 To 2,000, Deduct	-166.79	
For >2,000 To 5,000, Deduct	-274.65	
For >5,000, Deduct	-455.16	
33 01 30 72-0272 LF 36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,290.63	
For Vinylester Resin, Add	1,482.61	
For Epoxy Resin, Add	174.74	
For Up To >10, Add	1,576.84	
For >10 To 25, Add	961.03	
For >25 To 50, Add	682.52	
For >50 To 100, Add	341.26	
For >500 To 1,000, Deduct	-118.85	
For >1,000 To 2,000, Deduct	-180.43	
For >2,000 To 5,000, Deduct	-297.31	
For >5,000, Deduct	-492.65	
33 01 30 72-0273 LF 36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,457.10	
For Vinylester Resin, Add	1,590.33	
For Epoxy Resin, Add	187.43	
For Up To >10, Add	1,691.55	
For >10 To 25, Add	1,030.98	
For >25 To 50, Add	732.18	
For >50 To 100, Add	366.09	
For >500 To 1,000, Deduct	-127.49	
For >1,000 To 2,000, Deduct	-193.54	
For >2,000 To 5,000, Deduct	-318.93	
For >5,000, Deduct	-528.46	
33 01 30 72-0274 LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,623.55	
For Vinylester Resin, Add	1,698.05	
For Epoxy Resin, Add	200.13	
For Up To >10, Add	1,806.20	
For >10 To 25, Add	1,100.87	
For >25 To 50, Add	781.81	
For >50 To 100, Add	390.91	
For >500 To 1,000, Deduct	-136.12	
For >1,000 To 2,000, Deduct	-206.65	
For >2,000 To 5,000, Deduct	-340.54	
For >5,000, Deduct	-564.26	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0275	LF		36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,789.90	
			For Vinlyester Resin, Add	1,805.77	
			For Epoxy Resin, Add	212.82	
			For Up To >10, Add	1,920.53	
			For >10 To 25, Add	1,170.49	
			For >25 To 50, Add	831.28	
			For >50 To 100, Add	415.64	
			For >500 To 1,000, Deduct	-144.75	
			For >1,000 To 2,000, Deduct	-219.75	
			For >2,000 To 5,000, Deduct	-362.12	
			For >5,000, Deduct	-600.03	
33 01 30 72-0276	LF		36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,956.36	
			For Vinlyester Resin, Add	1,913.49	
			For Epoxy Resin, Add	225.52	
			For Up To >10, Add	2,035.21	
			For >10 To 25, Add	1,240.41	
			For >25 To 50, Add	880.93	
			For >50 To 100, Add	440.46	
			For >500 To 1,000, Deduct	-153.39	
			For >1,000 To 2,000, Deduct	-232.87	
			For >2,000 To 5,000, Deduct	-383.73	
			For >5,000, Deduct	-635.83	
33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0278	LF		37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	820.12	
			For Vinlyester Resin, Add	533.42	
			For Epoxy Resin, Add	62.87	
			For Up To >10, Add	555.29	
			For >10 To 25, Add	335.73	
			For >25 To 50, Add	239.54	
			For >50 To 100, Add	119.77	
			For >500 To 1,000, Deduct	-42.46	
			For >1,000 To 2,000, Deduct	-64.41	
			For >2,000 To 5,000, Deduct	-105.97	
			For >5,000, Deduct	-175.64	
33 01 30 72-0279	LF		37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	992.62	
			For Vinlyester Resin, Add	645.63	
			For Epoxy Resin, Add	76.09	
			For Up To >10, Add	672.04	
			For >10 To 25, Add	406.31	
			For >25 To 50, Add	289.90	
			For >50 To 100, Add	144.95	
			For >500 To 1,000, Deduct	-51.39	
			For >1,000 To 2,000, Deduct	-77.96	
			For >2,000 To 5,000, Deduct	-128.25	
			For >5,000, Deduct	-212.58	
33 01 30 72-0280	LF		37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,165.11	
			For Vinlyester Resin, Add	757.83	
			For Epoxy Resin, Add	89.32	
			For Up To >10, Add	788.78	
			For >10 To 25, Add	476.88	
			For >25 To 50, Add	340.26	
			For >50 To 100, Add	170.13	
			For >500 To 1,000, Deduct	-60.32	
			For >1,000 To 2,000, Deduct	-91.51	
			For >2,000 To 5,000, Deduct	-150.54	
			For >5,000, Deduct	-249.52	
33 01 30 72-0281	LF		37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,337.61	
			For Vinlyester Resin, Add	870.04	
			For Epoxy Resin, Add	102.54	
			For Up To >10, Add	905.53	
			For >10 To 25, Add	547.46	
			For >25 To 50, Add	390.62	
			For >50 To 100, Add	195.31	
			For >500 To 1,000, Deduct	-69.25	
			For >1,000 To 2,000, Deduct	-105.06	
			For >2,000 To 5,000, Deduct	-172.82	
			For >5,000, Deduct	-286.46	
33 01 30 72-0282	LF		37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,510.12	
			For Vinlyester Resin, Add	982.25	
			For Epoxy Resin, Add	115.77	
			For Up To >10, Add	1,022.31	
			For >10 To 25, Add	618.06	
			For >25 To 50, Add	440.99	
			For >50 To 100, Add	220.50	
			For >500 To 1,000, Deduct	-78.18	
			For >1,000 To 2,000, Deduct	-118.60	
			For >2,000 To 5,000, Deduct	-195.11	
			For >5,000, Deduct	-323.40	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0283 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,682.61	
For Vinylster Resin, Add	1,094.46	
For Epoxy Resin, Add	128.99	
For Up To >10, Add	1,139.06	
For >10 To 25, Add	688.63	
For >25 To 50, Add	491.35	
For >50 To 100, Add	245.68	
For >500 To 1,000, Deduct	-87.11	
For >1,000 To 2,000, Deduct	-132.15	
For >2,000 To 5,000, Deduct	-217.40	
For >5,000, Deduct	-360.34	
33 01 30 72-0284 LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,861.71	
For Vinylster Resin, Add	1,206.66	
For Epoxy Resin, Add	142.21	
For Up To >10, Add	1,275.63	
For >10 To 25, Add	775.73	
For >25 To 50, Add	551.63	
For >50 To 100, Add	275.81	
For >500 To 1,000, Deduct	-96.53	
For >1,000 To 2,000, Deduct	-146.52	
For >2,000 To 5,000, Deduct	-241.33	
For >5,000, Deduct	-399.92	
33 01 30 72-0285 LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,034.85	
For Vinylster Resin, Add	1,318.87	
For Epoxy Resin, Add	155.44	
For Up To >10, Add	1,394.30	
For >10 To 25, Add	847.90	
For >25 To 50, Add	602.95	
For >50 To 100, Add	301.47	
For >500 To 1,000, Deduct	-105.51	
For >1,000 To 2,000, Deduct	-160.15	
For >2,000 To 5,000, Deduct	-263.78	
For >5,000, Deduct	-437.12	
33 01 30 72-0286 LF 37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,205.81	
For Vinylster Resin, Add	1,431.07	
For Epoxy Resin, Add	168.66	
For Up To >10, Add	1,506.46	
For >10 To 25, Add	914.65	
For >25 To 50, Add	651.01	
For >50 To 100, Add	325.50	
For >500 To 1,000, Deduct	-114.33	
For >1,000 To 2,000, Deduct	-173.51	
For >2,000 To 5,000, Deduct	-285.68	
For >5,000, Deduct	-473.45	
33 01 30 72-0287 LF 37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,381.12	
For Vinylster Resin, Add	1,543.28	
For Epoxy Resin, Add	181.89	
For Up To >10, Add	1,631.64	
For >10 To 25, Add	992.25	
For >25 To 50, Add	705.58	
For >50 To 100, Add	352.79	
For >500 To 1,000, Deduct	-123.47	
For >1,000 To 2,000, Deduct	-187.41	
For >2,000 To 5,000, Deduct	-308.67	
For >5,000, Deduct	-511.51	
33 01 30 72-0288 LF 37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,554.25	
For Vinylster Resin, Add	1,655.49	
For Epoxy Resin, Add	195.11	
For Up To >10, Add	1,750.28	
For >10 To 25, Add	1,064.40	
For >25 To 50, Add	756.89	
For >50 To 100, Add	378.44	
For >500 To 1,000, Deduct	-132.44	
For >1,000 To 2,000, Deduct	-201.03	
For >2,000 To 5,000, Deduct	-331.11	
For >5,000, Deduct	-548.70	
33 01 30 72-0289 LF 37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,727.25	
For Vinylster Resin, Add	1,767.70	
For Epoxy Resin, Add	208.34	
For Up To >10, Add	1,868.55	
For >10 To 25, Add	1,136.25	
For >25 To 50, Add	808.01	
For >50 To 100, Add	404.01	
For >500 To 1,000, Deduct	-141.41	
For >1,000 To 2,000, Deduct	-214.64	
For >2,000 To 5,000, Deduct	-353.53	
For >5,000, Deduct	-585.84	



		Utilities	33	33
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0290	LF		37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,900.39	
			For Vinlyester Resin, Add	1,879.91	
			For Epoxy Resin, Add	221.56	
			For Up To >10, Add	1,987.22	
			For >10 To 25, Add	1,208.42	
			For >25 To 50, Add	859.33	
			For >50 To 100, Add	429.67	
			For >500 To 1,000, Deduct	-150.39	
			For >1,000 To 2,000, Deduct	-228.27	
			For >2,000 To 5,000, Deduct	-375.97	
			For >5,000, Deduct	-623.04	
33 01 30 72-0291	LF		37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,073.52	
			For Vinlyester Resin, Add	1,992.11	
			For Epoxy Resin, Add	234.78	
			For Up To >10, Add	2,105.89	
			For >10 To 25, Add	1,280.59	
			For >25 To 50, Add	910.65	
			For >50 To 100, Add	455.32	
			For >500 To 1,000, Deduct	-159.37	
			For >1,000 To 2,000, Deduct	-241.90	
			For >2,000 To 5,000, Deduct	-398.42	
			For >5,000, Deduct	-660.23	
33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0293	LF		39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,029.27	
			For Vinlyester Resin, Add	670.31	
			For Epoxy Resin, Add	79.00	
			For Up To >10, Add	693.86	
			For >10 To 25, Add	418.62	
			For >25 To 50, Add	299.05	
			For >50 To 100, Add	149.53	
			For >500 To 1,000, Deduct	-53.26	
			For >1,000 To 2,000, Deduct	-80.78	
			For >2,000 To 5,000, Deduct	-132.83	
			For >5,000, Deduct	-220.19	
33 01 30 72-0294	LF		39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,208.43	
			For Vinlyester Resin, Add	787.00	
			For Epoxy Resin, Add	92.75	
			For Up To >10, Add	814.57	
			For >10 To 25, Add	491.42	
			For >25 To 50, Add	351.07	
			For >50 To 100, Add	175.53	
			For >500 To 1,000, Deduct	-62.53	
			For >1,000 To 2,000, Deduct	-94.84	
			For >2,000 To 5,000, Deduct	-155.95	
			For >5,000, Deduct	-258.51	
33 01 30 72-0295	LF		39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,387.60	
			For Vinlyester Resin, Add	903.70	
			For Epoxy Resin, Add	106.51	
			For Up To >10, Add	935.30	
			For >10 To 25, Add	564.25	
			For >25 To 50, Add	403.10	
			For >50 To 100, Add	201.55	
			For >500 To 1,000, Deduct	-71.80	
			For >1,000 To 2,000, Deduct	-108.90	
			For >2,000 To 5,000, Deduct	-179.07	
			For >5,000, Deduct	-296.84	
33 01 30 72-0296	LF		39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,566.76	
			For Vinlyester Resin, Add	1,020.39	
			For Epoxy Resin, Add	120.26	
			For Up To >10, Add	1,056.03	
			For >10 To 25, Add	637.08	
			For >25 To 50, Add	455.13	
			For >50 To 100, Add	227.57	
			For >500 To 1,000, Deduct	-81.06	
			For >1,000 To 2,000, Deduct	-122.96	
			For >2,000 To 5,000, Deduct	-202.19	
			For >5,000, Deduct	-335.16	
33 01 30 72-0297	LF		39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,746.05	
			For Vinlyester Resin, Add	1,137.09	
			For Epoxy Resin, Add	134.01	
			For Up To >10, Add	1,177.13	
			For >10 To 25, Add	710.20	
			For >25 To 50, Add	507.34	
			For >50 To 100, Add	253.67	
			For >500 To 1,000, Deduct	-90.34	
			For >1,000 To 2,000, Deduct	-137.04	
			For >2,000 To 5,000, Deduct	-225.34	
			For >5,000, Deduct	-373.54	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0298	LF		39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,931.83	
			For Vinylester Resin, Add	1,253.78	
			For Epoxy Resin, Add	147.77	
			For Up To >10, Add	1,317.69	
			For >10 To 25, Add	799.56	
			For >25 To 50, Add	569.29	
			For >50 To 100, Add	284.64	
			For >500 To 1,000, Deduct	-100.11	
			For >1,000 To 2,000, Deduct	-151.92	
			For >2,000 To 5,000, Deduct	-250.11	
			For >5,000, Deduct	-414.51	
33 01 30 72-0299	LF		39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,111.62	
			For Vinylester Resin, Add	1,370.47	
			For Epoxy Resin, Add	161.52	
			For Up To >10, Add	1,440.31	
			For >10 To 25, Add	873.96	
			For >25 To 50, Add	622.26	
			For >50 To 100, Add	311.13	
			For >500 To 1,000, Deduct	-109.43	
			For >1,000 To 2,000, Deduct	-166.06	
			For >2,000 To 5,000, Deduct	-273.39	
			For >5,000, Deduct	-453.08	
33 01 30 72-0300	LF		39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,291.42	
			For Vinylester Resin, Add	1,487.17	
			For Epoxy Resin, Add	175.27	
			For Up To >10, Add	1,562.94	
			For >10 To 25, Add	948.36	
			For >25 To 50, Add	675.24	
			For >50 To 100, Add	337.62	
			For >500 To 1,000, Deduct	-118.74	
			For >1,000 To 2,000, Deduct	-180.20	
			For >2,000 To 5,000, Deduct	-296.67	
			For >5,000, Deduct	-491.66	
33 01 30 72-0301	LF		39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,471.35	
			For Vinylester Resin, Add	1,603.87	
			For Epoxy Resin, Add	189.03	
			For Up To >10, Add	1,685.95	
			For >10 To 25, Add	1,023.09	
			For >25 To 50, Add	728.41	
			For >50 To 100, Add	364.21	
			For >500 To 1,000, Deduct	-128.07	
			For >1,000 To 2,000, Deduct	-194.36	
			For >2,000 To 5,000, Deduct	-319.98	
			For >5,000, Deduct	-530.29	
33 01 30 72-0302	LF		39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,651.14	
			For Vinylester Resin, Add	1,720.56	
			For Epoxy Resin, Add	202.78	
			For Up To >10, Add	1,808.57	
			For >10 To 25, Add	1,097.49	
			For >25 To 50, Add	781.39	
			For >50 To 100, Add	390.69	
			For >500 To 1,000, Deduct	-137.39	
			For >1,000 To 2,000, Deduct	-208.50	
			For >2,000 To 5,000, Deduct	-343.25	
			For >5,000, Deduct	-568.87	
33 01 30 72-0303	LF		39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,830.94	
			For Vinylester Resin, Add	1,837.26	
			For Epoxy Resin, Add	216.53	
			For Up To >10, Add	1,931.20	
			For >10 To 25, Add	1,171.89	
			For >25 To 50, Add	834.37	
			For >50 To 100, Add	417.18	
			For >500 To 1,000, Deduct	-146.70	
			For >1,000 To 2,000, Deduct	-222.64	
			For >2,000 To 5,000, Deduct	-366.53	
			For >5,000, Deduct	-607.45	
33 01 30 72-0304	LF		39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,010.74	
			For Vinylester Resin, Add	1,953.95	
			For Epoxy Resin, Add	230.29	
			For Up To >10, Add	2,053.82	
			For >10 To 25, Add	1,246.29	
			For >25 To 50, Add	887.34	
			For >50 To 100, Add	443.67	
			For >500 To 1,000, Deduct	-156.02	
			For >1,000 To 2,000, Deduct	-236.77	
			For >2,000 To 5,000, Deduct	-389.81	
			For >5,000, Deduct	-646.02	



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		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0305	LF		39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,190.54	
			For Vinlyester Resin, Add	2,070.64	
			For Epoxy Resin, Add	244.04	
			For Up To >10, Add	2,176.47	
			For >10 To 25, Add	1,320.72	
			For >25 To 50, Add	940.33	
			For >50 To 100, Add	470.17	
			For >500 To 1,000, Deduct	-165.34	
			For >1,000 To 2,000, Deduct	-250.91	
			For >2,000 To 5,000, Deduct	-413.09	
			For >5,000, Deduct	-684.60	
33 01 30 72-0306	LF		39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,370.34	
			For Vinlyester Resin, Add	2,187.34	
			For Epoxy Resin, Add	257.79	
			For Up To >10, Add	2,299.10	
			For >10 To 25, Add	1,395.12	
			For >25 To 50, Add	993.31	
			For >50 To 100, Add	496.65	
			For >500 To 1,000, Deduct	-174.66	
			For >1,000 To 2,000, Deduct	-265.05	
			For >2,000 To 5,000, Deduct	-436.36	
			For >5,000, Deduct	-723.18	
33 01 30 72-0307	LF		39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,550.14	
			For Vinlyester Resin, Add	2,304.04	
			For Epoxy Resin, Add	271.55	
			For Up To >10, Add	2,421.72	
			For >10 To 25, Add	1,469.52	
			For >25 To 50, Add	1,046.29	
			For >50 To 100, Add	523.14	
			For >500 To 1,000, Deduct	-183.97	
			For >1,000 To 2,000, Deduct	-279.19	
			For >2,000 To 5,000, Deduct	-459.64	
			For >5,000, Deduct	-761.76	
33 01 30 72-0308			40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0309	LF		40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,251.50	
			For Vinlyester Resin, Add	816.08	
			For Epoxy Resin, Add	96.18	
			For Up To >10, Add	839.93	
			For >10 To 25, Add	505.63	
			For >25 To 50, Add	361.67	
			For >50 To 100, Add	180.84	
			For >500 To 1,000, Deduct	-64.72	
			For >1,000 To 2,000, Deduct	-98.15	
			For >2,000 To 5,000, Deduct	-161.32	
			For >5,000, Deduct	-267.43	
33 01 30 72-0310	LF		40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,437.32	
			For Vinlyester Resin, Add	937.26	
			For Epoxy Resin, Add	110.46	
			For Up To >10, Add	964.61	
			For >10 To 25, Add	580.69	
			For >25 To 50, Add	415.36	
			For >50 To 100, Add	207.68	
			For >500 To 1,000, Deduct	-74.33	
			For >1,000 To 2,000, Deduct	-112.72	
			For >2,000 To 5,000, Deduct	-185.27	
			For >5,000, Deduct	-307.14	
33 01 30 72-0311	LF		40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,623.15	
			For Vinlyester Resin, Add	1,058.44	
			For Epoxy Resin, Add	124.74	
			For Up To >10, Add	1,089.30	
			For >10 To 25, Add	655.74	
			For >25 To 50, Add	469.05	
			For >50 To 100, Add	234.52	
			For >500 To 1,000, Deduct	-83.93	
			For >1,000 To 2,000, Deduct	-127.29	
			For >2,000 To 5,000, Deduct	-209.22	
			For >5,000, Deduct	-346.85	
33 01 30 72-0312	LF		40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,808.98	
			For Vinlyester Resin, Add	1,179.63	
			For Epoxy Resin, Add	139.03	
			For Up To >10, Add	1,213.99	
			For >10 To 25, Add	730.80	
			For >25 To 50, Add	522.74	
			For >50 To 100, Add	261.37	
			For >500 To 1,000, Deduct	-93.54	
			For >1,000 To 2,000, Deduct	-141.86	
			For >2,000 To 5,000, Deduct	-233.17	
			For >5,000, Deduct	-386.56	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0313	LF		40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,001.68	
			For Vinlyester Resin, Add	1,300.81	
			For Epoxy Resin, Add	153.31	
			For Up To >10, Add	1,359.29	
			For >10 To 25, Add	823.03	
			For >25 To 50, Add	586.73	
			For >50 To 100, Add	293.37	
			For >500 To 1,000, Deduct	-103.67	
			For >1,000 To 2,000, Deduct	-157.30	
			For >2,000 To 5,000, Deduct	-258.84	
			For >5,000, Deduct	-429.01	
33 01 30 72-0314	LF		40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,188.14	
			For Vinlyester Resin, Add	1,421.99	
			For Epoxy Resin, Add	167.59	
			For Up To >10, Add	1,485.87	
			For >10 To 25, Add	899.66	
			For >25 To 50, Add	641.36	
			For >50 To 100, Add	320.68	
			For >500 To 1,000, Deduct	-113.33	
			For >1,000 To 2,000, Deduct	-171.95	
			For >2,000 To 5,000, Deduct	-282.95	
			For >5,000, Deduct	-468.97	
33 01 30 72-0315	LF		40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,374.60	
			For Vinlyester Resin, Add	1,543.18	
			For Epoxy Resin, Add	181.87	
			For Up To >10, Add	1,612.45	
			For >10 To 25, Add	976.29	
			For >25 To 50, Add	696.00	
			For >50 To 100, Add	348.00	
			For >500 To 1,000, Deduct	-122.98	
			For >1,000 To 2,000, Deduct	-186.60	
			For >2,000 To 5,000, Deduct	-307.06	
			For >5,000, Deduct	-508.93	
33 01 30 72-0316	LF		40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,561.07	
			For Vinlyester Resin, Add	1,664.36	
			For Epoxy Resin, Add	196.16	
			For Up To >10, Add	1,739.06	
			For >10 To 25, Add	1,052.94	
			For >25 To 50, Add	750.65	
			For >50 To 100, Add	375.32	
			For >500 To 1,000, Deduct	-132.64	
			For >1,000 To 2,000, Deduct	-201.25	
			For >2,000 To 5,000, Deduct	-331.17	
			For >5,000, Deduct	-548.90	
33 01 30 72-0317	LF		40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,747.54	
			For Vinlyester Resin, Add	1,785.55	
			For Epoxy Resin, Add	210.44	
			For Up To >10, Add	1,865.67	
			For >10 To 25, Add	1,129.60	
			For >25 To 50, Add	805.30	
			For >50 To 100, Add	402.65	
			For >500 To 1,000, Deduct	-142.30	
			For >1,000 To 2,000, Deduct	-215.90	
			For >2,000 To 5,000, Deduct	-355.28	
			For >5,000, Deduct	-588.86	
33 01 30 72-0318	LF		40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,934.01	
			For Vinlyester Resin, Add	1,906.73	
			For Epoxy Resin, Add	224.72	
			For Up To >10, Add	1,992.28	
			For >10 To 25, Add	1,206.25	
			For >25 To 50, Add	859.95	
			For >50 To 100, Add	429.97	
			For >500 To 1,000, Deduct	-151.95	
			For >1,000 To 2,000, Deduct	-230.56	
			For >2,000 To 5,000, Deduct	-379.40	
			For >5,000, Deduct	-628.82	
33 01 30 72-0319	LF		40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,120.46	
			For Vinlyester Resin, Add	2,027.91	
			For Epoxy Resin, Add	239.00	
			For Up To >10, Add	2,118.86	
			For >10 To 25, Add	1,282.88	
			For >25 To 50, Add	914.58	
			For >50 To 100, Add	457.29	
			For >500 To 1,000, Deduct	-161.61	
			For >1,000 To 2,000, Deduct	-245.21	
			For >2,000 To 5,000, Deduct	-403.50	
			For >5,000, Deduct	-668.78	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0320	LF		40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,306.93	
			For Vinlyester Resin, Add	2,149.09	
			For Epoxy Resin, Add	253.29	
			For Up To >10, Add	2,245.47	
			For >10 To 25, Add	1,359.53	
			For >25 To 50, Add	969.23	
			For >50 To 100, Add	484.61	
			For >500 To 1,000, Deduct	-171.27	
			For >1,000 To 2,000, Deduct	-259.86	
			For >2,000 To 5,000, Deduct	-427.62	
			For >5,000, Deduct	-708.75	
33 01 30 72-0321	LF		40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,493.39	
			For Vinlyester Resin, Add	2,270.28	
			For Epoxy Resin, Add	267.57	
			For Up To >10, Add	2,372.05	
			For >10 To 25, Add	1,436.16	
			For >25 To 50, Add	1,023.86	
			For >50 To 100, Add	511.93	
			For >500 To 1,000, Deduct	-180.92	
			For >1,000 To 2,000, Deduct	-274.51	
			For >2,000 To 5,000, Deduct	-451.73	
			For >5,000, Deduct	-748.71	
33 01 30 72-0322	LF		40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,679.86	
			For Vinlyester Resin, Add	2,391.46	
			For Epoxy Resin, Add	281.85	
			For Up To >10, Add	2,498.66	
			For >10 To 25, Add	1,512.82	
			For >25 To 50, Add	1,078.51	
			For >50 To 100, Add	539.25	
			For >500 To 1,000, Deduct	-190.58	
			For >1,000 To 2,000, Deduct	-289.16	
			For >2,000 To 5,000, Deduct	-475.84	
			For >5,000, Deduct	-788.67	
33 01 30 72-0323			42mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0324	LF		42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,486.80	
			For Vinlyester Resin, Add	970.74	
			For Epoxy Resin, Add	114.41	
			For Up To >10, Add	993.48	
			For >10 To 25, Add	596.77	
			For >25 To 50, Add	427.40	
			For >50 To 100, Add	213.70	
			For >500 To 1,000, Deduct	-76.84	
			For >1,000 To 2,000, Deduct	-116.51	
			For >2,000 To 5,000, Deduct	-191.42	
			For >5,000, Deduct	-317.37	
33 01 30 72-0325	LF		42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,679.29	
			For Vinlyester Resin, Add	1,096.41	
			For Epoxy Resin, Add	129.22	
			For Up To >10, Add	1,122.12	
			For >10 To 25, Add	674.05	
			For >25 To 50, Add	482.75	
			For >50 To 100, Add	241.37	
			For >500 To 1,000, Deduct	-86.79	
			For >1,000 To 2,000, Deduct	-131.60	
			For >2,000 To 5,000, Deduct	-216.20	
			For >5,000, Deduct	-358.46	
33 01 30 72-0326	LF		42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,871.79	
			For Vinlyester Resin, Add	1,222.08	
			For Epoxy Resin, Add	144.03	
			For Up To >10, Add	1,250.80	
			For >10 To 25, Add	751.36	
			For >25 To 50, Add	538.11	
			For >50 To 100, Add	269.05	
			For >500 To 1,000, Deduct	-96.74	
			For >1,000 To 2,000, Deduct	-146.68	
			For >2,000 To 5,000, Deduct	-240.99	
			For >5,000, Deduct	-399.55	
33 01 30 72-0327	LF		42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,071.27	
			For Vinlyester Resin, Add	1,347.75	
			For Epoxy Resin, Add	158.84	
			For Up To >10, Add	1,400.41	
			For >10 To 25, Add	846.12	
			For >25 To 50, Add	603.94	
			For >50 To 100, Add	301.97	
			For >500 To 1,000, Deduct	-107.21	
			For >1,000 To 2,000, Deduct	-162.64	
			For >2,000 To 5,000, Deduct	-267.52	
			For >5,000, Deduct	-443.44	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0328 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,264.41	
For Vinlyester Resin, Add	1,473.42	
For Epoxy Resin, Add	173.65	
For Up To >10, Add	1,531.01	
For >10 To 25, Add	925.02	
For >25 To 50, Add	660.26	
For >50 To 100, Add	330.13	
For >500 To 1,000, Deduct	-117.21	
For >1,000 To 2,000, Deduct	-177.81	
For >2,000 To 5,000, Deduct	-292.47	
For >5,000, Deduct	-484.79	
33 01 30 72-0329 LF 42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,457.54	
For Vinlyester Resin, Add	1,599.09	
For Epoxy Resin, Add	188.46	
For Up To >10, Add	1,661.57	
For >10 To 25, Add	1,003.91	
For >25 To 50, Add	716.56	
For >50 To 100, Add	358.28	
For >500 To 1,000, Deduct	-127.21	
For >1,000 To 2,000, Deduct	-192.97	
For >2,000 To 5,000, Deduct	-317.41	
For >5,000, Deduct	-526.13	
33 01 30 72-0330 LF 42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,650.67	
For Vinlyester Resin, Add	1,724.77	
For Epoxy Resin, Add	203.28	
For Up To >10, Add	1,792.14	
For >10 To 25, Add	1,082.79	
For >25 To 50, Add	772.87	
For >50 To 100, Add	386.44	
For >500 To 1,000, Deduct	-137.20	
For >1,000 To 2,000, Deduct	-208.14	
For >2,000 To 5,000, Deduct	-342.35	
For >5,000, Deduct	-567.48	
33 01 30 72-0331 LF 42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,843.80	
For Vinlyester Resin, Add	1,850.44	
For Epoxy Resin, Add	218.09	
For Up To >10, Add	1,922.70	
For >10 To 25, Add	1,161.67	
For >25 To 50, Add	829.18	
For >50 To 100, Add	414.59	
For >500 To 1,000, Deduct	-147.20	
For >1,000 To 2,000, Deduct	-223.30	
For >2,000 To 5,000, Deduct	-367.30	
For >5,000, Deduct	-608.82	
33 01 30 72-0332 LF 42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,036.92	
For Vinlyester Resin, Add	1,976.11	
For Epoxy Resin, Add	232.90	
For Up To >10, Add	2,053.24	
For >10 To 25, Add	1,240.53	
For >25 To 50, Add	885.47	
For >50 To 100, Add	442.73	
For >500 To 1,000, Deduct	-157.19	
For >1,000 To 2,000, Deduct	-238.46	
For >2,000 To 5,000, Deduct	-392.24	
For >5,000, Deduct	-650.17	
33 01 30 72-0333 LF 42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,230.06	
For Vinlyester Resin, Add	2,101.78	
For Epoxy Resin, Add	247.71	
For Up To >10, Add	2,183.83	
For >10 To 25, Add	1,319.44	
For >25 To 50, Add	941.79	
For >50 To 100, Add	470.89	
For >500 To 1,000, Deduct	-167.19	
For >1,000 To 2,000, Deduct	-253.63	
For >2,000 To 5,000, Deduct	-417.18	
For >5,000, Deduct	-691.52	
33 01 30 72-0334 LF 42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,423.19	
For Vinlyester Resin, Add	2,227.45	
For Epoxy Resin, Add	262.52	
For Up To >10, Add	2,314.40	
For >10 To 25, Add	1,398.32	
For >25 To 50, Add	998.09	
For >50 To 100, Add	499.05	
For >500 To 1,000, Deduct	-177.19	
For >1,000 To 2,000, Deduct	-268.80	
For >2,000 To 5,000, Deduct	-442.13	
For >5,000, Deduct	-732.86	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0335	LF	42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,616.32	
		For Vinylester Resin, Add	2,353.12	
		For Epoxy Resin, Add	277.33	
		For Up To >10, Add	2,444.96	
		For >10 To 25, Add	1,477.20	
		For >25 To 50, Add	1,054.40	
		For >50 To 100, Add	527.20	
		For >500 To 1,000, Deduct	-187.18	
		For >1,000 To 2,000, Deduct	-283.96	
		For >2,000 To 5,000, Deduct	-467.07	
		For >5,000, Deduct	-774.21	
33 01 30 72-0336	LF	42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,809.46	
		For Vinylester Resin, Add	2,478.80	
		For Epoxy Resin, Add	292.14	
		For Up To >10, Add	2,575.53	
		For >10 To 25, Add	1,556.09	
		For >25 To 50, Add	1,110.71	
		For >50 To 100, Add	555.35	
		For >500 To 1,000, Deduct	-197.18	
		For >1,000 To 2,000, Deduct	-299.13	
		For >2,000 To 5,000, Deduct	-492.02	
		For >5,000, Deduct	-815.56	
33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)				
33 01 30 74-0001		Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002		Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003	EA	Cut Liner For Laterals, Up To 4" (Robotic).....	517.83	
33 01 30 74-0004	EA	Cut Liner For Laterals, 6" (Robotic)	559.81	
33 01 30 74-0005	EA	Cut Liner For Laterals, 8" (Robotic)	594.80	
33 01 30 74-0006	EA	Cut Liner For Laterals, 10" (Robotic)	629.79	
33 01 30 74-0007	EA	Cut Liner For Laterals, 12" (Robotic)	664.77	
33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)				
33 01 30 74-0009		Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010	EA	Grout Up To 4" Lateral Service - Bladder	582.19	
33 01 30 74-0011	EA	Grout 6" Lateral Service - Bladder	665.90	
33 01 30 74-0012	EA	Grout 8" Lateral Service - Bladder	749.60	
33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)				
33 01 30 74-0014	EA	Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	631.34	
33 01 30 74-0015	EA	Grout 8" To 12" Lateral Service - Robotic Trowel Application.....	680.47	
33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)				
		Note: As manufactured by LMK.		
33 01 30 74-0017	EA	Up To 4" Lateral T-Liner	714.37	
33 01 30 74-0018	EA	6" Lateral T-Liner	797.43	
33 01 30 74-0019	EA	8" Lateral T-Liner	924.14	
33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)				
33 01 30 74-0021		Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022	LF	6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP)	31.83	
		For 7.5mm, Add	2.80	
		For 9 mm, Add	5.54	
33 01 30 74-0023	LF	6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP)	37.06	
		For 7.5mm, Add	3.82	
		For 9 mm, Add	7.55	
33 01 30 74-0024	LF	6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP)	46.57	
		For 7.5mm, Add	5.84	
		For 9 mm, Add	11.56	
33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)				
33 01 30 79-0001		Form and Fold Relining Underground Pipelines (33 01 30 79)		
		Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002		Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)		
33 01 30 79-0003	EA	Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	5,084.20	
33 01 30 79-0004	EA	Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines	2,033.68	
33 01 30 79-0005		Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	45.04	
For DR 26 Pipe Liner, Add	8.54	
For Up To 75, Add	23.17	
For >75 To 150, Add	11.58	
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 2,000, Deduct	-1.63	
For >2,000, Deduct	-3.27	
33 01 30 79-0007 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	58.12	
For DR 26 Pipe Liner, Add	11.60	
For DR 35 Pipe Liner, Deduct	-5.80	
For Up To 75, Add	26.87	
For >75 To 150, Add	13.44	
For >500 To 1,000, Deduct	-0.88	
For >1,000 To 2,000, Deduct	-1.76	
For >2,000, Deduct	-3.52	
33 01 30 79-0008 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	59.96	
For DR 26 Pipe Liner, Add	11.81	
For DR 35 Pipe Liner, Deduct	-5.91	
For Up To 75, Add	28.52	
For >75 To 150, Add	14.26	
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 2,000, Deduct	-1.91	
For >2,000, Deduct	-3.81	
33 01 30 79-0009 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	84.75	
For DR 26 Pipe Liner, Add	17.72	
For DR 35 Pipe Liner, Deduct	-8.86	
For DR 41 Pipe Liner, Deduct	-17.72	
For Up To 75, Add	34.98	
For >75 To 150, Add	17.49	
For >500 To 1,000, Deduct	-1.04	
For >1,000 To 2,000, Deduct	-2.08	
For >2,000, Deduct	-4.16	
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	118.99	
For DR 26 Pipe Liner, Add	25.94	
For DR 35 Pipe Liner, Deduct	-12.97	
For DR 41 Pipe Liner, Deduct	-25.94	
For Up To 75, Add	43.62	
For >75 To 150, Add	21.81	
For >500 To 1,000, Deduct	-1.14	
For >1,000 To 2,000, Deduct	-2.29	
For >2,000, Deduct	-4.58	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	163.38	
For DR 35 Pipe Liner, Deduct	-18.26	
For DR 41 Pipe Liner, Deduct	-36.51	
For Up To 75, Add	55.21	
For >75 To 150, Add	27.60	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-2.60	
For >2,000, Deduct	-5.20	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	231.33	
For DR 41 Pipe Liner, Deduct	-21.18	
For DR 50 Pipe Liner, Deduct	-42.35	
For Up To 75, Add	71.69	
For >75 To 150, Add	35.85	
For >500 To 1,000, Deduct	-1.47	
For >1,000 To 2,000, Deduct	-2.93	
For >2,000, Deduct	-5.87	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	261.74	
For DR 50 Pipe Liner, Deduct	-36.08	
For DR 55 Pipe Liner, Deduct	-60.14	
For Up To 75, Add	79.90	
For >75 To 150, Add	39.95	
For >500 To 1,000, Deduct	-1.59	
For >1,000 To 2,000, Deduct	-3.18	
For >2,000, Deduct	-6.36	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	319.50	
For DR 60 Pipe Liner, Deduct	-44.46	
For Up To 75, Add	93.94	
For >75 To 150, Add	46.97	
For >500 To 1,000, Deduct	-1.73	
For >1,000 To 2,000, Deduct	-3.47	
For >2,000, Deduct	-6.93	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	48.26	
For Up To 75, Add	23.81	
For >75 To 150, Add	11.90	
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 2,000, Deduct	-1.63	
For >2,000, Deduct	-3.27	
For DR 26 Pipe Liner, Add	9.34	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	58.12	
For Up To 75, Add	26.87	
For >75 To 150, Add	13.44	
For >500 To 1,000, Deduct	-0.88	
For >1,000 To 2,000, Deduct	-1.76	
For >2,000, Deduct	-3.52	
For DR 26 Pipe Liner, Add	11.60	
For DR 35 Pipe Liner, Deduct	-5.80	
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	64.26	
For Up To 75, Add	29.38	
For >75 To 150, Add	14.69	
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 2,000, Deduct	-1.91	
For >2,000, Deduct	-3.81	
For DR 26 Pipe Liner, Add	12.89	
For DR 35 Pipe Liner, Deduct	-6.44	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	91.19	
For Up To 75, Add	36.27	
For >75 To 150, Add	18.13	
For >500 To 1,000, Deduct	-1.04	
For >1,000 To 2,000, Deduct	-2.08	
For >2,000, Deduct	-4.16	
For DR 26 Pipe Liner, Add	19.33	
For DR 35 Pipe Liner, Deduct	-9.67	
For DR 41 Pipe Liner, Deduct	-19.33	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	128.65	
For Up To 75, Add	45.56	
For >75 To 150, Add	22.78	
For >500 To 1,000, Deduct	-1.14	
For >1,000 To 2,000, Deduct	-2.29	
For >2,000, Deduct	-4.58	
For DR 26 Pipe Liner, Add	28.35	
For DR 35 Pipe Liner, Deduct	-14.18	
For DR 41 Pipe Liner, Deduct	-28.35	
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	177.12	
For Up To 75, Add	57.95	
For >75 To 150, Add	28.98	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-2.60	
For >2,000, Deduct	-5.20	
For DR 35 Pipe Liner, Deduct	-19.97	
For DR 41 Pipe Liner, Deduct	-39.95	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	251.52	
For Up To 75, Add	75.73	
For >75 To 150, Add	37.87	
For >500 To 1,000, Deduct	-1.47	
For >1,000 To 2,000, Deduct	-2.93	
For >2,000, Deduct	-5.87	
For DR 41 Pipe Liner, Deduct	-23.20	
For DR 50 Pipe Liner, Deduct	-46.39	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	284.07	
For Up To 75, Add	84.36	
For >75 To 150, Add	42.18	
For >500 To 1,000, Deduct	-1.59	
For >1,000 To 2,000, Deduct	-3.18	
For >2,000, Deduct	-6.36	
For DR 50 Pipe Liner, Deduct	-39.43	
For DR 55 Pipe Liner, Deduct	-65.72	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	347.85	
For Up To 75, Add	99.61	
For >75 To 150, Add	49.81	
For >500 To 1,000, Deduct	-1.73	
For >1,000 To 2,000, Deduct	-3.47	
For >2,000, Deduct	-6.93	
For DR 60 Pipe Liner, Deduct	-48.71	

33 01 30 81 Manhole Rehabilitation (33 01 30)

33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)
Note: Work is in confined spaces.

33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)

33 01 30 81-0003 EA Inspect Manhole	167.98
33 01 30 81-0004 EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	12,233.90
Note: For internal inspection and repair of water mains.	
33 01 30 81-0005 EA >60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	17,319.03
Note: For internal inspection and repair of water mains	

33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)

33 01 30 81-0007 Internal Manhole Chimney Seals (33 01 30 81-0006)
Note: Cretex.

33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....	526.07
33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....	554.51
33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....	568.73

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0011	EA	26" Internal Manhole Chimney Seal.....	654.04		
33 01 30 81-0012	EA	28" Internal Manhole Chimney Seal.....	739.35		
33 01 30 81-0013	EA	30" Internal Manhole Chimney Seal.....	824.66		
33 01 30 81-0014	EA	36" Internal Manhole Chimney Seal.....	995.28		
33 01 30 81-0015		External Manhole Encapsulation (33 01 30 81-0006) Note: Wrapidseal.			
33 01 30 81-0016	EA	24" External Manhole Encapsulation	767.78		
33 01 30 81-0017	EA	30" External Manhole Encapsulation	810.44		
33 01 30 81-0018	EA	36" External Manhole Encapsulation	867.31		
33 01 30 81-0019	EA	42" External Manhole Encapsulation	938.40		
33 01 30 81-0020	EA	48" External Manhole Encapsulation	1,037.93		
33 01 30 81-0021	EA	54" External Manhole Encapsulation	1,151.67		
33 01 30 81-0022	EA	60" External Manhole Encapsulation	1,293.86		
33 01 30 81-0023		Manhole Patching (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.			
33 01 30 81-0024	SF	Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	15.70		
33 01 30 81-0025	SF	Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	36.13		
33 01 30 81-0026		Manhole Joint Restoration (33 01 30 81-0001) Note: Includes drilling holes at joints, fill joints with grout.			
33 01 30 81-0027	EA	3' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,067.78		
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	228.58		
33 01 30 81-0028	EA	3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,413.79		
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	254.17		
33 01 30 81-0029	EA	4' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,757.04		
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	279.77		
33 01 30 81-0030	EA	5' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,255.71		
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	292.57		
33 01 30 81-0031	EA	6' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,752.99		
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	305.37		
33 01 30 81-0032		Step Installation In Existing Manholes (33 01 30 81-0001) Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.			
33 01 30 81-0033	EA	Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	129.94	20.21	
33 01 30 81-0034	EA	Drill And Grout Galvanized Steel Manhole Step	102.51	20.21	
33 01 30 81-0035	EA	Bolt On Galvanized Steel Manhole Step.....	123.27	20.21	
33 01 30 81-0036	EA	Drill And Grout Aluminum Manhole Step	111.24	20.21	
33 01 30 81-0037	EA	Drill And Insert Polypropylene Manhole Step.....	60.80	16.17	
33 01 30 81-0038		Manhole Penetration Sealing (33 01 30 81-0001) Note: At new pipe connection to manhole.			
33 01 30 81-0039	EA	6" To 12" Opening, Seal New Pipe Connection To Existing Manhole.....	376.25		
33 01 30 81-0040	EA	>12" To 22" Opening, Seal New Pipe Connection To Existing Manhole.....	582.59		
33 01 30 81-0041	EA	>22" To 36" Opening, Seal New Pipe Connection To Existing Manhole.....	801.08		
33 01 30 81-0042		Invert Restoration (33 01 30 81-0001) Note: Includes removal of existing defective material and installation of new material.			
33 01 30 81-0043		Concrete Invert Restoration (33 01 30 81-0042)			
33 01 30 81-0044	EA	2' Diameter, Concrete Invert Restoration.....	364.95		
33 01 30 81-0045	EA	3' Diameter, Concrete Invert Restoration	406.95		
33 01 30 81-0046	EA	4' Diameter, Concrete Invert Restoration	448.94		
33 01 30 81-0047	EA	5' Diameter, Concrete Invert Restoration	490.94		
33 01 30 81-0048	EA	6' Diameter, Concrete Invert Restoration	616.92		
33 01 30 81-0049	SF	Square Or Rectangular, Concrete Invert Restoration	35.71		
33 01 30 81-0050		Brick Invert Restoration (33 01 30 81-0042)			
33 01 30 81-0051	EA	2' Diameter, Brick Invert Restoration	536.82		
33 01 30 81-0052	EA	3' Diameter, Brick Invert Restoration	578.81		
33 01 30 81-0053	EA	4' Diameter, Brick Invert Restoration	620.81		
33 01 30 81-0054	EA	5' Diameter, Brick Invert Restoration	662.80		
33 01 30 81-0055	EA	6' Diameter, Brick Invert Restoration	704.79		
33 01 30 81-0056	SF	Square Or Rectangular, Brick Invert Restoration	49.10		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 01 30 81-0057	Repair In-Kind Of Drainage Structures (33 01 30 81)	
Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.		
33 01 30 81-0058	VLF 2' Diameter, Repair In-Kind Drainage Structure.....	669.35
33 01 30 81-0059	VLF 3' Diameter, Repair In-Kind Drainage Structure.....	1,004.03
33 01 30 81-0060	VLF 4' Diameter, Repair In-Kind Drainage Structure.....	1,338.80
33 01 30 81-0061	VLF 5' Diameter, Repair In-Kind Drainage Structure.....	1,673.38
33 01 30 81-0062	VLF 6' Diameter, Repair In-Kind Drainage Structure.....	2,008.07
33 01 30 81-0063	VLF 2' x 2', Repair In-Kind Drainage Structure.....	852.68
33 01 30 81-0064	VLF 2' x 3', Repair In-Kind Drainage Structure.....	1,065.85
33 01 30 81-0065	VLF 2' x 4', Repair In-Kind Drainage Structure.....	1,279.02
33 01 30 81-0066	VLF 3' x 4', Repair In-Kind Drainage Structure.....	1,492.19
33 01 30 81-0067	VLF 4' x 4', Repair In-Kind Drainage Structure.....	1,705.36
33 01 30 81-0068	VLF 4' x 5', Repair In-Kind Drainage Structure.....	1,918.53
33 01 30 81-0069	VLF 4' x 6', Repair In-Kind Drainage Structure.....	2,131.70
33 01 30 81-0070	VLF 4' x 8', Repair In-Kind Drainage Structure.....	2,558.05
33 01 30 81-0071	VLF >32 GSF, Repair In-Kind Drainage Structure	2,984.39

33 01 30 82 Epoxy Lining for Concrete Manholes (33 01 30)

33 01 30 82-0001	Epoxy Manhole Restoration, Interior (33 01 30 82)	
33 01 30 82-0002	VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	337.54
	For 80 Mil Material, Add	38.12
	For 100 Mil Material, Add	76.25
	For 125 Mil Material, Add	118.50
	For 150 Mil Material, Add	160.76
	For 200 Mil Material, Add	230.87
	For 2 To 5 Manholes, Deduct	-24.08
	For 6 To 10 Manholes, Deduct	-39.71
	For >10 Manholes, Deduct	-79.43
33 01 30 82-0003	VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	409.84
	For 80 Mil Material, Add	45.69
	For 100 Mil Material, Add	91.39
	For 125 Mil Material, Add	141.90
	For 150 Mil Material, Add	192.42
	For 200 Mil Material, Add	275.86
	For 2 To 5 Manholes, Deduct	-29.29
	For 6 To 10 Manholes, Deduct	-48.34
	For >10 Manholes, Deduct	-96.67
33 01 30 82-0004	VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	450.04
	For 80 Mil Material, Add	50.83
	For 100 Mil Material, Add	101.66
	For 125 Mil Material, Add	157.99
	For 150 Mil Material, Add	214.33
	For 200 Mil Material, Add	307.81
	For 2 To 5 Manholes, Deduct	-32.10
	For 6 To 10 Manholes, Deduct	-52.95
	For >10 Manholes, Deduct	-105.90
33 01 30 82-0005	VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	562.61
	For 80 Mil Material, Add	63.55
	For 100 Mil Material, Add	127.11
	For 125 Mil Material, Add	197.55
	For 150 Mil Material, Add	268.00
	For 200 Mil Material, Add	384.89
	For 2 To 5 Manholes, Deduct	-40.13
	For 6 To 10 Manholes, Deduct	-66.19
	For >10 Manholes, Deduct	-132.38
33 01 30 82-0006	VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	675.12
	For 80 Mil Material, Add	76.26
	For 100 Mil Material, Add	152.52
	For 125 Mil Material, Add	237.05
	For 150 Mil Material, Add	321.58
	For 200 Mil Material, Add	461.83
	For 2 To 5 Manholes, Deduct	-48.15
	For 6 To 10 Manholes, Deduct	-79.43
	For >10 Manholes, Deduct	-158.86

33 01 30 83 Lining for Concrete Manholes (33 01 30)

33 01 30 83-0001	Manhole Lining (33 01 30 83)	
Note: Includes power washing and cleaning of manhole interiors.		
33 01 30 83-0002	Cementitious Manhole Restoration, Interior (33 01 30 83-0001)	
33 01 30 83-0003	VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior	155.95
	For Each Additional 1/2" Thick Material, Add	43.09
	For 2 To 5 Manholes, Deduct	-10.84
	For 6 To 10 Manholes, Deduct	-17.78
	For >10 Manholes, Deduct	-35.55

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior.....	180.88	
For Each Additional 1/2" Thick Material, Add	50.17	
For 2 To 5 Manholes, Deduct	-12.56	
For 6 To 10 Manholes, Deduct	-20.61	
For >10 Manholes, Deduct	-41.21	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....	205.80	
For Each Additional 1/2" Thick Material, Add	57.24	
For 2 To 5 Manholes, Deduct	-14.29	
For 6 To 10 Manholes, Deduct	-23.43	
For >10 Manholes, Deduct	-46.87	
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....	243.14	
For Each Additional 1/2" Thick Material, Add	70.37	
For 2 To 5 Manholes, Deduct	-16.80	
For 6 To 10 Manholes, Deduct	-27.51	
For >10 Manholes, Deduct	-55.03	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....	267.12	
For Each Additional 1/2" Thick Material, Add	81.71	
For 2 To 5 Manholes, Deduct	-18.32	
For 6 To 10 Manholes, Deduct	-29.95	
For >10 Manholes, Deduct	-59.91	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	305.29	
For 80 Mil Material, Add	27.37	
For 100 Mil Material, Add	54.75	
For 125 Mil Material, Add	83.57	
For 150 Mil Material, Add	112.38	
For 200 Mil Material, Add	155.62	
For 2 To 5 Manholes, Deduct	-22.46	
For 6 To 10 Manholes, Deduct	-37.29	
For >10 Manholes, Deduct	-74.59	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	372.16	
For 80 Mil Material, Add	33.13	
For 100 Mil Material, Add	66.27	
For 125 Mil Material, Add	101.08	
For 150 Mil Material, Add	135.90	
For 200 Mil Material, Add	187.94	
For 2 To 5 Manholes, Deduct	-27.41	
For 6 To 10 Manholes, Deduct	-45.51	
For >10 Manholes, Deduct	-91.02	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	407.04	
For 80 Mil Material, Add	36.50	
For 100 Mil Material, Add	72.99	
For 125 Mil Material, Add	111.41	
For 150 Mil Material, Add	149.83	
For 200 Mil Material, Add	207.48	
For 2 To 5 Manholes, Deduct	-29.95	
For 6 To 10 Manholes, Deduct	-49.73	
For >10 Manholes, Deduct	-99.45	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	508.81	
For 80 Mil Material, Add	45.62	
For 100 Mil Material, Add	91.24	
For 125 Mil Material, Add	139.27	
For 150 Mil Material, Add	187.30	
For 200 Mil Material, Add	259.36	
For 2 To 5 Manholes, Deduct	-37.44	
For 6 To 10 Manholes, Deduct	-62.16	
For >10 Manholes, Deduct	-124.31	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	610.57	
For 80 Mil Material, Add	54.74	
For 100 Mil Material, Add	109.49	
For 125 Mil Material, Add	167.12	
For 150 Mil Material, Add	224.75	
For 200 Mil Material, Add	311.22	
For 2 To 5 Manholes, Deduct	-44.93	
For 6 To 10 Manholes, Deduct	-74.59	
For >10 Manholes, Deduct	-149.18	
33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	482.38	
For 2 To 5 Manholes, Deduct	-28.41	
For 6 To 10 Manholes, Deduct	-44.76	
For >10 Manholes, Deduct	-89.52	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	590.69	
For 2 To 5 Manholes, Deduct	-34.78	
For 6 To 10 Manholes, Deduct	-54.79	
For >10 Manholes, Deduct	-109.58	
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	693.71	
For 2 To 5 Manholes, Deduct	-40.41	
For 6 To 10 Manholes, Deduct	-63.47	
For >10 Manholes, Deduct	-126.94	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	869.84 -50.64 -79.54 -159.08	
33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	1,045.97 -60.88 -95.61 -191.21	
33 01 30 86 Manhole Rim Adjustment (33 01 30)		
33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)		
33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	357.90	
33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	403.56	
33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	444.90	
33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	491.79	
33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	529.64	
33 01 30 86-0008 Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009 EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	423.49	
33 01 30 86-0010 EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	462.02	
33 01 30 86-0011 EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	510.68	
33 01 30 86-0012 EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	557.56	
33 01 30 86-0013 EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	602.70	
33 01 30 86-0014 >6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0015 EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	590.64	
33 01 30 86-0016 EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	642.94	
33 01 30 86-0017 EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	696.01	
33 01 30 86-0018 EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	737.88	
33 01 30 86-0019 EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	802.49	
33 01 30 86-0020 EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	860.96	
33 01 30 86-0021 EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	918.07	
33 01 30 86-0022 EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	976.32	
33 01 30 86-0023 >12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0024 Precast Concrete Manhole Riser (33 01 30 86-0023)		
33 01 30 86-0025 VLF Up To 26" Diameter Precast Concrete Manhole Riser	126.19	
33 01 30 86-0026 VLF >26" To 36" Diameter Precast Concrete Manhole Riser	150.07	
33 01 30 86-0027 VLF >36" To 48" Diameter Precast Concrete Manhole Riser	167.99	
33 01 30 86-0028 VLF >48" To 60" Diameter Precast Concrete Manhole Riser	344.02	
33 01 30 86-0029 VLF >60" To 72" Diameter Precast Concrete Manhole Riser	503.68	
33 01 30 89 By-Pass Piping and Pumping of Sewer Utilities (33 01 30)		
33 01 30 89-0001 Set-Up By-Pass Pumping Unit (33 01 30 89) Note: Excludes pump and hose rental. See CSI section 01 22 23 00-0929 for pump rental, 01 22 23 00-0962 for suction hose, 01 22 23 00-0981 for discharge hose.		
33 01 30 89-0002 EA Set-up By-Pass Pumping Unit	1,971.48	
33 01 30 89-0003 EA Re-Set Up/Move By-Pass Pumping Unit	985.74	
33 01 30 89-0004 By-Pass Pumping (33 01 30 89) Note: Excludes pump rental. See CSI section 01 22 23 00-0929 for pump rental.		
33 01 30 89-0005 DAY Maintain And Operate By-Pass Pumping Unit	492.88	
33 01 30 89-0006 WK Maintain And Operate By-Pass Pumping Unit	2,464.36	
33 01 30 89-0007 MO Maintain And Operate By-Pass Pumping Unit	10,350.30	
33 01 30 89-0008 Temporary Bypass And Service Lines (33 01 30 89) Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009 Temporary Water Service Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0010 LF 1/2" Temporary Service Hose With Fittings	3.55	
33 01 30 89-0011 LF 3/4" Temporary Service Hose With Fittings	4.50	
33 01 30 89-0012 LF 1" Temporary Service Hose With Fittings	5.23	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0013 LF 1-1/2" Temporary Service Hose With Fittings Note: Includes removal after use.	6.25	
33 01 30 89-0014 LF 2" Temporary Service Hose With Fittings Note: Includes removal after use.	7.67	
33 01 30 89-0015 EA Temporary Service Valve Assembly At Fire Hydrant Note: Includes removal after use.	392.35	
33 01 30 89-0016 Temporary Bypass Water Main Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0017 LF 2" Temporary Bypass Pipe With Fittings Note: Includes removal after use.	7.87	
For >500 To 1,000, Deduct	-0.54	
For >1,000 To 5,000, Deduct	-1.09	
For >5,000, Deduct	-1.82	
33 01 30 89-0018 LF 4" Temporary Bypass Pipe With Fittings Note: Includes removal after use.	9.97	
For >500 To 1,000, Deduct	-0.70	
For >1,000 To 5,000, Deduct	-1.40	
For >5,000, Deduct	-2.34	
33 01 30 89-0019 LF 6" Temporary Bypass Pipe With Fittings Note: Includes removal after use.	12.15	
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 5,000, Deduct	-1.63	
For >5,000, Deduct	-2.72	
33 01 30 89-0020 LF 8" Temporary Bypass Pipe With Fittings Note: Includes removal after use.	15.24	
For >500 To 1,000, Deduct	-0.98	
For >1,000 To 5,000, Deduct	-1.96	
For >5,000, Deduct	-3.27	
33 01 30 89-0021 Piping Protection For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0022 LF Cold Mix For Temporary Pipe Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	2.87	
33 01 30 89-0023 Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0024 EA Drill Meter Cover For Temporary Bypass Pipe.....	15.21	

33 05 Common Work Results for Utilities (33)**33 05 07 Trenchless Installation of Utility Piping** (33 05)**33 05 07 13 Utility Directional Drilling** (33 05 07)

33 05 07 13-0001 Horizontal Augering (33 05 07 13) Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.		
33 05 07 13-0002 LF Up To 2" Diameter Horizontal Hand Augering	23.45	
33 05 07 13-0003 LF 3" Diameter Horizontal Hand Augering	28.30	
33 05 07 13-0004 LF 4" Diameter Horizontal Hand Augering	38.81	
33 05 07 13-0005 LF 6" Diameter Horizontal Hand Augering	50.13	
33 05 07 13-0006 LF 8" Diameter Horizontal Augering.....	90.14	
33 05 07 13-0007 LF 10" Diameter Horizontal Augering.....	131.50	
33 05 07 13-0008 LF 12" Diameter Horizontal Augering.....	158.01	
33 05 07 13-0009 LF 16" Diameter Horizontal Augering.....	188.77	
33 05 07 13-0010 LF 20" Diameter Horizontal Augering.....	326.63	
33 05 07 13-0011 LF 24" Diameter Horizontal Augering.....	410.04	
33 05 07 13-0012 LF 30" Diameter Horizontal Augering.....	505.75	
33 05 07 13-0013 LF 36" Diameter Horizontal Augering.....	577.84	
33 05 07 13-0014 LF 42" Diameter Horizontal Augering.....	751.02	
33 05 07 13-0015 LF 48" Diameter Horizontal Augering.....	809.24	
33 05 07 13-0016 LF 54" Diameter Horizontal Augering.....	880.09	
33 05 07 13-0017 LF 60" Diameter Horizontal Augering.....	922.67	
33 05 07 13-0018 EA 8" To 20" Horizontal Augering Minimum Set-up Charge Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,817.73	
33 05 07 13-0019 EA >20" To 36" Horizontal Augering Minimum Set-up Charge Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,199.35	
33 05 07 13-0020 EA >36" Horizontal Augering Minimum Set-up Charge Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	7,666.83	
33 05 07 13-0021 Horizontal Directional Boring (33 05 07 13) Note: Excludes receiving pits or dewatering or cost of casing pipe.		
33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground..... For Horizontal Boring Through Rock, Add	12.48 8.74	
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground For Horizontal Boring Through Rock, Add	18.72 13.10	



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Trenchless Installation of Utility Piping	33 05 07	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0024	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	25.99	
		For Horizontal Boring Through Rock, Add	18.19	
33 05 07 13-0025	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground	32.23	
		For Horizontal Boring Through Rock, Add	22.56	
33 05 07 13-0026	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground	38.47	
		For Horizontal Boring Through Rock, Add	26.93	
33 05 07 13-0027	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground	44.71	
		For Horizontal Boring Through Rock, Add	31.30	
33 05 07 13-0028	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground	52.00	
		For Horizontal Boring Through Rock, Add	36.40	
33 05 07 13-0029	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground	63.63	
		For Horizontal Boring Through Rock, Add	44.54	
33 05 07 13-0030	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground	68.93	
		For Horizontal Boring Through Rock, Add	48.25	
33 05 07 13-0031	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground	74.24	
		For Horizontal Boring Through Rock, Add	51.97	
33 05 07 13-0032	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground	153.77	
		For Horizontal Boring Through Rock, Add	107.64	
33 05 07 13-0033	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground	242.24	
		For Horizontal Boring Through Rock, Add	169.57	
33 05 07 13-0034	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground	369.28	
		For Horizontal Boring Through Rock, Add	258.50	
33 05 07 13-0035	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground	590.84	
		For Horizontal Boring Through Rock, Add	413.59	
33 05 07 13-0036	EA	Up To 6" Horizontal Directional Boring Minimum Set-up Charge.....	3,327.54	
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037	EA	>6" To 18" Horizontal Directional Boring Minimum Set-up Charge.....	3,817.73	
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038	EA	>18" To 36" Horizontal Directional Boring Minimum Set-up Charge.....	5,199.35	
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 23 Utility Boring and Jacking (33 05 07)

33 05 07 23-0001 Horizontal Jacking (33 05 07 23)

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking	55.28	
		For Horizontal Jacking Through Rock, Add	28.82	
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking	66.36	
		For Horizontal Jacking Through Rock, Add	34.78	
33 05 07 23-0004	LF	4" Diameter Horizontal Jacking	89.95	
		For Horizontal Jacking Through Rock, Add	47.71	
33 05 07 23-0005	LF	6" Diameter Horizontal Jacking	116.23	
		For Horizontal Jacking Through Rock, Add	61.61	
33 05 07 23-0006	LF	8" Diameter Horizontal Jacking	157.86	
		For Horizontal Jacking Through Rock, Add	84.47	
33 05 07 23-0007	LF	10" Diameter Horizontal Jacking	231.20	
		For Horizontal Jacking Through Rock, Add	123.24	
33 05 07 23-0008	LF	12" Diameter Horizontal Jacking	278.24	
		For Horizontal Jacking Through Rock, Add	148.09	
33 05 07 23-0009	LF	16" Diameter Horizontal Jacking	332.24	
		For Horizontal Jacking Through Rock, Add	176.91	
33 05 07 23-0010	LF	20" Diameter Horizontal Jacking	529.76	
		For Horizontal Jacking Through Rock, Add	307.09	
33 05 07 23-0011	LF	24" Diameter Horizontal Jacking	812.96	
		For Horizontal Jacking Through Rock, Add	344.64	
33 05 07 23-0012	LF	30" Diameter Horizontal Jacking	954.22	
		For Horizontal Jacking Through Rock, Add	425.57	
33 05 07 23-0013	LF	36" Diameter Horizontal Jacking	1,079.88	
		For Horizontal Jacking Through Rock, Add	486.60	
33 05 07 23-0014	LF	42" Diameter Horizontal Jacking	1,161.05	
		For Horizontal Jacking Through Rock, Add	525.46	
33 05 07 23-0015	LF	48" Diameter Horizontal Jacking	1,257.67	
		For Horizontal Jacking Through Rock, Add	566.17	
33 05 07 23-0016	LF	54" Diameter Horizontal Jacking	1,348.24	
		For Horizontal Jacking Through Rock, Add	616.18	
33 05 07 23-0017	EA	Up To 6" Horizontal Jacking Minimum Set-up Charge.....	3,327.54	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018	EA	>6" To 20" Horizontal Jacking Minimum Set-up Charge.....	3,817.73	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019	EA	>20" To 36" Horizontal Jacking Minimum Set-up Charge.....	5,199.35	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020	EA	>36" Horizontal Jacking Minimum Set-up Charge	7,666.83	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0001		Casing Pipe (33 05 07 24) Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.		
33 05 07 24-0002		Steel Pipe (33 05 07 24-0001)		
33 05 07 24-0003	LF	1-1/2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	14.11	
33 05 07 24-0004	LF	2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	14.98	
33 05 07 24-0005	LF	2-1/2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	16.15	
33 05 07 24-0006	LF	3" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	17.34	
33 05 07 24-0007	LF	4" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	21.81	
33 05 07 24-0008	LF	5" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	24.60	
33 05 07 24-0009	LF	6" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	27.39	
33 05 07 24-0010		Polyethylene Pipe (33 05 07 24-0001)		
33 05 07 24-0011	LF	3/4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	6.61	
33 05 07 24-0012	LF	1" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	7.20	
33 05 07 24-0013	LF	1-1/4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	7.81	
33 05 07 24-0014	LF	1-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	8.34	
33 05 07 24-0015	LF	2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	8.94	
33 05 07 24-0016	LF	2-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	9.58	
33 05 07 24-0017	LF	3" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	10.26	
33 05 07 24-0018	LF	4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	12.65	
33 05 07 24-0019	LF	5" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	14.10	
33 05 07 24-0020	LF	6" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	15.56	
33 05 07 24-0021	LF	8" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	20.62	
33 05 07 24-0022	LF	10" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	28.56	
33 05 09		Piping Specials for Utilities (33 05)		
33 05 09 23		Adapters for Utility Piping (33 05 09) See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.		
33 05 09 33		Thrust Restraint for Utility Piping (33 05 09) See CSI section 33 14 13 13-0545 for mechanical restraints, 33 14 13 13-0580 for flanged restraints, 33 14 13 13-1152 for slip-on restraints, 33 14 13 13-1168 for slip-on restraint harnesses.		
33 05 17		Copper Utility Pipe and Tubing (33 05) See CSI section 33 14 13 39-0000 for copper utility piping.		
33 05 19		Ductile-Iron Utility Pipe (33 05) See CSI section 33 14 13 13-0000 for ductile iron utility piping.		
33 05 24		Steel Utility Pipe (33 05)		
33 05 24 23		Steel Pipe for Water Service (33 05 24) See CSI section 33 14 13 36-0000 for steel utility piping.		
33 05 27		Corrugated Metal Utility Pipe (33 05)		
33 05 27 13		Corrugated Metal Culvert Pipe (33 05 27) See CSI section 33 42 11 00-0486 for corrugated metal culvert pipe.		
33 05 27 23		Corrugated Metal Slotted Pipe (33 05 27) See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.		
33 05 27 33		Corrugated Metal Culvert Arch Pipe (33 05 27) See CSI section 33 42 11 00-0830 for corrugated metal culvert arch pipe.		
33 05 31		Thermoplastic Utility Pipe (33 05)		
33 05 31 11		Polyvinyl Chloride Gravity Sewer Pipe (33 05 31) See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.		
33 05 31 13		Polyvinyl Chloride Pressure Pipe (33 05 31) See CSI section 33 14 13 23-0256 for polyvinyl chloride pressure pipe.		



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Thermoplastic Utility Pipe	33 05 31	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) ^(33 05 31)			
See CSI section 33 14 13 23-0001 for AWWA C900 and 905 polyvinyl chloride pressure pipe.			
33 05 33 Polyethylene Utility Pipe ^(33 05)			
33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe ^(33 05 33)			
See CSI section 33 42 11 00-0227 for corrugated-wall smooth interior HDPE gravity pipe.			
33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) ^(33 05 33)			
See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.			
33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe ^(33 05 33)			
See CSI section 33 42 11 00-0249 for corrugated perforated HDPE drainage pipe.			
33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe ^(33 05 33)			
See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.			
33 05 33 63 HDPE Communication Duct ^(33 05 33)			
33 05 33 63-0001 ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine ^(33 05 33 63)			
Note: Excludes boring.			
33 05 33 63-0002	LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.31	
	For Up To 250, Add	0.10	
	For >250 To 500, Add	0.07	
33 05 33 63-0003	LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.69	
	For Up To 250, Add	0.12	
	For >250 To 500, Add	0.08	
33 05 33 63-0004	LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.00	
	For Up To 250, Add	0.14	
	For >250 To 500, Add	0.09	
33 05 33 63-0005	LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.39	
	For Up To 250, Add	0.16	
	For >250 To 500, Add	0.11	
33 05 33 63-0006	LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	5.83	
	For Up To 250, Add	0.34	
	For >250 To 500, Add	0.23	
33 05 33 63-0007	LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	7.35	
	For Up To 250, Add	0.53	
	For >250 To 500, Add	0.35	
33 05 33 63-0008	LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.38	
	For Up To 250, Add	0.11	
	For >250 To 500, Add	0.07	
33 05 33 63-0009	LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.81	
	For Up To 250, Add	0.14	
	For >250 To 500, Add	0.09	
33 05 33 63-0010	LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.10	
	For Up To 250, Add	0.15	
	For >250 To 500, Add	0.10	
33 05 33 63-0011	LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.66	
	For Up To 250, Add	0.20	
	For >250 To 500, Add	0.14	
33 05 33 63-0012	LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	6.42	
	For Up To 250, Add	0.43	
	For >250 To 500, Add	0.29	
33 05 33 63-0013	LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	8.09	
	For Up To 250, Add	0.64	
	For >250 To 500, Add	0.42	
33 05 39 Concrete Pipe ^(33 05)			
33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) ^(33 05 39)			
See CSI section 33 42 11 00-0080 for prestressed concrete pressure pipe.			
33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts ^(33 05 39)			
See CSI section 33 42 11 00-0001 for reinforced concrete pipe.			
33 05 39 46 Reinforced Concrete Elliptical Pipe for Sewers and Culverts ^(33 05 39)			
See CSI section 33 42 11 00-0019 for reinforced concrete elliptical pipe.			
33 05 41 Vitrified Clay Utility Pipe ^(33 05)			
See CSI section 33 42 11 00-0353 for vitrified clay piping.			

33 Utilities**33 05 Common Work Results for Utilities****33 05 61 Concrete Manholes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 Concrete Manholes (33 05)		
33 05 61 00-0001 Manholes (33 05 61)		
33 05 61 00-0002 Precast Concrete Manholes (33 05 61 00-0001)		
Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover. See CSI section 33 05 84 00-0002 for top slabs.		
33 05 61 00-0003 3' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0004 EA 4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,423.36	263.85
For Bitumastic Coating, Add	64.28	
For Epoxy Coating, Add	122.83	
33 05 61 00-0005 EA 6' Deep, 3' Diameter, Precast Concrete Manhole.....	1,941.75	378.99
For Bitumastic Coating, Add	96.42	
For Epoxy Coating, Add	184.25	
33 05 61 00-0006 EA 8' Deep, 3' Diameter, Precast Concrete Manhole.....	2,623.26	575.68
For Bitumastic Coating, Add	128.56	
For Epoxy Coating, Add	245.66	
33 05 61 00-0007 VLF Riser For 3' Diameter, Precast Concrete Manhole.....	278.40	67.16
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	16.07	
For Epoxy Coating, Add	30.71	
33 05 61 00-0008 VLF Drop Collar For 3' Diameter, Precast Concrete Manhole.....	299.53	67.16
33 05 61 00-0009 EA Drop Base For 3' Diameter, Precast Concrete Manhole.....	475.40	67.16
33 05 61 00-0010 EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	380.95	67.16
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole.....	541.82	67.16
33 05 61 00-0012 4' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole.....	1,917.21	302.23
For Bitumastic Coating, Add	64.28	
For Epoxy Coating, Add	122.83	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole.....	2,561.34	412.57
For Bitumastic Coating, Add	96.42	
For Epoxy Coating, Add	184.25	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole.....	3,398.14	623.64
For Bitumastic Coating, Add	128.56	
For Epoxy Coating, Add	245.66	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole.....	366.43	79.16
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	16.07	
For Epoxy Coating, Add	30.71	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole.....	397.31	79.16
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole.....	654.29	79.16
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole.....	516.29	79.16
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole.....	751.36	79.16
33 05 61 00-0021 5' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole.....	3,547.41	335.81
For Bitumastic Coating, Add	82.82	
For Epoxy Coating, Add	198.02	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole.....	4,727.04	460.54
For Bitumastic Coating, Add	124.23	
For Epoxy Coating, Add	297.02	
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole.....	6,120.23	690.81
For Bitumastic Coating, Add	165.64	
For Epoxy Coating, Add	396.03	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole.....	639.30	86.35
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	20.70	
For Epoxy Coating, Add	49.50	
33 05 61 00-0026 6' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole.....	4,742.05	374.19
For Bitumastic Coating, Add	94.82	
For Epoxy Coating, Add	231.83	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole.....	6,181.88	508.52
For Bitumastic Coating, Add	142.22	
For Epoxy Coating, Add	347.74	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole.....	7,860.83	767.57
For Bitumastic Coating, Add	189.63	
For Epoxy Coating, Add	463.65	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole.....	774.52	95.95
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	23.70	
For Epoxy Coating, Add	57.96	
33 05 61 00-0031 7' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		



		Utilities	33	
		Common Work Results for Utilities	33 05	
		Concrete Manholes	33 05 61	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 05 61 00-0032	EA	4' Deep, 7' Diameter, Precast Concrete Manhole..... For Bitumastic Coating, Add For Epoxy Coating, Add	7,435.82 201.63 405.10	412.57
33 05 61 00-0033	EA	6' Deep, 7' Diameter, Precast Concrete Manhole..... For Bitumastic Coating, Add For Epoxy Coating, Add	9,622.24 302.44 607.65	562.72
33 05 61 00-0034	EA	8' Deep, 7' Diameter, Precast Concrete Manhole..... For Bitumastic Coating, Add For Epoxy Coating, Add	12,071.56 403.26 810.20	844.32
33 05 61 00-0035	VLF	Riser For 7' Diameter, Precast Concrete Manhole Note: For depths greater than 8'. For Bitumastic Coating, Add For Epoxy Coating, Add	1,154.13 50.41 101.27	105.54
33 05 61 00-0036		8' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0037	EA	4' Deep, 8' Diameter, Precast Concrete Manhole For Bitumastic Coating, Add For Epoxy Coating, Add	10,733.45 238.37 493.78	474.93
33 05 61 00-0038	EA	6' Deep, 8' Diameter, Precast Concrete Manhole For Bitumastic Coating, Add For Epoxy Coating, Add	13,924.65 357.55 740.67	647.64
33 05 61 00-0039	EA	8' Deep, 8' Diameter, Precast Concrete Manhole For Bitumastic Coating, Add For Epoxy Coating, Add	17,418.10 476.74 987.56	971.45
33 05 61 00-0040	VLF	Riser For 8' Diameter, Precast Concrete Manhole Note: For depths greater than 8'. For Bitumastic Coating, Add For Epoxy Coating, Add	1,662.76 59.59 123.44	119.93
33 05 63 Concrete Vaults and Chambers (33 05)				
33 05 63 00-0001		Underground Utility Vaults And Structures (33 05 63) See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.		
33 05 63 00-0002		Precast Concrete Underground Utility Vault (33 05 63 00-0001) Note: Sizes given are for inside dimensions.		
33 05 63 00-0003		6' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0004	EA	4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	2,986.36	
33 05 63 00-0005	EA	4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,892.74	
33 05 63 00-0006	EA	5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,422.13	
33 05 63 00-0007	EA	5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,415.38	
33 05 63 00-0008	EA	6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,974.74	
33 05 63 00-0009	EA	6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,055.76	
33 05 63 00-0010	EA	6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,137.78	
33 05 63 00-0011	EA	6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	10,312.72	
33 05 63 00-0012	EA	6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	10,312.72	
33 05 63 00-0013	EA	6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,985.33	
33 05 63 00-0014	EA	8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,313.40	
33 05 63 00-0015	EA	8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,570.08	
33 05 63 00-0016	EA	8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,250.19	
33 05 63 00-0017	EA	8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,787.55	
33 05 63 00-0018		7' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0019	EA	4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,388.06	
33 05 63 00-0020	EA	4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,697.81	
33 05 63 00-0021	EA	4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,250.15	
33 05 63 00-0022	EA	5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,985.93	
33 05 63 00-0023	EA	5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,054.97	
33 05 63 00-0024	EA	6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,241.87	
33 05 63 00-0025	EA	6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,582.65	

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0026 EA 6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,330.01	
33 05 63 00-0027 EA 6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,214.76	
33 05 63 00-0028 EA 6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,087.95	
33 05 63 00-0029 EA 8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,915.09	
33 05 63 00-0030 EA 8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,246.62	
33 05 63 00-0031 EA 8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,253.09	
33 05 63 00-0032 EA 8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,889.19	
33 05 63 00-0033 EA 10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,452.91	
33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0035 EA 4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,588.04	
33 05 63 00-0036 EA 4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,645.09	
33 05 63 00-0037 EA 5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,549.72	
33 05 63 00-0038 EA 5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,693.61	
33 05 63 00-0039 EA 6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,876.80	
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,108.52	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,340.24	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,116.80	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,190.62	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,515.83	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,923.14	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,254.93	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,991.87	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,455.51	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,327.85	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,634.40	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,457.31	
33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,778.87	
33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,161.26	
33 05 63 00-0056 Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0056)		
33 05 63 00-0058 EA 4' x 4' x 4' Deep Precast Concrete Meter Pit.....	2,937.75	
33 05 63 00-0059 EA 4' x 4' x 6' Deep Precast Concrete Meter Pit.....	3,979.73	
33 05 63 00-0060 EA 4' x 4' x 8' Deep Precast Concrete Meter Pit.....	4,991.22	
33 05 63 00-0061 EA 4' x 4' x 10' Deep Precast Concrete Meter Pit.....	6,180.90	
33 05 63 00-0062 EA 4' x 4' x 15' Deep Precast Concrete Meter Pit.....	8,532.03	
33 05 63 00-0063 EA 6' x 6' x 4' Deep Precast Concrete Meter Pit.....	4,451.28	
33 05 63 00-0064 EA 6' x 6' x 6' Deep Precast Concrete Meter Pit.....	6,180.90	
33 05 63 00-0065 EA 6' x 6' x 8' Deep Precast Concrete Meter Pit.....	7,958.46	
33 05 63 00-0066 EA 6' x 6' x 10' Deep Precast Concrete Meter Pit.....	9,928.66	
33 05 63 00-0067 EA 6' x 6' x 15' Deep Precast Concrete Meter Pit.....	14,097.77	
33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)		
33 05 63 00-0069 Polymer Concrete Handhole Enclosures (33 05 63 00-0068)		



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0070	Polymer Concrete Handhole Enclosures (33 05 63 00-0069)		
33 05 63 00-0071	Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072	Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0073	EA 12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	277.49	21.29
33 05 63 00-0074	EA 10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	241.97	47.29
33 05 63 00-0075	EA 13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	369.33	70.93
33 05 63 00-0076	EA 17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	428.35	70.93
33 05 63 00-0077	EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	408.85	70.93
33 05 63 00-0078	EA 13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	493.97	70.93
33 05 63 00-0079	EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	481.13	70.93
33 05 63 00-0080	EA 17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	653.50	70.93
33 05 63 00-0081	EA 27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	927.68	94.57
33 05 63 00-0082	EA 27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,298.65	94.57
33 05 63 00-0083	EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	845.85	130.04
33 05 63 00-0084	EA 24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	962.02	130.04
33 05 63 00-0085	EA 24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,566.35	130.04
33 05 63 00-0086	EA 39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	903.50	141.86
33 05 63 00-0087	EA 39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,284.03	141.86
33 05 63 00-0088	EA 39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,595.21	141.86
33 05 63 00-0089	EA 39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,331.22	141.86
33 05 63 00-0090	EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,312.33	221.83
33 05 63 00-0091	EA 30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,885.05	221.83
33 05 63 00-0092	Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0093	EA 12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	354.60	21.29
33 05 63 00-0094	EA 13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	461.16	70.93
33 05 63 00-0095	EA 17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	556.17	70.93
33 05 63 00-0096	EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	513.64	70.93
33 05 63 00-0097	EA 13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	586.40	70.93
33 05 63 00-0098	EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	605.48	70.93
33 05 63 00-0099	EA 17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	778.92	70.93
33 05 63 00-0100	EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,041.14	130.04
33 05 63 00-0101	EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,157.31	130.04
33 05 63 00-0102	EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,761.66	130.04
33 05 63 00-0103	EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,540.54	221.83
33 05 63 00-0104	EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,117.61	221.83
33 05 63 00-0105	Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0106	Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0107	EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	453.83	21.29
33 05 63 00-0108	EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	384.04	21.29
33 05 63 00-0109	EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	317.82	70.93

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	359.00	70.93
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	108.36	21.29
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	166.72	21.29
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	268.01	21.29
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	280.27	21.29
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	237.69	47.29
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	256.49	47.29
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	164.21	21.29
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	187.18	21.29
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	254.54	47.29
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	286.15	47.29
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	265.69	47.29
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	319.74	70.93
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	350.74	70.93
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	373.80	70.93
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	408.53	70.93
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	477.79	70.93
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	519.80	70.93
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	565.77	70.93
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	594.68	70.93
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	709.78	94.57
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	720.00	130.04
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	921.34	130.04
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,107.24	130.04
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,224.64	130.04
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,341.42	130.04
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,535.77	221.83
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,124.20	221.83
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,273.31	221.83
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,558.44	221.83
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,555.51	221.83
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,661.95	221.83
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,866.64	221.83
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,720.32	237.66
33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,864.84	237.66
33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,049.35	237.66
33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,123.17	237.66
33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,148.83	237.66
33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,429.97	237.66
33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,883.99	237.66
33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,476.36	237.66
33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,785.94	253.51
33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,430.46	253.51
33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,390.99	253.51



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)			
33 05 63 00-0155	EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	424.74	70.93
33 05 63 00-0156	EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	485.83	70.93
33 05 63 00-0157	EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	181.58	21.29
33 05 63 00-0158	EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	261.34	21.29
33 05 63 00-0159	EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	349.51	21.29
33 05 63 00-0160	EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	361.79	21.29
33 05 63 00-0161	EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	317.97	47.29
33 05 63 00-0162	EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	331.06	47.29
33 05 63 00-0163	EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	348.55	47.29
33 05 63 00-0164	EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	244.05	21.29
33 05 63 00-0165	EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	287.96	21.29
33 05 63 00-0166	EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	348.13	47.29
33 05 63 00-0167	EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	379.74	47.29
33 05 63 00-0168	EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	360.28	47.29
33 05 63 00-0169	EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	424.15	70.93
33 05 63 00-0170	EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	455.54	70.93
33 05 63 00-0171	EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	498.40	70.93
33 05 63 00-0172	EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	532.91	70.93
33 05 63 00-0173	EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	601.96	70.93
33 05 63 00-0174	EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	644.15	70.93
33 05 63 00-0175	EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	689.93	70.93
33 05 63 00-0176	EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	719.03	70.93
33 05 63 00-0177	EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	881.56	94.57
33 05 63 00-0178	EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	915.31	130.04
33 05 63 00-0179	EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,116.40	130.04
33 05 63 00-0180	EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,302.10	130.04
33 05 63 00-0181	EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,419.32	130.04
33 05 63 00-0182	EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,536.49	130.04
33 05 63 00-0183	EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,350.25	221.83
33 05 63 00-0184	EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,499.58	221.83
33 05 63 00-0185	EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,784.49	221.83
33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)			
33 05 63 00-0187	EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	390.60	70.93
33 05 63 00-0188	EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	453.38	70.93
33 05 63 00-0189	EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	134.90	21.29
33 05 63 00-0190	EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	220.36	21.29
33 05 63 00-0191	EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	315.41	21.29
33 05 63 00-0192	EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	327.91	21.29
33 05 63 00-0193	EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	295.52	47.29
33 05 63 00-0194	EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	331.91	47.29
33 05 63 00-0195	EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	193.15	21.29
33 05 63 00-0196	EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	313.40	47.29

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	358.73	47.29
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	325.18	47.29
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	419.34	70.93
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	481.31	70.93
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	501.92	70.93
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	550.99	70.93
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	596.13	70.93
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	638.75	70.93
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	715.07	70.93
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	725.71	70.93
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	894.87	94.57
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	932.56	130.04
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,154.65	130.04
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,374.29	130.04
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,520.18	130.04
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,666.06	130.04
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,807.57	221.83
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,396.02	221.83
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,556.76	221.83
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,841.69	221.83
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,967.38	221.83
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,006.73	221.83
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,388.53	221.83
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,219.95	237.66
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,294.63	237.66
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,506.45	237.66
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,666.77	237.66
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,452.47	237.66
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,025.84	237.66
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,630.99	237.66
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,888.25	237.66
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,493.57	253.51
33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,138.35	253.51
33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,569.22	253.51
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	497.50	70.93
33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	580.45	70.93
33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	207.53	21.29
33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	314.80	21.29
33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	396.74	21.29
33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	409.40	21.29



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	389.11		47.29
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	425.27		47.29
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	296.94		21.29
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	406.56		47.29
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	451.89		47.29
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	393.05		47.29
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	524.17		70.93
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	586.14		70.93
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	626.27		70.93
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	675.36		70.93
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	720.49		70.93
33 05 63 00-0249	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	763.13		70.93
33 05 63 00-0250	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	839.46		70.93
33 05 63 00-0251	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	850.06		70.93
33 05 63 00-0252	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,066.43		94.57
33 05 63 00-0253	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,127.85		130.04
33 05 63 00-0254	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,349.74		130.04
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,569.14		130.04
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,715.13		130.04
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,861.13		130.04
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,622.28		221.83
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,783.24		221.83
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,067.97		221.83
33 05 63 00-0261		Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)			
33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	416.66		70.93
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	281.36		47.29
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	316.31		47.29
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	371.30		70.93
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	292.81		47.29
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	326.28		47.29
33 05 63 00-0268		Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)			
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	306.23		70.93
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	342.65		70.93
33 05 63 00-0271	EA	24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	394.52		94.57
33 05 63 00-0272	EA	24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	430.28		94.57
33 05 63 00-0273	EA	24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	511.46		130.04
33 05 63 00-0274	EA	36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	912.06		221.83
33 05 63 00-0275	EA	30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	872.96		221.83
33 05 63 00-0276	EA	30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	881.50		221.83
33 05 63 00-0277	EA	36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,180.14		237.66
33 05 63 00-0278	EA	48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,855.16		253.51
33 05 63 00-0279	EA	48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	2,423.10		253.51
33 05 63 00-0280	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	497.35		70.93
33 05 63 00-0281	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	519.60		70.93

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	557.55	94.57
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	593.70	94.57
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	690.27	130.04
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,125.65	221.83
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	388.57	70.93
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	432.46	70.93
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	574.43	130.04
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	1,138.27	237.66

33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)**33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers** (33 05 63 00-0290)

33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	107.64	9.47
33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	109.05	9.47
33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	101.03	9.47
33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	109.32	9.47
33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	110.39	9.46
33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	126.72	9.46
33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	146.93	9.46
33 05 63 00-0299 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	967.04	28.52
33 05 63 00-0300 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	846.57	28.52
33 05 63 00-0301 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,266.16	28.52
33 05 63 00-0302 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,280.47	28.52
33 05 63 00-0303 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,450.24	28.52
33 05 63 00-0304 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,579.92	28.52
33 05 63 00-0305 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	2,537.37	28.52
33 05 63 00-0306 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	92.12	9.46
33 05 63 00-0307 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	132.22	9.46
33 05 63 00-0308 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	134.08	9.46
33 05 63 00-0309 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	168.83	9.46
33 05 63 00-0310 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	127.24	9.46
33 05 63 00-0311 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	199.81	9.46
33 05 63 00-0312 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	156.77	9.46
33 05 63 00-0313 EA 27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	322.27	9.46
33 05 63 00-0314 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	282.04	14.19
33 05 63 00-0315 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	353.68	14.19
33 05 63 00-0316 EA 39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	455.95	16.55
33 05 63 00-0317 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	641.52	22.18
33 05 63 00-0318 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	666.77	42.25
33 05 63 00-0319 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	170.91	9.46
33 05 63 00-0320 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	243.91	9.46
33 05 63 00-0321 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	277.60	9.46
33 05 63 00-0322 EA 27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	461.94	9.46
33 05 63 00-0323 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	380.52	14.19
33 05 63 00-0324 EA 39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	643.52	16.55
33 05 63 00-0325 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	844.70	22.18
33 05 63 00-0326 EA 30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,139.74	28.52
33 05 63 00-0327 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,013.53	28.52
33 05 63 00-0328 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,414.89	28.52
33 05 63 00-0329 EA 48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,841.74	28.52
33 05 63 00-0330 EA 36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,763.87	28.52
33 05 63 00-0331 EA 48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,676.38	28.52
33 05 63 00-0332 EA 48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	4,132.84	28.52
33 05 63 00-0333 EA 11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	224.99	9.46
33 05 63 00-0334 EA 11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	246.08	9.46
33 05 63 00-0335 EA 13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	324.19	9.46
33 05 63 00-0336 EA 17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	369.51	9.46
33 05 63 00-0337 EA 27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	639.07	9.46
33 05 63 00-0338 EA 24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	463.99	14.19
33 05 63 00-0339 EA 24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	634.65	14.19
33 05 63 00-0340 EA 39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	984.30	16.55
33 05 63 00-0341 EA 36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,127.53	22.18
33 05 63 00-0342 EA 30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,173.16	42.25
33 05 63 00-0343 EA 30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,357.04	28.52
33 05 63 00-0344 EA 36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,893.67	28.52
33 05 63 00-0345 EA 48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,648.46	28.52
33 05 63 00-0346 EA 36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,363.60	28.52
33 05 63 00-0347 EA 48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	3,915.56	28.52
33 05 63 00-0348 EA 48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	6,042.54	28.52

33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)

33 05 63 00-0350 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	123.70	9.47



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0351	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	130.76	9.47	
33 05 63 00-0352	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	133.06	9.46	
33 05 63 00-0353	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	133.93	9.46	
33 05 63 00-0354	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	154.63	9.46	
33 05 63 00-0355	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	98.63	9.46	
33 05 63 00-0356	EA	11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	138.89	9.46	
33 05 63 00-0357	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	140.18	9.46	
33 05 63 00-0358	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	175.70	9.46	
33 05 63 00-0359	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket.....	134.72	9.46	
33 05 63 00-0360	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket.....	164.68	9.46	
33 05 63 00-0361	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	207.09	9.46	
33 05 63 00-0362	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	286.93	14.19	
33 05 63 00-0363	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	361.18	14.19	
33 05 63 00-0364	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	674.47	42.25	
33 05 63 00-0365	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	82.08	9.47	
33 05 63 00-0366	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	128.55	9.47	
33 05 63 00-0367	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	143.04	9.47	
33 05 63 00-0368	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	136.60	9.47	
33 05 63 00-0369	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	112.47	9.46	
33 05 63 00-0370	EA	11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	177.56	9.46	
33 05 63 00-0371	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	192.61	9.46	
33 05 63 00-0372	EA	13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	250.99	9.46	
33 05 63 00-0373	EA	17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	285.29	9.46	
33 05 63 00-0374	EA	24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	387.39	14.19	
33 05 63 00-0375	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	483.86	14.19	
33 05 63 00-0376	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	887.62	42.25	
33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)					
33 05 63 00-0378	EA	6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	66.09	9.47	
33 05 63 00-0379	EA	7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	78.59	9.47	
33 05 63 00-0380	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	95.42	9.47	
33 05 63 00-0381	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	102.91	9.47	
33 05 63 00-0382	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	102.70	9.46	
33 05 63 00-0383	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	121.87	9.46	
33 05 63 00-0384	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	140.71	9.46	
33 05 63 00-0385	EA	24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	341.40	14.19	
33 05 63 00-0386	EA	30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	638.71	42.25	
33 05 63 00-0387	EA	30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	956.51	28.52	
33 05 63 00-0388	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	834.68	28.52	
33 05 63 00-0389	EA	48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,246.60	28.52	
33 05 63 00-0390	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,203.04	28.52	
33 05 63 00-0391	EA	36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,438.89	28.52	
33 05 63 00-0392	EA	48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,537.97	28.52	
33 05 63 00-0393	EA	48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	2,456.75	28.52	
33 05 63 00-0394	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	88.57	9.46	
33 05 63 00-0395	EA	10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	86.48	9.46	
33 05 63 00-0396	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	127.72	9.46	
33 05 63 00-0397	EA	11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	140.35	9.46	
33 05 63 00-0398	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	158.85	9.46	
33 05 63 00-0399	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	120.79	9.46	
33 05 63 00-0400	EA	18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	134.72	9.46	
33 05 63 00-0401	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	191.08	9.46	
33 05 63 00-0402	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	276.39	14.19	
33 05 63 00-0403	EA	20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	345.29	14.19	
33 05 63 00-0404	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	341.20	14.19	
33 05 63 00-0405	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	615.94	22.18	
33 05 63 00-0406	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	638.71	25.35	
33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)					
33 05 63 00-0408	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	995.76	28.52	
33 05 63 00-0409	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,440.34	28.52	
33 05 63 00-0410	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	835.62	42.25	
33 05 63 00-0411	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,107.02	42.25	
33 05 63 00-0412	EA	30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,182.44	28.52	
33 05 63 00-0413	EA	36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,610.32	28.52	
33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)					
33 05 63 00-0415	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	387.52	14.19	
33 05 63 00-0416	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	721.60	22.18	
33 05 63 00-0417	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	754.75	42.25	
33 05 63 00-0418	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	62.61	9.47	
33 05 63 00-0419	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	103.57	9.47	
33 05 63 00-0420	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	113.93	9.47	
33 05 63 00-0421	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	120.79	9.47	
33 05 63 00-0422	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	106.02	9.46	

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0423	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	186.50	9.46
33 05 63 00-0424	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	519.10	14.19
33 05 63 00-0425	EA	36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	958.90	22.18
33 05 63 00-0426	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	1,005.14	42.25
33 05 63 00-0427		Precast Concrete Handholes With Steel Cover (33 05 63 00-0068) Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428	EA	12" x 12" x 12" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	704.75	230.93
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429	EA	12" x 24" x 21" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,156.16	346.39
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	103.61	
33 05 63 00-0430	EA	18" x 30" x 18" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,429.93	461.87
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	180.59	
33 05 63 00-0431	EA	24" x 24" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,473.15	461.87
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	227.66	
33 05 63 00-0432	EA	24" x 24" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,755.10	577.33
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	273.66	
33 05 63 00-0433	EA	30" x 36" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,827.41	577.33
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	302.09	
33 05 63 00-0434	EA	36" x 36" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,129.13	692.79
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	352.53	
33 05 63 00-0435	EA	48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,453.21	808.26
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	496.33	
33 05 63 00-0436	EA	48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,342.22	692.79
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	541.85	
33 05 63 00-0437	EA	54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,360.55	692.79
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	371.65	
33 05 63 00-0438	EA	6" Diameter Precast Concrete Handholes With Steel Cover..... Note: 8000 To 12000 pound traffic rated top.	587.49	230.93
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0439	EA	9" Diameter Precast Concrete Handholes With Steel Cover..... Note: 8000 To 12000 pound traffic rated top.	683.83	259.80
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0440	EA	12" Diameter Precast Concrete Handholes With Steel Cover..... Note: 8000 To 12000 pound traffic rated top.	818.77	288.66
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 81 Metallic Castings for Utility Structures (33 05)				
33 05 81 00-0001		Manhole Accessories (33 05 81)		
33 05 81 00-0002		Steps For Cast-In-Place Manholes (33 05 81 00-0001) See CSI section 33 01 30 81-0032 for installation of steps in existing manholes.		
33 05 81 00-0003	EA	Cast Iron Manhole Step For New Manholes	85.79	
33 05 81 00-0004	EA	Galvanized Steel Manhole Step For New Manholes.....	58.35	
33 05 81 00-0005	EA	Aluminum Manhole Step For New Manholes.....	67.09	
33 05 81 00-0006		Manhole Covers And Frames (33 05 81) Note: Includes moisture-tight masonry joints and waterproof grouting.		
33 05 81 00-0007		Regular Manhole Covers And Frames (33 05 81 00-0006)		
33 05 81 00-0008	EA	18" Square, Gray Iron, Manhole Cover With Frame For Ductile Iron Castings, Add	1,083.36 583.73	82.51
33 05 81 00-0009	EA	18" Diameter, Gray Iron, Manhole Cover With Frame..... For Ductile Iron Castings, Add	654.23 283.34	82.51
33 05 81 00-0010	EA	24" Diameter, Gray Iron, Manhole Cover With Frame..... For Ductile Iron Castings, Add	755.84 327.60	95.95
33 05 81 00-0011	EA	24" Square, Gray Iron, Manhole Cover With Frame For Ductile Iron Castings, Add	1,132.98 569.21	106.50
33 05 81 00-0012	EA	26" Diameter, Gray Iron, Manhole Cover With Frame..... For Ductile Iron Castings, Add	991.86 451.56	115.14
33 05 81 00-0013	EA	30" Diameter, Gray Iron, Manhole Cover With Frame..... For Ductile Iron Castings, Add	1,033.95 471.92	119.93
33 05 81 00-0014		Watertight Type Manhole Covers And Frames (33 05 81 00-0006)		
33 05 81 00-0015	EA	20" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	1,191.99 644.59	68.13
33 05 81 00-0016	EA	22" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	1,217.33 646.70	68.13



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Metallic Castings for Utility Structures	33 05 81	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 81 00-0017 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	1,249.77 650.97	79.64
33 05 81 00-0018 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	1,474.48 789.40	89.23
33 05 81 00-0019 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	1,691.06 931.90	91.15
33 05 81 00-0020 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	1,774.13 986.75	93.07
33 05 81 00-0021 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	1,848.84 1,035.61	95.95
33 05 81 00-0022 Aluminum Manhole Covers And Frames (33 05 81 00-0006)		
33 05 81 00-0023 EA 12" Square Aluminum Manhole Cover With Frame	765.82	29.37
33 05 81 00-0024 EA 18" Square Aluminum Manhole Cover With Frame	1,378.40	32.51
33 05 81 00-0025 EA 24" Square Aluminum Manhole Cover With Frame	1,966.68	37.75
33 05 81 00-0026 Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006) Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 81 00-0027 EA Removal And Reinstallation Of Manhole Cover And Frame	384.68	
33 05 83 Non-Metallic Accessories for Utility Structures (33 05)		
33 05 83 00-0001 Manhole Accessories (33 05 83)		
33 05 83 00-0002 Steps For Cast-In-Place Manholes (33 05 83 00-0001) See CSI section 33 01 30 81-0032 for installation of steps in existing manholes.		
33 05 83 00-0003 EA Polypropylene Manhole Step For New Manholes	45.32	
33 05 83 00-0004 Rainguard Inflow Protectors (33 05 83)		
33 05 83 00-0005 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	119.57	20.21
33 05 83 00-0006 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	138.54	20.21
33 05 83 00-0007 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	165.65	24.26
33 05 83 00-0008 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	177.64	24.26
33 05 83 00-0009 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	220.52	28.30
33 05 83 00-0010 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	235.24	28.30
33 05 84 Accessories for Utility Structures (33 05) See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 05 84 00-0001 Manhole Accessories (33 05 84)		
33 05 84 00-0002 Precast Concrete Manhole Tops (33 05 84 00-0001)		
33 05 84 00-0003 Precast Concrete Manhole Slab Tops (33 05 84 00-0002)		
33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab	553.35	71.96
33 05 84 00-0005 EA 4' Diameter x 8" Thick Precast Manhole Top Slab	783.66	77.72
33 05 84 00-0006 EA 5' Diameter x 8" Thick Precast Manhole Top Slab	1,069.97	83.48
33 05 84 00-0007 EA 6' Diameter x 8" Thick Precast Manhole Top Slab	1,285.68	89.23
33 05 84 00-0008 Precast Concrete Manhole Cone Tops (33 05 84 00-0002)		
33 05 84 00-0009 EA 3' Diameter x 8" Thick Precast Manhole Top Cone	890.84	89.95
33 05 84 00-0010 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone	993.72	93.55
33 05 84 00-0011 EA 4' Diameter x 8" Thick Precast Manhole Top Cone	1,096.65	97.14
33 05 84 00-0012 EA 5' Diameter x 8" Thick Precast Manhole Top Cone	1,297.62	103.14
33 05 84 00-0013 EA 6' Diameter x 8" Thick Precast Manhole Top Cone	1,503.42	110.34
33 05 84 00-0014 EA 7' Diameter x 8" Thick Precast Manhole Top Cone	2,407.10	117.53
33 05 84 00-0015 EA 8' Diameter x 10" Thick Precast Manhole Top Cone	3,030.90	129.53
33 05 84 00-0016 Precast Concrete Manhole Reducer Slabs (33 05 84 00-0002)		
33 05 84 00-0017 EA 5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,034.25	83.48
33 05 84 00-0018 EA 6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,325.59	89.23
33 05 84 00-0019 EA 7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,740.17	89.23
33 05 84 00-0020 EA 8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	2,736.29	89.23
33 05 84 00-0021 EA 10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	3,511.25	89.23
33 05 84 00-0022 EA 12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	5,071.79	89.23
33 05 84 00-0023 Pipe To Manhole Connector (33 05 84 00-0001)		
33 05 84 00-0024 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0023)		
33 05 84 00-0025 EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	110.57	
33 05 84 00-0026 EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	165.14	
33 05 84 00-0027 EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	186.05	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0028 EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	285.06	
33 05 84 00-0029 EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	399.86	
33 05 84 00-0030 EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	527.85	
33 05 84 00-0031 EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	959.25	
33 05 84 00-0032 EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,334.21	
33 05 84 00-0033 EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,114.58	
33 05 84 00-0034 EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,486.80	
33 05 84 00-0035 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout (33 05 84 00-0023) Note: Fernco CMA.		
33 05 84 00-0036 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	98.14	
33 05 84 00-0037 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	136.11	
33 05 84 00-0038 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	171.93	
33 05 84 00-0039 EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	207.58	
33 05 84 00-0040 EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	240.85	
33 05 84 00-0041 Brick And Grout Pipe To Manhole Connector (33 05 84 00-0023)		
33 05 84 00-0042 EA Seal Gap Between Pipe And Structure With Brick And Grout.....	260.94	
33 05 84 00-0043 Inverts For Manholes (33 05 84 00-0001)		
33 05 84 00-0044 EA Single Channel Concrete Invert For Manholes.....	448.81	
33 05 84 00-0045 EA Double Channel Concrete Invert For Manholes.....	642.70	
33 05 84 00-0046 EA Triple Channel Concrete Invert For Manholes.....	867.20	
33 05 84 00-0047 EA Quad Channel Concrete Invert For Manholes.....	1,091.63	
33 05 84 00-0048 EA Single Channel Brick Invert For Manholes.....	611.28	
33 05 84 00-0049 EA Double Channel Brick Invert For Manholes.....	915.28	
33 05 84 00-0050 EA Triple Channel Brick Invert For Manholes.....	1,224.55	
33 05 84 00-0051 EA Quad Channel Brick Invert For Manholes.....	1,530.13	
33 05 84 00-0052 Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0053 Polyurethane Protective Coating For New Manholes (33 05 84 00-0052)		
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	193.55	
For 80 Mil Material, Add	27.32	
For 100 Mil Material, Add	54.65	
For 125 Mil Material, Add	86.10	
For 150 Mil Material, Add	117.56	
For 200 Mil Material, Add	173.27	
For 2 To 5 Manholes, Deduct	-13.28	
For 6 To 10 Manholes, Deduct	-21.71	
For >10 Manholes, Deduct	-43.43	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	233.86	
For 80 Mil Material, Add	32.49	
For 100 Mil Material, Add	64.99	
For 125 Mil Material, Add	102.31	
For 150 Mil Material, Add	139.63	
For 200 Mil Material, Add	205.46	
For 2 To 5 Manholes, Deduct	-16.09	
For 6 To 10 Manholes, Deduct	-26.34	
For >10 Manholes, Deduct	-52.68	
33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior.....	258.07	
For 80 Mil Material, Add	36.43	
For 100 Mil Material, Add	72.86	
For 125 Mil Material, Add	114.80	
For 150 Mil Material, Add	156.74	
For 200 Mil Material, Add	231.02	
For 2 To 5 Manholes, Deduct	-17.70	
For 6 To 10 Manholes, Deduct	-28.95	
For >10 Manholes, Deduct	-57.91	
33 05 84 00-0057 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior.....	322.64	
For 80 Mil Material, Add	45.56	
For 100 Mil Material, Add	91.11	
For 125 Mil Material, Add	143.56	
For 150 Mil Material, Add	196.01	
For 200 Mil Material, Add	288.90	
For 2 To 5 Manholes, Deduct	-22.13	
For 6 To 10 Manholes, Deduct	-36.20	
For >10 Manholes, Deduct	-72.39	
33 05 84 00-0058 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior.....	374.35	
For 80 Mil Material, Add	53.70	
For 100 Mil Material, Add	107.41	
For 125 Mil Material, Add	169.38	
For 150 Mil Material, Add	231.35	
For 200 Mil Material, Add	341.53	
For 2 To 5 Manholes, Deduct	-25.60	
For 6 To 10 Manholes, Deduct	-41.83	
For >10 Manholes, Deduct	-83.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0059 Polyvinyl Chloride (PVC) Liner (33 05 84 00-0052) Note: For new manholes and shop applied.		
33 05 84 00-0060 VLF 3" Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	233.09	
33 05 84 00-0061 VLF 3-1/2" Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	285.73	
33 05 84 00-0062 VLF 4" Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	348.69	
33 05 84 00-0063 VLF 5" Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	437.89	
33 05 84 00-0064 VLF 6" Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	527.08	
33 05 84 00-0065 SF Polyvinyl Chloride (PVC) Liner At Structures	56.94	
33 05 84 00-0066 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0067 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0068 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	83.10	
33 05 84 00-0069 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	91.08	
33 05 84 00-0070 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	99.07	
33 05 84 00-0071 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	107.05	
33 05 84 00-0072 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0073 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	93.35	
33 05 84 00-0074 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	102.42	
33 05 84 00-0075 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	111.49	
33 05 84 00-0076 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	120.57	
33 05 84 00-0077 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0078 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	103.36	
33 05 84 00-0079 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	113.48	
33 05 84 00-0080 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	123.60	
33 05 84 00-0081 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	133.72	
33 05 84 00-0082 Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0083 Bentonite Collar At Manhole Connections (33 05 84 00-0082)		
33 05 84 00-0084 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	162.04	
33 05 84 00-0085 EA >12" To 21", Bentonite Collar At Manhole Connection	257.02	
33 05 84 00-0086 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	410.76	
33 05 84 00-0087 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	964.13	
33 05 84 00-0088 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,480.57	
33 05 84 00-0089 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,681.62	
33 05 84 00-0090 Waste Water Collection System Taps (33 05 84) Note: For tapping existing structures only. Includes grout.		
33 05 84 00-0091 Brick Manhole Taps (33 05 84 00-0090)		
33 05 84 00-0092 EA 4" Tap In 6" Brick Manhole	482.81	
33 05 84 00-0093 EA 6" Tap In 6" Brick Manhole	539.57	
33 05 84 00-0094 EA 8" Tap In 6" Brick Manhole	595.31	
33 05 84 00-0095 EA 10" Tap In 6" Brick Manhole	650.94	
33 05 84 00-0096 EA 12" Tap In 6" Brick Manhole	717.91	
33 05 84 00-0097 EA 15" Tap In 6" Brick Manhole	773.42	
33 05 84 00-0098 Precast Concrete Manhole Tap (33 05 84 00-0090)		
33 05 84 00-0099 EA 4" Tap In Existing Precast Concrete Manhole	707.77	
33 05 84 00-0100 EA 6" Tap In Existing Precast Concrete Manhole	792.90	
33 05 84 00-0101 EA 8" Tap In Existing Precast Concrete Manhole	886.60	
33 05 84 00-0102 EA 10" Tap In Existing Precast Concrete Manhole	970.05	
33 05 84 00-0103 EA 12" Tap In Existing Precast Concrete Manhole	1,053.33	
33 05 84 00-0104 EA 15" Tap In Existing Precast Concrete Manhole	1,138.63	
33 05 84 00-0105 EA 18" Tap In Existing Precast Concrete Manhole	1,310.36	
33 05 84 00-0106 EA 24" Tap In Existing Precast Concrete Manhole	1,684.28	
33 05 97 Identification and Signage for Utilities (33 05)		
33 05 97 16 Markers for Utility Identification (33 05 97)		
33 05 97 16-0001 Reflective Sheeting Delineators (33 05 97 16)		
33 05 97 16-0002 EA Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square	40.55	
33 05 97 16-0003 EA Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square	42.62	
33 05 97 16-0004 EA Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square	46.77	
33 05 97 16-0005 EA Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square	48.85	
33 05 97 16-0006 EA Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square	50.92	
33 05 97 16-0007 EA Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square	45.22	
33 05 97 16-0008 EA Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	41.07	
33 05 97 16-0009 EA Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	43.14	
33 05 97 16-0010 EA Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	43.14	

33 Utilities**33 05 Common Work Results for Utilities****33 05 97 Identification and Signage for Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 97 16-0011 EA Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	45.22	
33 05 97 16-0012 EA Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	47.29	
33 05 97 16-0013 EA Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	49.36	
33 05 97 16-0014 EA Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	68.04	
33 05 97 16-0015 EA Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	48.85	
33 05 97 16-0016 EA Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	70.63	
33 05 97 16-0017 EA Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	68.04	
33 05 97 16-0018 EA Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	70.11	
33 05 97 16-0019 EA Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	70.63	
33 05 97 16-0020 EA Relocate Delineator	54.16	
33 05 97 16-0021 Reference Markers (33 05 97 16)		
33 05 97 16-0022 EA Reference Marker, 4' Mounting Height	86.27	
33 05 97 16-0023 EA Reference Marker, 7' Mounting Height	107.86	
33 05 97 16-0024 EA Reference Marker, Band Or Bracket Mounted	101.56	
33 05 97 16-0025 EA Reference Marker, Furnish Panel Only	92.65	
33 05 97 16-0026 EA Relocate Reference Marker	54.16	
33 05 97 16-0027 Object Markers (33 05 97 16)		
33 05 97 16-0028 EA Object Marker, Type L-1	79.61	
33 05 97 16-0029 EA Object Marker, Type L-2	73.53	
33 05 97 16-0030 EA Object Marker, Type K-1	84.46	
33 05 97 16-0031 EA Object Marker, Type K-2	78.39	
33 05 97 16-0032 EA Object Marker, Type Q	54.10	
33 10 Water Utilities (33)		
33 11 Groundwater Sources (33 10)		
33 11 13 Potable Water Supply Wells (33 11)		
33 11 13 00-0001 Drill And Test Water Well (33 11 13)		
33 11 13 00-0002 Drill Hole (33 11 13 00-0001)		
Note: Excludes loading and hauling of spoils.		
33 11 13 00-0003 Mobilization And Demobilization (33 11 13 00-0002)		
33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization	946.17	
33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization	1,157.65	
33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization	1,736.47	
33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002)		
Note: Excludes well casing, gravel or materials.		
33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	22.43	
For >100 To 250, Add	0.56	
For >250 To 400, Add	1.12	
For >400 To 600, Add	1.68	
For >600 To 750, Add	2.24	
For >750, Add	2.80	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	26.62	
For >100 To 250, Add	0.67	
For >250 To 400, Add	1.33	
For >400 To 600, Add	2.00	
For >600 To 750, Add	2.66	
For >750, Add	3.33	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	35.60	
For >100 To 250, Add	0.89	
For >250 To 400, Add	1.78	
For >400 To 600, Add	2.67	
For >600 To 750, Add	3.56	
For >750, Add	4.45	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	55.71	
For >100 To 250, Add	1.39	
For >250 To 400, Add	2.79	
For >400 To 600, Add	4.18	
For >600 To 750, Add	5.57	
For >750, Add	6.96	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	80.17	
For >100 To 250, Add	2.00	
For >250 To 400, Add	4.01	
For >400 To 600, Add	6.01	
For >600 To 750, Add	8.02	
For >750, Add	10.02	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0013	LF	16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	104.76	
		For >100 To 250, Add	2.62	
		For >250 To 400, Add	5.24	
		For >400 To 600, Add	7.86	
		For >600 To 750, Add	10.48	
		For >750, Add	13.10	
33 11 13 00-0014	LF	18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	124.45	
		For >100 To 250, Add	3.11	
		For >250 To 400, Add	6.22	
		For >400 To 600, Add	9.33	
		For >600 To 750, Add	12.45	
		For >750, Add	15.56	
33 11 13 00-0015	LF	20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	144.71	
		For >100 To 250, Add	3.62	
		For >250 To 400, Add	7.24	
		For >400 To 600, Add	10.85	
		For >600 To 750, Add	14.47	
		For >750, Add	18.09	
33 11 13 00-0016	LF	22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	170.03	
		For >100 To 250, Add	4.25	
		For >250 To 400, Add	8.50	
		For >400 To 600, Add	12.75	
		For >600 To 750, Add	17.00	
		For >750, Add	21.25	
33 11 13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	200.41	
		For >100 To 250, Add	5.01	
		For >250 To 400, Add	10.02	
		For >400 To 600, Add	15.03	
		For >600 To 750, Add	20.04	
		For >750, Add	25.05	
33 11 13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	216.63	
		For >100 To 250, Add	5.42	
		For >250 To 400, Add	10.83	
		For >400 To 600, Add	16.25	
		For >600 To 750, Add	21.66	
		For >750, Add	27.08	
33 11 13 00-0019	LF	28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	238.33	
		For >100 To 250, Add	5.96	
		For >250 To 400, Add	11.92	
		For >400 To 600, Add	17.87	
		For >600 To 750, Add	23.83	
		For >750, Add	29.79	
33 11 13 00-0020	LF	30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	261.05	
		For >100 To 250, Add	6.53	
		For >250 To 400, Add	13.05	
		For >400 To 600, Add	19.58	
		For >600 To 750, Add	26.11	
		For >750, Add	32.63	
33 11 13 00-0021	LF	36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	324.72	
		For >100 To 250, Add	8.12	
		For >250 To 400, Add	16.24	
		For >400 To 600, Add	24.35	
		For >600 To 750, Add	32.47	
		For >750, Add	40.59	
33 11 13 00-0022		Drill Hole In Sedimentary Rock (33 11 13 00-0002)		
33 11 13 00-0023	LF	6" Water Well Hole Drilled In Sedimentary Rock	45.73	
		For >100 To 250, Add	1.14	
		For >250 To 400, Add	2.29	
		For >400 To 600, Add	3.43	
		For >600 To 750, Add	4.57	
		For >750, Add	5.72	
33 11 13 00-0024	LF	8" Water Well Hole Drilled In Sedimentary Rock	53.25	
		For >100 To 250, Add	1.33	
		For >250 To 400, Add	2.66	
		For >400 To 600, Add	3.99	
		For >600 To 750, Add	5.33	
		For >750, Add	6.66	
33 11 13 00-0025	LF	10" Water Well Hole Drilled In Sedimentary Rock	85.26	
		For >100 To 250, Add	2.13	
		For >250 To 400, Add	4.26	
		For >400 To 600, Add	6.39	
		For >600 To 750, Add	8.53	
		For >750, Add	10.66	
33 11 13 00-0026	LF	12" Water Well Hole Drilled In Sedimentary Rock	111.48	
		For >100 To 250, Add	2.79	
		For >250 To 400, Add	5.57	
		For >400 To 600, Add	8.36	
		For >600 To 750, Add	11.15	
		For >750, Add	13.94	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock	160.45	
For >100 To 250, Add	4.01	
For >250 To 400, Add	8.02	
For >400 To 600, Add	12.03	
For >600 To 750, Add	16.05	
For >750, Add	20.06	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock	209.42	
For >100 To 250, Add	5.24	
For >250 To 400, Add	10.47	
For >400 To 600, Add	15.71	
For >600 To 750, Add	20.94	
For >750, Add	26.18	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock	249.01	
For >100 To 250, Add	6.23	
For >250 To 400, Add	12.45	
For >400 To 600, Add	18.68	
For >600 To 750, Add	24.90	
For >750, Add	31.13	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock	288.94	
For >100 To 250, Add	7.22	
For >250 To 400, Add	14.45	
For >400 To 600, Add	21.67	
For >600 To 750, Add	28.89	
For >750, Add	36.12	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock	340.34	
For >100 To 250, Add	8.51	
For >250 To 400, Add	17.02	
For >400 To 600, Add	25.53	
For >600 To 750, Add	34.03	
For >750, Add	42.54	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock	393.14	
For >100 To 250, Add	9.83	
For >250 To 400, Add	19.66	
For >400 To 600, Add	29.49	
For >600 To 750, Add	39.31	
For >750, Add	49.14	
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock	433.25	
For >100 To 250, Add	10.83	
For >250 To 400, Add	21.66	
For >400 To 600, Add	32.49	
For >600 To 750, Add	43.33	
For >750, Add	54.16	
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock	476.66	
For >100 To 250, Add	11.92	
For >250 To 400, Add	23.83	
For >400 To 600, Add	35.75	
For >600 To 750, Add	47.67	
For >750, Add	59.58	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock	522.10	
For >100 To 250, Add	13.05	
For >250 To 400, Add	26.11	
For >400 To 600, Add	39.16	
For >600 To 750, Add	52.21	
For >750, Add	65.26	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock	649.44	
For >100 To 250, Add	16.24	
For >250 To 400, Add	32.47	
For >400 To 600, Add	48.71	
For >600 To 750, Add	64.94	
For >750, Add	81.18	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)		
33 11 13 00-0038 LF 6" Water Well Hole Drilled In Crystalline Rock	94.06	
For >100 To 250, Add	2.35	
For >250 To 400, Add	4.70	
For >400 To 600, Add	7.05	
For >600 To 750, Add	9.41	
For >750, Add	11.76	
33 11 13 00-0039 LF 8" Water Well Hole Drilled In Crystalline Rock	108.53	
For >100 To 250, Add	2.71	
For >250 To 400, Add	5.43	
For >400 To 600, Add	8.14	
For >600 To 750, Add	10.85	
For >750, Add	13.57	
33 11 13 00-0040 LF 10" Water Well Hole Drilled In Crystalline Rock	124.45	
For >100 To 250, Add	3.11	
For >250 To 400, Add	6.22	
For >400 To 600, Add	9.33	
For >600 To 750, Add	12.45	
For >750, Add	15.56	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0041 LF 12" Water Well Hole Drilled In Crystalline Rock.....	157.73	
For >100 To 250, Add	3.94	
For >250 To 400, Add	7.89	
For >400 To 600, Add	11.83	
For >600 To 750, Add	15.77	
For >750, Add	19.72	
33 11 13 00-0042 LF 14" Water Well Hole Drilled In Crystalline Rock.....	204.04	
For >100 To 250, Add	5.10	
For >250 To 400, Add	10.20	
For >400 To 600, Add	15.30	
For >600 To 750, Add	20.40	
For >750, Add	25.51	
33 11 13 00-0043 LF 16" Water Well Hole Drilled In Crystalline Rock.....	296.65	
For >100 To 250, Add	7.42	
For >250 To 400, Add	14.83	
For >400 To 600, Add	22.25	
For >600 To 750, Add	29.67	
For >750, Add	37.08	
33 11 13 00-0044 LF 18" Water Well Hole Drilled In Crystalline Rock.....	353.08	
For >100 To 250, Add	8.83	
For >250 To 400, Add	17.65	
For >400 To 600, Add	26.48	
For >600 To 750, Add	35.31	
For >750, Add	44.14	
33 11 13 00-0045 LF 20" Water Well Hole Drilled In Crystalline Rock.....	409.52	
For >100 To 250, Add	10.24	
For >250 To 400, Add	20.48	
For >400 To 600, Add	30.71	
For >600 To 750, Add	40.95	
For >750, Add	51.19	
33 11 13 00-0046 LF 22" Water Well Hole Drilled In Crystalline Rock.....	481.87	
For >100 To 250, Add	12.05	
For >250 To 400, Add	24.09	
For >400 To 600, Add	36.14	
For >600 To 750, Add	48.19	
For >750, Add	60.23	
33 11 13 00-0047 LF 24" Water Well Hole Drilled In Crystalline Rock.....	557.12	
For >100 To 250, Add	13.93	
For >250 To 400, Add	27.86	
For >400 To 600, Add	41.78	
For >600 To 750, Add	55.71	
For >750, Add	69.64	
33 11 13 00-0048 Furnish And Install Casing (33 11 13 00-0001)		
Note: Excludes drilling of hole.		
33 11 13 00-0049 Steel Well Casing (33 11 13 00-0048)		
33 11 13 00-0050 LF 6" Diameter, Steel Well Casing, Flush.....	37.50	
For >100 To 250, Deduct	-1.13	
For >250 To 400, Deduct	-2.07	
For >400 To 600, Deduct	-3.11	
For >600 To 750, Deduct	-4.14	
For >750, Deduct	-5.44	
33 11 13 00-0051 LF 8" Diameter, Steel Well Casing, Flush.....	46.63	
For >100 To 250, Deduct	-1.41	
For >250 To 400, Deduct	-2.58	
For >400 To 600, Deduct	-3.87	
For >600 To 750, Deduct	-5.16	
For >750, Deduct	-6.76	
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush.....	68.90	
For >100 To 250, Deduct	-2.02	
For >250 To 400, Deduct	-3.74	
For >400 To 600, Deduct	-5.61	
For >600 To 750, Deduct	-7.48	
For >750, Deduct	-9.74	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush.....	115.33	
For >100 To 250, Deduct	-3.24	
For >250 To 400, Deduct	-6.12	
For >400 To 600, Deduct	-9.18	
For >600 To 750, Deduct	-12.24	
For >750, Deduct	-15.76	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush.....	129.54	
For >100 To 250, Deduct	-3.73	
For >250 To 400, Deduct	-6.97	
For >400 To 600, Deduct	-10.45	
For >600 To 750, Deduct	-13.94	
For >750, Deduct	-18.06	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush.....	152.15	
For >100 To 250, Deduct	-4.41	
For >250 To 400, Deduct	-8.22	
For >400 To 600, Deduct	-12.33	
For >600 To 750, Deduct	-16.44	
For >750, Deduct	-21.34	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush	173.75	
For >100 To 250, Deduct	-5.11	
For >250 To 400, Deduct	-9.46	
For >400 To 600, Deduct	-14.18	
For >600 To 750, Deduct	-18.91	
For >750, Deduct	-24.64	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush	198.22	
For >100 To 250, Deduct	-5.90	
For >250 To 400, Deduct	-10.86	
For >400 To 600, Deduct	-16.29	
For >600 To 750, Deduct	-21.71	
For >750, Deduct	-28.37	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush	231.59	
For >100 To 250, Deduct	-6.85	
For >250 To 400, Deduct	-12.64	
For >400 To 600, Deduct	-18.97	
For >600 To 750, Deduct	-25.29	
For >750, Deduct	-32.99	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install	1.24	
For >100 To 250, Deduct	-0.04	
For >250 To 400, Deduct	-0.08	
For >400 To 600, Deduct	-0.11	
For >600 To 750, Deduct	-0.15	
For >750, Deduct	-0.21	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush	78.51	
For >100 To 250, Deduct	-2.16	
For >250 To 400, Deduct	-4.12	
For >400 To 600, Deduct	-6.18	
For >600 To 750, Deduct	-8.25	
For >750, Deduct	-10.56	
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush	118.00	
For >100 To 250, Deduct	-3.20	
For >250 To 400, Deduct	-6.15	
For >400 To 600, Deduct	-9.22	
For >600 To 750, Deduct	-12.29	
For >750, Deduct	-15.69	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush	164.91	
For >100 To 250, Deduct	-4.44	
For >250 To 400, Deduct	-8.56	
For >400 To 600, Deduct	-12.84	
For >600 To 750, Deduct	-17.12	
For >750, Deduct	-21.81	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush	191.77	
For >100 To 250, Deduct	-5.17	
For >250 To 400, Deduct	-9.96	
For >400 To 600, Deduct	-14.94	
For >600 To 750, Deduct	-19.93	
For >750, Deduct	-25.39	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded	174.36	
For >100 To 250, Deduct	-4.91	
For >250 To 400, Deduct	-9.27	
For >400 To 600, Deduct	-13.90	
For >600 To 750, Deduct	-18.54	
For >750, Deduct	-23.89	
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded	202.02	
For >100 To 250, Deduct	-5.68	
For >250 To 400, Deduct	-10.73	
For >400 To 600, Deduct	-16.10	
For >600 To 750, Deduct	-21.46	
For >750, Deduct	-27.65	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded	242.86	
For >100 To 250, Deduct	-6.78	
For >250 To 400, Deduct	-12.85	
For >400 To 600, Deduct	-19.28	
For >600 To 750, Deduct	-25.70	
For >750, Deduct	-33.05	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded	278.10	
For >100 To 250, Deduct	-7.76	
For >250 To 400, Deduct	-14.71	
For >400 To 600, Deduct	-22.07	
For >600 To 750, Deduct	-29.43	
For >750, Deduct	-37.83	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded	307.02	
For >100 To 250, Deduct	-8.60	
For >250 To 400, Deduct	-16.28	
For >400 To 600, Deduct	-24.42	
For >600 To 750, Deduct	-32.55	
For >750, Deduct	-41.90	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0071	LF	20" Diameter, Stainless Steel Well Casing, Welded	402.51	
		For >100 To 250, Deduct	-11.17	
		For >250 To 400, Deduct	-21.23	
		For >400 To 600, Deduct	-31.84	
		For >600 To 750, Deduct	-42.46	
		For >750, Deduct	-54.51	
33 11 13 00-0072	LF	24" Diameter, Stainless Steel Well Casing, Welded	530.46	
		For >100 To 250, Deduct	-14.64	
		For >250 To 400, Deduct	-27.90	
		For >400 To 600, Deduct	-41.85	
		For >600 To 750, Deduct	-55.80	
		For >750, Deduct	-71.55	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 (33 11 13 00-0048)				
33 11 13 00-0074	LF	6" Polyvinyl Chloride (PVC) Well Casing	57.23	
		For >100 To 250, Deduct	-1.59	
		For >250 To 400, Deduct	-3.02	
		For >400 To 600, Deduct	-4.53	
		For >600 To 750, Deduct	-6.04	
		For >750, Deduct	-7.75	
33 11 13 00-0075	LF	8" Polyvinyl Chloride (PVC) Well Casing	90.96	
		For >100 To 250, Deduct	-2.52	
		For >250 To 400, Deduct	-4.79	
		For >400 To 600, Deduct	-7.19	
		For >600 To 750, Deduct	-9.59	
		For >750, Deduct	-12.31	
33 11 13 00-0076	LF	10" Polyvinyl Chloride (PVC) Well Casing	137.43	
		For >100 To 250, Deduct	-3.81	
		For >250 To 400, Deduct	-7.25	
		For >400 To 600, Deduct	-10.87	
		For >600 To 750, Deduct	-14.49	
		For >750, Deduct	-18.60	
33 11 13 00-0077	LF	12" Polyvinyl Chloride (PVC) Well Casing	161.95	
		For >100 To 250, Deduct	-4.50	
		For >250 To 400, Deduct	-8.55	
		For >400 To 600, Deduct	-12.83	
		For >600 To 750, Deduct	-17.10	
		For >750, Deduct	-21.97	
33 11 13 00-0078 Furnish And Install Well Screen Assembly (33 11 13 00-0001)				
33 11 13 00-0079 Stainless Steel Well Screen (33 11 13 00-0078)				
33 11 13 00-0080	LF	2" Stainless Steel Well Screen	24.07	1.58
		For >100 To 250, Deduct	-0.80	
		For >250 To 400, Deduct	-1.41	
		For >400 To 600, Deduct	-2.11	
		For >600 To 750, Deduct	-2.81	
		For >750, Deduct	-3.78	
33 11 13 00-0081	LF	3" Stainless Steel Well Screen	38.49	1.58
		For >100 To 250, Deduct	-1.18	
		For >250 To 400, Deduct	-2.14	
		For >400 To 600, Deduct	-3.21	
		For >600 To 750, Deduct	-4.29	
		For >750, Deduct	-5.64	
33 11 13 00-0082	LF	4" Stainless Steel Well Screen	48.34	2.36
		For >100 To 250, Deduct	-1.48	
		For >250 To 400, Deduct	-2.69	
		For >400 To 600, Deduct	-4.04	
		For >600 To 750, Deduct	-5.39	
		For >750, Deduct	-7.09	
33 11 13 00-0083	LF	5" Stainless Steel Well Screen	61.17	2.36
		For >100 To 250, Deduct	-1.86	
		For >250 To 400, Deduct	-3.39	
		For >400 To 600, Deduct	-5.08	
		For >600 To 750, Deduct	-6.77	
		For >750, Deduct	-8.89	
33 11 13 00-0084	LF	6" Stainless Steel Well Screen	73.24	3.15
		For >100 To 250, Deduct	-2.27	
		For >250 To 400, Deduct	-4.10	
		For >400 To 600, Deduct	-6.15	
		For >600 To 750, Deduct	-8.20	
		For >750, Deduct	-10.82	
33 11 13 00-0085	LF	8" Stainless Steel Well Screen	95.62	3.94
		For >100 To 250, Deduct	-2.95	
		For >250 To 400, Deduct	-5.34	
		For >400 To 600, Deduct	-8.01	
		For >600 To 750, Deduct	-10.68	
		For >750, Deduct	-14.08	
33 11 13 00-0086	LF	10" Stainless Steel Well Screen.....	121.21	6.31
		For >100 To 250, Deduct	-3.79	
		For >250 To 400, Deduct	-6.82	
		For >400 To 600, Deduct	-10.22	
		For >600 To 750, Deduct	-13.63	
		For >750, Deduct	-18.02	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	142.22	7.88
For >100 To 250, Deduct	-4.44	
For >250 To 400, Deduct	-7.99	
For >400 To 600, Deduct	-11.99	
For >600 To 750, Deduct	-15.99	
For >750, Deduct	-21.13	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	156.00	8.67
For >100 To 250, Deduct	-4.92	
For >250 To 400, Deduct	-8.82	
For >400 To 600, Deduct	-13.22	
For >600 To 750, Deduct	-17.63	
For >750, Deduct	-23.36	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	168.74	10.24
For >100 To 250, Deduct	-5.36	
For >250 To 400, Deduct	-9.58	
For >400 To 600, Deduct	-14.37	
For >600 To 750, Deduct	-19.16	
For >750, Deduct	-25.43	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	202.44	11.82
For >100 To 250, Deduct	-6.47	
For >250 To 400, Deduct	-11.53	
For >400 To 600, Deduct	-17.29	
For >600 To 750, Deduct	-23.06	
For >750, Deduct	-30.65	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	255.34	14.97
For >100 To 250, Deduct	-8.15	
For >250 To 400, Deduct	-14.54	
For >400 To 600, Deduct	-21.80	
For >600 To 750, Deduct	-29.07	
For >750, Deduct	-38.64	
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	331.16	19.70
For >100 To 250, Deduct	-10.60	
For >250 To 400, Deduct	-18.88	
For >400 To 600, Deduct	-28.31	
For >600 To 750, Deduct	-37.75	
For >750, Deduct	-50.20	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	382.00	22.86
For >100 To 250, Deduct	-12.18	
For >250 To 400, Deduct	-21.73	
For >400 To 600, Deduct	-32.59	
For >600 To 750, Deduct	-43.45	
For >750, Deduct	-57.73	
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 (33 11 13 00-0078)		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	16.18	
For >100 To 250, Deduct	-0.56	
For >250 To 400, Deduct	-0.96	
For >400 To 600, Deduct	-1.44	
For >600 To 750, Deduct	-1.92	
For >750, Deduct	-2.60	
For Schedule 80, Add	4.05	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	18.63	
For >100 To 250, Deduct	-0.63	
For >250 To 400, Deduct	-1.09	
For >400 To 600, Deduct	-1.64	
For >600 To 750, Deduct	-2.19	
For >750, Deduct	-2.94	
For Schedule 80, Add	4.86	
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	25.74	
For >100 To 250, Deduct	-0.93	
For >250 To 400, Deduct	-1.58	
For >400 To 600, Deduct	-2.36	
For >600 To 750, Deduct	-3.15	
For >750, Deduct	-4.31	
For Schedule 80, Add	5.68	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	38.82	
For >100 To 250, Deduct	-1.28	
For >250 To 400, Deduct	-2.25	
For >400 To 600, Deduct	-3.38	
For >600 To 750, Deduct	-4.51	
For >750, Deduct	-6.04	
For Schedule 80, Add	10.54	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	48.80	
For >100 To 250, Deduct	-1.61	
For >250 To 400, Deduct	-2.83	
For >400 To 600, Deduct	-4.25	
For >600 To 750, Deduct	-5.67	
For >750, Deduct	-7.60	
For Schedule 80, Add	13.21	



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		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0100	LF	5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	61.34	
		For >100 To 250, Deduct	-2.00	
		For >250 To 400, Deduct	-3.54	
		For >400 To 600, Deduct	-5.30	
		For >600 To 750, Deduct	-7.07	
		For >750, Deduct	-9.45	
		For Schedule 80, Add	17.02	
33 11 13 00-0101	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	66.57	
		For >100 To 250, Deduct	-2.29	
		For >250 To 400, Deduct	-3.95	
		For >400 To 600, Deduct	-5.93	
		For >600 To 750, Deduct	-7.91	
		For >750, Deduct	-10.70	
		For Schedule 80, Add	16.62	
33 11 13 00-0102	LF	8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	96.87	
		For >100 To 250, Deduct	-3.22	
		For >250 To 400, Deduct	-5.64	
		For >400 To 600, Deduct	-8.47	
		For >600 To 750, Deduct	-11.29	
		For >750, Deduct	-15.15	
		For Schedule 80, Add	25.94	
33 11 13 00-0103		Furnish And Install Gravel Pack Material (33 11 13 00-0001)		
		Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104		Artificial Gravel Pack (33 11 13 00-0103)		
		Note: Excludes casing.		
33 11 13 00-0105	LF	Artificial Gravel Pack, 6" Casing, 2" Screen.....	21.79	
		For >100 To 250, Deduct	-0.77	
		For >250 To 400, Deduct	-1.32	
		For >400 To 600, Deduct	-1.97	
		For >600 To 750, Deduct	-2.63	
		For >750, Deduct	-3.59	
33 11 13 00-0106	LF	Artificial Gravel Pack, 8" Casing, 2" Screen.....	31.59	
		For >100 To 250, Deduct	-1.15	
		For >250 To 400, Deduct	-1.94	
		For >400 To 600, Deduct	-2.90	
		For >600 To 750, Deduct	-3.87	
		For >750, Deduct	-5.30	
33 11 13 00-0107	LF	Artificial Gravel Pack, 10" Casing, 2" Screen.....	43.04	
		For >100 To 250, Deduct	-1.61	
		For >250 To 400, Deduct	-2.68	
		For >400 To 600, Deduct	-4.02	
		For >600 To 750, Deduct	-5.36	
		For >750, Deduct	-7.39	
33 11 13 00-0108	LF	Artificial Gravel Pack, 12" Casing, 2" Screen.....	55.77	
		For >100 To 250, Deduct	-2.05	
		For >250 To 400, Deduct	-3.45	
		For >400 To 600, Deduct	-5.17	
		For >600 To 750, Deduct	-6.89	
		For >750, Deduct	-9.47	
33 11 13 00-0109	LF	Artificial Gravel Pack, 14" Casing, 2" Screen.....	69.46	
		For >100 To 250, Deduct	-2.52	
		For >250 To 400, Deduct	-4.26	
		For >400 To 600, Deduct	-6.39	
		For >600 To 750, Deduct	-8.52	
		For >750, Deduct	-11.67	
33 11 13 00-0110	LF	Artificial Gravel Pack, 16" Casing, 2" Screen.....	91.26	
		For >100 To 250, Deduct	-3.25	
		For >250 To 400, Deduct	-5.53	
		For >400 To 600, Deduct	-8.30	
		For >600 To 750, Deduct	-11.06	
		For >750, Deduct	-15.09	
33 11 13 00-0111	LF	Artificial Gravel Pack, 18" Casing, 2" Screen.....	105.07	
		For >100 To 250, Deduct	-3.72	
		For >250 To 400, Deduct	-6.35	
		For >400 To 600, Deduct	-9.52	
		For >600 To 750, Deduct	-12.70	
		For >750, Deduct	-17.30	
33 11 13 00-0112	LF	Artificial Gravel Pack, 20" Casing, 2" Screen.....	123.81	
		For >100 To 250, Deduct	-4.43	
		For >250 To 400, Deduct	-7.53	
		For >400 To 600, Deduct	-11.29	
		For >600 To 750, Deduct	-15.05	
		For >750, Deduct	-20.56	
33 11 13 00-0113	LF	Artificial Gravel Pack, 24" Casing, 2" Screen.....	139.46	
		For >100 To 250, Deduct	-5.02	
		For >250 To 400, Deduct	-8.51	
		For >400 To 600, Deduct	-12.76	
		For >600 To 750, Deduct	-17.02	
		For >750, Deduct	-23.26	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	151.63	
For >100 To 250, Deduct	-5.39	
For >250 To 400, Deduct	-9.18	
For >400 To 600, Deduct	-13.78	
For >600 To 750, Deduct	-18.37	
For >750, Deduct	-25.05	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	179.16	
For >100 To 250, Deduct	-6.45	
For >250 To 400, Deduct	-10.93	
For >400 To 600, Deduct	-16.39	
For >600 To 750, Deduct	-21.86	
For >750, Deduct	-29.89	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	203.88	
For >100 To 250, Deduct	-7.50	
For >250 To 400, Deduct	-12.60	
For >400 To 600, Deduct	-18.90	
For >600 To 750, Deduct	-25.20	
For >750, Deduct	-34.62	
33 11 13 00-0117 Develop Well (33 11 13 00-0001)		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	375.84	
33 11 13 00-0119 Pump Test (33 11 13 00-0001)		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well.....	334.17	
33 11 13 00-0121 Test Well (33 11 13 00-0001)		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well	94.69	
33 11 13 00-0123 Surface Seal, Concrete Filled (33 11 13)		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled	34.33	
33 11 13 00-0125 Other Water Well (33 11 13)		
33 11 13 00-0126 SF Patch Hole In Well Casing	84.49	
33 11 13 00-0127 SF 1/2" Pressure Grout Well	2.72	
33 11 13 00-0128 SF 1" Pressure Grout Well	4.56	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	4.93	
33 11 13 00-0130 Sterilization Of Well (33 11 13)		
33 11 13 00-0131 EA Well Sterilization, Chlorine	1,590.12	
33 14 Water Utility Transmission and Distribution (33 10)		
33 14 11 Water Utility Transmission Piping (33 14)		
See CSI section 33 14 13 00-0000 for water utility transmission piping.		
33 14 13 Public Water Utility Distribution Piping (33 14)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)		
33 14 13 13-0001 Ductile Iron Piping (33 14 13 13)		
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)		
Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0500 for bolts and gaskets.		
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe	36.98	12.86
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	12.27	
For Cement Mortar Lining (CML), Add	1.75	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	9.47	
For Fusion Bonded Epoxy Lining (206N), Add	3.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.31	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.85	
For Class 52, Add	5.66	
For Class 53, Add	10.12	
For Class 54, Add	14.41	
For Class 55, Add	16.62	
For Class 56, Add	18.79	



	Utilities	33	
	Water Utilities	33 10	CS
	Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe.....	39.99	13.68
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.48	
For Cement Mortar Lining (CML), Add	1.93	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.40	
For Fusion Bonded Epoxy Lining (206N), Add	3.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.44	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.00	
For Class 51, Add	2.88	
For Class 52, Add	6.20	
For Class 53, Add	11.10	
For Class 54, Add	15.80	
For Class 55, Add	18.22	
For Class 56, Add	20.59	
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	42.63	14.36
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	14.64	
For Cement Mortar Lining (CML), Add	2.09	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	11.29	
For Fusion Bonded Epoxy Lining (206N), Add	3.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.57	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.13	
For Class 51, Add	3.12	
For Class 52, Add	6.71	
For Class 53, Add	12.02	
For Class 54, Add	17.11	
For Class 55, Add	19.73	
For Class 56, Add	22.30	
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	49.37	14.93
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	18.73	
For Cement Mortar Lining (CML), Add	2.68	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	14.45	
For Fusion Bonded Epoxy Lining (206N), Add	4.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.01	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.47	
For Class 51, Add	3.93	
For Class 52, Add	8.46	
For Class 53, Add	15.18	
For Class 54, Add	21.63	
For Class 55, Add	24.91	
For Class 56, Add	28.14	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	67.43	21.54
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.88	
For Cement Mortar Lining (CML), Add	3.48	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.40	
For Fusion Bonded Epoxy Lining (206N), Add	6.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.61	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.37	
For Class 51, Add	5.15	
For Class 52, Add	11.09	
For Class 53, Add	19.87	
For Class 54, Add	28.30	
For Class 55, Add	32.61	
For Class 56, Add	36.85	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	80.70	23.93
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	22.22	
For Cement Mortar Lining (CML), Add	4.44	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.78	
For Fusion Bonded Epoxy Lining (206N), Add	8.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.33	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.04	
For Class 51, Add	6.51	
For Class 52, Add	14.02	
For Class 53, Add	25.18	
For Class 54, Add	35.87	
For Class 55, Add	41.31	
For Class 56, Add	46.65	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	95.90	26.87
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.25	
For Cement Mortar Lining (CML), Add	5.51	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.74	
For Fusion Bonded Epoxy Lining (206N), Add	9.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.13	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.80	
For Class 51, Add	8.02	
For Class 52, Add	17.28	
For Class 53, Add	31.06	
For Class 54, Add	44.28	
For Class 55, Add	50.96	
For Class 56, Add	57.54	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	108.41	30.78
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.33	
For Cement Mortar Lining (CML), Add	6.18	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	19.15	
For Fusion Bonded Epoxy Lining (206N), Add	11.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.63	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.42	
For Class 51, Add	9.00	
For Class 52, Add	19.40	
For Class 53, Add	34.86	
For Class 54, Add	49.69	
For Class 55, Add	57.20	
For Class 56, Add	64.58	
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	133.62	35.89
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	32.49	
For Cement Mortar Lining (CML), Add	7.92	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	24.56	
For Fusion Bonded Epoxy Lining (206N), Add	14.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.94	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.68	
For Class 51, Add	11.48	
For Class 52, Add	24.74	
For Class 53, Add	44.50	
For Class 54, Add	63.45	
For Class 55, Add	73.01	
For Class 56, Add	82.41	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	152.52	43.07
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	33.16	
For Cement Mortar Lining (CML), Add	8.73	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	24.43	
For Fusion Bonded Epoxy Lining (206N), Add	15.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.54	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.63	
For Class 51, Add	12.71	
For Class 52, Add	27.38	
For Class 53, Add	49.21	
For Class 54, Add	70.14	
For Class 55, Add	80.74	
For Class 56, Add	91.15	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	198.69	53.84
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	36.30	
For Cement Mortar Lining (CML), Add	11.71	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	24.59	
For Fusion Bonded Epoxy Lining (206N), Add	21.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.78	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.93	
For Class 51, Add	16.98	
For Class 52, Add	36.60	
For Class 53, Add	65.82	
For Class 54, Add	93.83	
For Class 55, Add	107.98	
For Class 56, Add	121.88	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	252.17 51.20 16.52 29.73 12.39 -12.61 23.60 50.91 91.77 130.92 150.52 169.78	57.97
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	298.96 64.02 20.65 37.17 15.49 -14.95 29.30 63.25 114.14 162.89 187.20 211.07	61.56
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	363.92 82.47 26.60 47.89 19.95 -18.20 37.48 80.95 146.24 208.78 239.83 270.31	65.15
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	442.41 105.11 33.91 61.03 25.43 -22.12 47.51 102.65 185.59 265.04 304.34 342.93	68.85
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	158.64 9.71 17.48 7.28	40.60
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	179.19 10.57 19.02 7.93	48.52
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	281.38 17.28 31.10 12.96	71.70

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow	380.27	85.06
For Cement Mortar Lining (CML), Add	25.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow	544.53	95.50
For Cement Mortar Lining (CML), Add	39.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow	708.06	112.03
For Cement Mortar Lining (CML), Add	53.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow	1,091.45	125.63
For Cement Mortar Lining (CML), Add	90.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	162.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow	1,441.40	143.57
For Cement Mortar Lining (CML), Add	122.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	220.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow	1,778.29	201.00
For Cement Mortar Lining (CML), Add	147.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	265.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0029 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow	2,435.68	251.26
For Cement Mortar Lining (CML), Add	205.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	369.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	154.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow	3,574.53	334.58
For Cement Mortar Lining (CML), Add	306.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	552.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	230.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow	5,466.44	358.94
For Cement Mortar Lining (CML), Add	492.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	886.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	369.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow	8,260.47	372.65
For Cement Mortar Lining (CML), Add	769.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,385.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	577.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow	13,849.50	430.73
For Cement Mortar Lining (CML), Add	1,319.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,375.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	989.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow	18,291.07	458.25
For Cement Mortar Lining (CML), Add	1,759.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,167.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,319.76	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0036 EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	148.64 8.71 15.68 6.53	40.60
33 14 13 13-0037 EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	160.62 8.71 15.68 6.53	48.52
33 14 13 13-0038 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	248.53 14.00 25.19 10.50	71.70
33 14 13 13-0039 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	333.15 20.42 36.76 15.32	85.06
33 14 13 13-0040 EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	443.14 29.85 53.72 22.39	95.50
33 14 13 13-0041 EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	615.23 44.56 80.20 33.42	112.03
33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	891.52 70.12 126.21 52.59	125.63
33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,091.52 87.40 157.32 65.55	143.57
33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,558.36 125.39 225.69 94.04	201.00
33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,720.21 133.95 241.12 100.47	251.26
33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,542.02 203.50 366.30 152.63	334.58
33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,678.14 413.43 744.17 310.07	358.94

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,609.61 604.51 1,088.11 453.38	372.65
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,940.84 928.82 1,671.88 696.62	430.73
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,865.80 1,217.15 2,190.88 912.86	458.25
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	130.08 6.86 12.34 5.14	40.60
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	156.34 8.28 14.91 6.21	48.52
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	237.11 12.85 23.14 9.64	71.70
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	328.86 19.99 35.99 14.99	85.06
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	441.71 29.70 53.47 22.28	95.50
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	559.54 38.99 70.18 29.24	112.03
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	900.09 70.98 127.76 53.23	125.63
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,055.82 83.83 150.89 62.87	143.57
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,334.16 102.97 185.34 77.22	201.00



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0061	EA	20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,780.19 139.95 251.91 104.96	251.26
33 14 13 13-0062	EA	24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,384.94 187.79 338.03 140.84	334.58
33 14 13 13-0063	EA	30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,008.37 346.45 623.61 259.84	358.94
33 14 13 13-0064	EA	36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,642.80 507.83 914.09 380.87	372.65
33 14 13 13-0065	EA	42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,319.97 766.74 1,380.12 575.05	430.73
33 14 13 13-0066	EA	48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,677.98 998.37 1,797.07 748.78	458.25
33 14 13 13-0067		Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0068	EA	3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	130.08 6.86 12.34 5.14	40.60
33 14 13 13-0069	EA	4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	152.05 7.85 14.14 5.89	48.52
33 14 13 13-0070	EA	6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	241.39 13.28 23.91 9.96	71.70
33 14 13 13-0071	EA	8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	310.30 18.14 32.65 13.60	85.06
33 14 13 13-0072	EA	10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	438.85 29.42 52.95 22.06	95.50
33 14 13 13-0073	EA	12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	535.26 36.56 65.81 27.42	112.03

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,000.05 80.97 145.75 60.73	125.63
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,104.38 88.68 159.63 66.51	143.57
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,605.49 130.10 234.18 97.57	201.00
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,698.79 131.81 237.26 98.86	251.26
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,264.98 175.80 316.43 131.85	334.58
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,071.21 352.74 634.92 264.55	358.94
33 14 13 13-0080 EA 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,385.75 482.12 867.82 361.59	372.65
33 14 13 13-0081 EA 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,970.09 731.75 1,317.15 548.81	430.73
33 14 13 13-0082 EA 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,609.43 991.52 1,784.73 743.64	458.25
33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0084 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	162.92 10.14 18.25 7.60	40.60
33 14 13 13-0085 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	199.18 12.57 22.62 9.43	48.52



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	317.08 20.85 37.53 15.64	71.70
33 14 13 13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	427.40 29.85 53.72 22.39	85.06
33 14 13 13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	613.08 46.84 84.31 35.13	95.50
33 14 13 13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	782.32 61.27 110.28 45.95	112.03
33 14 13 13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,329.94 113.96 205.13 85.47	125.63
33 14 13 13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,022.63 180.51 324.92 135.38	143.57
33 14 13 13-0092	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,355.23 205.07 369.13 153.80	201.00
33 14 13 13-0093	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,195.42 281.48 506.66 211.11	251.26
33 14 13 13-0094	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,888.70 338.17 608.70 253.63	334.58
33 14 13 13-0095	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,202.99 665.91 1,198.65 499.44	358.94
33 14 13 13-0096	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,836.04 1,227.15 2,208.87 920.36	372.65

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	150.07	40.60
For Cement Mortar Lining (CML), Add	8.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	164.91	48.52
For Cement Mortar Lining (CML), Add	9.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	264.24	71.70
For Cement Mortar Lining (CML), Add	15.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	378.84	85.06
For Cement Mortar Lining (CML), Add	24.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0102 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	515.97	95.50
For Cement Mortar Lining (CML), Add	37.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	66.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0103 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	698.06	112.03
For Cement Mortar Lining (CML), Add	52.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	95.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0104 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,179.99	125.63
For Cement Mortar Lining (CML), Add	98.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	178.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	74.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0105 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,787.00	143.57
For Cement Mortar Lining (CML), Add	156.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	282.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	117.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0106 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,116.74	201.00
For Cement Mortar Lining (CML), Add	181.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	326.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	135.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0107 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,747.00	251.26
For Cement Mortar Lining (CML), Add	236.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	425.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	177.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0108 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	3,456.00	334.58
For Cement Mortar Lining (CML), Add	294.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	530.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	221.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0109 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	6,336.14	358.94
For Cement Mortar Lining (CML), Add	579.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,042.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	434.42	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,240.88 1,067.63 1,921.74 800.72	372.65
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	257.95 16.57 29.82 12.42	60.92
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	268.81 16.57 29.82 12.42	68.08
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	247.10 13.85 24.93 10.39	71.70
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	328.22 19.14 34.44 14.35	90.32
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	375.28 23.28 41.90 17.46	94.06
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	409.37 24.99 44.98 18.74	105.30
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	435.05 26.99 48.58 20.24	109.00
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	493.43 31.13 56.04 23.35	120.20
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	569.01 37.56 67.60 28.17	127.69
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	593.97 41.41 74.55 31.06	118.69
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	597.43 40.13 72.23 30.10	129.46

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....	676.87	136.64
For Cement Mortar Lining (CML), Add	46.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee.....	754.50	143.57
For Cement Mortar Lining (CML), Add	53.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee.....	708.56	133.05
For Cement Mortar Lining (CML), Add	50.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	91.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee.....	803.40	143.80
For Cement Mortar Lining (CML), Add	58.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	105.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee.....	981.38	150.99
For Cement Mortar Lining (CML), Add	75.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	135.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee.....	1,050.43	157.93
For Cement Mortar Lining (CML), Add	81.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	146.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee.....	999.90	165.11
For Cement Mortar Lining (CML), Add	74.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	134.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee.....	1,065.04	167.57
For Cement Mortar Lining (CML), Add	81.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	146.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee.....	1,183.04	174.76
For Cement Mortar Lining (CML), Add	91.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	165.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee.....	1,502.00	181.69
For Cement Mortar Lining (CML), Add	122.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	220.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	92.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee.....	1,604.28	188.86
For Cement Mortar Lining (CML), Add	131.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	237.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee.....	1,552.30	200.79
For Cement Mortar Lining (CML), Add	124.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	224.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.61	
Note: ANSI/AWWA C151/A21.51		



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		Water Utilities	33 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0135 EA 16" x 6" Mechanical Joint Ductile Iron Tee.....	1,351.23	201.00
For Cement Mortar Lining (CML), Add	104.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	188.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0136 EA 16" x 8" Mechanical Joint Ductile Iron Tee.....	1,452.18	208.19
For Cement Mortar Lining (CML), Add	113.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	204.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0137 EA 16" x 10" Mechanical Joint Ductile Iron Tee.....	1,685.47	215.12
For Cement Mortar Lining (CML), Add	135.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	244.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	101.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0138 EA 16" x 12" Mechanical Joint Ductile Iron Tee.....	1,842.02	222.29
For Cement Mortar Lining (CML), Add	150.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	270.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	112.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0139 EA 16" x 14" Mechanical Joint Ductile Iron Tee.....	2,209.90	234.18
For Cement Mortar Lining (CML), Add	185.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	333.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	139.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0140 EA 16" x 16" Mechanical Joint Ductile Iron Tee.....	2,095.26	250.93
For Cement Mortar Lining (CML), Add	171.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	308.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	128.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0141 EA 18" x 6" Mechanical Joint Ductile Iron Tee.....	1,872.10	257.24
For Cement Mortar Lining (CML), Add	148.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	266.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	111.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0142 EA 18" x 8" Mechanical Joint Ductile Iron Tee.....	2,005.80	264.42
For Cement Mortar Lining (CML), Add	160.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	288.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0143 EA 18" x 10" Mechanical Joint Ductile Iron Tee.....	2,167.69	271.36
For Cement Mortar Lining (CML), Add	175.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	316.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	131.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0144 EA 18" x 12" Mechanical Joint Ductile Iron Tee.....	2,328.52	278.54
For Cement Mortar Lining (CML), Add	190.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	343.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0145 EA 18" x 14" Mechanical Joint Ductile Iron Tee.....	2,396.50	290.41
For Cement Mortar Lining (CML), Add	195.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	352.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	146.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0146 EA 18" x 16" Mechanical Joint Ductile Iron Tee.....	2,557.49	307.13
For Cement Mortar Lining (CML), Add	209.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	376.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	156.91	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee.....	2,989.96	335.23
For Cement Mortar Lining (CML), Add	248.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	446.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	186.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee.....	2,226.92	368.88
For Cement Mortar Lining (CML), Add	166.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	300.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	125.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee.....	2,274.93	376.07
For Cement Mortar Lining (CML), Add	170.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	306.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	127.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee.....	2,472.52	383.00
For Cement Mortar Lining (CML), Add	189.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	340.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	141.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0151 EA 20" x 12" Mechanical Joint Ductile Iron Tee.....	2,669.05	390.17
For Cement Mortar Lining (CML), Add	207.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	374.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	155.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0152 EA 20" x 14" Mechanical Joint Ductile Iron Tee.....	2,702.76	402.06
For Cement Mortar Lining (CML), Add	209.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	376.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	157.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0153 EA 20" x 16" Mechanical Joint Ductile Iron Tee.....	2,745.21	418.78
For Cement Mortar Lining (CML), Add	211.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	379.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	158.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0154 EA 20" x 18" Mechanical Joint Ductile Iron Tee.....	3,433.30	446.90
For Cement Mortar Lining (CML), Add	275.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	496.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	206.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0155 EA 20" x 20" Mechanical Joint Ductile Iron Tee.....	3,049.47	502.73
For Cement Mortar Lining (CML), Add	228.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	411.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	171.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0156 EA 24" x 6" Mechanical Joint Ductile Iron Tee.....	2,734.00	480.18
For Cement Mortar Lining (CML), Add	200.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	361.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0157 EA 24" x 8" Mechanical Joint Ductile Iron Tee.....	2,770.60	488.05
For Cement Mortar Lining (CML), Add	203.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	365.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	152.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0158 EA 24" x 10" Mechanical Joint Ductile Iron Tee.....	3,043.87	494.31
For Cement Mortar Lining (CML), Add	229.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	413.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	172.12	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0159	EA	24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,119.00 235.92 424.65 176.94	501.49
33 14 13 13-0160	EA	24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,499.73 272.19 489.95 204.14	513.36
33 14 13 13-0161	EA	24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,774.97 297.18 534.93 222.89	530.07
33 14 13 13-0162	EA	24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,280.28 343.45 618.22 257.59	558.20
33 14 13 13-0163	EA	24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,743.30 381.30 686.33 285.97	614.01
33 14 13 13-0164	EA	24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,410.62 339.60 611.27 254.70	669.70
33 14 13 13-0165	EA	30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,689.81 383.15 689.68 287.37	566.46
33 14 13 13-0166	EA	30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,935.95 406.72 732.09 305.04	573.39
33 14 13 13-0167	EA	30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,182.46 430.28 774.50 322.71	580.57
33 14 13 13-0168	EA	30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,534.64 463.70 834.66 347.77	592.46
33 14 13 13-0169	EA	30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,916.98 499.40 898.92 374.55	788.26
33 14 13 13-0170	EA	30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,079.53 511.40 920.51 383.55	637.28

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee.....	6,331.20	693.11
For Cement Mortar Lining (CML), Add	528.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	950.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	396.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee.....	6,656.87	748.76
For Cement Mortar Lining (CML), Add	552.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	994.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	414.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee.....	8,313.38	788.26
For Cement Mortar Lining (CML), Add	711.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,281.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	533.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee.....	4,896.00	559.27
For Cement Mortar Lining (CML), Add	404.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	728.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	303.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee.....	5,719.04	628.38
For Cement Mortar Lining (CML), Add	476.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	858.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	357.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee.....	6,349.33	635.33
For Cement Mortar Lining (CML), Add	538.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	969.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	404.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee.....	6,691.52	642.51
For Cement Mortar Lining (CML), Add	571.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,029.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	428.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee.....	6,939.44	654.38
For Cement Mortar Lining (CML), Add	594.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,070.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	446.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee.....	7,191.83	671.10
For Cement Mortar Lining (CML), Add	617.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,111.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	463.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee.....	7,674.29	699.22
For Cement Mortar Lining (CML), Add	661.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,190.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	496.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee.....	8,200.14	755.04
For Cement Mortar Lining (CML), Add	705.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,270.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	529.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee.....	9,067.05	810.69
For Cement Mortar Lining (CML), Add	783.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,410.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	587.90	
Note: ANSI/AWWA C151/A21.51		



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,013.81 872.56 1,570.60 654.42	881.26
33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,667.31 1,033.22 1,859.79 774.91	881.26
33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,044.65 1,201.87 2,163.37 901.40	677.11
33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,305.43 1,226.15 2,207.07 919.61	689.00
33 14 13 13-0187 EA 42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,774.54 1,370.53 2,466.95 1,027.90	705.71
33 14 13 13-0188 EA 42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,831.78 1,271.99 2,289.58 953.99	733.83
33 14 13 13-0189 EA 42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,916.35 1,271.99 2,289.58 953.99	789.66
33 14 13 13-0190 EA 42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,233.45 1,295.27 2,331.48 971.45	845.31
33 14 13 13-0191 EA 42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,229.51 1,588.88 2,859.99 1,191.66	884.86
33 14 13 13-0192 EA 42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,943.32 1,655.57 2,980.03 1,241.68	915.83
33 14 13 13-0193 EA 42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,973.49 1,755.97 3,160.74 1,316.98	933.13
33 14 13 13-0194 EA 48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,354.62 1,424.51 2,564.12 1,068.38	732.28

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,629.67 1,450.22 2,610.39 1,087.66	744.16
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,019.15 1,486.63 2,675.94 1,114.97	760.88
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,424.50 1,522.91 2,741.23 1,142.18	789.00
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,873.23 1,559.32 2,806.78 1,169.49	844.81
33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,006.11 1,564.18 2,815.52 1,173.13	900.46
33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,663.35 1,923.91 3,463.04 1,442.93	940.01
33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,537.86 2,206.67 3,972.00 1,655.00	970.98
33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,683.71 2,318.63 4,173.54 1,738.97	988.29
33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,098.23 2,355.90 4,240.63 1,766.93	1,015.91
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)		
33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	224.54 12.14 21.85 9.10	68.08
33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	335.64 22.71 40.87 17.03	71.66
33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	328.22 19.14 34.44 14.35	90.32



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0208	EA	6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	376.71 23.42 42.16 17.57	94.06
33 14 13 13-0209	EA	6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	502.20 34.27 61.69 25.71	105.24
33 14 13 13-0210	EA	8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	637.83 47.27 85.08 35.45	109.00
33 14 13 13-0211	EA	8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	577.69 39.56 71.20 29.67	120.20
33 14 13 13-0212	EA	8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	693.26 49.98 89.97 37.49	127.66
33 14 13 13-0213	EA	10" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	975.27 79.54 143.18 59.66	118.69
33 14 13 13-0214	EA	10" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,032.99 83.69 150.63 62.76	129.46
33 14 13 13-0215	EA	10" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,183.84 97.68 175.83 73.26	136.64
33 14 13 13-0216	EA	10" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,330.01 111.25 200.24 83.44	143.57
33 14 13 13-0217	EA	12" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,239.80 103.82 186.88 77.87	133.05
33 14 13 13-0218	EA	12" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,400.34 118.25 212.84 88.68	143.80
33 14 13 13-0219	EA	12" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,681.14 145.24 261.42 108.93	150.99

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,730.20 149.09 268.37 111.82	157.93
33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,573.99 132.38 238.29 99.29	165.10
33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,847.63 159.37 286.87 119.53	167.57
33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,109.86 184.51 332.11 138.38	174.76
33 14 13 13-0224 EA 14" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,741.57 246.63 443.93 184.97	181.69
33 14 13 13-0225 EA 14" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,935.25 264.91 476.84 198.68	188.86
33 14 13 13-0226 EA 14" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,873.28 256.91 462.44 192.68	200.75
33 14 13 13-0227 EA 16" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,906.86 160.23 288.42 120.17	201.00
33 14 13 13-0228 EA 16" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,094.82 177.94 320.29 133.45	208.19
33 14 13 13-0229 EA 16" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,460.92 213.50 384.30 160.12	215.12
33 14 13 13-0230 EA 16" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,747.42 241.06 433.91 180.80	222.29
33 14 13 13-0231 EA 16" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,425.19 307.04 552.67 230.28	234.18



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0232 EA 16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,310.56	250.89
For Cement Mortar Lining (CML), Add	293.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	527.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	219.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0233 EA 18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,984.57	257.24
For Cement Mortar Lining (CML), Add	259.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	467.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	194.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0234 EA 18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,209.67	264.42
For Cement Mortar Lining (CML), Add	280.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	505.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	210.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235 EA 18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,427.25	271.36
For Cement Mortar Lining (CML), Add	301.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	542.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	226.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,663.77	278.54
For Cement Mortar Lining (CML), Add	324.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	583.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,707.48	290.41
For Cement Mortar Lining (CML), Add	326.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	588.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	245.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,749.93	307.13
For Cement Mortar Lining (CML), Add	328.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	591.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	246.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	3,446.95	335.25
For Cement Mortar Lining (CML), Add	293.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	529.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,560.74	368.88
For Cement Mortar Lining (CML), Add	300.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	540.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	225.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,638.74	376.07
For Cement Mortar Lining (CML), Add	306.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	552.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	230.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,986.28	383.00
For Cement Mortar Lining (CML), Add	340.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	613.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	255.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,331.33	390.17
For Cement Mortar Lining (CML), Add	374.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	673.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	280.51	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,377.89	402.06
For Cement Mortar Lining (CML), Add	376.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	678.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	282.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,433.20	418.78
For Cement Mortar Lining (CML), Add	379.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	683.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	284.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	5,124.15	446.90
For Cement Mortar Lining (CML), Add	444.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	800.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	333.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	4,880.27	502.71
For Cement Mortar Lining (CML), Add	411.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	741.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	308.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	4,339.16	480.18
For Cement Mortar Lining (CML), Add	361.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	650.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	270.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,395.75	487.36
For Cement Mortar Lining (CML), Add	365.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	658.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	274.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0250 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,878.96	494.31
For Cement Mortar Lining (CML), Add	413.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	743.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	309.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	5,101.17	501.49
For Cement Mortar Lining (CML), Add	434.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	781.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	325.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	5,867.49	513.36
For Cement Mortar Lining (CML), Add	508.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	916.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	381.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253 EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	6,505.46	530.07
For Cement Mortar Lining (CML), Add	570.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,026.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	427.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254 EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	7,267.83	558.20
For Cement Mortar Lining (CML), Add	642.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,155.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	481.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255 EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	7,985.05	614.01
For Cement Mortar Lining (CML), Add	705.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,269.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	529.10	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0256	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	7,126.83	669.67
		For Cement Mortar Lining (CML), Add	611.22	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,100.19	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	458.41	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0257	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	8,814.65	559.27
		For Cement Mortar Lining (CML), Add	796.73	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,434.11	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	597.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0258	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	9,862.31	566.46
		For Cement Mortar Lining (CML), Add	900.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,620.73	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	675.30	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0259	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	10,426.92	573.39
		For Cement Mortar Lining (CML), Add	955.81	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,720.47	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	716.86	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0260	EA	30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	10,991.89	580.57
		For Cement Mortar Lining (CML), Add	1,011.22	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,820.20	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	758.42	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0261	EA	30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	11,793.91	592.46
		For Cement Mortar Lining (CML), Add	1,089.63	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,961.33	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	817.22	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0262	EA	30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	12,658.94	609.17
		For Cement Mortar Lining (CML), Add	1,173.60	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,112.47	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	880.20	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263	EA	30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	12,982.87	637.28
		For Cement Mortar Lining (CML), Add	1,201.73	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,163.11	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	901.30	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264	EA	30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	13,460.18	693.11
		For Cement Mortar Lining (CML), Add	1,241.00	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,233.80	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	930.75	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265	EA	30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	14,111.44	748.76
		For Cement Mortar Lining (CML), Add	1,297.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,335.85	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	973.27	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266	EA	30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	15,286.69	788.31
		For Cement Mortar Lining (CML), Add	1,409.23	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,536.61	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,056.92	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267	EA	36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	16,698.08	642.51
		For Cement Mortar Lining (CML), Add	1,572.46	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,830.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,179.34	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0268 EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	17,348.72	654.38
For Cement Mortar Lining (CML), Add	1,635.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,944.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,226.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269 EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	17,998.11	671.10
For Cement Mortar Lining (CML), Add	1,698.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,056.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,273.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270 EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	19,250.30	699.22
For Cement Mortar Lining (CML), Add	1,819.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,274.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,364.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271 EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	20,548.75	755.04
For Cement Mortar Lining (CML), Add	1,940.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,492.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,455.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0272 EA 36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	22,785.19	810.69
For Cement Mortar Lining (CML), Add	2,155.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,880.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,616.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0273 EA 36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	25,505.62	850.23
For Cement Mortar Lining (CML), Add	2,421.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,359.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,816.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0274 EA 36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	30,395.15	881.20
For Cement Mortar Lining (CML), Add	2,906.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5,230.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,179.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0275 EA 42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	26,750.50	789.66
For Cement Mortar Lining (CML), Add	2,555.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,599.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,916.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0276 EA 42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	27,430.33	845.31
For Cement Mortar Lining (CML), Add	2,614.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,706.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,961.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0277 EA 42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	29,295.36	884.86
For Cement Mortar Lining (CML), Add	2,795.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5,031.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,096.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0278 EA 42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	33,469.41	915.83
For Cement Mortar Lining (CML), Add	3,208.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5,774.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,406.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0279 EA 42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	39,427.88	933.12
For Cement Mortar Lining (CML), Add	3,801.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6,842.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,851.05	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0280	EA	48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,411.37 2,513.14 4,523.64 1,884.85	844.81
33 14 13 13-0281	EA	48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,894.53 2,853.02 5,135.43 2,139.76	900.46
33 14 13 13-0282	EA	48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,855.22 3,043.10 5,477.57 2,282.32	940.01
33 14 13 13-0283	EA	48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	36,279.19 3,480.80 6,265.44 2,610.60	970.98
33 14 13 13-0284	EA	48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	47,344.48 4,584.71 8,252.47 3,438.53	988.29
33 14 13 13-0285	EA	48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	51,956.13 5,041.69 9,075.05 3,781.27	1,015.86
33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)				
33 14 13 13-0287	EA	3" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	307.28 18.42 33.16 13.82	81.22
33 14 13 13-0288	EA	4" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	369.54 23.56 42.41 17.67	88.38
33 14 13 13-0289	EA	4" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	434.20 29.85 53.72 22.39	89.58
33 14 13 13-0290	EA	6" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	519.15 35.13 63.24 26.35	110.73
33 14 13 13-0291	EA	6" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	506.57 32.56 58.61 24.42	119.44
33 14 13 13-0292	EA	6" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	591.79 36.56 65.81 27.42	149.30

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross	522.12	130.64
For Cement Mortar Lining (CML), Add	32.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross	621.63	160.51
For Cement Mortar Lining (CML), Add	37.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	68.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross	658.61	171.69
For Cement Mortar Lining (CML), Add	39.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross.....	633.03	138.81
For Cement Mortar Lining (CML), Add	42.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	76.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross.....	727.94	167.53
For Cement Mortar Lining (CML), Add	47.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	85.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross.....	858.52	178.31
For Cement Mortar Lining (CML), Add	58.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	105.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	44.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross.....	928.45	191.44
For Cement Mortar Lining (CML), Add	63.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	114.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross.....	762.51	150.75
For Cement Mortar Lining (CML), Add	53.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross.....	887.43	179.47
For Cement Mortar Lining (CML), Add	61.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	110.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross.....	1,259.34	190.24
For Cement Mortar Lining (CML), Add	97.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	174.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross.....	1,279.30	203.42
For Cement Mortar Lining (CML), Add	97.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	174.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross.....	1,447.35	215.37
For Cement Mortar Lining (CML), Add	112.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	201.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.08	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0305 EA 14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,475.85 117.67 211.81 88.26	197.40
33 14 13 13-0306 EA 14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,729.23 141.38 254.48 106.04	208.19
33 14 13 13-0307 EA 14" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,777.76 144.24 259.62 108.18	221.36
33 14 13 13-0308 EA 14" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,875.82 152.23 274.02 114.17	233.30
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,072.94 169.23 304.61 126.92	251.26
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,686.69 134.95 242.92 101.22	222.53
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,912.94 155.95 280.70 116.96	233.30
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,279.33 190.59 343.06 142.94	246.46
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,535.09 214.36 385.84 160.77	258.42
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,050.67 263.20 473.75 197.40	276.35
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,564.26 310.75 559.35 233.06	301.51
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,756.43 235.78 424.40 176.83	263.12

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0317	EA	18" x 8" Mechanical Joint Ductile Iron Cross.....	2,912.71	273.90
		For Cement Mortar Lining (CML), Add	249.77	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	449.59	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.33	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318	EA	18" x 10" Mechanical Joint Ductile Iron Cross.....	3,049.76	287.07
		For Cement Mortar Lining (CML), Add	261.48	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	470.67	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	196.11	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319	EA	18" x 12" Mechanical Joint Ductile Iron Cross.....	3,302.07	299.02
		For Cement Mortar Lining (CML), Add	284.90	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	512.82	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	213.68	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0320	EA	18" x 14" Mechanical Joint Ductile Iron Cross.....	3,841.93	316.95
		For Cement Mortar Lining (CML), Add	336.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	605.11	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	252.13	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321	EA	18" x 16" Mechanical Joint Ductile Iron Cross.....	4,091.33	342.06
		For Cement Mortar Lining (CML), Add	357.31	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	643.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	267.98	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322	EA	18" x 18" Mechanical Joint Ductile Iron Cross.....	4,292.81	382.65
		For Cement Mortar Lining (CML), Add	371.30	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	668.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	278.48	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0323	EA	20" x 6" Mechanical Joint Ductile Iron Cross.....	3,464.91	330.14
		For Cement Mortar Lining (CML), Add	296.47	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	533.64	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	222.35	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0324	EA	20" x 8" Mechanical Joint Ductile Iron Cross.....	3,622.62	340.92
		For Cement Mortar Lining (CML), Add	310.61	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	559.09	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.96	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0325	EA	20" x 10" Mechanical Joint Ductile Iron Cross.....	3,735.40	354.09
		For Cement Mortar Lining (CML), Add	319.89	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	575.80	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	239.92	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0326	EA	20" x 12" Mechanical Joint Ductile Iron Cross.....	3,986.29	366.03
		For Cement Mortar Lining (CML), Add	343.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	617.70	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	257.38	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0327	EA	20" x 14" Mechanical Joint Ductile Iron Cross.....	4,060.58	383.98
		For Cement Mortar Lining (CML), Add	347.88	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	626.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	260.91	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0328	EA	20" x 16" Mechanical Joint Ductile Iron Cross.....	4,892.64	409.08
		For Cement Mortar Lining (CML), Add	427.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	769.11	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.46	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0329	EA	20" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,094.12 441.28 794.30 330.96	449.69
33 14 13 13-0330	EA	20" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,522.69 473.98 853.16 355.49	516.66
33 14 13 13-0331	EA	24" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,711.48 408.57 735.43 306.43	412.99
33 14 13 13-0332	EA	24" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,822.39 418.00 752.40 313.50	423.77
33 14 13 13-0333	EA	24" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,004.80 434.28 781.70 325.71	436.92
33 14 13 13-0334	EA	24" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,162.86 448.27 806.89 336.21	448.88
33 14 13 13-0335	EA	24" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,260.01 455.27 819.49 341.45	466.82
33 14 13 13-0336	EA	24" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,462.30 471.70 849.05 353.77	491.93
33 14 13 13-0337	EA	24" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,181.82 637.50 1,147.49 478.12	532.52
33 14 13 13-0338	EA	24" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,586.11 667.77 1,201.99 500.83	599.55
33 14 13 13-0339	EA	24" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,365.69 733.18 1,319.72 549.88	682.42
33 14 13 13-0340	EA	30" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,930.65 809.86 1,457.76 607.40	549.12

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross.....	9,109.12	562.30
For Cement Mortar Lining (CML), Add	825.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,486.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	619.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross.....	9,284.32	574.23
For Cement Mortar Lining (CML), Add	841.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,514.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	631.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross.....	9,492.85	592.19
For Cement Mortar Lining (CML), Add	859.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,547.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	644.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross.....	9,733.69	617.29
For Cement Mortar Lining (CML), Add	879.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,583.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	659.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross.....	10,020.85	657.89
For Cement Mortar Lining (CML), Add	902.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,624.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	676.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross.....	10,392.30	724.92
For Cement Mortar Lining (CML), Add	929.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,672.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	697.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross.....	13,318.29	807.76
For Cement Mortar Lining (CML), Add	1,209.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,176.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	907.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross.....	15,316.18	933.13
For Cement Mortar Lining (CML), Add	1,390.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,502.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,042.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross.....	12,408.07	595.34
For Cement Mortar Lining (CML), Add	1,150.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,071.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	862.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross.....	12,585.11	608.50
For Cement Mortar Lining (CML), Add	1,166.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,099.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	874.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross.....	12,737.46	620.45
For Cement Mortar Lining (CML), Add	1,179.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,123.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	884.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross.....	12,921.72	638.39
For Cement Mortar Lining (CML), Add	1,195.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,151.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	896.58	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0353	EA	36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,139.70 1,213.44 2,184.19 910.08	663.50
33 14 13 13-0354	EA	36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,402.59 1,233.58 2,220.44 925.18	704.10
33 14 13 13-0355	EA	36" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,751.18 1,258.28 2,264.91 943.71	771.13
33 14 13 13-0356	EA	36" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,347.98 1,305.41 2,349.73 979.06	853.98
33 14 13 13-0357	EA	36" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,270.58 1,778.67 3,201.61 1,334.01	979.33
33 14 13 13-0358	EA	36" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,157.10 1,960.33 3,528.59 1,470.24	1,025.59
33 14 13 13-0359	EA	42" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,605.19 1,562.46 2,812.43 1,171.85	647.17
33 14 13 13-0360	EA	42" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,754.13 1,774.64 3,194.35 1,330.98	665.12
33 14 13 13-0361	EA	42" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,991.73 1,594.59 2,870.27 1,195.95	690.22
33 14 13 13-0362	EA	42" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,226.05 1,611.87 2,901.37 1,208.91	730.83
33 14 13 13-0363	EA	42" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,563.23 1,635.44 2,943.79 1,226.58	797.85
33 14 13 13-0364	EA	42" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,118.59 1,678.42 3,021.16 1,258.82	880.68

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross.....	23,158.30	1,006.06
For Cement Mortar Lining (CML), Add	2,163.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,894.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,622.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross.....	30,161.65	1,052.26
For Cement Mortar Lining (CML), Add	2,856.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5,142.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,142.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross.....	32,304.26	1,079.00
For Cement Mortar Lining (CML), Add	3,066.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5,520.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,300.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross.....	22,411.12	753.26
For Cement Mortar Lining (CML), Add	2,126.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,828.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,595.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0369 EA 48" x 14" Mechanical Joint Ductile Iron Cross.....	22,566.83	771.20
For Cement Mortar Lining (CML), Add	2,139.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,851.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,604.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0370 EA 48" x 16" Mechanical Joint Ductile Iron Cross.....	22,776.25	796.31
For Cement Mortar Lining (CML), Add	2,156.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,882.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,617.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0371 EA 48" x 18" Mechanical Joint Ductile Iron Cross.....	23,009.13	836.91
For Cement Mortar Lining (CML), Add	2,174.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,913.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,630.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0372 EA 48" x 20" Mechanical Joint Ductile Iron Cross.....	23,326.33	903.93
For Cement Mortar Lining (CML), Add	2,195.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,952.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,646.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0373 EA 48" x 24" Mechanical Joint Ductile Iron Cross.....	23,858.85	986.77
For Cement Mortar Lining (CML), Add	2,236.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,025.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,677.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0374 EA 48" x 30" Mechanical Joint Ductile Iron Cross.....	25,272.66	1,112.14
For Cement Mortar Lining (CML), Add	2,358.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,245.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,769.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0375 EA 48" x 36" Mechanical Joint Ductile Iron Cross.....	30,900.75	1,158.34
For Cement Mortar Lining (CML), Add	2,914.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5,246.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,185.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0376 EA 48" x 42" Mechanical Joint Ductile Iron Cross.....	39,633.97	1,185.07
For Cement Mortar Lining (CML), Add	3,783.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6,810.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,837.88	
Note: ANSI/AWWA C151/A21.51		



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0377	EA	48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	42,219.58 4,026.33 7,247.39 3,019.75	1,291.10
33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)				
33 14 13 13-0379	EA	4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	149.79 8.28 14.91 6.21	44.19
33 14 13 13-0380	EA	6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	175.32 9.14 16.45 6.86	55.39
33 14 13 13-0381	EA	6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	189.32 10.00 17.99 7.50	58.97
33 14 13 13-0382	EA	8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	237.87 13.71 24.68 10.28	66.45
33 14 13 13-0383	EA	8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	263.29 14.57 26.22 10.92	77.63
33 14 13 13-0384	EA	10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	285.84 17.85 32.13 13.39	70.84
33 14 13 13-0385	EA	10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	312.14 18.85 33.93 14.14	81.60
33 14 13 13-0386	EA	10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	341.59 20.71 37.27 15.53	88.78
33 14 13 13-0387	EA	12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	343.83 22.56 40.62 16.92	78.01
33 14 13 13-0388	EA	12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	383.00 24.85 44.73 18.64	88.78
33 14 13 13-0389	EA	12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	401.02 25.56 46.01 19.17	95.96

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	438.66	102.90
For Cement Mortar Lining (CML), Add	28.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	703.75	100.66
For Cement Mortar Lining (CML), Add	55.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	99.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	686.08	107.84
For Cement Mortar Lining (CML), Add	52.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	619.46	114.77
For Cement Mortar Lining (CML), Add	44.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	651.76	121.95
For Cement Mortar Lining (CML), Add	46.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	826.18	117.36
For Cement Mortar Lining (CML), Add	64.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	116.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	812.79	124.55
For Cement Mortar Lining (CML), Add	62.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	112.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	800.44	131.49
For Cement Mortar Lining (CML), Add	60.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	108.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	867.02	138.67
For Cement Mortar Lining (CML), Add	65.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	118.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	963.56	150.55
For Cement Mortar Lining (CML), Add	73.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	132.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,032.47	152.67
For Cement Mortar Lining (CML), Add	80.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	144.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,154.37	159.61
For Cement Mortar Lining (CML), Add	91.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	164.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.44	
Note: ANSI/AWWA C151/A21.51		



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0402	EA	18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,116.70	166.79
		For Cement Mortar Lining (CML), Add	86.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	155.52	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.80	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403	EA	18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,184.68	178.67
		For Cement Mortar Lining (CML), Add	91.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	164.51	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.55	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404	EA	18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,249.98	195.38
		For Cement Mortar Lining (CML), Add	95.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	171.71	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.55	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405	EA	20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,455.51	208.50
		For Cement Mortar Lining (CML), Add	113.96	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	205.13	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.47	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0406	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,400.33	215.43
		For Cement Mortar Lining (CML), Add	107.39	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	193.31	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	80.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,298.38	222.60
		For Cement Mortar Lining (CML), Add	96.11	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	173.00	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.08	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0408	EA	20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,309.25	234.49
		For Cement Mortar Lining (CML), Add	95.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	171.71	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.55	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409	EA	20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,354.56	251.21
		For Cement Mortar Lining (CML), Add	97.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	175.31	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.05	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410	EA	20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,618.51	279.32
		For Cement Mortar Lining (CML), Add	119.53	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	215.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.65	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411	EA	24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,893.96	278.25
		For Cement Mortar Lining (CML), Add	147.24	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	265.02	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.43	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412	EA	24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,949.09	290.15
		For Cement Mortar Lining (CML), Add	150.95	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	271.71	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	113.21	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413	EA	24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,994.40	306.85
		For Cement Mortar Lining (CML), Add	152.95	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	275.30	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	114.71	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,969.88	334.97
For Cement Mortar Lining (CML), Add	146.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	263.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	109.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,402.92	390.80
For Cement Mortar Lining (CML), Add	181.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	325.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	135.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,845.14	346.40
For Cement Mortar Lining (CML), Add	332.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	597.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	249.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,019.12	374.51
For Cement Mortar Lining (CML), Add	345.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	621.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	258.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,912.34	430.34
For Cement Mortar Lining (CML), Add	326.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	586.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	244.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,841.00	485.99
For Cement Mortar Lining (CML), Add	310.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	558.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0420 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,750.06	461.31
For Cement Mortar Lining (CML), Add	505.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	909.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	378.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,793.31	516.95
For Cement Mortar Lining (CML), Add	401.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	721.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	300.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,204.55	556.50
For Cement Mortar Lining (CML), Add	436.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	785.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	327.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,418.49	394.67
For Cement Mortar Lining (CML), Add	682.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,227.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	511.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,398.26	422.79
For Cement Mortar Lining (CML), Add	675.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,216.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	506.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,460.00	478.60
For Cement Mortar Lining (CML), Add	673.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,212.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	505.11	
Note: ANSI/AWWA C151/A21.51		



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		Water Utilities	33 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0426	EA	42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,325.46 751.60 1,352.88 563.70	534.27
33 14 13 13-0427	EA	42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,903.05 603.36 1,086.06 452.52	573.80
33 14 13 13-0428	EA	42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,227.01 631.07 1,135.92 473.30	604.77
33 14 13 13-0429	EA	48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,965.13 932.54 1,678.56 699.40	422.26
33 14 13 13-0430	EA	48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,673.57 899.12 1,618.41 674.34	450.38
33 14 13 13-0431	EA	48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,244.04 847.71 1,525.87 635.78	506.19
33 14 13 13-0432	EA	48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,543.99 869.27 1,564.69 651.95	561.84
33 14 13 13-0433	EA	48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,384.74 1,047.35 1,885.24 785.52	601.39
33 14 13 13-0434	EA	48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,002.14 904.40 1,627.93 678.30	632.36
33 14 13 13-0435	EA	48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,968.04 998.37 1,797.07 748.78	649.66
33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)				
33 14 13 13-0437	EA	3" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	178.51 3.71 6.68 2.78	93.31
33 14 13 13-0438	EA	4" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	204.45 3.86 6.94 2.89	109.48

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0439	EA	6" Mechanical Joint Ductile Iron Caps.....	275.91	136.86
		For Cement Mortar Lining (CML), Add	6.86	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	12.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440	EA	8" Mechanical Joint Ductile Iron Caps.....	351.23	156.42
		For Cement Mortar Lining (CML), Add	11.43	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	20.57	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.57	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441	EA	10" Mechanical Joint Ductile Iron Caps.....	506.80	239.29
		For Cement Mortar Lining (CML), Add	14.42	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	25.96	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.82	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442	EA	12" Mechanical Joint Ductile Iron Caps.....	611.17	261.05
		For Cement Mortar Lining (CML), Add	21.56	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	38.82	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.17	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443	EA	14" Mechanical Joint Ductile Iron Caps.....	762.11	287.16
		For Cement Mortar Lining (CML), Add	32.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	58.87	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.53	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444	EA	16" Mechanical Joint Ductile Iron Caps.....	921.84	319.02
		For Cement Mortar Lining (CML), Add	43.84	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	78.92	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.88	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0445	EA	18" Mechanical Joint Ductile Iron Caps.....	1,079.38	358.94
		For Cement Mortar Lining (CML), Add	53.55	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	96.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0446	EA	20" Mechanical Joint Ductile Iron Caps.....	1,314.17	410.17
		For Cement Mortar Lining (CML), Add	69.26	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	124.67	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	51.95	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0447	EA	24" Mechanical Joint Ductile Iron Caps.....	1,676.23	478.58
		For Cement Mortar Lining (CML), Add	95.11	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	171.20	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.33	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0448	EA	30" Mechanical Joint Ductile Iron Caps.....	3,045.13	574.30
		For Cement Mortar Lining (CML), Add	217.50	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	391.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	163.12	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0449	EA	36" Mechanical Joint Ductile Iron Caps.....	5,043.48	717.88
		For Cement Mortar Lining (CML), Add	395.58	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	712.04	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	296.68	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0450	EA	42" Mechanical Joint Ductile Iron Caps.....	7,304.60	861.46
		For Cement Mortar Lining (CML), Add	599.94	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,079.88	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	449.95	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0451	EA	48" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,679.21 722.89 1,301.21 542.17	957.17
33 14 13 13-0452 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)				
33 14 13 13-0453	EA	3" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	184.22 4.28 7.71 3.21	93.31
33 14 13 13-0454	EA	4" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	213.02 4.71 8.48 3.53	109.48
33 14 13 13-0455	EA	6" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	298.76 9.14 16.45 6.86	136.86
33 14 13 13-0456	EA	8" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	374.08 13.71 24.68 10.28	156.42
33 14 13 13-0457	EA	10" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	599.62 23.71 42.67 17.78	239.29
33 14 13 13-0458	EA	12" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	636.88 24.14 43.44 18.10	261.05
33 14 13 13-0459	EA	14" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	926.34 49.13 88.43 36.84	287.16
33 14 13 13-0460	EA	16" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	546.26 6.28 11.31 4.71	319.02
33 14 13 13-0461	EA	18" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,323.58 77.97 140.35 58.48	358.94
33 14 13 13-0462	EA	20" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,646.91 102.54 184.56 76.90	410.17
33 14 13 13-0463	EA	24" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,147.50 142.24 256.03 106.68	478.58

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	3,693.47	574.30
For Cement Mortar Lining (CML), Add	282.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	508.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	5,449.06	717.88
For Cement Mortar Lining (CML), Add	436.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	785.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	327.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug.....	7,356.02	861.46
For Cement Mortar Lining (CML), Add	605.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,089.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	453.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug.....	9,516.06	957.17
For Cement Mortar Lining (CML), Add	806.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,451.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	604.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0468 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)		
33 14 13 13-0469 EA 3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	307.72	141.83
For Cement Mortar Lining (CML), Add	9.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470 EA 4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	348.80	164.23
For Cement Mortar Lining (CML), Add	10.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	449.55	205.29
For Cement Mortar Lining (CML), Add	13.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	565.40	234.58
For Cement Mortar Lining (CML), Add	20.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	909.44	358.94
For Cement Mortar Lining (CML), Add	36.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	65.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,061.70	391.58
For Cement Mortar Lining (CML), Add	46.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,396.64	430.73
For Cement Mortar Lining (CML), Add	74.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	133.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,574.84	478.58
For Cement Mortar Lining (CML), Add	84.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	152.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.73	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0477	EA	18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,115.33 129.96 233.92 97.47	538.41
33 14 13 13-0478	EA	20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,480.35 154.80 278.65 116.10	615.31
33 14 13 13-0479	EA	24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,994.19 190.65 343.17 142.99	717.88
33 14 13 13-0480	EA	30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,814.03 350.88 631.58 263.16	861.46
33 14 13 13-0481	EA	36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,659.81 502.83 905.09 377.12	1,076.83
33 14 13 13-0482	EA	42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,875.07 701.04 1,261.88 525.78	1,230.62
33 14 13 13-0483	EA	48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,955.24 877.98 1,580.37 658.49	1,435.77
33 14 13 13-0484		Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)		
33 14 13 13-0485	EA	3" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	293.43 7.85 14.14 5.89	141.83
33 14 13 13-0486	EA	4" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	341.66 9.28 16.71 6.96	164.23
33 14 13 13-0487	EA	6" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	466.69 15.57 28.02 11.67	205.29
33 14 13 13-0488	EA	8" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	611.10 25.56 46.01 19.17	234.58
33 14 13 13-0489	EA	10" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	848.03 30.42 54.75 22.81	358.94

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0490 EA 12" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,004.58 41.13 74.03 30.85	391.58
33 14 13 13-0491 EA 14" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,273.82 62.12 111.82 46.59	430.73
33 14 13 13-0492 EA 16" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,512.00 78.69 141.64 59.02	478.58
33 14 13 13-0493 EA 18" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,822.58 100.68 181.22 75.51	538.41
33 14 13 13-0494 EA 20" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,147.61 121.53 218.75 91.15	615.31
33 14 13 13-0495 EA 24" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,688.58 160.09 288.16 120.07	717.88
33 14 13 13-0496 EA 30" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,658.37 335.31 603.56 251.48	861.46
33 14 13 13-0497 EA 36" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,339.92 470.84 847.51 353.13	1,076.83
33 14 13 13-0498 EA 42" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,160.33 629.78 1,133.61 472.34	1,229.21
33 14 13 13-0499 EA 48" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,022.36 884.70 1,592.45 663.52	1,435.77
33 14 13 13-0500 Mechanical Joint Ductile Iron Gland Packs (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0501 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0500) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0502 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	28.56	
33 14 13 13-0503 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	48.42	
33 14 13 13-0504 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	58.51	
33 14 13 13-0505 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	68.60	
33 14 13 13-0506 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	94.82	



		Utilities	33	CS
		Water Utilities	33 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0507	EA	12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	100.88	
33 14 13 13-0508	EA	14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	165.44	
33 14 13 13-0509	EA	16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	175.52	
33 14 13 13-0510	EA	18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	234.03	
33 14 13 13-0511	EA	20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	302.63	
33 14 13 13-0512	EA	24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	421.66	
33 14 13 13-0513	EA	30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	1,006.74	
33 14 13 13-0514	EA	36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	2,170.85	
33 14 13 13-0515	EA	42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	3,169.52	
33 14 13 13-0516	EA	48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	3,889.78	
33 14 13 13-0517 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts (33 14 13 13-0500)				
Note: Labor installation is included with pipe fittings or valves.				
33 14 13 13-0518	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	48.55	
33 14 13 13-0519	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	68.60	
33 14 13 13-0520	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	86.75	
33 14 13 13-0521	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	94.82	
33 14 13 13-0522	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	131.14	
33 14 13 13-0523	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	137.19	
33 14 13 13-0524	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	207.80	
33 14 13 13-0525	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	227.98	
33 14 13 13-0526	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	302.63	
33 14 13 13-0527	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	391.40	
33 14 13 13-0528	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	546.75	
33 14 13 13-0529 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0500)				
Note: Labor installation is included with pipe fittings or valves.				
33 14 13 13-0530	EA	3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	31.42	
33 14 13 13-0531	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	52.46	
33 14 13 13-0532	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	62.54	
33 14 13 13-0533	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	74.65	
33 14 13 13-0534	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	102.89	
33 14 13 13-0535	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	108.95	
33 14 13 13-0536	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	179.56	
33 14 13 13-0537	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	189.65	
33 14 13 13-0538	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	256.22	
33 14 13 13-0539	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	328.86	
33 14 13 13-0540	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	459.99	
33 14 13 13-0541	EA	30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	1,101.57	
33 14 13 13-0542	EA	36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	2,441.20	
33 14 13 13-0543	EA	42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	3,534.70	
33 14 13 13-0544	EA	48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	4,349.77	

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0545		Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) (33 14 13 13-0002)		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.				
33 14 13 13-0546	EA	3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	191.43	71.15
33 14 13 13-0547	EA	4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	218.53	84.26
33 14 13 13-0548	EA	6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	271.08	104.28
33 14 13 13-0549	EA	8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	337.83	121.70
33 14 13 13-0550	EA	10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	491.27	179.47
33 14 13 13-0551	EA	12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	604.80	205.14
33 14 13 13-0552	EA	14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	703.31	220.80
33 14 13 13-0553	EA	16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	864.98	239.29
33 14 13 13-0554	EA	18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,108.86	287.16
33 14 13 13-0555	EA	20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,307.74	318.92
33 14 13 13-0556	EA	24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,695.82	367.97
33 14 13 13-0557	EA	30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,277.77	441.28
33 14 13 13-0558	EA	36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,048.09	552.22
33 14 13 13-0559	EA	42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	5,964.95	637.17
33 14 13 13-0560	EA	48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	7,638.98	819.47
33 14 13 13-0561		Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) (33 14 13 13-0002)		
33 14 13 13-0562	EA	3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,029.58	58.23
33 14 13 13-0563	EA	4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,196.16	72.78
33 14 13 13-0564	EA	6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,088.94	107.56
33 14 13 13-0565	EA	8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	8,274.29	127.58
33 14 13 13-0566	EA	10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	10,432.02	143.25
33 14 13 13-0567	EA	12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	13,913.09	168.05
33 14 13 13-0568	EA	14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	17,138.44	188.44
33 14 13 13-0569	EA	16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	20,275.26	215.37
33 14 13 13-0570	EA	18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	22,861.13	301.51
33 14 13 13-0571	EA	20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	30,754.11	376.89
33 14 13 13-0572	EA	24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	42,612.57	502.51
33 14 13 13-0573		Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) (33 14 13 13-0002)		
Note: Includes machined bolts and gasket.				
33 14 13 13-0574	EA	3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	190.08	71.15
33 14 13 13-0575	EA	4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	243.57	84.26
33 14 13 13-0576	EA	6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	314.51	104.28
33 14 13 13-0577	EA	8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	359.13	121.70
33 14 13 13-0578	EA	10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	629.11	186.62
33 14 13 13-0579	EA	12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	712.12	213.32
33 14 13 13-0580		Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) (33 14 13 13-0002)		
Note: Includes nuts, bolts and gasket.				
33 14 13 13-0581	EA	3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2103000).....	275.16	71.15
33 14 13 13-0582	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	342.01	84.26
33 14 13 13-0583	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	472.78	104.28
33 14 13 13-0584	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	681.86	121.70
33 14 13 13-0585	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	988.44	186.62
33 14 13 13-0586	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,227.86	213.32
33 14 13 13-0587	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	1,886.06	229.60
33 14 13 13-0588	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	2,638.94	248.83
33 14 13 13-0589	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	2,985.84	298.60
33 14 13 13-0590	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	3,298.36	331.62
33 14 13 13-0591	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	3,989.13	382.63
33 14 13 13-0592	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	5,130.26	458.87
33 14 13 13-0593	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	7,656.14	574.23
33 14 13 13-0594	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	19,921.05	662.57
33 14 13 13-0595	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	25,516.22	852.13
33 14 13 13-0596		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)		
Note: . See CSI section 33 14 13 13-0500 for bolts and gaskets.				
33 14 13 13-0597		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0598	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	365.71	40.60
33 14 13 13-0599	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	437.68	48.63
33 14 13 13-0600	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	678.38	71.26
33 14 13 13-0601	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	924.37	84.83
33 14 13 13-0602	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,264.28	95.72
33 14 13 13-0603	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,600.61	112.03



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		Water Utilities	33 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0604 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,266.76	126.18
33 14 13 13-0605 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,748.10	143.57
33 14 13 13-0606 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,327.77	201.22
33 14 13 13-0607 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,147.96	251.26
33 14 13 13-0608 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,859.45	335.01
33 14 13 13-0609 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	9,336.54	358.94
33 14 13 13-0610 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	13,711.45	373.08
33 14 13 13-0611 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	22,543.65	430.73
33 14 13 13-0612 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	29,462.95	457.92
33 14 13 13-0613 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0614 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	350.00	40.60
33 14 13 13-0615 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	410.55	48.63
33 14 13 13-0616 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	631.26	71.26
33 14 13 13-0617 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	851.54	84.83
33 14 13 13-0618 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,110.05	95.72
33 14 13 13-0619 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,462.08	112.03
33 14 13 13-0620 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,969.72	126.18
33 14 13 13-0621 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,356.80	143.57
33 14 13 13-0622 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,795.09	201.22
33 14 13 13-0623 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,395.36	251.26
33 14 13 13-0624 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,475.64	335.01
33 14 13 13-0625 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	8,169.80	358.94
33 14 13 13-0626 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	11,265.15	373.08
33 14 13 13-0627 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	16,708.51	430.73
33 14 13 13-0628 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	21,365.74	457.92
33 14 13 13-0629 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0630 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	274.31	40.60
33 14 13 13-0631 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	406.26	48.63
33 14 13 13-0632 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	614.12	71.26
33 14 13 13-0633 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	845.83	84.83
33 14 13 13-0634 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,108.62	95.72
33 14 13 13-0635 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,379.25	112.03
33 14 13 13-0636 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,981.14	126.18
33 14 13 13-0637 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,305.39	143.57
33 14 13 13-0638 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,782.24	201.22
33 14 13 13-0639 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,513.89	251.26
33 14 13 13-0640 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,381.39	335.01
33 14 13 13-0641 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	7,280.10	358.94
33 14 13 13-0642 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,908.48	373.08
33 14 13 13-0643 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	14,153.68	430.73
33 14 13 13-0644 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	18,099.72	457.92
33 14 13 13-0645 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0646 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	274.31	40.60
33 14 13 13-0647 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	484.81	48.63
33 14 13 13-0648 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	619.83	71.26
33 14 13 13-0649 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	820.12	84.83
33 14 13 13-0650 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,105.77	95.72
33 14 13 13-0651 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,340.70	112.03
33 14 13 13-0652 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,131.09	126.18
33 14 13 13-0653 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,375.37	143.57
33 14 13 13-0654 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,187.81	201.22
33 14 13 13-0655 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,391.07	251.26
33 14 13 13-0656 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,382.82	335.01
33 14 13 13-0657 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,374.36	358.94
33 14 13 13-0658 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,638.57	373.08
33 14 13 13-0659 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	13,768.10	430.73
33 14 13 13-0660 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	17,996.90	457.92
33 14 13 13-0661 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0662 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	321.44	40.60
33 14 13 13-0663 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	470.53	48.63
33 14 13 13-0664 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	732.65	71.26
33 14 13 13-0665 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	992.92	84.83
33 14 13 13-0666 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,364.25	95.72

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0667 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,710.57	112.03
33 14 13 13-0668 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,056.49	126.18
33 14 13 13-0669 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	4,757.41	143.57
33 14 13 13-0670 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	5,445.61	201.22
33 14 13 13-0671 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	6,281.51	251.26
33 14 13 13-0672 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	6,807.70	335.01
33 14 13 13-0673 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0674 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	321.44	40.60
33 14 13 13-0675 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	416.25	48.63
33 14 13 13-0676 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	654.11	71.26
33 14 13 13-0677 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	921.51	84.83
33 14 13 13-0678 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,220.01	95.72
33 14 13 13-0679 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,584.90	112.03
33 14 13 13-0680 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,106.81	126.18
33 14 13 13-0681 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,529.60	143.57
33 14 13 13-0682 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	4,717.28	201.22
33 14 13 13-0683 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	4,959.09	251.26
33 14 13 13-0684 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	5,182.54	335.01
33 14 13 13-0685 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee (33 14 13 13-0596)		
33 14 13 13-0686 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	453.59	60.92
33 14 13 13-0687 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	495.34	68.67
33 14 13 13-0688 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	522.72	71.26
33 14 13 13-0689 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	742.37	90.32
33 14 13 13-0690 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	803.70	93.88
33 14 13 13-0691 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	849.22	105.19
33 14 13 13-0692 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	984.86	108.58
33 14 13 13-0693 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,066.09	119.89
33 14 13 13-0694 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,171.66	127.81
33 14 13 13-0695 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,318.01	118.56
33 14 13 13-0696 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,318.61	129.44
33 14 13 13-0697 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,428.04	137.05
33 14 13 13-0698 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,539.94	143.57
33 14 13 13-0699 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,583.97	132.69
33 14 13 13-0700 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,600.27	143.57
33 14 13 13-0701 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,729.69	151.19
33 14 13 13-0702 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,990.11	157.72
33 14 13 13-0703 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,996.70	165.33
33 14 13 13-0704 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,257.49	167.50
33 14 13 13-0705 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,441.17	175.11
33 14 13 13-0706 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,955.79	181.64
33 14 13 13-0707 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,119.47	189.26
33 14 13 13-0708 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,896.13	201.22
33 14 13 13-0709 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,700.77	201.22
33 14 13 13-0710 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,845.99	207.75
33 14 13 13-0711 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,406.31	215.37
33 14 13 13-0712 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,200.12	221.89
33 14 13 13-0713 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,162.08	233.86
33 14 13 13-0714 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,774.69	251.26
33 14 13 13-0715 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,544.38	257.79
33 14 13 13-0716 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,736.63	264.31
33 14 13 13-0717 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,979.92	270.83
33 14 13 13-0718 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,205.01	278.45
33 14 13 13-0719 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,321.55	290.41
33 14 13 13-0720 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,616.78	306.73
33 14 13 13-0721 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,152.08	335.01
33 14 13 13-0722 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,091.99	368.73
33 14 13 13-0723 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,161.42	376.35
33 14 13 13-0724 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,566.08	382.87
33 14 13 13-0725 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,788.32	390.48



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0726 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,837.73	402.44
33 14 13 13-0727 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,781.65	418.77
33 14 13 13-0728 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,092.39	447.04
33 14 13 13-0729 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,223.01	502.51
33 14 13 13-0730 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,974.66	479.67
33 14 13 13-0731 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,022.68	488.38
33 14 13 13-0732 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,113.16	493.81
33 14 13 13-0733 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,246.84	501.43
33 14 13 13-0734 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,954.60	513.39
33 14 13 13-0735 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,209.85	529.70
33 14 13 13-0736 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,620.56	557.99
33 14 13 13-0737 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,876.51	614.55
33 14 13 13-0738 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,411.02	670.02
33 14 13 13-0739 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,641.85	559.08
33 14 13 13-0740 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,235.73	566.69
33 14 13 13-0741 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,698.94	573.22
33 14 13 13-0742 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,163.95	580.83
33 14 13 13-0743 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,824.59	592.80
33 14 13 13-0744 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,538.24	788.58
33 14 13 13-0745 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,498.01	637.39
33 14 13 13-0746 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,498.34	692.87
33 14 13 13-0747 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,943.96	748.33
33 14 13 13-0748 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,040.32	788.58
33 14 13 13-0749 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,930.79	628.69
33 14 13 13-0750 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,978.08	635.22
33 14 13 13-0751 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,544.48	642.83
33 14 13 13-0752 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,946.64	654.79
33 14 13 13-0753 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,351.83	671.11
33 14 13 13-0754 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,131.32	699.39
33 14 13 13-0755 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,954.22	754.86
33 14 13 13-0756 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,348.09	810.33
33 14 13 13-0757 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,190.25	881.04
33 14 13 13-0758 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,633.48	881.04
33 14 13 13-0759 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,147.58	677.64
33 14 13 13-0760 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,572.59	688.52
33 14 13 13-0761 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,714.32	705.91
33 14 13 13-0762 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,015.81	734.20
33 14 13 13-0763 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,100.38	789.67
33 14 13 13-0764 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,457.76	845.14
33 14 13 13-0765 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,864.71	885.39
33 14 13 13-0766 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,289.76	915.84
33 14 13 13-0767 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,812.62	933.24
33 14 13 13-0768 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	24,649.99	732.02
33 14 13 13-0769 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,092.13	743.98
33 14 13 13-0770 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,720.10	761.39
33 14 13 13-0771 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,361.08	788.58
33 14 13 13-0772 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,048.30	845.14
33 14 13 13-0773 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,212.60	900.62
33 14 13 13-0774 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,213.27	939.77
33 14 13 13-0775 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,537.86	971.31
33 14 13 13-0776 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,470.63	988.72
33 14 13 13-0777 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	39,201.94	1,015.91

33 14 13 13-0778 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0596)

33 14 13 13-0779 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	508.72	68.08
33 14 13 13-0780 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	558.71	68.08
33 14 13 13-0781 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	654.11	71.26
33 14 13 13-0782 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	723.80	90.32
33 14 13 13-0783 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	806.56	93.88
33 14 13 13-0784 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	984.89	105.19
33 14 13 13-0785 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,289.04	108.58
33 14 13 13-0786 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,191.76	119.89
33 14 13 13-0787 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,338.75	127.81
33 14 13 13-0788 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,887.81	118.56
33 14 13 13-0789 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,966.96	129.44
33 14 13 13-0790 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,199.20	137.05
33 14 13 13-0791 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,399.65	143.57
33 14 13 13-0792 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,302.30	132.69
33 14 13 13-0793 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,609.92	143.57
33 14 13 13-0794 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,086.37	151.19
33 14 13 13-0795 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,089.73	157.72
33 14 13 13-0796 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,853.55	165.33
33 14 13 13-0797 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,388.53	167.50
33 14 13 13-0798 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,893.53	175.11
33 14 13 13-0799 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,125.04	181.64
33 14 13 13-0800 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,495.80	189.26
33 14 13 13-0801 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,356.71	201.22
33 14 13 13-0802 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,530.58	201.22
33 14 13 13-0803 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,898.48	207.75

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0804 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,624.46	215.37
33 14 13 13-0805 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,771.01	221.89
33 14 13 13-0806 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,905.77	233.86
33 14 13 13-0807 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,588.35	251.26
33 14 13 13-0808 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,001.02	257.79
33 14 13 13-0809 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,393.21	264.31
33 14 13 13-0810 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,772.16	270.83
33 14 13 13-0811 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,182.90	278.45
33 14 13 13-0812 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,246.60	290.41
33 14 13 13-0813 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,319.05	306.73
33 14 13 13-0814 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,731.88	335.01
33 14 13 13-0815 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,894.23	368.73
33 14 13 13-0816 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,023.64	376.35
33 14 13 13-0817 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,633.94	382.87
33 14 13 13-0818 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,238.90	390.48
33 14 13 13-0819 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,306.89	402.44
33 14 13 13-0820 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,386.47	418.77
33 14 13 13-0821 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,580.10	447.04
33 14 13 13-0822 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,082.03	502.51
33 14 13 13-0823 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,146.77	479.67
33 14 13 13-0824 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,239.06	487.28
33 14 13 13-0825 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,089.28	493.81
33 14 13 13-0826 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,475.73	501.43
33 14 13 13-0827 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,823.27	513.39
33 14 13 13-0828 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,938.22	529.70
33 14 13 13-0829 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,258.97	557.99
33 14 13 13-0830 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,468.87	614.55
33 14 13 13-0831 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,878.05	670.02
33 14 13 13-0832 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	15,008.23	559.08
33 14 13 13-0833 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,861.33	566.69
33 14 13 13-0834 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	17,855.79	573.22
33 14 13 13-0835 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,852.05	580.83
33 14 13 13-0836 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,263.85	592.80
33 14 13 13-0837 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	21,781.52	609.11
33 14 13 13-0838 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,323.94	637.39
33 14 13 13-0839 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	23,106.86	692.87
33 14 13 13-0840 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	24,197.97	748.33
33 14 13 13-0841 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	26,240.07	788.58
33 14 13 13-0842 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	28,921.02	642.83
33 14 13 13-0843 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	30,062.91	654.79
33 14 13 13-0844 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	31,197.85	671.11
33 14 13 13-0845 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	33,389.72	699.39
33 14 13 13-0846 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,632.13	754.86
33 14 13 13-0847 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	39,540.85	810.33
33 14 13 13-0848 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	44,329.14	850.58
33 14 13 13-0849 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	52,983.09	881.04
33 14 13 13-0850 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	46,613.67	789.67
33 14 13 13-0851 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	47,756.20	845.14
33 14 13 13-0852 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	51,023.59	885.39
33 14 13 13-0853 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	58,406.54	915.84
33 14 13 13-0854 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	68,976.28	933.24
33 14 13 13-0855 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	45,946.08	845.14
33 14 13 13-0856 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	52,071.19	900.62
33 14 13 13-0857 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	55,508.51	939.77
33 14 13 13-0858 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	63,335.60	971.31
33 14 13 13-0859 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	82,980.79	988.72
33 14 13 13-0860 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	91,144.07	1,015.91

33 14 13 13-0861 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee

(33 14 13 13-0596)

33 14 13 13-0862 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	902.06	105.19
33 14 13 13-0863 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,120.36	119.89
33 14 13 13-0864 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,604.23	129.44
33 14 13 13-0865 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,845.90	143.57
33 14 13 13-0866 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,438.85	167.50
33 14 13 13-0867 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,970.78	201.22
33 14 13 13-0868 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	3,508.68	257.79
33 14 13 13-0869 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	4,718.92	368.73
33 14 13 13-0870 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	5,509.66	479.67
33 14 13 13-0871 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	9,982.82	559.08



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0872 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross			
<i>(33 14 13 13-0596)</i>			
33 14 13 13-0873	EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	507.21	81.22
33 14 13 13-0874	EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	632.31	88.38
33 14 13 13-0875	EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	788.36	89.35
33 14 13 13-0876	EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	837.61	110.77
33 14 13 13-0877	EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	979.27	119.89
33 14 13 13-0878	EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,083.05	149.30
33 14 13 13-0879	EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,040.52	131.20
33 14 13 13-0880	EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,227.14	160.61
33 14 13 13-0881	EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,215.57	171.92
33 14 13 13-0882	EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,224.26	139.22
33 14 13 13-0883	EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,373.43	167.50
33 14 13 13-0884	EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,629.68	178.38
33 14 13 13-0885	EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,765.31	191.44
33 14 13 13-0886	EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,570.81	151.19
33 14 13 13-0887	EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,818.54	179.47
33 14 13 13-0888	EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,973.38	190.34
33 14 13 13-0889	EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,300.38	203.40
33 14 13 13-0890	EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,625.52	215.37
33 14 13 13-0891	EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,712.57	196.87
33 14 13 13-0892	EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,214.43	207.75
33 14 13 13-0893	EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,292.95	221.89
33 14 13 13-0894	EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,475.27	232.76
33 14 13 13-0895	EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,850.90	251.26
33 14 13 13-0896	EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,036.22	222.98
33 14 13 13-0897	EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,472.41	232.76
33 14 13 13-0898	EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,184.98	246.91
33 14 13 13-0899	EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,678.64	258.87
33 14 13 13-0900	EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,681.19	276.28
33 14 13 13-0901	EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,930.59	301.29
33 14 13 13-0902	EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,234.15	263.22
33 14 13 13-0903	EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,537.52	274.10
33 14 13 13-0904	EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,797.39	287.16
33 14 13 13-0905	EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,296.75	299.12
33 14 13 13-0906	EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,375.00	316.52
33 14 13 13-0907	EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,845.75	341.54
33 14 13 13-0908	EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,194.32	382.87
33 14 13 13-0909	EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,580.98	330.66
33 14 13 13-0910	EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,887.21	340.45
33 14 13 13-0911	EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,097.10	354.59
33 14 13 13-0912	EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,592.19	366.55
33 14 13 13-0913	EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,716.47	383.96
33 14 13 13-0914	EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,382.52	408.97
33 14 13 13-0915	EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,731.09	449.22
33 14 13 13-0916	EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,503.83	516.66
33 14 13 13-0917	EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,005.71	413.32
33 14 13 13-0918	EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,215.16	424.20
33 14 13 13-0919	EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,568.95	437.25
33 14 13 13-0920	EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,874.10	449.22
33 14 13 13-0921	EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,044.08	466.62
33 14 13 13-0922	EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,419.16	491.64
33 14 13 13-0923	EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,880.94	532.97
33 14 13 13-0924	EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,603.70	599.33
33 14 13 13-0925	EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,071.61	681.99
33 14 13 13-0926	EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,967.49	549.29
33 14 13 13-0927	EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,244.49	562.34
33 14 13 13-0928	EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,516.80	574.30
33 14 13 13-0929	EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,838.16	591.71
33 14 13 13-0930	EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	15,206.09	617.81
33 14 13 13-0931	EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	15,633.20	658.06
33 14 13 13-0932	EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,171.74	724.41
33 14 13 13-0933	EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,839.99	808.16
33 14 13 13-0934	EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	23,961.78	933.24
33 14 13 13-0935	EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,564.18	594.97
33 14 13 13-0936	EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,838.33	608.03
33 14 13 13-0937	EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,074.93	619.99
33 14 13 13-0938	EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,356.30	638.48
33 14 13 13-0939	EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,685.67	663.49
33 14 13 13-0940	EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,074.23	703.74
33 14 13 13-0941	EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,577.06	771.18
33 14 13 13-0942	EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,466.61	853.85
33 14 13 13-0943	EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,332.48	978.93
33 14 13 13-0944	EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	33,348.62	1,025.70
33 14 13 13-0945	EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,321.85	647.18
33 14 13 13-0946	EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,870.27	664.58
33 14 13 13-0947	EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,189.65	690.69
33 14 13 13-0948	EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,632.47	730.94
33 14 13 13-0949	EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,430.92	798.37

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0950 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,117.32	881.04
33 14 13 13-0951 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,612.25	1,006.12
33 14 13 13-0952 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	47,928.40	1,051.80
33 14 13 13-0953 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	51,377.70	1,079.00
33 14 13 13-0954 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	35,639.43	753.78
33 14 13 13-0955 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	35,875.11	771.18
33 14 13 13-0956 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,190.21	796.20
33 14 13 13-0957 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,530.19	836.44
33 14 13 13-0958 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,981.63	903.88
33 14 13 13-0959 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	37,766.92	986.54
33 14 13 13-0960 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	39,941.90	1,111.63
33 14 13 13-0961 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	49,027.37	1,158.40
33 14 13 13-0962 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	63,165.87	1,185.59
33 14 13 13-0963 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	67,259.53	1,291.10
33 14 13 13-0964 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0956)		
33 14 13 13-0965 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	359.72	44.19
33 14 13 13-0966 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	502.35	55.39
33 14 13 13-0967 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	552.05	58.82
33 14 13 13-0968 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	723.41	66.73
33 14 13 13-0969 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	753.13	78.04
33 14 13 13-0970 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	885.63	70.70
33 14 13 13-0971 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	927.64	81.58
33 14 13 13-0972 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	965.66	89.19
33 14 13 13-0973 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,023.59	78.31
33 14 13 13-0974 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,132.74	89.19
33 14 13 13-0975 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,152.19	95.72
33 14 13 13-0976 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,204.11	103.33
33 14 13 13-0977 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,767.67	101.15
33 14 13 13-0978 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,778.56	107.68
33 14 13 13-0979 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,550.57	115.30
33 14 13 13-0980 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,582.87	121.83
33 14 13 13-0981 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,118.59	117.47
33 14 13 13-0982 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,056.65	125.08
33 14 13 13-0983 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,932.91	131.61
33 14 13 13-0984 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,910.94	138.14
33 14 13 13-0985 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,160.29	150.10
33 14 13 13-0986 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,306.32	152.28
33 14 13 13-0987 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,599.59	159.90
33 14 13 13-0988 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,484.80	166.42
33 14 13 13-0989 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,968.35	178.38
33 14 13 13-0990 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,603.80	195.79
33 14 13 13-0991 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,072.09	208.84
33 14 13 13-0992 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,096.89	215.37
33 14 13 13-0993 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,816.43	222.98
33 14 13 13-0994 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,815.87	234.94
33 14 13 13-0995 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,749.79	251.26
33 14 13 13-0996 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,250.81	279.54



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MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 14 13 13-0997	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,871.85		278.45
33 14 13 13-0998	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,929.84		290.41
33 14 13 13-0999	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,000.86		306.73
33 14 13 13-1000	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,943.49		335.01
33 14 13 13-1001	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,549.32		390.48
33 14 13 13-1002	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,045.46		345.89
33 14 13 13-1003	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,346.55		374.17
33 14 13 13-1004	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,085.53		430.73
33 14 13 13-1005	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,018.82		486.20
33 14 13 13-1006	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,293.13		461.19
33 14 13 13-1007	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,647.70		516.66
33 14 13 13-1008	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,233.16		556.91
33 14 13 13-1009	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,717.75		394.83
33 14 13 13-1010	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,640.40		423.12
33 14 13 13-1011	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,680.71		478.58
33 14 13 13-1012	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,220.58		534.06
33 14 13 13-1013	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,635.71		574.30
33 14 13 13-1014	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,176.73		604.76
33 14 13 13-1015	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	17,279.76		422.03
33 14 13 13-1016	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,725.43		450.31
33 14 13 13-1017	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,893.18		505.78
33 14 13 13-1018	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,361.65		562.34
33 14 13 13-1019	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	19,599.05		601.50
33 14 13 13-1020	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,961.17		631.95
33 14 13 13-1021	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	18,649.68		649.36
33 14 13 13-1022		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps (33 14 13 13-0596)			
33 14 13 13-1023	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	337.03		93.31
33 14 13 13-1024	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	405.81		109.71
33 14 13 13-1025	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	590.09		136.86
33 14 13 13-1026	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	786.79		156.08
33 14 13 13-1027	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,055.18		239.29
33 14 13 13-1028	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,323.78		261.05
33 14 13 13-1029	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,503.28		287.16
33 14 13 13-1030	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,824.39		318.70
33 14 13 13-1031	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,134.73		358.94
33 14 13 13-1032	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,570.88		410.06
33 14 13 13-1033	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	3,288.53		478.58
33 14 13 13-1034	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	5,918.42		574.30
33 14 13 13-1035	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	9,664.75		717.88
33 14 13 13-1036	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	13,900.91		861.46
33 14 13 13-1037	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	16,540.78		957.17
33 14 13 13-1038		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug (33 14 13 13-0596)			
33 14 13 13-1039	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	338.46		93.31
33 14 13 13-1040	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	420.09		109.71
33 14 13 13-1041	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	627.22		136.86
33 14 13 13-1042	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	823.92		156.08
33 14 13 13-1043	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,267.96		239.29
33 14 13 13-1044	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,372.34		261.05
33 14 13 13-1045	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,813.18		287.16
33 14 13 13-1046	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,182.84		318.70
33 14 13 13-1047	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,593.14		358.94

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1048 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,190.67	410.06
33 14 13 13-1049 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,171.09	478.58
33 14 13 13-1050 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	7,138.00	574.30
33 14 13 13-1051 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	10,423.06	717.88
33 14 13 13-1052 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	13,996.59	861.46
33 14 13 13-1053 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	18,570.08	957.17
33 14 13 13-1054 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0596)		
33 14 13 13-1055 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	461.95	141.83
33 14 13 13-1056 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	607.28	164.00
33 14 13 13-1057 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	832.28	205.85
33 14 13 13-1058 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,088.07	234.13
33 14 13 13-1059 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,612.05	358.94
33 14 13 13-1060 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,918.55	391.58
33 14 13 13-1061 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,494.83	430.73
33 14 13 13-1062 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,830.12	478.58
33 14 13 13-1063 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,697.65	538.41
33 14 13 13-1064 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,286.87	615.64
33 14 13 13-1065 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	5,184.86	717.88
33 14 13 13-1066 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	8,110.04	861.46
33 14 13 13-1067 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	11,015.45	1,076.83
33 14 13 13-1068 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	14,947.27	1,230.18
33 14 13 13-1069 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	18,561.19	1,435.77
33 14 13 13-1070 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0596)		
33 14 13 13-1071 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	479.08	141.83
33 14 13 13-1072 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	585.86	164.00
33 14 13 13-1073 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	856.56	205.85
33 14 13 13-1074 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,153.77	234.13
33 14 13 13-1075 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,520.66	358.94
33 14 13 13-1076 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,832.86	391.58
33 14 13 13-1077 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,312.04	430.73
33 14 13 13-1078 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,733.01	478.58
33 14 13 13-1079 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,257.80	538.41
33 14 13 13-1080 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,791.33	615.64
33 14 13 13-1081 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,730.73	717.88
33 14 13 13-1082 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	7,874.41	861.46
33 14 13 13-1083 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	10,228.58	1,076.83
33 14 13 13-1084 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	13,285.71	1,229.10
33 14 13 13-1085 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	19,667.95	1,435.77
33 14 13 13-1086 Push-On Joint Ductile Iron Piping (33 14 13 13-0001)		
33 14 13 13-1087 Push-On Joint Ductile Iron Pipe (33 14 13 13-1086)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1088 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....	33.28	9.33
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.40	
For Cement Mortar Lining (CML), Add	1.91	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.34	
For Fusion Bonded Epoxy Lining (206N), Add	3.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.44	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.66	
For Class 51, Add	2.79	
For Class 52, Add	6.00	
For Class 53, Add	10.79	
For Class 54, Add	15.38	
For Class 55, Add	17.70	
For Class 56, Add	19.98	



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33 14 13 13-1089	LF	6", Class 50, Push-On Joint Ductile Iron Pipe.....	36.50	10.29
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	14.70	
		For Cement Mortar Lining (CML), Add	2.10	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	11.34	
		For Fusion Bonded Epoxy Lining (206N), Add	3.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.58	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-1.83	
		For Class 51, Add	3.06	
		For Class 52, Add	6.58	
		For Class 53, Add	11.84	
		For Class 54, Add	16.87	
		For Class 55, Add	19.42	
		For Class 56, Add	21.92	
33 14 13 13-1090	LF	8", Class 50, Push-On Joint Ductile Iron Pipe.....	45.67	11.31
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.10	
		For Cement Mortar Lining (CML), Add	2.87	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	15.50	
		For Fusion Bonded Epoxy Lining (206N), Add	5.17	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.15	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-2.28	
		For Class 51, Add	4.13	
		For Class 52, Add	8.90	
		For Class 53, Add	16.02	
		For Class 54, Add	22.85	
		For Class 55, Add	26.28	
		For Class 56, Add	29.65	
33 14 13 13-1091	LF	10", Class 50, Push-On Joint Ductile Iron Pipe.....	64.96	16.20
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.29	
		For Cement Mortar Lining (CML), Add	4.05	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	20.25	
		For Fusion Bonded Epoxy Lining (206N), Add	7.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.04	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-3.25	
		For Class 51, Add	5.82	
		For Class 52, Add	12.56	
		For Class 53, Add	22.62	
		For Class 54, Add	32.26	
		For Class 55, Add	37.10	
		For Class 56, Add	41.86	
33 14 13 13-1092	LF	12", Class 50, Push-On Joint Ductile Iron Pipe.....	75.47	17.95
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.14	
		For Cement Mortar Lining (CML), Add	4.83	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	19.31	
		For Fusion Bonded Epoxy Lining (206N), Add	8.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.62	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-3.77	
		For Class 51, Add	6.92	
		For Class 52, Add	14.93	
		For Class 53, Add	26.89	
		For Class 54, Add	38.36	
		For Class 55, Add	44.11	
		For Class 56, Add	49.76	
33 14 13 13-1093	LF	14", Class 50, Push-On Joint Ductile Iron Pipe.....	92.11	20.23
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	27.08	
		For Cement Mortar Lining (CML), Add	6.15	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	20.92	
		For Fusion Bonded Epoxy Lining (206N), Add	11.08	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.62	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-4.61	
		For Class 51, Add	8.77	
		For Class 52, Add	18.92	
		For Class 53, Add	34.13	
		For Class 54, Add	48.69	
		For Class 55, Add	55.97	
		For Class 56, Add	63.13	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1094 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	109.21	23.06
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	30.46	
For Cement Mortar Lining (CML), Add	7.43	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.03	
For Fusion Bonded Epoxy Lining (206N), Add	13.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.57	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.46	
For Class 51, Add	10.56	
For Class 52, Add	22.80	
For Class 53, Add	41.13	
For Class 54, Add	58.69	
For Class 55, Add	67.45	
For Class 56, Add	76.06	
33 14 13 13-1095 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	127.08	26.97
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	35.38	
For Cement Mortar Lining (CML), Add	8.63	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.75	
For Fusion Bonded Epoxy Lining (206N), Add	15.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.47	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.35	
For Class 51, Add	12.27	
For Class 52, Add	26.48	
For Class 53, Add	47.77	
For Class 54, Add	68.17	
For Class 55, Add	78.36	
For Class 56, Add	88.36	
33 14 13 13-1096 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	146.56	32.30
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	37.09	
For Cement Mortar Lining (CML), Add	9.76	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	27.33	
For Fusion Bonded Epoxy Lining (206N), Add	17.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.33	
For Class 51, Add	13.92	
For Class 52, Add	30.03	
For Class 53, Add	54.14	
For Class 54, Add	77.26	
For Class 55, Add	88.81	
For Class 56, Add	100.16	
33 14 13 13-1097 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	185.44	40.35
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	38.50	
For Cement Mortar Lining (CML), Add	12.42	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.08	
For Fusion Bonded Epoxy Lining (206N), Add	22.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.27	
For Class 51, Add	17.69	
For Class 52, Add	38.18	
For Class 53, Add	68.86	
For Class 54, Add	98.25	
For Class 55, Add	112.94	
For Class 56, Add	127.36	
33 14 13 13-1098 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	219.84	43.07
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	47.92	
For Cement Mortar Lining (CML), Add	15.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.59	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-10.99	
For Class 51, Add	21.89	
For Class 52, Add	47.25	
For Class 53, Add	85.29	
For Class 54, Add	121.73	
For Class 55, Add	139.88	
For Class 56, Add	157.70	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1099	LF	36", Class 50, Push-On Joint Ductile Iron Pipe.....	272.89	45.79
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	63.08	
		For Cement Mortar Lining (CML), Add	20.35	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	36.63	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.26	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-13.64	
		For Class 51, Add	28.60	
		For Class 52, Add	61.78	
		For Class 53, Add	111.65	
		For Class 54, Add	159.42	
		For Class 55, Add	183.10	
		For Class 56, Add	206.35	
33 14 13 13-1100	LF	42", Class 50, Push-On Joint Ductile Iron Pipe.....	332.90	48.52
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	80.44	
		For Cement Mortar Lining (CML), Add	25.95	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	46.71	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.46	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-16.65	
		For Class 51, Add	36.28	
		For Class 52, Add	78.41	
		For Class 53, Add	141.81	
		For Class 54, Add	202.54	
		For Class 55, Add	232.54	
		For Class 56, Add	262.00	
33 14 13 13-1101	LF	48", Class 50, Push-On Joint Ductile Iron Pipe.....	401.04	51.12
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	100.28	
		For Cement Mortar Lining (CML), Add	32.35	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	58.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.26	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-20.05	
		For Class 51, Add	45.06	
		For Class 52, Add	97.40	
		For Class 53, Add	176.27	
		For Class 54, Add	251.80	
		For Class 55, Add	289.03	
		For Class 56, Add	325.59	
33 14 13 13-1102	LF	54", Class 50, Push-On Joint Ductile Iron Pipe.....	508.88	53.84
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	132.46	
		For Cement Mortar Lining (CML), Add	42.73	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	76.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.05	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-25.44	
		For Class 51, Add	59.26	
		For Class 52, Add	128.14	
		For Class 53, Add	232.05	
		For Class 54, Add	331.56	
		For Class 55, Add	380.48	
		For Class 56, Add	428.50	
33 14 13 13-1103 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1086)				
33 14 13 13-1104	EA	4" 90 Degree Elbow, Push-On Joint Ductile Iron	177.50	36.42
		For Cement Mortar Lining (CML), Add	12.23	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	22.02	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.17	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1105	EA	6" 90 Degree Elbow, Push-On Joint Ductile Iron	257.74	53.73
		For Cement Mortar Lining (CML), Add	17.63	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	31.74	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.22	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1106	EA	8" 90 Degree Elbow, Push-On Joint Ductile Iron	341.27	63.79
		For Cement Mortar Lining (CML), Add	24.46	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	44.02	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.34	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1107	EA	10"	90 Degree Elbow, Push-On Joint Ductile Iron	517.74	71.57
			For Cement Mortar Lining (CML), Add	36.97	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	66.55	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.73	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108	EA	12"	90 Degree Elbow, Push-On Joint Ductile Iron	662.68	83.97
			For Cement Mortar Lining (CML), Add	48.92	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	88.05	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.69	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1109	EA	14"	90 Degree Elbow, Push-On Joint Ductile Iron	1,267.51	94.19
			For Cement Mortar Lining (CML), Add	107.28	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	193.10	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	80.46	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110	EA	16"	90 Degree Elbow, Push-On Joint Ductile Iron	1,433.57	107.68
			For Cement Mortar Lining (CML), Add	121.11	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	218.00	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	90.83	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1111	EA	18"	90 Degree Elbow, Push-On Joint Ductile Iron	2,222.68	150.75
			For Cement Mortar Lining (CML), Add	191.12	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	344.02	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	143.34	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1112	EA	20"	90 Degree Elbow, Push-On Joint Ductile Iron	2,508.90	190.02
			For Cement Mortar Lining (CML), Add	212.89	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	383.20	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	159.67	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1113	EA	24"	90 Degree Elbow, Push-On Joint Ductile Iron	3,132.88	237.56
			For Cement Mortar Lining (CML), Add	265.79	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	478.42	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	199.34	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1114			Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1086)		
33 14 13 13-1115	EA	4"	45 Degree Elbow, Push-On Joint Ductile Iron	149.68	36.42
			For Cement Mortar Lining (CML), Add	9.45	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	17.01	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.09	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1116	EA	6"	45 Degree Elbow, Push-On Joint Ductile Iron	220.34	53.73
			For Cement Mortar Lining (CML), Add	13.89	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	25.00	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.42	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1117	EA	8"	45 Degree Elbow, Push-On Joint Ductile Iron	301.03	63.79
			For Cement Mortar Lining (CML), Add	20.43	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	36.78	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.32	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1118	EA	10"	45 Degree Elbow, Push-On Joint Ductile Iron	462.19	71.57
			For Cement Mortar Lining (CML), Add	31.42	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	56.55	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.56	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1119	EA	12"	45 Degree Elbow, Push-On Joint Ductile Iron	591.91	83.97
			For Cement Mortar Lining (CML), Add	41.84	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	75.30	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.38	
			Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1120 EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	825.51 63.08 113.54 47.31	94.19
33 14 13 13-1121 EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,202.14 97.97 176.34 73.47	107.68
33 14 13 13-1122 EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,399.33 108.79 195.81 81.59	150.75
33 14 13 13-1123 EA 20" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,945.18 156.52 281.73 117.39	190.02
33 14 13 13-1124 EA 24" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,414.90 193.99 349.18 145.49	237.56
33 14 13 13-1125 Push-On Joint Ductile Iron Tee (33 14 13 13-1086)		
33 14 13 13-1126 EA 4" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	270.55 18.91 34.04 14.18	53.73
33 14 13 13-1127 EA 6" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	378.44 25.88 46.58 19.41	78.95
33 14 13 13-1128 EA 8" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	511.98 36.69 66.04 27.52	95.68
33 14 13 13-1129 EA 10" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	740.44 57.73 103.91 43.30	108.77
33 14 13 13-1130 EA 12" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	918.35 72.80 131.04 54.60	125.42
33 14 13 13-1131 EA 14" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,456.44 122.80 221.05 92.10	150.75
33 14 13 13-1132 EA 16" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,092.28 180.68 325.22 135.51	188.50

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1133 EA 18" Tee, Push-On Joint Ductile Iron.....	2,636.18	251.47
For Cement Mortar Lining (CML), Add	225.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	405.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	169.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134 EA 20" Tee, Push-On Joint Ductile Iron.....	3,111.12	306.84
For Cement Mortar Lining (CML), Add	264.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	476.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	198.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1135 EA 24" Tee, Push-On Joint Ductile Iron.....	4,066.75	383.53
For Cement Mortar Lining (CML), Add	348.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	627.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	261.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1136 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1086)		
33 14 13 13-1137 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron	374.26	126.34
For Cement Mortar Lining (CML), Add	18.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1138 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron	458.63	156.42
For Cement Mortar Lining (CML), Add	22.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1139 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron	595.10	182.43
For Cement Mortar Lining (CML), Add	31.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron	823.48	269.21
For Cement Mortar Lining (CML), Add	41.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron	992.57	307.71
For Cement Mortar Lining (CML), Add	52.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron	1,139.26	331.31
For Cement Mortar Lining (CML), Add	63.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	114.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron	1,347.32	358.94
For Cement Mortar Lining (CML), Add	80.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	144.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron	1,594.61	430.73
For Cement Mortar Lining (CML), Add	94.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	169.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	70.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron	1,847.22	478.58
For Cement Mortar Lining (CML), Add	112.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	201.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.16	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1146 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,305.10 146.84 264.31 110.13	552.22
33 14 13 13-1147 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,639.42 263.54 474.37 197.65	662.63
33 14 13 13-1148 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,015.28 376.03 676.85 282.02	828.28
33 14 13 13-1149 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,319.31 486.90 876.43 365.18	957.17
33 14 13 13-1150 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,067.43 620.28 1,116.50 465.21	1,230.62
33 14 13 13-1151 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,788.47 761.25 1,370.25 570.94	1,436.09
33 14 13 13-1152 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1086) Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1153 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	39.24	19.67
33 14 13 13-1154 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	52.34	25.66
33 14 13 13-1155 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	69.07	26.62
33 14 13 13-1156 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	79.95	28.27
33 14 13 13-1157 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	93.88	31.40
33 14 13 13-1158 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	116.17	35.33
33 14 13 13-1159 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	136.33	40.38
33 14 13 13-1160 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	152.71	43.75
33 14 13 13-1161 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	178.87	52.49
33 14 13 13-1162 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	210.32	54.51
33 14 13 13-1163 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	264.75	60.58
33 14 13 13-1164 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	338.32	65.61
33 14 13 13-1165 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	412.82	71.79
33 14 13 13-1166 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	485.00	80.76
33 14 13 13-1167 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	657.44	87.58
33 14 13 13-1168 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1086)		
33 14 13 13-1169 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400).....	226.74	73.42
33 14 13 13-1170 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600).....	298.26	89.62
33 14 13 13-1171 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800).....	383.31	109.31
33 14 13 13-1172 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000).....	574.07	133.36
33 14 13 13-1173 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200).....	711.72	162.61
33 14 13 13-1174 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400).....	1,217.55	198.40
33 14 13 13-1175 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600).....	1,391.83	242.12
33 14 13 13-1176 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800).....	1,582.42	295.31
33 14 13 13-1177 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000).....	2,146.26	360.36
33 14 13 13-1178 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400).....	2,735.17	439.54
33 14 13 13-1179 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000).....	4,695.19	536.34
33 14 13 13-1180 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600).....	6,649.54	654.25
33 14 13 13-1181 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200).....	12,033.97	798.26
33 14 13 13-1182 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800).....	15,561.46	973.82
33 14 13 13-1183 Ductile Iron Pipe Repair (33 14 13 13-0001) See CSI section 33 14 13 13-0002 for mechanical joint fittings.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1184 Ductile Iron Pipe Repair (33 14 13 13-1183)		
Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1185 EA 30" Diameter Mechanical Ductile Iron Push Joint	2,816.76	
33 14 13 13-1186 EA 36" Diameter Mechanical Ductile Iron Push Joint	3,552.28	
33 14 13 13-1187 EA 42" Diameter Mechanical Ductile Iron Push Joint	4,441.02	
33 14 13 13-1188 EA 48" Diameter Mechanical Ductile Iron Push Joint	5,559.74	
33 14 13 13-1189 EA 54" Diameter Mechanical Ductile Iron Push Joint	7,991.06	
33 14 13 13-1190 WEKO Seals (33 14 13 13-1183)		
Note: Internal joint seal.		
33 14 13 13-1191 EA 16" WEKO Internal Joint Seal	1,520.07	222.59
For Extra Wide Seals, Add	86.86	
33 14 13 13-1192 EA 18" WEKO Internal Joint Seal	1,618.44	235.04
For Extra Wide Seals, Add	87.81	
33 14 13 13-1193 EA 20" WEKO Internal Joint Seal	1,716.62	247.49
For Extra Wide Seals, Add	88.75	
33 14 13 13-1194 EA 24" WEKO Internal Joint Seal	1,821.15	267.29
For Extra Wide Seals, Add	90.25	
33 14 13 13-1195 EA 30" WEKO Internal Joint Seal	1,885.40	287.09
For Extra Wide Seals, Add	91.75	
33 14 13 13-1196 EA 36" WEKO Internal Joint Seal	1,983.31	311.84
For Extra Wide Seals, Add	93.62	
33 14 13 13-1197 EA 42" WEKO Internal Joint Seal	2,118.97	341.54
For Extra Wide Seals, Add	95.87	
33 14 13 13-1198 EA 48" WEKO Internal Joint Seal	2,287.39	366.29
For Extra Wide Seals, Add	97.75	
33 14 13 13-1199 EA 54" WEKO Internal Joint Seal	2,375.82	386.08
For Extra Wide Seals, Add	99.25	
33 14 13 13-1200 EA 60" WEKO Internal Joint Seal	2,483.28	415.78
For Extra Wide Seals, Add	101.50	
33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)		
33 14 13 23-0001 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)		
Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0002 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	9.08	3.41
33 14 13 23-0004 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	12.87	4.13
33 14 13 23-0005 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	17.25	4.65
33 14 13 23-0006 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	22.32	5.16
33 14 13 23-0007 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	28.54	5.78
33 14 13 23-0008 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0009 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	9.89	3.41
33 14 13 23-0010 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	14.55	4.13
33 14 13 23-0011 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	20.08	4.65
33 14 13 23-0012 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	26.73	5.16
33 14 13 23-0013 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	34.69	5.78
33 14 13 23-0014 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0015 LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	10.69	3.41
33 14 13 23-0016 LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	16.22	4.13
33 14 13 23-0017 LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	22.92	4.65
33 14 13 23-0018 LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	31.05	5.16
33 14 13 23-0019 LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	40.85	5.78
33 14 13 23-0020 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0021 LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	44.68	8.66
33 14 13 23-0022 LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	54.37	10.32
33 14 13 23-0023 LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	72.40	12.38
33 14 13 23-0024 LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	103.34	14.44
33 14 13 23-0025 LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	141.39	16.51
33 14 13 23-0026 LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	177.91	17.54
33 14 13 23-0027 LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	224.09	18.88
33 14 13 23-0028 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0029 LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	32.99	6.50
33 14 13 23-0030 LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	41.06	7.22
33 14 13 23-0031 LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	50.84	8.66
33 14 13 23-0032 LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	62.37	10.32
33 14 13 23-0033 LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	84.74	12.38
33 14 13 23-0034 LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	121.04	14.44
33 14 13 23-0035 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	165.09	16.51
33 14 13 23-0036 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	217.33	17.54



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33 14 13 23-0037	LF	48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	275.23	18.88
33 14 13 23-0038 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)				
33 14 13 23-0039	LF	14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	37.74	6.50
33 14 13 23-0040	LF	16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	47.64	7.22
33 14 13 23-0041	LF	18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	59.01	8.66
33 14 13 23-0042	LF	20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	72.97	10.32
33 14 13 23-0043	LF	24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	99.96	12.38
33 14 13 23-0044	LF	30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	143.91	14.44
33 14 13 23-0045	LF	36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	198.49	16.51
33 14 13 23-0046	LF	42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	256.89	17.54
33 14 13 23-0047	LF	48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	326.85	18.88
33 14 13 23-0048 AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)				
33 14 13 23-0049	LF	14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	45.84	6.50
33 14 13 23-0050	LF	16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	57.27	7.22
33 14 13 23-0051	LF	18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	71.40	8.66
33 14 13 23-0052	LF	20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	87.94	10.32
33 14 13 23-0053	LF	24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	121.54	12.38
33 14 13 23-0054	LF	30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	177.78	14.44
33 14 13 23-0055	LF	36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	250.56	16.51
33 14 13 23-0056	LF	42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	333.25	17.54
33 14 13 23-0057	LF	48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	429.33	18.88
33 14 13 23-0058 AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)				
33 14 13 23-0059	LF	14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	51.93	6.50
33 14 13 23-0060	LF	16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	65.19	7.22
33 14 13 23-0061	LF	18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	81.40	8.66
33 14 13 23-0062	LF	20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	100.38	10.32
33 14 13 23-0063	LF	24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	139.45	12.38
33 14 13 23-0064	LF	30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	205.33	14.44
33 14 13 23-0065	LF	36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	290.80	16.51
33 14 13 23-0066	LF	42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	388.41	17.54
33 14 13 23-0067 AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)				
33 14 13 23-0068	LF	14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	57.87	6.50
33 14 13 23-0069	LF	16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	72.90	7.22
33 14 13 23-0070	LF	18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	91.11	8.66
33 14 13 23-0071	LF	20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	112.50	10.32
33 14 13 23-0072	LF	24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	156.87	12.38
33 14 13 23-0073	LF	30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	232.13	14.44
33 14 13 23-0074	LF	36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	329.95	16.51
33 14 13 23-0075 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)				
Note: Includes rubber gaskets.				
33 14 13 23-0076 90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0077	EA	4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	194.54	13.62
		For DR 25, Deduct	-10.04	
33 14 13 23-0078	EA	6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	395.84	15.32
		For DR 25, Deduct	-21.91	
33 14 13 23-0079	EA	8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	593.43	17.02
		For DR 25, Deduct	-33.56	
33 14 13 23-0080	EA	10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	908.50	28.06
		For DR 25, Deduct	-51.14	
33 14 13 23-0081	EA	12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,184.95	46.76
		For DR 25, Deduct	-65.49	
33 14 13 23-0082	EA	14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,776.45	58.46
		For DR 25, Deduct	-99.57	
33 14 13 23-0083	EA	16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,120.07	70.16
		For DR 25, Deduct	-118.79	
33 14 13 23-0084	EA	18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,631.02	93.54
		For DR 25, Deduct	-206.64	
33 14 13 23-0085	EA	20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,470.37	116.92
		For DR 25, Deduct	-254.19	
33 14 13 23-0086	EA	24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,411.38	157.84
		For DR 25, Deduct	-425.74	
33 14 13 23-0087 45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0088	EA	4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	172.69	13.62
		For DR 25, Deduct	-8.73	
33 14 13 23-0089	EA	6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	296.78	15.32
		For DR 25, Deduct	-15.97	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0090 EA 8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	375.61	17.02
For DR 25, Deduct	-20.49	
33 14 13 23-0091 EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	533.89	28.06
For DR 25, Deduct	-28.67	
33 14 13 23-0092 EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	716.21	46.76
For DR 25, Deduct	-37.36	
33 14 13 23-0093 EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,368.72	58.46
For DR 25, Deduct	-75.11	
33 14 13 23-0094 EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,733.81	70.16
For DR 25, Deduct	-95.61	
33 14 13 23-0095 EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,985.20	93.54
For DR 25, Deduct	-167.89	
33 14 13 23-0096 EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,707.95	116.92
For DR 25, Deduct	-208.45	
33 14 13 23-0097 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,230.80	157.84
For DR 25, Deduct	-294.91	
33 14 13 23-0098 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0099 EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	170.04	13.62
For DR 25, Deduct	-8.57	
33 14 13 23-0100 EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	296.78	15.32
For DR 25, Deduct	-15.97	
33 14 13 23-0101 EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	375.61	17.02
For DR 25, Deduct	-20.49	
33 14 13 23-0102 EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	533.91	28.06
For DR 25, Deduct	-28.67	
33 14 13 23-0103 EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	716.22	46.76
For DR 25, Deduct	-37.36	
33 14 13 23-0104 EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,364.02	56.13
For DR 25, Deduct	-75.11	
33 14 13 23-0105 EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,733.78	70.16
For DR 25, Deduct	-95.61	
33 14 13 23-0106 EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,985.20	93.54
For DR 25, Deduct	-167.89	
33 14 13 23-0107 EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,707.95	116.92
For DR 25, Deduct	-208.45	
33 14 13 23-0108 EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,230.80	157.84
For DR 25, Deduct	-294.91	
33 14 13 23-0109 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0110 EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	150.48	13.62
For DR 25, Deduct	-7.40	
33 14 13 23-0111 EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	296.78	15.32
For DR 25, Deduct	-15.97	
33 14 13 23-0112 EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	375.61	17.02
For DR 25, Deduct	-20.49	
33 14 13 23-0113 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	533.91	28.06
For DR 25, Deduct	-28.67	
33 14 13 23-0114 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	716.22	46.76
For DR 25, Deduct	-37.36	
33 14 13 23-0115 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,364.02	56.13
For DR 25, Deduct	-75.11	
33 14 13 23-0116 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,733.78	70.16
For DR 25, Deduct	-95.61	
33 14 13 23-0117 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,985.20	93.54
For DR 25, Deduct	-167.89	
33 14 13 23-0118 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,707.95	116.92
For DR 25, Deduct	-208.45	
33 14 13 23-0119 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,230.80	157.84
For DR 25, Deduct	-294.91	
33 14 13 23-0120 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0121 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	231.04	15.32
For DR 25, Deduct	-12.02	
33 14 13 23-0122 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	443.73	17.02
For DR 25, Deduct	-24.58	
33 14 13 23-0123 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	618.33	19.29
For DR 25, Deduct	-34.79	
33 14 13 23-0124 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,276.29	35.08
For DR 25, Deduct	-72.37	
33 14 13 23-0125 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,564.95	70.16
For DR 25, Deduct	-85.48	
33 14 13 23-0126 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,816.10	87.69
For DR 25, Deduct	-158.45	
33 14 13 23-0127 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,487.14	105.23
For DR 25, Deduct	-196.60	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 23-0128	EA	18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,401.92		140.30
		For DR 25, Deduct	-247.28		
33 14 13 23-0129	EA	20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,287.97		175.38
		For DR 25, Deduct	-296.23		
33 14 13 23-0130	EA	24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,223.00		119.26
		For DR 25, Deduct	-419.07		
33 14 13 23-0131 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)					
33 14 13 23-0132	EA	6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	442.86		22.13
		For DR 25, Deduct	-23.92		
33 14 13 23-0133	EA	8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	601.15		23.83
		For DR 25, Deduct	-33.21		
33 14 13 23-0134	EA	8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	616.25		24.68
		For DR 25, Deduct	-34.01		
33 14 13 23-0135	EA	10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	802.60		35.08
		For DR 25, Deduct	-43.95		
33 14 13 23-0136	EA	10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,083.94		35.95
		For DR 25, Deduct	-60.72		
33 14 13 23-0137	EA	10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,159.14		36.83
		For DR 25, Deduct	-65.13		
33 14 13 23-0138	EA	12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,232.77		53.78
		For DR 25, Deduct	-67.51		
33 14 13 23-0139	EA	12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,413.24		54.66
		For DR 25, Deduct	-78.24		
33 14 13 23-0140	EA	12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,498.66		55.53
		For DR 25, Deduct	-83.25		
33 14 13 23-0141	EA	12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,528.00		60.80
		For DR 25, Deduct	-84.38		
33 14 13 23-0142	EA	14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,312.87		63.14
		For DR 25, Deduct	-131.20		
33 14 13 23-0143	EA	14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,405.47		64.01
		For DR 25, Deduct	-136.65		
33 14 13 23-0144	EA	14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,498.29		64.90
		For DR 25, Deduct	-142.11		
33 14 13 23-0145	EA	14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,599.35		70.16
		For DR 25, Deduct	-147.54		
33 14 13 23-0146	EA	14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,708.96		79.51
		For DR 25, Deduct	-153.00		
33 14 13 23-0147	EA	16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,885.96		77.16
		For DR 25, Deduct	-163.90		
33 14 13 23-0148	EA	16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,976.77		77.16
		For DR 25, Deduct	-169.35		
33 14 13 23-0149	EA	16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,069.37		78.04
		For DR 25, Deduct	-174.80		
33 14 13 23-0150	EA	16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,161.97		78.92
		For DR 25, Deduct	-180.25		
33 14 13 23-0151	EA	16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,282.02		93.54
		For DR 25, Deduct	-185.70		
33 14 13 23-0152	EA	16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,382.21		98.21
		For DR 25, Deduct	-191.15		
33 14 13 23-0153	EA	18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,567.93		100.55
		For DR 25, Deduct	-202.01		
33 14 13 23-0154	EA	18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,661.16		101.43
		For DR 25, Deduct	-207.50		
33 14 13 23-0155	EA	18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,753.76		102.31
		For DR 25, Deduct	-212.95		
33 14 13 23-0156	EA	18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,855.11		107.57
		For DR 25, Deduct	-218.40		
33 14 13 23-0157	EA	18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,964.62		116.92
		For DR 25, Deduct	-223.85		
33 14 13 23-0158	EA	18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,064.19		121.60
		For DR 25, Deduct	-229.26		
33 14 13 23-0159	EA	18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,191.03		128.61
		For DR 25, Deduct	-236.03		
33 14 13 23-0160	EA	20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,524.30		123.94
		For DR 25, Deduct	-256.59		
33 14 13 23-0161	EA	20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,681.17		124.81
		For DR 25, Deduct	-265.89		
33 14 13 23-0162	EA	20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,743.05		125.69
		For DR 25, Deduct	-269.50		
33 14 13 23-0163	EA	20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,813.79		130.95
		For DR 25, Deduct	-273.11		
33 14 13 23-0164	EA	20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,892.65		140.30
		For DR 25, Deduct	-276.72		
33 14 13 23-0165	EA	20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,999.52		144.98
		For DR 25, Deduct	-282.57		
33 14 13 23-0166	EA	20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,111.09		152.00
		For DR 25, Deduct	-288.43		
33 14 13 23-0167	EA	20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,199.52		163.69
		For DR 25, Deduct	-292.33		
33 14 13 23-0168	EA	24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,331.97		164.86
		For DR 25, Deduct	-300.14		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0169	EA	24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,398.80	165.73
		<i>For DR 25, Deduct</i>	-304.04	
33 14 13 23-0170	EA	24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,465.62	166.61
		<i>For DR 25, Deduct</i>	-307.94	
33 14 13 23-0171	EA	24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,740.72	171.87
		<i>For DR 25, Deduct</i>	-323.82	
33 14 13 23-0172	EA	24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,023.99	181.23
		<i>For DR 25, Deduct</i>	-339.69	
33 14 13 23-0173	EA	24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,297.93	185.91
		<i>For DR 25, Deduct</i>	-355.57	
33 14 13 23-0174	EA	24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,576.55	192.92
		<i>For DR 25, Deduct</i>	-371.44	
33 14 13 23-0175	EA	24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,864.54	204.61
		<i>For DR 25, Deduct</i>	-387.32	
33 14 13 23-0176	EA	24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,152.50	216.30
		<i>For DR 25, Deduct</i>	-403.19	
33 14 13 23-0177 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0178	EA	4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	321.68	27.23
		<i>For DR 25, Deduct</i>	-16.03	
33 14 13 23-0179	EA	6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	574.10	30.64
		<i>For DR 25, Deduct</i>	-30.77	
33 14 13 23-0180	EA	8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	793.14	34.04
		<i>For DR 25, Deduct</i>	-43.50	
33 14 13 23-0181	EA	10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,619.27	56.13
		<i>For DR 25, Deduct</i>	-90.42	
33 14 13 23-0182	EA	12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,921.48	70.16
		<i>For DR 25, Deduct</i>	-106.87	
33 14 13 23-0183	EA	14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,488.15	93.54
		<i>For DR 25, Deduct</i>	-198.07	
33 14 13 23-0184	EA	16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,328.99	116.92
		<i>For DR 25, Deduct</i>	-245.72	
33 14 13 23-0185	EA	18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,526.57	187.07
		<i>For DR 25, Deduct</i>	-309.15	
33 14 13 23-0186	EA	20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,639.30	233.84
		<i>For DR 25, Deduct</i>	-370.30	
33 14 13 23-0187	EA	24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,361.46	315.69
		<i>For DR 25, Deduct</i>	-523.81	
33 14 13 23-0188 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0189	EA	6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	556.53	28.94
		<i>For DR 25, Deduct</i>	-29.92	
33 14 13 23-0190	EA	8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	754.00	30.64
		<i>For DR 25, Deduct</i>	-41.56	
33 14 13 23-0191	EA	8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	773.45	32.34
		<i>For DR 25, Deduct</i>	-42.53	
33 14 13 23-0192	EA	10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,161.43	42.09
		<i>For DR 25, Deduct</i>	-64.64	
33 14 13 23-0193	EA	10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,352.90	43.85
		<i>For DR 25, Deduct</i>	-75.91	
33 14 13 23-0194	EA	10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,485.53	45.60
		<i>For DR 25, Deduct</i>	-83.66	
33 14 13 23-0195	EA	12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,528.57	60.80
		<i>For DR 25, Deduct</i>	-84.42	
33 14 13 23-0196	EA	12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,754.93	62.55
		<i>For DR 25, Deduct</i>	-97.79	
33 14 13 23-0197	EA	12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,863.03	64.30
		<i>For DR 25, Deduct</i>	-104.07	
33 14 13 23-0198	EA	12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,907.50	74.83
		<i>For DR 25, Deduct</i>	-105.47	
33 14 13 23-0199	EA	14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,873.54	70.16
		<i>For DR 25, Deduct</i>	-163.99	
33 14 13 23-0200	EA	14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,990.25	71.91
		<i>For DR 25, Deduct</i>	-170.79	
33 14 13 23-0201	EA	14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,108.22	73.66
		<i>For DR 25, Deduct</i>	-177.65	
33 14 13 23-0202	EA	14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,243.25	84.18
		<i>For DR 25, Deduct</i>	-184.49	
33 14 13 23-0203	EA	14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,393.78	102.89
		<i>For DR 25, Deduct</i>	-191.28	
33 14 13 23-0204	EA	16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,582.35	84.18
		<i>For DR 25, Deduct</i>	-204.84	
33 14 13 23-0205	EA	16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,700.59	85.93
		<i>For DR 25, Deduct</i>	-211.72	
33 14 13 23-0206	EA	16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,817.58	87.69
		<i>For DR 25, Deduct</i>	-218.53	
33 14 13 23-0207	EA	16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,952.51	98.21
		<i>For DR 25, Deduct</i>	-225.36	
33 14 13 23-0208	EA	16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,022.17	116.92
		<i>For DR 25, Deduct</i>	-227.30	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0209	EA	16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,235.11	126.27
		For DR 25, Deduct	-238.95	
33 14 13 23-0210	EA	18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,424.24	107.57
		For DR 25, Deduct	-252.55	
33 14 13 23-0211	EA	18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,542.21	109.32
		For DR 25, Deduct	-259.41	
33 14 13 23-0212	EA	18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,659.38	111.08
		For DR 25, Deduct	-266.23	
33 14 13 23-0213	EA	18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,792.59	121.60
		For DR 25, Deduct	-272.96	
33 14 13 23-0214	EA	18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,944.48	140.30
		For DR 25, Deduct	-279.83	
33 14 13 23-0215	EA	18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,076.32	149.65
		For DR 25, Deduct	-286.62	
33 14 13 23-0216	EA	18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,245.15	163.69
		For DR 25, Deduct	-295.07	
33 14 13 23-0217	EA	20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,607.99	130.95
		For DR 25, Deduct	-320.76	
33 14 13 23-0218	EA	20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,805.04	132.71
		For DR 25, Deduct	-332.38	
33 14 13 23-0219	EA	20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,884.28	134.46
		For DR 25, Deduct	-336.92	
33 14 13 23-0220	EA	20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,980.24	144.98
		For DR 25, Deduct	-341.42	
33 14 13 23-0221	EA	20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,092.58	163.69
		For DR 25, Deduct	-345.91	
33 14 13 23-0222	EA	20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,232.36	173.05
		For DR 25, Deduct	-353.18	
33 14 13 23-0223	EA	20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,383.92	187.07
		For DR 25, Deduct	-360.59	
33 14 13 23-0224	EA	20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,511.76	210.46
		For DR 25, Deduct	-365.45	
33 14 13 23-0225	EA	24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,560.45	171.87
		For DR 25, Deduct	-373.00	
33 14 13 23-0226	EA	24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,681.81	173.63
		For DR 25, Deduct	-380.07	
33 14 13 23-0227	EA	24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,766.98	175.38
		For DR 25, Deduct	-384.97	
33 14 13 23-0228	EA	24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,118.37	185.91
		For DR 25, Deduct	-404.79	
33 14 13 23-0229	EA	24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,486.26	204.61
		For DR 25, Deduct	-424.62	
33 14 13 23-0230	EA	24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,835.36	213.97
		For DR 25, Deduct	-444.45	
33 14 13 23-0231	EA	24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,195.24	227.99
		For DR 25, Deduct	-464.36	
33 14 13 23-0232	EA	24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,571.69	251.38
		For DR 25, Deduct	-484.14	
33 14 13 23-0233	EA	24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,949.58	274.76
		For DR 25, Deduct	-504.00	
33 14 13 23-0234		Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0235	EA	4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	117.34	13.62
		For DR 25, Deduct	-5.41	
33 14 13 23-0236	EA	6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	216.62	15.32
		For DR 25, Deduct	-11.16	
33 14 13 23-0237	EA	8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	260.45	17.02
		For DR 25, Deduct	-13.58	
33 14 13 23-0238	EA	10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	372.84	28.06
		For DR 25, Deduct	-19.00	
33 14 13 23-0239	EA	12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	590.55	35.08
		For DR 25, Deduct	-31.22	
33 14 13 23-0240	EA	14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,020.84	46.76
		For DR 25, Deduct	-55.64	
33 14 13 23-0241	EA	16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,210.09	58.46
		For DR 25, Deduct	-65.59	
33 14 13 23-0242	EA	18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,884.70	93.54
		For DR 25, Deduct	-161.86	
33 14 13 23-0243	EA	20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,237.14	116.92
		For DR 25, Deduct	-180.20	
33 14 13 23-0244	EA	24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,556.17	157.84
		For DR 25, Deduct	-254.43	
33 14 13 23-0245		Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0246	EA	4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	144.77	13.62
		For DR 25, Deduct	-7.05	
33 14 13 23-0247	EA	6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	196.03	15.32
		For DR 25, Deduct	-9.92	
33 14 13 23-0248	EA	8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	283.90	17.02
		For DR 25, Deduct	-14.99	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0249 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	391.12 -20.10	28.06
33 14 13 23-0250 EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	627.25 -32.02	46.76
33 14 13 23-0251 EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,646.98 -92.08	56.13
33 14 13 23-0252 EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	2,227.91 -125.26	70.16
33 14 13 23-0253 EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	2,746.98 -153.59	93.54
33 14 13 23-0254 EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,283.26 -182.97	116.92
33 14 13 23-0255 EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,459.94 -248.66	157.84
33 14 13 23-0256 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)		
33 14 13 23-0257 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0256)		
33 14 13 23-0258 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.66 -0.13 0.06	0.91
33 14 13 23-0259 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.96 -0.15 0.08	0.97
33 14 13 23-0260 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	3.49 -0.17 0.12	1.06
33 14 13 23-0261 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	4.07 -0.20 0.17	1.18
33 14 13 23-0262 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	5.36 -0.27 0.31	1.32
33 14 13 23-0263 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	7.02 -0.35 0.49	1.50
33 14 13 23-0264 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	8.47 -0.42 0.67	1.59
33 14 13 23-0265 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	12.22 -0.61 1.10	1.97
33 14 13 23-0266 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	22.19 -1.11 2.39	2.50
33 14 13 23-0267 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	36.36 -1.82 4.05	3.74
33 14 13 23-0268 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	54.50 -2.73 6.30	5.00
33 14 13 23-0269 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	76.01 -3.80 8.88	6.74
33 14 13 23-0270 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0271 EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	27.68	10.90
33 14 13 23-0272 EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	35.04	13.62
33 14 13 23-0273 EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	44.22	17.02
33 14 13 23-0274 EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	70.31	18.84
33 14 13 23-0275 EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	75.75	21.11
33 14 13 23-0276 EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	90.20	23.94
33 14 13 23-0277 EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	98.00	25.59
33 14 13 23-0278 EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	138.88	31.43
33 14 13 23-0279 EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	203.79	39.93
33 14 13 23-0280 EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	338.78	52.41
33 14 13 23-0281 EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	412.57	70.13
33 14 13 23-0282 EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	544.18	94.39
33 14 13 23-0283 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0284 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	28.30	10.90
33 14 13 23-0285 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	35.49	13.62
33 14 13 23-0286 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	44.49	17.02
33 14 13 23-0287 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	62.15	18.84
33 14 13 23-0288 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	76.51	21.11
33 14 13 23-0289 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	93.28	23.94
33 14 13 23-0290 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	96.70	25.59
33 14 13 23-0291 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	136.07	31.43
33 14 13 23-0292 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	198.13	39.93
33 14 13 23-0293 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	327.99	52.41



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0294	EA	10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	367.84	70.13
33 14 13 23-0295	EA	12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	482.28	94.39
33 14 13 23-0296 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)				
33 14 13 23-0297	EA	3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	41.47	16.34
33 14 13 23-0298	EA	1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	52.41	20.54
33 14 13 23-0299	EA	1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	65.79	25.64
33 14 13 23-0300	EA	1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	95.44	28.38
33 14 13 23-0301	EA	2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	109.00	31.54
33 14 13 23-0302	EA	2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	127.33	35.98
33 14 13 23-0303	EA	3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	150.45	38.28
33 14 13 23-0304	EA	4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	199.99	47.19
33 14 13 23-0305	EA	6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	344.77	59.99
33 14 13 23-0306	EA	8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	524.80	78.63
33 14 13 23-0307	EA	10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	631.31	120.07
33 14 13 23-0308	EA	12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	784.11	161.59
33 14 13 23-0309 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)				
33 14 13 23-0310	EA	3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	18.55	7.27
33 14 13 23-0311	EA	1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	25.07	9.76
33 14 13 23-0312	EA	1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	33.61	12.82
33 14 13 23-0313	EA	1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	49.01	14.19
33 14 13 23-0314	EA	2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	53.94	15.78
33 14 13 23-0315	EA	2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	61.35	17.93
33 14 13 23-0316	EA	3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	68.42	19.14
33 14 13 23-0317	EA	4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	95.90	23.54
33 14 13 23-0318	EA	6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	139.82	30.00
33 14 13 23-0319	EA	8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	246.13	39.31
33 14 13 23-0320	EA	10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	298.10	60.09
33 14 13 23-0321	EA	12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	377.89	80.79
33 14 13 23-0322 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)				
33 14 13 23-0323 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0322)				
33 14 13 23-0324	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.97	0.91
		For >1,000, Deduct	-0.15	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.11	
33 14 13 23-0325	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.56	0.97
		For >1,000, Deduct	-0.18	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.17	
33 14 13 23-0326	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.63	1.18
		For >1,000, Deduct	-0.23	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.25	
33 14 13 23-0327	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.57	1.32
		For >1,000, Deduct	-0.28	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.34	
33 14 13 23-0328	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	7.35	1.50
		For >1,000, Deduct	-0.37	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.54	
33 14 13 23-0329	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	8.68	1.59
		For >1,000, Deduct	-0.43	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.70	
33 14 13 23-0330	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	11.65	1.97
		For >1,000, Deduct	-0.58	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.01	
33 14 13 23-0331	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	18.02	2.50
		For >1,000, Deduct	-0.90	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.77	
33 14 13 23-0332 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)				
33 14 13 23-0333	EA	3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	27.90	10.90
33 14 13 23-0334	EA	1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	35.18	13.62
33 14 13 23-0335	EA	1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	48.99	18.84
33 14 13 23-0336	EA	2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	55.50	21.11
33 14 13 23-0337	EA	2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	67.46	23.94
33 14 13 23-0338	EA	3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	73.11	25.59
33 14 13 23-0339	EA	4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	97.23	31.43
33 14 13 23-0340	EA	6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	159.19	39.93
33 14 13 23-0341 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)				
33 14 13 23-0342	EA	3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	27.85	10.90
33 14 13 23-0343	EA	1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	35.12	13.62
33 14 13 23-0344	EA	1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	49.02	18.84
33 14 13 23-0345	EA	2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	55.29	21.11
33 14 13 23-0346	EA	2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	66.87	23.94
33 14 13 23-0347	EA	3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	72.43	25.59
33 14 13 23-0348	EA	4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	95.85	31.43

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0349 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	154.80	39.93
33 14 13 23-0350 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0351 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	41.71	16.34
33 14 13 23-0352 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	52.59	20.54
33 14 13 23-0353 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	73.23	28.38
33 14 13 23-0354 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	82.50	31.54
33 14 13 23-0355 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	101.51	35.98
33 14 13 23-0356 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	112.45	38.28
33 14 13 23-0357 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	140.23	47.19
33 14 13 23-0358 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	242.98	59.99
33 14 13 23-0359 Couplings, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0360 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	18.66	7.27
33 14 13 23-0361 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	25.16	9.76
33 14 13 23-0362 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	36.48	14.19
33 14 13 23-0363 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	41.23	15.78
33 14 13 23-0364 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	48.73	17.93
33 14 13 23-0365 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	53.80	19.14
33 14 13 23-0366 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	66.77	23.54
33 14 13 23-0367 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	101.95	30.00
33 14 13 23-0368 Crosses, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0369 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	55.82	21.79
33 14 13 23-0370 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	70.04	27.35
33 14 13 23-0371 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	97.62	37.79
33 14 13 23-0372 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	110.00	42.10
33 14 13 23-0373 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	135.29	47.89
33 14 13 23-0374 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	149.84	51.09
33 14 13 23-0375 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	186.84	62.85
33 14 13 23-0376 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	323.43	79.96
33 14 13 23-0377 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0378 Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0377)		
33 14 13 23-0379 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.90	0.97
For >1,000, Deduct	-0.20	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.22	
33 14 13 23-0380 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	5.31	1.18
For >1,000, Deduct	-0.27	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.35	
33 14 13 23-0381 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	6.73	1.32
For >1,000, Deduct	-0.34	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.52	
33 14 13 23-0382 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	8.85	1.50
For >1,000, Deduct	-0.44	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.77	
33 14 13 23-0383 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	10.79	1.59
For >1,000, Deduct	-0.54	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.02	
33 14 13 23-0384 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	14.88	1.97
For >1,000, Deduct	-0.74	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.50	
33 14 13 23-0385 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	25.19	2.50
For >1,000, Deduct	-1.26	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.84	
33 14 13 23-0386 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0387 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	36.96	13.62
33 14 13 23-0388 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	48.99	18.84
33 14 13 23-0389 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	57.29	21.11
33 14 13 23-0390 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	71.25	23.94
33 14 13 23-0391 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	76.63	25.59
33 14 13 23-0392 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	98.07	31.43
33 14 13 23-0393 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	155.17	39.93
33 14 13 23-0394 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0395 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	44.27	13.62
33 14 13 23-0396 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	56.04	18.84
33 14 13 23-0397 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	64.07	21.11
33 14 13 23-0398 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	83.96	23.94
33 14 13 23-0399 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	93.18	25.59
33 14 13 23-0400 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	131.34	31.43
33 14 13 23-0401 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	152.94	39.93



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0402		Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0403	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	56.34	20.54
33 14 13 23-0404	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	84.60	28.38
33 14 13 23-0405	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	96.06	31.54
33 14 13 23-0406	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	108.69	35.98
33 14 13 23-0407	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	119.32	38.28
33 14 13 23-0408	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	145.18	47.19
33 14 13 23-0409	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	242.80	59.99
33 14 13 23-0410		Couplings, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0411	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	27.83	9.76
33 14 13 23-0412	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	41.07	14.19
33 14 13 23-0413	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	45.55	15.78
33 14 13 23-0414	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	59.83	17.93
33 14 13 23-0415	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	64.99	19.14
33 14 13 23-0416	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	80.38	23.54
33 14 13 23-0417	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	120.95	30.00
33 14 13 23-0418		Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0419	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Cross	75.01	27.35
33 14 13 23-0420	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	112.71	37.79
33 14 13 23-0421	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Cross	127.99	42.10
33 14 13 23-0422	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	144.82	47.89
33 14 13 23-0423	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Cross	158.96	51.09
33 14 13 23-0424	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Cross	193.41	62.85
33 14 13 23-0425	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Cross	323.19	79.96
33 14 13 23-0426		AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)		
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.				
33 14 13 23-0427		High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)		
33 14 13 23-0428	LF	3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	7.68	2.68
		For SDR 19, Add	0.20	
		For SDR 17, Add	0.50	
		For SDR 15.5, Add	0.74	
		For SDR 13.5, Add	1.15	
		For SDR 11, Add	1.85	
33 14 13 23-0429	LF	4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.05	3.41
		For SDR 26, Deduct	-0.41	
		For SDR 19, Add	0.20	
		For SDR 17, Add	0.50	
		For SDR 15.5, Add	0.73	
		For SDR 13.5, Add	1.14	
		For SDR 11, Add	1.83	
33 14 13 23-0430	LF	6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	13.09	4.13
		For SDR 26, Deduct	-0.89	
		For SDR 19, Add	0.44	
		For SDR 17, Add	1.08	
		For SDR 15.5, Add	1.57	
		For SDR 13.5, Add	2.46	
		For SDR 11, Add	3.96	
33 14 13 23-0431	LF	8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	17.51	4.65
		For SDR 26, Deduct	-1.51	
		For SDR 19, Add	0.74	
		For SDR 17, Add	1.83	
		For SDR 15.5, Add	2.67	
		For SDR 13.5, Add	4.17	
		For SDR 11, Add	6.72	
33 14 13 23-0432	LF	10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	23.09	5.16
		For SDR 26, Deduct	-2.34	
		For SDR 19, Add	1.15	
		For SDR 17, Add	2.84	
		For SDR 15.5, Add	4.16	
		For SDR 13.5, Add	6.49	
		For SDR 11, Add	10.44	
33 14 13 23-0433	LF	12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	29.88	57.80
		For SDR 26, Deduct	-3.38	
		For SDR 19, Add	1.66	
		For SDR 17, Add	4.09	
		For SDR 15.5, Add	5.99	
		For SDR 13.5, Add	9.36	
		For SDR 11, Add	15.06	
33 14 13 23-0434	LF	14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	34.55	6.50
		For SDR 26, Deduct	-3.97	
		For SDR 19, Add	1.95	
		For SDR 17, Add	4.81	
		For SDR 15.5, Add	7.04	
		For SDR 13.5, Add	11.00	
		For SDR 11, Add	17.70	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	42.72	7.22
For SDR 26, Deduct	-5.18	
For SDR 19, Add	2.55	
For SDR 17, Add	6.28	
For SDR 15.5, Add	9.20	
For SDR 13.5, Add	14.36	
For SDR 11, Add	23.12	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	53.13	8.66
For SDR 26, Deduct	-6.55	
For SDR 19, Add	3.22	
For SDR 17, Add	7.94	
For SDR 15.5, Add	11.63	
For SDR 13.5, Add	18.15	
For SDR 11, Add	29.22	
33 14 13 23-0437 LF 20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	93.67	10.32
For SDR 26, Deduct	-13.39	
For SDR 19, Add	6.57	
For SDR 17, Add	16.23	
For SDR 15.5, Add	23.76	
For SDR 13.5, Add	37.09	
For SDR 11, Add	59.70	
33 14 13 23-0438 LF 24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	88.37	12.38
For SDR 26, Deduct	-11.66	
For SDR 19, Add	5.72	
For SDR 17, Add	14.13	
For SDR 15.5, Add	20.70	
For SDR 13.5, Add	32.30	
For SDR 11, Add	51.99	
33 14 13 23-0439 90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping ^(33 14 13 23-0438)		
33 14 13 23-0440 EA 3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	63.75	17.02
For SDR 26, Deduct	-2.33	
For SDR 19, Add	1.14	
For SDR 17, Add	2.82	
For SDR 15.5, Add	4.13	
For SDR 13.5, Add	6.45	
For SDR 11, Add	10.37	
33 14 13 23-0441 EA 4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	71.86	18.92
For SDR 26, Deduct	-2.77	
For SDR 19, Add	1.36	
For SDR 17, Add	3.36	
For SDR 15.5, Add	4.92	
For SDR 13.5, Add	7.68	
For SDR 11, Add	12.36	
33 14 13 23-0442 EA 6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	105.02	21.62
For SDR 26, Deduct	-7.37	
For SDR 19, Add	3.62	
For SDR 17, Add	8.93	
For SDR 15.5, Add	13.08	
For SDR 13.5, Add	20.42	
For SDR 11, Add	32.87	
33 14 13 23-0443 EA 8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	159.73	25.24
For SDR 26, Deduct	-15.41	
For SDR 19, Add	7.56	
For SDR 17, Add	18.68	
For SDR 15.5, Add	27.35	
For SDR 13.5, Add	42.69	
For SDR 11, Add	68.71	
33 14 13 23-0444 EA 10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	241.16	33.71
For SDR 26, Deduct	-25.71	
For SDR 19, Add	12.63	
For SDR 17, Add	31.17	
For SDR 15.5, Add	45.65	
For SDR 13.5, Add	71.25	
For SDR 11, Add	114.68	
33 14 13 23-0445 EA 12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	356.68	50.45
For SDR 26, Deduct	-37.65	
For SDR 19, Add	18.49	
For SDR 17, Add	45.64	
For SDR 15.5, Add	66.84	
For SDR 13.5, Add	104.33	
For SDR 11, Add	167.93	
33 14 13 23-0446 EA 14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	446.73	67.32
For SDR 26, Deduct	-44.89	
For SDR 19, Add	22.04	
For SDR 17, Add	54.41	
For SDR 15.5, Add	79.68	
For SDR 13.5, Add	124.37	
For SDR 11, Add	200.19	



		Utilities	33	CS
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		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0447	EA		16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	595.78	100.88
			For SDR 26, Deduct	-53.75	
			For SDR 19, Add	26.39	
			For SDR 17, Add	65.16	
			For SDR 15.5, Add	95.42	
			For SDR 13.5, Add	148.94	
			For SDR 11, Add	239.73	
33 14 13 23-0448	EA		18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	739.53	113.48
			For SDR 26, Deduct	-73.15	
			For SDR 19, Add	35.92	
			For SDR 17, Add	88.67	
			For SDR 15.5, Add	129.85	
			For SDR 13.5, Add	202.68	
			For SDR 11, Add	326.23	
33 14 13 23-0449	EA		20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	990.47	128.80
			For SDR 26, Deduct	-110.00	
			For SDR 19, Add	54.01	
			For SDR 17, Add	133.34	
			For SDR 15.5, Add	195.28	
			For SDR 13.5, Add	304.80	
			For SDR 11, Add	490.59	
33 14 13 23-0450	EA		24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,255.08	151.38
			For SDR 26, Deduct	-146.85	
			For SDR 19, Add	72.10	
			For SDR 17, Add	178.02	
			For SDR 15.5, Add	260.69	
			For SDR 13.5, Add	406.90	
			For SDR 11, Add	654.94	
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)					
33 14 13 23-0452	EA		3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	69.93	17.82
			For SDR 26, Deduct	-3.04	
			For SDR 19, Add	1.49	
			For SDR 17, Add	3.69	
			For SDR 15.5, Add	5.40	
			For SDR 13.5, Add	8.43	
			For SDR 11, Add	13.56	
33 14 13 23-0453	EA		4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	80.02	20.18
			For SDR 26, Deduct	-3.58	
			For SDR 19, Add	1.76	
			For SDR 17, Add	4.34	
			For SDR 15.5, Add	6.36	
			For SDR 13.5, Add	9.92	
			For SDR 11, Add	15.97	
33 14 13 23-0454	EA		6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	120.85	23.29
			For SDR 26, Deduct	-9.36	
			For SDR 19, Add	4.59	
			For SDR 17, Add	11.34	
			For SDR 15.5, Add	16.61	
			For SDR 13.5, Add	25.93	
			For SDR 11, Add	41.73	
33 14 13 23-0455	EA		8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	212.01	27.52
			For SDR 26, Deduct	-23.74	
			For SDR 19, Add	11.66	
			For SDR 17, Add	28.78	
			For SDR 15.5, Add	42.14	
			For SDR 13.5, Add	65.78	
			For SDR 11, Add	105.87	
33 14 13 23-0456	EA		10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	291.70	40.40
			For SDR 26, Deduct	-31.28	
			For SDR 19, Add	15.36	
			For SDR 17, Add	37.91	
			For SDR 15.5, Add	55.52	
			For SDR 13.5, Add	86.66	
			For SDR 11, Add	139.49	
33 14 13 23-0457	EA		12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	414.60	60.60
			For SDR 26, Deduct	-42.71	
			For SDR 19, Add	20.97	
			For SDR 17, Add	51.77	
			For SDR 15.5, Add	75.81	
			For SDR 13.5, Add	118.34	
			For SDR 11, Add	190.47	
33 14 13 23-0458	EA		14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	501.06	75.70
			For SDR 26, Deduct	-50.24	
			For SDR 19, Add	24.67	
			For SDR 17, Add	60.91	
			For SDR 15.5, Add	89.19	
			For SDR 13.5, Add	139.22	
			For SDR 11, Add	224.08	
33 14 13 23-0459	EA		16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	666.10	113.48
			For SDR 26, Deduct	-59.66	
			For SDR 19, Add	29.30	
			For SDR 17, Add	72.33	
			For SDR 15.5, Add	105.92	
			For SDR 13.5, Add	165.32	
			For SDR 11, Add	266.10	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0460 EA 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	848.82	132.20
For SDR 26, Deduct	-82.90	
For SDR 19, Add	40.70	
For SDR 17, Add	100.49	
For SDR 15.5, Add	147.17	
For SDR 13.5, Add	229.71	
For SDR 11, Add	369.73	
33 14 13 23-0461 EA 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,170.96	156.15
For SDR 26, Deduct	-127.81	
For SDR 19, Add	62.75	
For SDR 17, Add	154.93	
For SDR 15.5, Add	226.89	
For SDR 13.5, Add	354.13	
For SDR 11, Add	570.00	
33 14 13 23-0462 EA 24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,509.64	189.29
For SDR 26, Deduct	-172.71	
For SDR 19, Add	84.80	
For SDR 17, Add	209.36	
For SDR 15.5, Add	306.60	
For SDR 13.5, Add	478.56	
For SDR 11, Add	770.27	

33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)**33 14 13 36-0001 Steel Piping (33 14 13 36)****33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)**

Note: ASTM A252 steel pipe.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	121.31	29.19
For <100, Add	12.70	
For >1,000, Deduct	-6.07	
33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	145.85	29.19
For <100, Add	13.93	
For >1,000, Deduct	-7.29	
33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	144.76	31.84
For <100, Add	14.47	
For >1,000, Deduct	-7.24	
33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	175.79	31.84
For <100, Add	16.03	
For >1,000, Deduct	-8.79	
33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	176.02	33.36
For <100, Add	16.38	
For >1,000, Deduct	-8.80	
33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	200.15	33.36
For <100, Add	17.59	
For >1,000, Deduct	-10.01	
33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	213.77	36.87
For <100, Add	19.07	
For >1,000, Deduct	-10.69	
33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	233.05	36.87
For <100, Add	20.03	
For >1,000, Deduct	-11.65	
33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	226.92	38.93
For <100, Add	20.19	
For >1,000, Deduct	-11.35	
33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	241.81	38.93
For <100, Add	20.94	
For >1,000, Deduct	-12.09	
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	281.86	43.79
For <100, Add	24.04	
For >1,000, Deduct	-14.09	
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	306.27	43.79
For <100, Add	25.26	
For >1,000, Deduct	-15.31	

33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	246.53	60.00
For <100, Add	21.76	
For >1,000, Deduct	-12.33	
33 14 13 36-0018 LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	292.85	66.00
For <100, Add	25.06	
For >1,000, Deduct	-14.64	
33 14 13 36-0019 LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	325.53	69.00
For <100, Add	27.28	
For >1,000, Deduct	-16.28	
33 14 13 36-0020 LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	367.23	77.99
For <100, Add	30.74	
For >1,000, Deduct	-18.36	
33 14 13 36-0021 LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	383.78	77.99
For <100, Add	31.56	
For >1,000, Deduct	-19.19	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 36-0022	LF	20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	399.08	77.99
		For <100, Add	32.33	
		For >1,000, Deduct	-19.95	
33 14 13 36-0023	LF	20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	416.73	77.99
		For <100, Add	33.21	
		For >1,000, Deduct	-20.84	
33 14 13 36-0024	LF	24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	483.13	90.00
		For <100, Add	38.30	
		For >1,000, Deduct	-24.16	
33 14 13 36-0025	LF	24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	537.73	90.00
		For <100, Add	41.03	
		For >1,000, Deduct	-26.89	
33 14 13 36-0026	LF	24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	671.76	90.00
		For <100, Add	47.73	
		For >1,000, Deduct	-33.59	
33 14 13 36-0027	LF	30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	600.88	105.00
		For <100, Add	46.54	
		For >1,000, Deduct	-30.04	
33 14 13 36-0028	LF	30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	623.21	105.00
		For <100, Add	47.66	
		For >1,000, Deduct	-31.16	
33 14 13 36-0029	LF	30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	833.91	105.00
		For <100, Add	58.19	
		For >1,000, Deduct	-41.70	
33 14 13 36-0030	LF	36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	716.70	105.00
		For <100, Add	52.33	
		For >1,000, Deduct	-35.84	
33 14 13 36-0031	LF	36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	840.19	126.00
		For <100, Add	61.81	
		For >1,000, Deduct	-42.01	
33 14 13 36-0032	LF	36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,003.59	126.00
		For <100, Add	69.98	
		For >1,000, Deduct	-50.18	
33 14 13 36-0033	LF	36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	962.77	126.00
		For <100, Add	67.94	
		For >1,000, Deduct	-48.14	
33 14 13 36-0034	LF	42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,477.29	141.00
		For <100, Add	95.86	
		For >1,000, Deduct	-73.86	
33 14 13 36-0035	LF	42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	894.57	141.00
		For <100, Add	66.73	
		For >1,000, Deduct	-44.73	
33 14 13 36-0036	LF	48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,694.19	158.99
		For <100, Add	109.46	
		For >1,000, Deduct	-84.71	
33 14 13 36-0037	LF	48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	981.31	158.99
		For <100, Add	73.82	
		For >1,000, Deduct	-49.07	
33 14 13 36-0038	LF	54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,774.30	180.00
		For <100, Add	117.00	
		For >1,000, Deduct	-88.72	
33 14 13 36-0039	LF	54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,960.44	180.00
		For <100, Add	126.31	
		For >1,000, Deduct	-98.02	
33 14 13 36-0040	LF	60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,191.80	210.00
		For <100, Add	142.59	
		For >1,000, Deduct	-109.59	
33 14 13 36-0041	LF	66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,529.94	210.00
		For <100, Add	109.50	
		For >1,000, Deduct	-76.50	
33 14 13 36-0042	LF	72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,688.70	171.46
		For <100, Add	135.87	
		For >1,000, Deduct	-84.44	
33 14 13 36-0043	LF	78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	3,183.41	171.46
		For <100, Add	210.61	
		For >1,000, Deduct	-159.17	
33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)				
33 14 13 36-0045	EA	2" Dresser Coupling For Plain End Welded Steel Pipe.....	126.55	34.00
33 14 13 36-0046	EA	3" Dresser Coupling For Plain End Welded Steel Pipe.....	194.64	65.39
33 14 13 36-0047	EA	4" Dresser Coupling For Plain End Welded Steel Pipe.....	259.11	86.32
33 14 13 36-0048	EA	6" Dresser Coupling For Plain End Welded Steel Pipe.....	409.26	130.78
33 14 13 36-0049	EA	8" Dresser Coupling For Plain End Welded Steel Pipe.....	532.03	164.79
33 14 13 36-0050	EA	10" Dresser Coupling For Plain End Welded Steel Pipe.....	645.79	163.15
33 14 13 36-0051	EA	12" Dresser Coupling For Plain End Welded Steel Pipe.....	768.56	204.49
33 14 13 36-0052	EA	14" Dresser Coupling For Plain End Welded Steel Pipe.....	827.05	204.49
33 14 13 36-0053	EA	16" Dresser Coupling For Plain End Welded Steel Pipe.....	874.50	217.54
33 14 13 36-0054	EA	18" Dresser Coupling For Plain End Welded Steel Pipe.....	957.25	250.17
33 14 13 36-0055	EA	20" Dresser Coupling For Plain End Welded Steel Pipe.....	1,043.94	282.80
33 14 13 36-0056	EA	24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,308.78	299.12
33 14 13 36-0057	EA	30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,562.84	326.31
33 14 13 36-0058	EA	36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,829.71	367.10
33 14 13 36-0059	EA	42" Dresser Coupling For Plain End Welded Steel Pipe.....	2,109.17	413.32

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe	2,453.80	475.87
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe	2,724.67	543.85
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe	3,147.70	679.81
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe	3,633.68	826.66
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe	4,332.37	978.93

33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)**33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)**

33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe	7.55	2.27
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe	9.23	2.55
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe	12.10	2.84
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe	14.96	3.40
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe	18.31	4.54
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe	26.07	5.67
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe	33.33	6.81
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe	41.32	7.49
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	55.68	9.42
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	73.27	11.91
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	115.75	14.87
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	148.92	17.93
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	251.05	20.08

33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)

33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	7.96	2.27
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	10.69	2.55
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	13.55	2.84
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	15.86	3.40
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	19.64	4.54
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	27.86	5.67
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	38.30	6.81
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	48.75	7.49
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	64.42	9.42
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	86.53	11.91
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	143.19	14.87
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	198.26	17.93
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	342.10	20.08

33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)**33 14 13 43-0001 Pipe Coatings (33 14 13 43)****33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating (33 14 13 43-0001)**

Note: Applied at fabrication shop.

33 14 13 43-0003 LF 8" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	3.22
33 14 13 43-0004 LF 10" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	3.83
33 14 13 43-0005 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.52
33 14 13 43-0006 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.00
33 14 13 43-0007 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.85
33 14 13 43-0008 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.20
33 14 13 43-0009 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.75
33 14 13 43-0010 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	9.03
33 14 13 43-0011 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	11.86
33 14 13 43-0012 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	18.73
33 14 13 43-0013 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	40.38
33 14 13 43-0014 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	46.15
33 14 13 43-0015 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	51.92
33 14 13 43-0016 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	57.69
33 14 13 43-0017 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	63.46
33 14 13 43-0018 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	69.20
33 14 13 43-0019 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	75.00

33 14 13 43-0020 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)

Note: Applied at fabrication shop. Thickness ranging between 1" and 2".

33 14 13 43-0021 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh	11.32
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0022 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh	13.93
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0023 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh	17.42
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0024 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh	19.40
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0025 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh	21.91
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0026 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh	25.64
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0027 LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh	29.13
Note: Reinforcing applied at fabrication shop.	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
33 14 13 43-0028	LF		18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	32.87	
33 14 13 43-0029	LF		20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	36.53	
33 14 13 43-0030	LF		24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.82	
33 14 13 43-0031	LF		30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	54.78	
33 14 13 43-0032	LF		36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	65.73	
33 14 13 43-0033	LF		42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	25.10	
33 14 13 43-0034	LF		48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	28.68	
33 14 13 43-0035	LF		54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	32.27	
33 14 13 43-0036	LF		60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	35.85	
33 14 13 43-0037	LF		66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0038	LF		72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0039	LF		78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61	
33 14 13 43-0040 Pipe Lining (33 14 13 43)					
33 14 13 43-0041 Cement Pipe Lining (33 14 13 43-0040)					
Note: Shop applied.					
33 14 13 43-0042	LF		4" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	14.45	
			For 1/2" Thick, Add	1.51	
33 14 13 43-0043	LF		6" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	17.91	
			For 1/2" Thick, Add	1.86	
33 14 13 43-0044	LF		8" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	21.96	
			For 1/2" Thick, Add	2.32	
33 14 13 43-0045	LF		10" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	28.31	
			For 1/2" Thick, Add	2.90	
33 14 13 43-0046	LF		12" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	34.71	
			For 1/2" Thick, Add	3.49	
33 14 13 43-0047	LF		14" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	43.71	
			For 1/2" Thick, Add	4.09	
33 14 13 43-0048	LF		16" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	55.55	
			For 1/2" Thick, Add	4.64	
33 14 13 43-0049	LF		18" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	65.85	
			For 1/2" Thick, Add	4.45	
33 14 13 43-0050	LF		20" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	78.69	
			For 1/2" Thick, Add	4.95	
33 14 13 43-0051	LF		24" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	95.27	
			For 1/2" Thick, Add	5.93	
33 14 13 43-0052	LF		30" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	115.21	
			For 1/2" Thick, Add	7.42	
33 14 13 43-0053	LF		36" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	138.60	
			For 1/2" Thick, Add	8.90	
33 14 13 43-0054	LF		42" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	161.73	
			For 1/2" Thick, Add	7.64	
33 14 13 43-0055	LF		48" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	184.77	
			For 1/2" Thick, Add	8.73	
33 14 13 43-0056	LF		54" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	207.89	
			For 1/2" Thick, Add	9.82	
33 14 13 43-0057	LF		60" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	231.03	
			For 1/2" Thick, Add	10.91	
33 14 13 43-0058	LF		66" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	254.07	
			For 1/2" Thick, Add	6.40	
33 14 13 43-0059	LF		72" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	277.20	
			For 1/2" Thick, Add	6.98	
33 14 13 43-0060	LF		78" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	300.33	
			For 1/2" Thick, Add	7.57	
33 14 13 43-0061 Cement Fitting Lining (33 14 13 43-0040)					
Note: Shop applied.					
33 14 13 43-0062	EA		4" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	14.45	
			For 1/2" Thick, Add	1.51	
33 14 13 43-0063	EA		6" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	17.91	
			For 1/2" Thick, Add	1.86	
33 14 13 43-0064	EA		8" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	28.02	
			For 1/2" Thick, Add	3.02	
33 14 13 43-0065	EA		10" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	45.64	
			For 1/2" Thick, Add	4.64	
33 14 13 43-0066	EA		12" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	69.41	
			For 1/2" Thick, Add	6.98	
33 14 13 43-0067	EA		14" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	101.32	
			For 1/2" Thick, Add	9.40	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0068	EA	16" Outside Diameter, 1/4" Thick Cement Fitting Lining	.....	146.58	
		For 1/2" Thick, Add	.....	12.07	
33 14 13 43-0069	EA	18" Outside Diameter, 5/16" Thick Cement Fittings Lining	.....	197.55	
		For 1/2" Thick, Add	.....	13.35	
33 14 13 43-0070	EA	20" Outside Diameter, 5/16" Thick Cement Fitting Lining	.....	262.14	
		For 1/2" Thick, Add	.....	16.48	
33 14 13 43-0071	EA	24" Outside Diameter, 5/16" Thick Cement Fitting Lining	.....	381.09	
		For 1/2" Thick, Add	.....	23.74	
33 14 13 43-0072 8 Mil Polyethylene Encasement Tubing (33 14 13 43)					
Note: ANSI/AWWA C105/A21.5-99 section 4.2.					
33 14 13 43-0073	LF	3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	1.30	
33 14 13 43-0074	LF	10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	2.14	
33 14 13 43-0075	LF	14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	2.64	
33 14 13 43-0076	LF	18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	3.35	
33 14 13 43-0077	LF	24" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	4.60	
33 14 13 43-0078	LF	30" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	5.93	
33 14 13 43-0079	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	7.56	
33 14 13 43-0080	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	8.99	
33 14 13 43-0081	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	10.68	
33 14 13 43-0082	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing	.....	11.73	
33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)					
33 14 13 53-0001 Double Stud Stainless Steel Service Saddles (33 14 13 53)					
Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.					
33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	267.73	
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	373.22	
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	385.85	
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	319.50	
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	400.51	
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	334.06	
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	419.53	
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	375.55	
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	441.98	
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	391.81	
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	.....	453.33	
33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53)					
Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.					
33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	226.12	
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	226.27	
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	240.76	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	229.88	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	245.92	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	271.54	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	288.74	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	264.44	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	290.27	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	305.07	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	279.06	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	305.69	
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	320.41	
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	294.16	
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	320.03	
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	334.58	
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	483.35	
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	495.97	
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	318.11	
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	349.23	
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	362.78	
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	570.72	
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	355.11	
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	392.29	
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	635.93	
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	385.68	
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	424.95	
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	440.31	
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	708.29	
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	448.08	
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	479.03	
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	515.15	
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	866.70	
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	.....	460.72	



			Utilities	33	33
			Water Utilities	33 10	
			Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	522.77	
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	544.49	
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	930.72	
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	481.34	
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	545.63	
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	567.91	
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	968.42	
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	531.48	
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	612.92	
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	603.66	
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	667.54	
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	630.30	
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	710.30	
33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)				
33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	309.99	
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	338.47	
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	352.18	
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	380.91	
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	391.52	
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	411.47	
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	380.74	
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	404.70	
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	479.36	
33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	517.75	
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	713.08	
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	803.98	
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	827.92	
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	922.60	
33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)				
Note: Taps are compression or NPT.				
33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	325.06	
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	357.49	
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	369.98	
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	401.24	
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	413.52	
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	434.65	
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	464.61	
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	496.85	
33 14 13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	499.52	
33 14 13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	540.51	
33 14 13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	763.04	
33 14 13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	874.63	
33 14 13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	887.20	
33 14 13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	965.62	
33 14 13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,639.65	
33 14 13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,639.65	
33 14 13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,705.68	
33 14 13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,705.68	
33 14 13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,830.04	
33 14 13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,830.04	
33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)				
33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,433.44	
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,731.69	
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,068.74	
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,187.54	
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,304.14	
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,469.76	
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,541.69	
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,493.56	
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,658.52	
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,058.20	
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,160.83	
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,921.22	
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,107.41	
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,192.00	
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,229.26	
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,494.22	
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,484.89	
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,510.15	
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,718.04	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0117 EA 16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	7,768.26	
33 14 13 53-0118 EA 16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	7,823.37	
33 14 13 53-0119 EA 16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,952.93	
33 14 13 53-0120 EA 16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	8,206.73	
33 14 13 53-0121 EA 18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	10,396.71	
33 14 13 53-0122 EA 18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	10,864.12	
33 14 13 53-0123 EA 18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,000.11	
33 14 13 53-0124 EA 18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,406.66	
33 14 13 53-0125 EA 20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,749.26	
33 14 13 53-0126 EA 20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,396.95	
33 14 13 53-0127 EA 20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,576.21	
33 14 13 53-0128 EA 20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,647.17	
33 14 13 53-0129 EA 20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,994.38	
33 14 13 53-0130 EA 20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	13,478.49	
33 14 13 53-0131 EA 20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	13,744.32	
33 14 13 53-0132 EA 24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,772.20	
33 14 13 53-0133 EA 24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,936.04	
33 14 13 53-0134 EA 24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,983.67	
33 14 13 53-0135 EA 24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	16,552.26	
33 14 13 53-0136 EA 24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	16,766.73	
33 14 13 53-0137 EA 24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	16,817.24	
33 14 13 53-0138 EA 24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	17,277.61	
33 14 13 53-0139 EA 24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	17,497.98	

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0141 EA 4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,181.00	
33 14 13 53-0142 EA 6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,257.07	
33 14 13 53-0143 EA 6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,373.13	
33 14 13 53-0144 EA 8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,415.18	
33 14 13 53-0145 EA 8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,473.71	
33 14 13 53-0146 EA 8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,689.33	
33 14 13 53-0147 EA 10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,545.96	
33 14 13 53-0148 EA 10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,602.98	
33 14 13 53-0149 EA 10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,792.68	
33 14 13 53-0150 EA 10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,463.65	
33 14 13 53-0151 EA 12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,740.06	
33 14 13 53-0152 EA 12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,823.07	
33 14 13 53-0153 EA 12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,009.78	
33 14 13 53-0154 EA 12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,610.99	
33 14 13 53-0155 EA 12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,844.73	
33 14 13 53-0156 EA 14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,281.02	
33 14 13 53-0157 EA 14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,349.93	
33 14 13 53-0158 EA 14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,749.04	
33 14 13 53-0159 EA 14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,243.53	
33 14 13 53-0160 EA 14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,565.55	
33 14 13 53-0161 EA 16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,706.40	
33 14 13 53-0162 EA 16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,777.49	
33 14 13 53-0163 EA 16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,042.13	
33 14 13 53-0164 EA 16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,748.84	
33 14 13 53-0165 EA 16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,916.86	
33 14 13 53-0166 EA 18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,874.38	
33 14 13 53-0167 EA 18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,002.10	
33 14 13 53-0168 EA 18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,179.04	
33 14 13 53-0169 EA 18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,010.39	
33 14 13 53-0170 EA 18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,178.22	
33 14 13 53-0171 EA 20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,465.06	
33 14 13 53-0172 EA 20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,536.01	
33 14 13 53-0173 EA 20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,931.42	
33 14 13 53-0174 EA 20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,599.15	
33 14 13 53-0175 EA 20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,883.24	
33 14 13 53-0176 EA 24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,742.13	
33 14 13 53-0177 EA 24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,896.03	
33 14 13 53-0178 EA 24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,103.38	
33 14 13 53-0179 EA 24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	5,050.56	
33 14 13 53-0180 EA 24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	5,225.50	

33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0182 EA 4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,362.05	
33 14 13 53-0183 EA 6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,485.74	
33 14 13 53-0184 EA 6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,572.39	
33 14 13 53-0185 EA 8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,606.46	
33 14 13 53-0186 EA 8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,706.07	
33 14 13 53-0187 EA 8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,001.05	
33 14 13 53-0188 EA 10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,842.09	
33 14 13 53-0189 EA 10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,952.40	
33 14 13 53-0190 EA 10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,216.93	
33 14 13 53-0191 EA 10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,980.95	
33 14 13 53-0192 EA 12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,103.60	
33 14 13 53-0193 EA 12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,253.49	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 14 13 53-0194	EA	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	2,602.54	
33 14 13 53-0195	EA	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,056.88	
33 14 13 53-0196	EA	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,404.54	
33 14 13 53-0197	EA	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	2,400.80	
33 14 13 53-0198	EA	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	2,584.39	
33 14 13 53-0199	EA	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	2,977.24	
33 14 13 53-0200	EA	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,432.02	
33 14 13 53-0201	EA	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,673.17	
33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	2,923.98	
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,174.47	
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,365.65	
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,854.56	
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	4,186.63	
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,225.57	
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,599.31	
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,798.80	
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	4,228.57	
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	4,796.74	
33 14 13 53-0212	EA	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,485.80	
33 14 13 53-0213	EA	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	3,858.59	
33 14 13 53-0214	EA	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	4,020.90	
33 14 13 53-0215	EA	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	4,819.54	
33 14 13 53-0216	EA	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	5,264.65	
33 14 13 53-0217	EA	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	4,125.14	
33 14 13 53-0218	EA	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	4,179.30	
33 14 13 53-0219	EA	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	4,373.68	
33 14 13 53-0220	EA	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	5,326.72	
33 14 13 53-0221	EA	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	.....	5,836.00	
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)					
33 14 13 53-0223	EA	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	.....	361.44	76.07
33 14 13 53-0224	EA	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	.....	453.10	95.92
33 14 13 53-0225	EA	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	.....	598.27	132.30
33 14 13 53-0226	EA	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	.....	768.89	155.47
33 14 13 53-0227	EA	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	.....	1,179.68	175.31
33 14 13 53-0228	EA	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	.....	1,318.94	198.46
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)					
33 14 13 53-0230	EA	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	513.30	76.07
33 14 13 53-0231	EA	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	609.36	95.92
33 14 13 53-0232	EA	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	815.33	132.30
33 14 13 53-0233	EA	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	994.80	155.47
33 14 13 53-0234	EA	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	1,208.66	175.31
33 14 13 53-0235	EA	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	1,406.09	198.46
33 14 13 53-0236	EA	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	1,663.48	218.31
33 14 13 53-0237	EA	16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	1,961.91	238.15
33 14 13 53-0238	EA	18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	2,309.17	261.97
33 14 13 53-0239	EA	20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	.....	2,720.14	288.16
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)					
33 14 13 53-0241	EA	4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	463.26	95.92
33 14 13 53-0242	EA	6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	623.34	132.30
33 14 13 53-0243	EA	8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	693.87	155.47
33 14 13 53-0244	EA	10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	992.12	175.31
33 14 13 53-0245	EA	12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	1,253.55	198.46
33 14 13 53-0246	EA	14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	1,404.25	218.31
33 14 13 53-0247	EA	16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	1,643.19	238.15
33 14 13 53-0248	EA	18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	1,841.89	261.97
33 14 13 53-0249	EA	20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	2,202.74	288.16
33 14 13 53-0250	EA	24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	2,641.19	317.01
33 14 13 53-0251	EA	30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	5,374.57	348.63
33 14 13 53-0252	EA	36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	.....	7,218.19	383.55
33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)					
33 14 13 53-0254	EA	2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	170.93	52.92
33 14 13 53-0255	EA	2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	209.86	62.84
33 14 13 53-0256	EA	3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	259.11	76.07
33 14 13 53-0257	EA	4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	325.54	95.92
33 14 13 53-0258	EA	6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	436.08	132.30
33 14 13 53-0259	EA	8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	527.67	155.47
33 14 13 53-0260	EA	10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	651.54	175.31
33 14 13 53-0261	EA	12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	759.28	198.46
33 14 13 53-0262	EA	14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	1,042.80	218.31
33 14 13 53-0263	EA	16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	1,286.98	238.15

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 19 Valves and Hydrants for Water Utility Service (33 14)

Note: Flanged valves excludes bolt and gasket set.

33 14 19 00-0001 Water Utility Distribution Valves (33 14 19)**33 14 19 00-0002 Angle Valves (33 14 19 00-0001)**

Note: For connecting meters to water service.

33 14 19 00-0003 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0002)

Note: Nibco T-335Y

33 14 19 00-0004	EA	1/2" Threaded, Class 150, Bronze Angle Valve.....	107.17	22.73
33 14 19 00-0005	EA	3/4" Threaded, Class 150, Bronze Angle Valve.....	144.53	30.54
33 14 19 00-0006	EA	1" Threaded, Class 150, Bronze Angle Valve.....	192.59	37.64
33 14 19 00-0007	EA	1-1/4" Threaded, Class 150, Bronze Angle Valve.....	247.58	47.30
33 14 19 00-0008	EA	1-1/2" Threaded, Class 150, Bronze Angle Valve.....	306.94	54.68
33 14 19 00-0009	EA	2" Threaded, Class 150, Bronze Angle Valve.....	449.50	63.93
33 14 19 00-0010	EA	2-1/2" Threaded, Class 150, Bronze Angle Valve.....	711.88	87.23
33 14 19 00-0011	EA	3" Threaded, Class 150, Bronze Angle Valve.....	1,064.91	100.70

33 14 19 00-0012 Butterfly Valves (33 14 19 00-0001)**33 14 19 00-0013 Lug Type Flanged, Cast Iron Disc, Butterfly Valves (33 14 19 00-0012)**

Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin

33 14 19 00-0014	EA	3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,Ci-S2*GS-6B-HD8).....	2,403.57	241.49
33 14 19 00-0015	EA	3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8).....	2,674.39	241.49
33 14 19 00-0016	EA	4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8).....	2,593.94	373.67
33 14 19 00-0017	EA	4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8).....	2,864.76	373.67
33 14 19 00-0018	EA	6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8).....	2,947.35	417.83
33 14 19 00-0019	EA	6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8).....	3,218.17	417.83
33 14 19 00-0020	EA	8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8).....	3,338.79	533.89
33 14 19 00-0021	EA	8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8).....	3,609.61	533.89
33 14 19 00-0022	EA	10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8).....	4,181.36	649.95
33 14 19 00-0023	EA	10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8).....	4,181.36	649.95
33 14 19 00-0024	EA	12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8).....	4,783.31	787.80
33 14 19 00-0025	EA	12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8).....	5,054.13	787.80
33 14 19 00-0026	EA	14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD12).....	6,465.34	1,047.89
33 14 19 00-0027	EA	14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW12).....	7,178.55	1,047.89
33 14 19 00-0028	EA	16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD16).....	7,510.87	1,152.68
33 14 19 00-0029	EA	16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW20).....	8,387.13	1,152.68
33 14 19 00-0030	EA	18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD24).....	9,390.81	1,278.42
33 14 19 00-0031	EA	18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW24).....	10,311.03	1,278.42
33 14 19 00-0032	EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD24).....	10,628.91	1,440.84
33 14 19 00-0033	EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW24).....	11,549.12	1,440.84



Utilities			33
Water Utilities			33 10
Water Utility Transmission and Distribution			33 14

CS

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 14 19 00-0034		Lug Type Flanged, Ductile Iron Disc, Butterfly Valves (33 14 19 00-0012)			
Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin					
33 14 19 00-0035	EA	24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20)	17,580.42		1,768.31
33 14 19 00-0036	EA	24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10)	27,449.00		1,768.31
33 14 19 00-0037	EA	24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20)	17,518.03		1,768.31
33 14 19 00-0038	EA	30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	37,356.63		2,829.50
33 14 19 00-0039	EA	36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	44,025.71		3,772.68
33 14 19 00-0040	EA	42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32)	55,531.93		5,659.02
33 14 19 00-0041	EA	48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24)	75,535.97		7,073.78
33 14 19 00-0042	EA	54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24)	120,285.22		8,488.52
33 14 19 00-0043	EA	60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36)	150,875.94		10,186.23
33 14 19 00-0044	EA	72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36)	216,935.92		12,223.48
33 14 19 00-0045	LF	3/16" Link, 316 Stainless Steel Chain For Use With DeZurik Chainwheel	22.69		
33 14 19 00-0046	EA	316 Stainless Steel Closing Link For Use With DeZurik Chainwheel	9.93		
Note: One required per valve.					
33 14 19 00-0047		Check Valves (33 14 19 00-0001)			
33 14 19 00-0048		Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0047)			
Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.					
33 14 19 00-0049	EA	2-1/2" Flanged, Swing Type Gravity Operated Check Valve	906.27		189.64
33 14 19 00-0050	EA	3" Flanged, Swing Type Gravity Operated Check Valve	946.75		222.34
33 14 19 00-0051	EA	4" Flanged, Swing Type Gravity Operated Check Valve	1,382.92		281.19
33 14 19 00-0052	EA	4" x 6" Flanged, Swing Type Gravity Operated Check Valve	1,819.95		423.09
33 14 19 00-0053	EA	4" x 8" Flanged, Swing Type Gravity Operated Check Valve	1,908.02		472.51
33 14 19 00-0054	EA	6" Flanged, Swing Type Gravity Operated Check Valve	1,830.88		470.83
33 14 19 00-0055	EA	6" x 8" Flanged, Swing Type Gravity Operated Check Valve	2,348.63		535.19
33 14 19 00-0056	EA	6" x 10" Flanged, Swing Type Gravity Operated Check Valve	2,472.14		601.61
33 14 19 00-0057	EA	8" Flanged, Swing Type Gravity Operated Check Valve	2,562.67		601.61
33 14 19 00-0058	EA	10" Flanged, Swing Type Gravity Operated Check Valve	4,172.72		732.39
33 14 19 00-0059	EA	12" Flanged, Swing Type Gravity Operated Check Valve	6,197.31		549.30
33 14 19 00-0060	EA	14" Flanged, Swing Type Gravity Operated Check Valve	8,521.46		1,047.89
33 14 19 00-0061	EA	16" Flanged, Swing Type Gravity Operated Check Valve	11,214.89		1,152.68
33 14 19 00-0062	EA	18" Flanged, Swing Type Gravity Operated Check Valve	16,074.48		1,278.42
33 14 19 00-0063	EA	20" Flanged, Swing Type Gravity Operated Check Valve	18,691.33		1,440.84
33 14 19 00-0064		Combination Air Release Valves (33 14 19 00-0001)			
33 14 19 00-0065	EA	1" Combination Air Release Valve	471.19		27.46
33 14 19 00-0066	EA	2" Combination Air Release Valve	763.14		47.08
33 14 19 00-0067		Corporation Stop And Curb Valve (33 14 19 00-0001)			
Note: AWWA C800					
33 14 19 00-0068		Ball Corporation Valves (33 14 19 00-0067)			
Note: Mueller B-25000.					
33 14 19 00-0069	EA	3/4" Ball Corporation Valve (Mueller B-25000)	91.80		27.46
33 14 19 00-0070	EA	1" Ball Corporation Valve (Mueller B-25000)	114.96		34.00
33 14 19 00-0071	EA	1-1/2" Ball Corporation Valve (Mueller B-25000)	199.49		49.70
33 14 19 00-0072	EA	2" Ball Corporation Valve (Mueller B-25000)	291.57		58.85
33 14 19 00-0073		Gate Valve, AWWA C500 And C509 (33 14 19 00-0001)			
33 14 19 00-0074		Gate Valve, Flanged (33 14 19 00-0073)			
Note: Mueller A-2380-6.					
33 14 19 00-0075	EA	2" Gate Valve, Flanged	595.12		174.34
33 14 19 00-0076	EA	2-1/2" Gate Valve, Flanged	688.13		189.64
33 14 19 00-0077	EA	3" Gate Valve, Flanged	812.70		222.34

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0078 EA 4" Gate Valve, Flanged	1,154.35	278.57
33 14 19 00-0079 EA 6" Gate Valve, Flanged	1,388.99	470.83
33 14 19 00-0080 EA 8" Gate Valve, Flanged	1,994.90	601.61
33 14 19 00-0081 EA 10" Gate Valve, Flanged	2,898.00	732.39
33 14 19 00-0082 EA 12" Gate Valve, Flanged	3,492.20	549.30
33 14 19 00-0083 EA 14" Gate Valve, Flanged	7,026.39	1,047.89
33 14 19 00-0084 EA 16" Gate Valve, Flanged	9,079.81	1,152.68
33 14 19 00-0085 EA 18" Gate Valve, Flanged	14,101.70	1,278.42
33 14 19 00-0086 EA 20" Gate Valve, Flanged	16,818.21	1,440.84
33 14 19 00-0087 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0073) Note: Mueller A-2360-6.		
33 14 19 00-0088 EA 2" Resilient Wedge Gate Valve, Flanged	573.79	174.34
33 14 19 00-0089 EA 2-1/2" Resilient Wedge Gate Valve, Flanged	662.64	189.64
33 14 19 00-0090 EA 3" Resilient Wedge Gate Valve, Flanged	782.45	222.34
33 14 19 00-0091 EA 4" Resilient Wedge Gate Valve, Flanged	1,120.54	278.57
33 14 19 00-0092 EA 6" Resilient Wedge Gate Valve, Flanged	1,343.79	470.83
33 14 19 00-0093 EA 8" Resilient Wedge Gate Valve, Flanged	1,924.29	601.61
33 14 19 00-0094 EA 10" Resilient Wedge Gate Valve, Flanged	2,785.79	732.39
33 14 19 00-0095 EA 12" Resilient Wedge Gate Valve, Flanged	3,356.72	549.30
33 14 19 00-0096 Gate Valve, Mechanical Joint (33 14 19 00-0073) Note: Mueller A-2380-20.		
33 14 19 00-0097 EA 2" Gate Valve, Mechanical Joint	708.86	139.28
33 14 19 00-0098 EA 2-1/2" Gate Valve, Mechanical Joint	790.85	174.60
33 14 19 00-0099 EA 3" Gate Valve, Mechanical Joint	985.81	211.22
33 14 19 00-0100 EA 4" Gate Valve, Mechanical Joint	1,201.56	278.57
33 14 19 00-0101 EA 6" Gate Valve, Mechanical Joint	1,488.09	326.96
33 14 19 00-0102 EA 8" Gate Valve, Mechanical Joint	2,082.44	392.35
33 14 19 00-0103 EA 10" Gate Valve, Mechanical Joint	2,932.24	457.75
33 14 19 00-0104 EA 12" Gate Valve, Mechanical Joint	3,647.69	549.30
33 14 19 00-0105 EA 14" Gate Valve, Mechanical Joint	7,424.27	641.83
33 14 19 00-0106 EA 16" Gate Valve, Mechanical Joint	9,514.26	720.42
33 14 19 00-0107 EA 18" Gate Valve, Mechanical Joint	14,880.18	799.01
33 14 19 00-0108 EA 20" Gate Valve, Mechanical Joint	17,657.84	900.52
33 14 19 00-0109 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0073) Note: Mueller A-2360-20.		
33 14 19 00-0110 EA 2" Resilient Wedge Gate Valve, Mechanical Joint	684.50	139.28
33 14 19 00-0111 EA 3" Resilient Wedge Gate Valve, Mechanical Joint	953.92	211.22
33 14 19 00-0112 EA 4" Resilient Wedge Gate Valve, Mechanical Joint	1,165.08	278.57
33 14 19 00-0113 EA 6" Resilient Wedge Gate Valve, Mechanical Joint	1,440.88	326.96
33 14 19 00-0114 EA 8" Resilient Wedge Gate Valve, Mechanical Joint	2,009.00	392.35
33 14 19 00-0115 EA 10" Resilient Wedge Gate Valve, Mechanical Joint	2,818.09	457.75
33 14 19 00-0116 EA 12" Resilient Wedge Gate Valve, Mechanical Joint	3,503.38	549.30
33 14 19 00-0117 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0073) Note: Mueller A-2361.		
33 14 19 00-0118 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	6,936.42	1,047.89
33 14 19 00-0119 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	7,545.30	1,152.68
33 14 19 00-0120 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	11,588.32	1,278.42
33 14 19 00-0121 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	13,802.38	1,440.84
33 14 19 00-0122 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	19,509.58	1,768.31
33 14 19 00-0123 Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0073) Note: NIBCO T-113.		
33 14 19 00-0124 EA 1/4" Gate Valve, Bronze, Threaded	66.10	22.87
33 14 19 00-0125 EA 3/8" Gate Valve, Bronze, Threaded	68.28	22.87
33 14 19 00-0126 EA 1/2" Gate Valve, Bronze, Threaded	68.23	22.87
33 14 19 00-0127 EA 3/4" Gate Valve, Bronze, Threaded	88.44	30.89
33 14 19 00-0128 EA 1" Gate Valve, Bronze, Threaded	108.76	37.36
33 14 19 00-0129 EA 1-1/4" Gate Valve, Bronze, Threaded	146.31	47.30
33 14 19 00-0130 EA 1-1/2" Gate Valve, Bronze, Threaded	169.64	54.68
33 14 19 00-0131 EA 2" Gate Valve, Bronze, Threaded	205.09	63.93
33 14 19 00-0132 EA 2-1/2" Gate Valve, Bronze, Threaded	378.86	87.23
33 14 19 00-0133 EA 3" Gate Valve, Bronze, Threaded	452.43	100.05
33 14 19 00-0134 Globe Valve, AWWA (33 14 19 00-0001)		
33 14 19 00-0135 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0134) Note: NIBCO T-235.		
33 14 19 00-0136 EA 1/8" Globe Valve, Threaded	90.72	22.87
33 14 19 00-0137 EA 1/4" Globe Valve, Threaded	86.34	22.87
33 14 19 00-0138 EA 3/8" Globe Valve, Threaded	88.52	22.87
33 14 19 00-0139 EA 1/2" Globe Valve, Threaded	90.72	22.87
33 14 19 00-0140 EA 3/4" Globe Valve, Threaded	123.13	30.89



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 14 19 00-0141	EA	1" Globe Valve, Threaded.....	170.15		37.36
33 14 19 00-0142	EA	1-1/4" Globe Valve, Threaded	245.54		47.30
33 14 19 00-0143	EA	1-1/2" Globe Valve, Threaded	292.30		54.68
33 14 19 00-0144	EA	2" Globe Valve, Threaded.....	402.43		63.93
33 14 19 00-0145	EA	2-1/2" Globe Valve, Threaded	725.47		87.23
33 14 19 00-0146	EA	3" Globe Valve, Threaded.....	985.00		100.57
33 14 19 00-0147 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0001)					
33 14 19 00-0148 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0147)					
Note: Flanged inlet X mechanical joint, Mueller H-667.					
33 14 19 00-0149	EA	2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	798.46		174.34
33 14 19 00-0150	EA	3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,027.56		222.34
33 14 19 00-0151	EA	4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,361.89		278.57
33 14 19 00-0152	EA	6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,706.13		470.83
33 14 19 00-0153	EA	8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,401.64		601.61
33 14 19 00-0154	EA	10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	3,392.28		732.39
33 14 19 00-0155	EA	12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	4,884.01		549.30
33 14 19 00-0156	EA	14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	8,458.00		1,047.89
33 14 19 00-0157	EA	16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	10,595.77		1,152.68
33 14 19 00-0158	EA	18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	16,789.74		1,278.42
33 14 19 00-0159 Accessories For Valves (33 14 19)					
33 14 19 00-0160	EA	1" Valve Extension Stem.....	116.55		
For Each Additional LF, Add				8.01	
33 14 19 00-0161	EA	Up to 80" Long Indicator Post Telescoping Barrel Assembly.....	1,418.00		130.78
Note: Excludes valve.					
33 14 19 00-0162	EA	>80" To 114" Long Indicator Post Telescoping Barrel Assembly.....	1,605.65		143.86
Note: Excludes valve.					
33 14 19 00-0163	EA	Adjust Water Valve Box To Grade.....	130.78		
33 14 19 00-0164 Utility Box (33 14 19)					
Note: Christy Concrete Products.					
33 14 19 00-0165 B3 Utility Box, 9-3/8" x 15-1/2" (33 14 19 00-0164)					
33 14 19 00-0166	EA	9-3/8" x 15-1/2" Precast Concrete Utility Box.....	115.05		64.61
33 14 19 00-0167	EA	Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	97.96		7.18
33 14 19 00-0168	EA	Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	43.77		7.18
33 14 19 00-0169	EA	Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box	208.15		7.18
33 14 19 00-0170	EA	12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	65.02		14.36
33 14 19 00-0171	EA	3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	88.97		14.36
33 14 19 00-0172 B9 Utility Box, 10-1/4" x 17-1/4" (33 14 19 00-0164)					
33 14 19 00-0173	EA	10-1/4" x 17-1/4" Precast Concrete Utility Box.....	142.33		86.14
33 14 19 00-0174	EA	Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	114.90		8.61
33 14 19 00-0175	EA	Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	49.04		8.61
33 14 19 00-0176	EA	Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	218.11		7.18
33 14 19 00-0177	EA	13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	71.61		14.36
33 14 19 00-0178	EA	5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	97.55		21.54
33 14 19 00-0179	EA	12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	125.56		39.48
33 14 19 00-0180 B12 Utility Box, 12" x 20" (33 14 19 00-0164)					
33 14 19 00-0181	EA	12" x 20" Precast Concrete Utility Box.....	155.98		93.32
33 14 19 00-0182	EA	Cast Iron Lid For 12" x 20" Utility Box.....	203.51		10.77
33 14 19 00-0183	EA	Reinforced Concrete Lid For 12" x 20" Utility Box.....	67.77		14.36
33 14 19 00-0184	EA	Steel Checkered Plate Cover For 12" x 20" Utility Box	296.71		14.36
33 14 19 00-0185	EA	12" High Reinforced Concrete Extension For 12" x 20" Utility Box	162.84		50.25
33 14 19 00-0186 B16 Utility Box, 12" x 22-1/4" (33 14 19 00-0164)					
33 14 19 00-0187	EA	12" x 22-1/4" Precast Concrete Utility Box.....	180.15		109.11
33 14 19 00-0188	EA	Cast Iron Lid For 12" x 22-1/4" Utility Box.....	231.51		14.36
33 14 19 00-0189	EA	Reinforced Concrete Lid For 12" x 22-1/4" Utility Box	81.35		14.36
33 14 19 00-0190	EA	Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	298.33		14.36
33 14 19 00-0191	EA	16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box.....	117.25		24.41
33 14 19 00-0192	EA	12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box	165.10		50.25
33 14 19 00-0193 B30 Utility Box, 13-1/4" x 24" (33 14 19 00-0164)					
33 14 19 00-0194	EA	13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX)	216.22		129.21
33 14 19 00-0195	EA	Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D).....	112.15		22.98
33 14 19 00-0196	EA	Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G)	369.47		18.67
33 14 19 00-0197	EA	16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	117.25		24.41
33 14 19 00-0198	EA	5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA).....	181.63		40.20
33 14 19 00-0199	EA	6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6).....	138.92		27.27
33 14 19 00-0200	EA	12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	213.57		64.61

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0201	B36 Utility Box, 17-1/4" x 30" (33 14 19 00-0164)			
33 14 19 00-0202	EA	17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX)	280.73	163.67
33 14 19 00-0203	EA	Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	184.20	39.48
33 14 19 00-0204	EA	Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D)	465.91	27.27
33 14 19 00-0205	EA	20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL)	177.44	51.69
33 14 19 00-0206	EA	6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	278.92	57.42
33 14 19 00-0207	EA	12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12)	283.02	83.27
33 14 19 00-0208	B40 Utility Box, 24-1/2" x 36" (33 14 19 00-0164)			
33 14 19 00-0209	EA	24-1/2" x 36" Precast Concrete Utility Box	550.28	252.69
33 14 19 00-0210	EA	Reinforced Concrete Lid For 24-1/2" x 36" Utility Box	494.64	94.75
33 14 19 00-0211	EA	Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box	663.82	41.63
33 14 19 00-0212	EA	30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	412.63	89.02
33 14 19 00-0213	EA	10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	436.99	93.32
33 14 19 00-0214	B48 Utility Box, 30-1/4" x 48-1/4" (33 14 19 00-0164)			
33 14 19 00-0215	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box	717.08	287.13
33 14 19 00-0216	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	700.21	156.49
33 14 19 00-0217	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	853.84	156.49
33 14 19 00-0218	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box	1,055.10	71.79
33 14 19 00-0219	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box	645.49	193.82
33 14 19 00-0220	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box	551.00	130.65
33 14 19 00-0221	Fire Hydrants (33 14 19) Note: Breakaway type.			
33 14 19 00-0222	Three Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0221) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).			
33 14 19 00-0223	EA	1-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,605.88	324.97
33 14 19 00-0224	EA	2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,672.39	324.97
33 14 19 00-0225	EA	2-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,739.07	324.97
33 14 19 00-0226	EA	3' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,828.64	348.19
33 14 19 00-0227	EA	3-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,895.22	348.19
33 14 19 00-0228	EA	4' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,990.88	377.20
33 14 19 00-0229	EA	4-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,057.35	377.20
33 14 19 00-0230	EA	5' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,153.03	406.22
33 14 19 00-0231	EA	5-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,219.60	406.22
33 14 19 00-0232	EA	6' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,315.08	435.23
33 14 19 00-0233	EA	6-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,410.65	464.25
33 14 19 00-0234	EA	7' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,535.13	522.28
33 14 19 00-0235	EA	1-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,666.58	324.97
33 14 19 00-0236	EA	2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,752.89	324.97
33 14 19 00-0237	EA	2-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,838.99	324.97
33 14 19 00-0238	EA	3' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,948.30	348.19
33 14 19 00-0239	EA	3-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,034.40	348.19
33 14 19 00-0240	EA	4' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,149.84	377.20
33 14 19 00-0241	EA	4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,235.83	377.20
33 14 19 00-0242	EA	5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,351.04	406.22
33 14 19 00-0243	EA	5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,437.12	406.22
33 14 19 00-0244	EA	6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,552.08	435.23
33 14 19 00-0245	EA	6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,667.41	464.25
33 14 19 00-0246	EA	7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,811.39	522.28
33 14 19 00-0247	Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0221) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).			
33 14 19 00-0248	EA	1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,240.80	324.97
33 14 19 00-0249	EA	2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,307.08	324.97
33 14 19 00-0250	EA	2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,373.74	324.97
33 14 19 00-0251	EA	3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,463.59	348.19
33 14 19 00-0252	EA	3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,529.95	348.19
33 14 19 00-0253	EA	4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,625.46	377.20
33 14 19 00-0254	EA	4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,692.03	377.20
33 14 19 00-0255	EA	5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,787.77	406.22
33 14 19 00-0256	EA	5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,854.20	406.22
33 14 19 00-0257	EA	6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,950.04	435.23
33 14 19 00-0258	EA	6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,045.19	464.25
33 14 19 00-0259	EA	7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,169.81	522.28
33 14 19 00-0260	EA	1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,334.56	324.97
33 14 19 00-0261	EA	2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,420.68	324.97
33 14 19 00-0262	EA	2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,506.67	324.97
33 14 19 00-0263	EA	3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,616.20	348.19
33 14 19 00-0264	EA	3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,702.08	348.19
33 14 19 00-0265	EA	4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,817.37	377.20
33 14 19 00-0266	EA	4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,903.30	377.20
33 14 19 00-0267	EA	5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,018.79	406.22



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Water Utilities			33 10	
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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0268	EA	5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,104.67	406.22	
33 14 19 00-0269	EA	6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,219.93	435.23	
33 14 19 00-0270	EA	6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,334.84	464.25	
33 14 19 00-0271	EA	7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,479.29	522.28	
33 14 19 00-0272 Three Way, Modern Model Fire Hydrant (33 14 19 00-0221)					
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).					
33 14 19 00-0273	EA	1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,761.10	324.97	
33 14 19 00-0274	EA	2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,847.09	324.97	
33 14 19 00-0275	EA	2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,933.34	324.97	
33 14 19 00-0276	EA	3' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,042.70	348.19	
33 14 19 00-0277	EA	3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,128.75	348.19	
33 14 19 00-0278	EA	4' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,243.87	377.20	
33 14 19 00-0279	EA	4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,330.04	377.20	
33 14 19 00-0280	EA	5' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,445.18	406.22	
33 14 19 00-0281	EA	5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,531.26	406.22	
33 14 19 00-0282	EA	6' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,646.37	406.22	
33 14 19 00-0283	EA	6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,761.75	464.25	
33 14 19 00-0284	EA	7' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,904.83	464.25	
33 14 19 00-0285 Two Way, Modern Model Fire Hydrant (33 14 19 00-0221)					
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).					
33 14 19 00-0286	EA	1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,682.84	324.97	
33 14 19 00-0287	EA	2' Burial Section, Two Way, Modern Type Fire Hydrant	2,748.28	324.97	
33 14 19 00-0288	EA	2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,814.45	324.97	
33 14 19 00-0289	EA	3' Burial Section, Two Way, Modern Type Fire Hydrant	2,902.33	348.19	
33 14 19 00-0290	EA	3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,967.75	348.19	
33 14 19 00-0291	EA	4' Burial Section, Two Way, Modern Type Fire Hydrant	3,062.19	377.20	
33 14 19 00-0292	EA	4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,127.59	377.20	
33 14 19 00-0293	EA	5' Burial Section, Two Way, Modern Type Fire Hydrant	3,222.11	406.22	
33 14 19 00-0294	EA	5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,287.34	406.22	
33 14 19 00-0295	EA	6' Burial Section, Two Way, Modern Type Fire Hydrant	3,381.79	435.23	
33 14 19 00-0296	EA	6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,476.32	464.25	
33 14 19 00-0297	EA	7' Burial Section, Two Way, Modern Type Fire Hydrant	3,598.96	522.28	
33 14 19 00-0298 Fire Hydrant Extension Kits (33 14 19 00-0221)					
33 14 19 00-0299	EA	6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	563.26	29.02	
33 14 19 00-0300	EA	12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	669.83	36.27	
33 14 19 00-0301	EA	18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	731.86	43.53	
33 14 19 00-0302	EA	24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	833.21	53.68	
33 14 19 00-0303	EA	30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,250.14	55.86	
33 14 19 00-0304	EA	36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,334.70	58.03	
33 14 19 00-0305	EA	42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,355.65	60.93	
33 14 19 00-0306	EA	48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,432.15	65.28	
33 14 19 00-0307	EA	54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,580.94	78.34	
33 14 19 00-0308	EA	60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,672.06	94.30	
33 14 19 00-0309	EA	6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	626.47	32.50	
33 14 19 00-0310	EA	12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	742.57	39.47	
33 14 19 00-0311	EA	18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	852.72	47.58	
33 14 19 00-0312	EA	24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	955.07	59.19	
33 14 19 00-0313	EA	30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,301.49	61.52	
33 14 19 00-0314	EA	36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,387.17	63.83	
33 14 19 00-0315	EA	42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,446.66	67.32	
33 14 19 00-0316	EA	48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,690.05	71.96	
33 14 19 00-0317	EA	54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,854.54	85.88	
33 14 19 00-0318	EA	60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,952.92	103.30	
33 14 19 00-0319 Removal And Reinstallation Of Standard Fire Hydrant (33 14 19 00-0221)					
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.					
33 14 19 00-0320	EA	Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	928.49		
33 14 19 00-0321	EA	>5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,354.05		
33 14 19 00-0322	EA	Reset Fire Hydrant Upper Barrel	1,150.11		
Note: Includes Safety Repair Kit					
33 14 19 00-0323 Yard Hydrants (33 14 19)					
Note: With 3/4" hose thread outlet.					
33 14 19 00-0324	EA	2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	383.45	42.62	
33 14 19 00-0325	EA	4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	409.96	42.62	
33 14 19 00-0326	EA	6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	436.47	42.62	
33 14 19 00-0327	EA	2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	320.84	53.98	
33 14 19 00-0328	EA	4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	333.05	53.98	
33 14 19 00-0329	EA	6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	345.27	53.98	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0330		Sanitary Yard Hydrants ^(33 14 19) Note: With 3/4" hose thread outlet.		
33 14 19 00-0331	EA	2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,648.12	88.79
33 14 19 00-0332	EA	4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,730.95	88.79
33 14 19 00-0333	EA	6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,813.79	88.79
33 14 19 00-0334		Flushing Hydrants ^(33 14 19)		
33 14 19 00-0335	EA	2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	757.02	54.56
33 14 23		Enclosures for Water Utility Piping and Valves ^(33 14)		
33 14 23 00-0001		Roadway Or Curb Valve Boxes ^(33 14 23)		
33 14 23 00-0002		Round Head, Cast Iron Service, Roadway Or Valve Boxes ^(33 14 23 00-0001)		
33 14 23 00-0003	EA	36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box..... Note: Includes cover, top section and bottom section.	235.22	17.26
33 14 23 00-0004	EA	36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box..... Note: Includes cover, top section and bottom section.	271.71	17.26
33 14 23 00-0005	EA	42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box..... Note: Includes cover, top section and bottom section.	273.39	17.26
33 14 23 00-0006	EA	9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	72.62	8.63
33 14 23 00-0007	EA	16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	82.28	8.63
33 14 23 00-0008	EA	24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	96.82	8.63
33 14 23 00-0009	EA	36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box..... Note: Includes cover, top section and bottom section.	352.21	21.58
33 14 23 00-0010	EA	45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	606.06	30.21
33 14 23 00-0011	EA	45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	674.13	30.21
33 14 23 00-0012	EA	24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box..... Note: Includes cover, top section and bottom section.	365.72	21.58
33 14 23 00-0013	EA	36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box..... Note: Includes cover, top section and bottom section.	381.98	21.58
33 14 23 00-0014	EA	24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box..... Note: Includes cover, top section and bottom section.	369.56	21.58
33 14 23 00-0015	EA	12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	134.39	8.63
33 14 23 00-0016	EA	18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	231.12	35.51
33 14 23 00-0017	EA	22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	238.51	36.94
33 14 23 00-0018	EA	30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	265.30	38.35
33 14 23 00-0019	EA	36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box.....	358.89	40.49
33 14 23 00-0020	EA	48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	431.04	42.62
33 14 23 00-0021	EA	18" Cast Iron Service Box Extension Section	99.92	
33 14 23 00-0022		Plastic Roadway Grade Water Meter Box And Cover ^(33 14 23 00-0001)		
33 14 23 00-0023	EA	12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	397.81	49.72
33 14 23 00-0024	EA	9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover.....	299.55	35.51
33 14 23 00-0025	EA	Cast Iron Lid For Plastic Meter Box	90.01	
33 14 23 00-0026		Traffic Valve Box And Lid ^(33 14 23 00-0001)		
33 14 23 00-0027	EA	10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	212.03	
33 14 23 00-0028	EA	14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....	625.17	
33 30		Sanitary Sewerage Utilities ⁽³³⁾		
33 31		Sanitary Sewerage Piping ^(33 30)		
33 31 11		Public Sanitary Sewerage Gravity Piping ^(33 31) Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 31 11 00-0001		Plastic Sewer And Drain Piping ^(33 31 11)		
33 31 11 00-0002		Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe ^(33 31 11 00-0001)		
33 31 11 00-0003	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	8.65	3.73
33 31 11 00-0004	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	10.41	4.40
33 31 11 00-0005	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.98	5.33
33 31 11 00-0006	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	17.22	6.21
33 31 11 00-0007	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	22.82	7.22
33 31 11 00-0008	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	29.84	8.40
33 31 11 00-0009	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	39.15	8.70
33 31 11 00-0010	LF	12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	50.00	9.01
33 31 11 00-0011		Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe ^(33 31 11 00-0001) Note: D-2729 PVC pipe.		
33 31 11 00-0012	LF	3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	12.30	5.33
33 31 11 00-0013	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	14.50	6.21



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 31 11 00-0014	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....		18.53	7.22
33 31 11 00-0015		Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0001)			
33 31 11 00-0016		1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)			
33 31 11 00-0017	EA	1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		26.59	15.09
33 31 11 00-0018	EA	2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		34.22	19.52
33 31 11 00-0019	EA	3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		54.91	26.21
33 31 11 00-0020	EA	4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		78.34	30.30
33 31 11 00-0021	EA	6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		259.56	39.38
33 31 11 00-0022	EA	8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		422.78	53.00
33 31 11 00-0023	EA	10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		558.57	70.58
33 31 11 00-0024		1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)			
33 31 11 00-0025	EA	1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		27.50	15.09
33 31 11 00-0026	EA	2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		34.14	19.52
33 31 11 00-0027	EA	3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		53.55	26.21
33 31 11 00-0028	EA	4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		71.68	30.30
33 31 11 00-0029	EA	6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		242.60	39.38
33 31 11 00-0030	EA	8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		383.35	53.00
33 31 11 00-0031	EA	10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		442.60	70.58
33 31 11 00-0032	EA	12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		650.86	94.01
33 31 11 00-0033		Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)			
33 31 11 00-0034	EA	1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		37.35	14.87
33 31 11 00-0035	EA	2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		40.58	19.52
33 31 11 00-0036	EA	3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		72.14	26.78
33 31 11 00-0037	EA	4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		111.89	32.69
33 31 11 00-0038	EA	6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		199.12	37.79
33 31 11 00-0039	EA	8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		331.92	43.12
33 31 11 00-0040	EA	10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		526.78	50.27
33 31 11 00-0041	EA	12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		783.17	58.60
33 31 11 00-0042		1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)			
33 31 11 00-0043	EA	1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		29.43	15.09
33 31 11 00-0044	EA	2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		36.12	19.52
33 31 11 00-0045	EA	3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		59.20	26.21
33 31 11 00-0046	EA	4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		82.19	30.30
33 31 11 00-0047	EA	6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		315.98	39.38
33 31 11 00-0048	EA	8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		504.92	53.00
33 31 11 00-0049	EA	10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		577.28	70.58
33 31 11 00-0050	EA	12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....		605.97	94.01
33 31 11 00-0051		Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)			
33 31 11 00-0052	EA	2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		33.76	17.22
33 31 11 00-0053	EA	3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		56.00	20.56
33 31 11 00-0054	EA	3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		55.09	22.68
33 31 11 00-0055	EA	4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		78.87	24.78
33 31 11 00-0056	EA	4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		85.76	28.12
33 31 11 00-0057	EA	6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		228.92	34.80
33 31 11 00-0058	EA	8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		468.12	46.15
33 31 11 00-0059	EA	10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		147.69	50.39
33 31 11 00-0060	EA	10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		194.90	54.96
33 31 11 00-0061	EA	10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		189.09	61.72
33 31 11 00-0062	EA	12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		499.09	66.72
33 31 11 00-0063	EA	12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		529.16	73.48
33 31 11 00-0064	EA	12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		563.35	82.29
33 31 11 00-0065		Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)			
33 31 11 00-0066	EA	1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		41.22	22.81
33 31 11 00-0067	EA	2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		54.25	29.51
33 31 11 00-0068	EA	3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		85.24	38.92
33 31 11 00-0069	EA	4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		123.57	48.34
33 31 11 00-0070	EA	6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		376.74	53.00
33 31 11 00-0071	EA	8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		490.25	70.58
33 31 11 00-0072		Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)			
33 31 11 00-0073	EA	1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		48.27	22.81
33 31 11 00-0074	EA	2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		58.34	29.51
33 31 11 00-0075	EA	3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		90.47	38.92
33 31 11 00-0076	EA	4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		132.13	48.34
33 31 11 00-0077	EA	6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		344.64	53.00

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0078 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	429.26	70.58
33 31 11 00-0079 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	565.52	94.19
33 31 11 00-0080 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	877.57	125.70
33 31 11 00-0081 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0082 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	59.32	22.81
33 31 11 00-0083 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	69.09	29.51
33 31 11 00-0084 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	83.20	38.92
33 31 11 00-0085 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	120.39	48.34
33 31 11 00-0086 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	128.42	48.34
33 31 11 00-0087 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0088 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	74.17	29.51
33 31 11 00-0089 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	96.98	38.92
33 31 11 00-0090 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	178.34	52.54
33 31 11 00-0091 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	297.22	63.55
33 31 11 00-0092 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	93.65	38.92
33 31 11 00-0093 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	152.89	52.54
33 31 11 00-0094 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	255.19	63.55
33 31 11 00-0095 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0096 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	57.05	22.81
33 31 11 00-0097 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	72.05	29.51
33 31 11 00-0098 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	131.66	38.92
33 31 11 00-0099 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	224.51	48.34
33 31 11 00-0100 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	101.88	29.51
33 31 11 00-0101 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	158.69	38.92
33 31 11 00-0102 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	121.09	38.92
33 31 11 00-0103 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	211.84	48.34
33 31 11 00-0104 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	223.43	48.34
33 31 11 00-0105 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0106 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	80.98	29.51
33 31 11 00-0107 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	97.74	38.92
33 31 11 00-0108 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	147.06	52.54
33 31 11 00-0109 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	455.18	63.55
33 31 11 00-0110 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	1,411.93	70.36
33 31 11 00-0111 Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0112 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	395.81	115.38
33 31 11 00-0113 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	870.44	148.85
33 31 11 00-0114 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,120.50	209.76
33 31 11 00-0115 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,574.89	337.42
33 31 11 00-0116 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0117 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	26.13	15.09
33 31 11 00-0118 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	32.91	19.41
33 31 11 00-0119 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	48.91	25.99
33 31 11 00-0120 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	61.62	30.30
33 31 11 00-0121 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	148.64	39.38
33 31 11 00-0122 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	338.04	53.00
33 31 11 00-0123 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	506.64	70.58
33 31 11 00-0124 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	823.80	94.01
33 31 11 00-0125 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0126 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting	149.84	91.81
33 31 11 00-0127 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	108.77	69.84
33 31 11 00-0128 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	110.54	69.84
33 31 11 00-0129 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	115.26	69.84
33 31 11 00-0130 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	151.14	91.81
33 31 11 00-0131 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	147.37	91.81
33 31 11 00-0132 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	141.16	91.81
33 31 11 00-0133 EA 4" Drain Grate, Drain And Sewer Fitting	75.35	47.21
33 31 11 00-0134 Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0135 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	35.18	16.23
33 31 11 00-0136 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	54.78	20.20
33 31 11 00-0137 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	97.73	26.10



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0138		Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0139	EA	1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	24.79	15.09
33 31 11 00-0140	EA	2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	32.19	19.52
33 31 11 00-0141	EA	3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	46.38	26.21
33 31 11 00-0142	EA	4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.87	30.30
33 31 11 00-0143	EA	6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	94.66	39.38
33 31 11 00-0144	EA	8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	308.35	53.00
33 31 11 00-0145		Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001) Note: ASTM 3034.		
33 31 11 00-0146	LF	4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	16.16	6.21
33 31 11 00-0147	LF	6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	21.59	7.22
33 31 11 00-0148	LF	8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	28.92	8.40
33 31 11 00-0149	LF	10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	35.57	8.70
33 31 11 00-0150	LF	12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	43.59	9.01
33 31 11 00-0151	LF	15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	57.02	9.32
33 31 11 00-0152	LF	18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	72.38	9.67
33 31 11 00-0153	LF	21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	94.14	10.49
33 31 11 00-0154	LF	24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	114.27	11.32
33 31 11 00-0155	LF	27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	142.12	13.29
33 31 11 00-0156		Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001) Note: ASTM 3034.		
33 31 11 00-0157	LF	4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	16.30	6.21
33 31 11 00-0158	LF	6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	22.22	7.22
33 31 11 00-0159	LF	8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	30.36	8.40
33 31 11 00-0160		Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0001) Note: ASTM 3034.		
33 31 11 00-0161		1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0162	EA	4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	75.37	26.42
33 31 11 00-0163	EA	6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	108.83	30.72
33 31 11 00-0164	EA	8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	217.77	34.80
33 31 11 00-0165	EA	10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	604.49	40.95
33 31 11 00-0166	EA	12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	780.88	52.21
33 31 11 00-0167		1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0168	EA	4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	68.93	26.42
33 31 11 00-0169	EA	6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	101.73	30.72
33 31 11 00-0170	EA	8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	199.82	34.80
33 31 11 00-0171	EA	10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	435.40	40.95
33 31 11 00-0172	EA	12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	620.12	52.21
33 31 11 00-0173	EA	15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,316.56	73.71
33 31 11 00-0174	EA	18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,084.64	104.42
33 31 11 00-0175	EA	21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,466.13	138.20
33 31 11 00-0176	EA	24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	4,724.72	184.27
33 31 11 00-0177		Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0178	EA	4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	113.96	39.62
33 31 11 00-0179	EA	6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	176.93	43.91
33 31 11 00-0180	EA	6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	197.73	46.06
33 31 11 00-0181	EA	8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	217.41	48.21
33 31 11 00-0182	EA	8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	247.38	50.37
33 31 11 00-0183	EA	8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	459.42	52.52
33 31 11 00-0184	EA	10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	583.99	53.74
33 31 11 00-0185	EA	10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	660.37	56.31
33 31 11 00-0186	EA	10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	967.03	58.45
33 31 11 00-0187	EA	10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,255.60	61.42
33 31 11 00-0188	EA	12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	718.34	65.42
33 31 11 00-0189	EA	12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	761.97	67.57
33 31 11 00-0190	EA	12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,078.52	69.72
33 31 11 00-0191	EA	12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,546.55	72.68
33 31 11 00-0192	EA	12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,741.68	78.31
33 31 11 00-0193		Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0194	EA	4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	108.96	39.62
33 31 11 00-0195	EA	6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	160.27	43.91
33 31 11 00-0196	EA	6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	175.36	46.06
33 31 11 00-0197	EA	8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	210.27	48.21
33 31 11 00-0198	EA	8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	238.86	50.37
33 31 11 00-0199	EA	8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	357.64	52.52
33 31 11 00-0200	EA	10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	535.79	54.16

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0201 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	546.90	56.31
33 31 11 00-0202 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	814.26	58.45
33 31 11 00-0203 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	899.96	61.42
33 31 11 00-0204 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	678.01	65.42
33 31 11 00-0205 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	699.33	67.57
33 31 11 00-0206 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	992.67	69.72
33 31 11 00-0207 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,192.43	72.68
33 31 11 00-0208 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,245.83	78.31
33 31 11 00-0209 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,534.60	94.19
33 31 11 00-0210 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,701.02	99.82
33 31 11 00-0211 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,122.09	110.56
33 31 11 00-0212 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0213 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	74.80	26.42
33 31 11 00-0214 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	112.63	30.72
33 31 11 00-0215 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	162.70	35.01
33 31 11 00-0216 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	299.87	40.95
33 31 11 00-0217 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	423.53	52.21
33 31 11 00-0218 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	819.07	73.71
33 31 11 00-0219 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,529.33	104.42
33 31 11 00-0220 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,540.10	138.20
33 31 11 00-0221 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,671.94	184.27
33 31 11 00-0222 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0223 EA 6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	135.92	28.57
33 31 11 00-0224 EA 8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	191.40	30.72
33 31 11 00-0225 EA 8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	201.99	32.86
33 31 11 00-0226 EA 10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	442.46	35.83
33 31 11 00-0227 EA 10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	507.47	37.98
33 31 11 00-0228 EA 12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	566.70	41.46
33 31 11 00-0229 EA 12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	649.11	43.61
33 31 11 00-0230 EA 12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	743.15	46.58
33 31 11 00-0231 EA 15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,116.52	62.95
33 31 11 00-0232 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0233 EA 6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	114.79	
33 31 11 00-0234 EA 8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	150.40	
33 31 11 00-0235 EA 8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	153.49	
33 31 11 00-0236 EA 10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	248.12	
33 31 11 00-0237 EA 10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	261.04	
33 31 11 00-0238 EA 10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	483.22	
33 31 11 00-0239 EA 12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	283.69	
33 31 11 00-0240 EA 12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	307.90	
33 31 11 00-0241 EA 12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	666.61	
33 31 11 00-0242 EA 12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	783.18	
33 31 11 00-0243 EA 15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	330.09	
33 31 11 00-0244 EA 15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	351.22	
33 31 11 00-0245 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0246 EA 6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	122.03	
33 31 11 00-0247 EA 8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	150.40	
33 31 11 00-0248 EA 8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	163.33	
33 31 11 00-0249 EA 10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	228.97	
33 31 11 00-0250 EA 10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	259.49	
33 31 11 00-0251 EA 10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	386.78	
33 31 11 00-0252 EA 12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	282.15	
33 31 11 00-0253 EA 12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	306.44	
33 31 11 00-0254 EA 12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	450.68	
33 31 11 00-0255 EA 12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	544.82	
33 31 11 00-0256 EA 15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	329.14	
33 31 11 00-0257 EA 15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	344.06	
33 31 11 00-0258 EA 15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	557.34	
33 31 11 00-0259 EA 15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	614.15	
33 31 11 00-0260 EA 15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	858.32	
33 31 11 00-0261 Couplings And Plug Fittings (33 31 11)		
33 31 11 00-0262 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 31 11 00-0261)		
Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.		
33 31 11 00-0263 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	22.58	8.61
33 31 11 00-0264 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)	24.80	10.05
33 31 11 00-0265 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)	28.35	11.48
33 31 11 00-0266 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)	31.86	12.21



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0267 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)	38.02	12.92
33 31 11 00-0268 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)	44.22	14.36
33 31 11 00-0269 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)	54.61	15.79
33 31 11 00-0270 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)	65.97	16.51
33 31 11 00-0271 EA 12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212)	103.51	17.23
33 31 11 00-0272 EA 15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515)	137.97	18.67
33 31 11 00-0273 EA 18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818)	257.04	19.38
33 31 11 00-0274 EA 21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121)	297.45	20.46
33 31 11 00-0275 EA 24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424)	328.87	21.54
33 31 11 00-0276 EA 27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727)	392.79	22.98
33 31 11 00-0277 Cast Iron Service Saddles With U Bolt (33 31 11)		
33 31 11 00-0278 EA 2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	122.77	
33 31 11 00-0279 EA 3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	123.32	
33 31 11 00-0280 EA 3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	135.95	
33 31 11 00-0281 EA 4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	131.15	
33 31 11 00-0282 EA 4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	147.49	
33 31 11 00-0283 EA 4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	165.18	
33 31 11 00-0284 EA 4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	195.40	
33 31 11 00-0285 EA 6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	164.39	
33 31 11 00-0286 EA 6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	179.64	
33 31 11 00-0287 EA 6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	207.57	
33 31 11 00-0288 EA 4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	134.21	
33 31 11 00-0289 EA 4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	146.84	
33 31 11 00-0290 EA 4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	172.33	
33 31 11 00-0291 EA 4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	204.19	
33 31 11 00-0292 EA 6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	218.52	
33 40 Stormwater Utilities (33)		
33 41 Subdrainage (33 40)		
33 41 16 Subdrainage Piping (33 41)		
33 41 16 13 Subdrainage Piping (33 41 16)		
See CSI section 33 42 11 00-0227 for polyethylene drain pipe.		
33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)		
33 41 16 13-0002 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0001)		
Note: Excludes couplings and gaskets.		
33 41 16 13-0003 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0004 LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	5.32	4.42
For <100, Add		0.93
For >1,000, Deduct		-0.49
33 41 16 13-0005 LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	6.75	4.73
For <100, Add		1.05
For >1,000, Deduct		-0.57
33 41 16 13-0006 LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	8.54	4.97
For <100, Add		1.17
For >1,000, Deduct		-0.68
33 41 16 13-0007 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	11.72	5.13
For <100, Add		1.36
For >1,000, Deduct		-0.84
33 41 16 13-0008 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	13.82	5.60
For <100, Add		1.53
For >1,000, Deduct		-0.97
33 41 16 13-0009 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	18.29	6.32
For <100, Add		1.86
For >1,000, Deduct		-1.23
33 41 16 13-0010 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	29.27	10.53
For <100, Add		3.04
For >1,000, Deduct		-1.99
33 41 16 13-0011 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	40.83	11.56
For <100, Add		3.78
For >1,000, Deduct		-2.62
33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0013 LF 4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	5.19	4.42
For <100, Add		0.92
For >1,000, Deduct		-0.48
33 41 16 13-0014 LF 6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	6.69	4.73
For <100, Add		1.04
For >1,000, Deduct		-0.57
33 41 16 13-0015 LF 8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	10.99	4.97
For <100, Add		1.30
For >1,000, Deduct		-0.80

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0016 LF 10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.42 For >1,000, Deduct -0.91	13.01	5.13
33 41 16 13-0017 LF 12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.60 For >1,000, Deduct -1.04	15.24	5.60
33 41 16 13-0018 LF 15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.86 For >1,000, Deduct -1.22	18.14	6.32
33 41 16 13-0019 LF 18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 3.00 For >1,000, Deduct -1.94	28.34	10.53
33 41 16 13-0020 LF 24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 3.70 For >1,000, Deduct -2.55	39.35	11.56
33 41 16 13-0021 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 41 16 13-0021) Note: Excludes couplings and gaskets.		
33 41 16 13-0022 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0023 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	43.78	24.58
33 41 16 13-0024 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	51.90	28.68
33 41 16 13-0025 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	80.76	34.82
33 41 16 13-0026 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	103.17	43.02
33 41 16 13-0027 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	149.41	51.22
33 41 16 13-0028 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	311.27	66.92
33 41 16 13-0029 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	375.23	90.13
33 41 16 13-0030 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	689.69	102.42
33 41 16 13-0031 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0032 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	44.81	24.58
33 41 16 13-0033 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	55.28	28.68
33 41 16 13-0034 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	116.07	34.82
33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0036 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	29.54	16.39
33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0038 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	30.62	16.39
33 41 16 13-0039 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	38.97	19.12
33 41 16 13-0040 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	56.35	23.22
33 41 16 13-0041 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	73.70	28.68
33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16 13) Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 1.09 For >1,000, Deduct -0.63	8.00	4.61
33 41 16 13-0044 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 1.19 For >1,000, Deduct -0.69	8.76	4.99
33 41 16 13-0045 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 1.52 For >1,000, Deduct -0.92	12.47	5.98
33 41 16 13-0046 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 2.10 For >1,000, Deduct -1.35	19.59	7.47
33 41 16 13-0047 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 2.77 For >1,000, Deduct -1.99	32.01	7.78
33 41 16 13-0048 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 3.32 For >1,000, Deduct -2.47	40.94	8.49
33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 3.83 For >1,000, Deduct -2.88	47.94	9.57
33 41 16 13-0050 Perforated Non Reinforced Concrete Drainage Piping, C444 (33 41 16 13)		
33 41 16 13-0051 LF 6" Perforated Non Reinforced Concrete Drainage Pipe For Extra Strength, Add 1.61 For >1,000, Deduct -1.48	29.57	11.11
33 41 16 13-0052 LF 8" Perforated Non Reinforced Concrete Drainage Pipe For Extra Strength, Add 1.98 For >1,000, Deduct -1.73	34.53	12.35



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Subdrainage	33 41	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 41 16 13-0053	LF 10" Perforated Non Reinforced Concrete Drainage Pipe..... <i>For Extra Strength, Add</i> <i>For >1,000, Deduct</i>	39.06 2.31 -1.95		13.58
33 41 16 13-0054	LF 12" Perforated Non Reinforced Concrete Drainage Pipe..... <i>For Extra Strength, Add</i> <i>For >1,000, Deduct</i>	45.81 2.90 -2.29		14.82
33 41 16 13-0055	Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16 13) Note: Bell and spigot or tongue and groove. With seals and gaskets.			
33 41 16 13-0056	LF 6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	24.58 -1.23		11.11
33 41 16 13-0057	LF 8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	27.21 -1.36		12.35
33 41 16 13-0058	LF 10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	30.02 -1.50		13.58
33 41 16 13-0059	LF 12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	34.24 -1.71		14.11
33 41 16 13-0060	LF 15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	39.75 -1.99		15.87
33 41 16 13-0061	LF 18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	49.19 -2.46		20.28
33 41 16 13-0062	LF 21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	61.46 -3.07		26.02
33 41 16 13-0063	LF 24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	74.92 -3.75		31.75
33 41 16 13-0064	Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16 13)			
33 41 16 13-0065	LF 6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	22.94 -1.15		11.11
33 41 16 13-0066	LF 8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	29.04 -1.45		12.35
33 41 16 13-0067	LF 10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	36.61 -1.83		13.58
33 41 16 13-0068	LF 12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	44.35 -2.22		14.82
33 41 16 13-0069	LF 15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	50.76 -2.54		16.48
33 41 16 13-0070	LF 18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	65.73 -3.29		20.56
33 41 16 13-0071	Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)			
33 41 16 13-0072	LF 4" Perforated Vitrified Clay Drainage Pipe	23.05		12.35
33 41 16 13-0073	LF 6" Perforated Vitrified Clay Drainage Pipe	27.52		13.89
33 41 16 13-0074	LF 8" Perforated Vitrified Clay Drainage Pipe	31.36		13.89
33 41 16 13-0075	LF 10" Perforated Vitrified Clay Drainage Pipe	42.00		16.98
33 41 16 13-0076	LF 12" Perforated Vitrified Clay Drainage Pipe	49.90		18.52
33 41 16 13-0077	Geotextile Filter Fabric Sock (33 41 16 13)			
33 41 16 13-0078	LF 3" Geotextile Filter Fabric Sock.....	0.71		
33 41 16 13-0079	LF 4" Geotextile Filter Fabric Sock.....	0.93		
33 41 16 13-0080	LF 6" Geotextile Filter Fabric Sock.....	1.42		
33 41 16 13-0081	LF 8" Geotextile Filter Fabric Sock.....	1.90		
33 41 16 13-0082	LF 10" Geotextile Filter Fabric Sock.....	2.84		
33 41 16 13-0083	LF 12" Geotextile Filter Fabric Sock.....	3.89		
33 41 16 13-0084	LF 15" Geotextile Filter Fabric Sock.....	4.66		
33 41 16 13-0085	Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13) Note: Perforations are located in the bottom quarter points of the pipe.			
33 41 16 13-0086	LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	21.00 1.04		5.29
33 41 16 13-0087	LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	26.55 1.37		6.41
33 41 16 13-0088	LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	33.49 1.72		8.14
33 41 16 13-0089	LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	37.23 1.80		9.62
33 41 16 13-0090	LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	42.54 2.26		9.96
33 41 16 13-0091	LF 18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	47.97 2.73		10.33
33 41 16 13-0092	LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	54.79 3.25		11.14
33 41 16 13-0093	Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13) Note: Perforations are located in the bottom quarter points of the pipe.			

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0094 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe..... <i>For Full Perforated, Add</i>	22.68 1.21	5.29
33 41 16 13-0095 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe..... <i>For Full Perforated, Add</i>	28.82 1.60	6.41
33 41 16 13-0096 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe..... <i>For Full Perforated, Add</i>	36.26 2.00	8.14
33 41 16 13-0097 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe..... <i>For Full Perforated, Add</i>	39.93 2.07	9.62
33 41 16 13-0098 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe..... <i>For Full Perforated, Add</i>	45.87 2.59	9.96
33 41 16 13-0099 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe..... <i>For Full Perforated, Add</i>	51.92 3.13	10.33
33 41 16 13-0100 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe..... <i>For Full Perforated, Add</i>	59.39 3.71	11.14
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe ^(33 41 16 13) Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0102 LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	23.21 1.26	5.29
33 41 16 13-0103 LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	29.52 1.67	6.41
33 41 16 13-0104 LF 10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	37.14 2.09	8.14
33 41 16 13-0105 LF 12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	46.58 2.73	9.62
33 41 16 13-0106 LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	54.14 3.42	9.96
33 41 16 13-0107 LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	61.95 4.13	10.33
33 41 16 13-0108 LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	71.08 4.88	11.14
33 41 16 13-0109 Prefabricated Composite Drains ^(33 41 16 13)		
33 41 16 13-0110 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) ^(33 41 16 13-0109) Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.		
33 41 16 13-0111 LF 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)..... <i>For External Typar Geotextile Wrap, Add</i>	9.55 1.70	2.06
33 41 16 13-0112 EA Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	42.75	
33 41 16 13-0113 EA End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	42.75	
33 41 16 13-0114 EA Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	82.19	
33 41 16 13-0115 EA End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	82.19	
33 41 16 13-0116 LF 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)..... <i>For External Typar Geotextile Wrap, Add</i>	15.17 2.55	2.58
33 41 16 13-0117 EA Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	63.00	
33 41 16 13-0118 EA End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	63.00	
33 41 16 13-0119 EA Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	107.77	
33 41 16 13-0120 EA End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	107.77	
33 41 19 Underslab Drainage ^(33 41)		
33 41 19 13 Underslab Drainage Piping ^(33 41 19)		
33 41 19 13-0001 Capillary Water Barrier Underslab Drainage ^(33 41 19 13) Note: Consists of a layer of fine granular material overlying a coarse layer.		
33 41 19 13-0002 CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	92.27	
33 41 19 13-0003 CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	89.92	
33 41 19 13-0004 CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	88.97	
33 41 19 13-0005 CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	87.57	
33 42 Stormwater Conveyance ^(33 40) Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 42 11 Stormwater Gravity Piping ^(33 42)		
33 42 11 00-0001 Reinforced Concrete Piping ^(33 42 11)		
33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets ^(33 42 11 00-0001)		
33 42 11 00-0003 LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	44.18 -2.21 2.19 4.60	14.82
33 42 11 00-0004 LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	53.01 -2.65 2.80 5.89	16.48



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0005	LF	18"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	60.36	20.56
			For >1,000, Deduct	-3.02	
			For Class 4, Add	2.94	
			For Class 5, Add	6.20	
33 42 11 00-0006	LF	21"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	77.32	25.93
			For >1,000, Deduct	-3.87	
			For Class 4, Add	3.83	
			For Class 5, Add	8.05	
33 42 11 00-0007	LF	24"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	90.55	31.49
			For >1,000, Deduct	-4.53	
			For Class 4, Add	4.33	
			For Class 5, Add	9.11	
33 42 11 00-0008	LF	27"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	114.79	40.10
			For >1,000, Deduct	-5.74	
			For Class 4, Add	5.46	
			For Class 5, Add	11.50	
33 42 11 00-0009	LF	30"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	122.07	41.41
			For >1,000, Deduct	-6.10	
			For Class 4, Add	5.91	
			For Class 5, Add	12.44	
33 42 11 00-0010	LF	36"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	150.91	47.06
			For >1,000, Deduct	-7.55	
			For Class 4, Add	8.02	
			For Class 5, Add	16.87	
33 42 11 00-0011	LF	42"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	195.29	51.76
			For >1,000, Deduct	-9.76	
			For Class 4, Add	11.60	
			For Class 5, Add	24.41	
33 42 11 00-0012	LF	48"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	233.76	57.64
			For >1,000, Deduct	-11.69	
			For Class 4, Add	14.38	
			For Class 5, Add	30.28	
33 42 11 00-0013	LF	54"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	290.71	65.87
			For >1,000, Deduct	-14.54	
			For Class 4, Add	18.68	
			For Class 5, Add	39.32	
33 42 11 00-0014	LF	60"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	350.95	76.41
			For >1,000, Deduct	-17.55	
			For Class 4, Add	22.97	
			For Class 5, Add	48.36	
33 42 11 00-0015	LF	66"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	539.93	84.70
			For >1,000, Deduct	-27.00	
			For Class 4, Add	39.85	
			For Class 5, Add	83.89	
33 42 11 00-0016	LF	72"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	629.74	92.23
			For >1,000, Deduct	-31.49	
			For Class 4, Add	47.31	
			For Class 5, Add	99.60	
33 42 11 00-0017	LF	78"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	757.05	103.52
			For >1,000, Deduct	-37.85	
			For Class 4, Add	57.84	
			For Class 5, Add	121.77	
33 42 11 00-0018	LF	84"	Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	974.62	115.28
			For >1,000, Deduct	-48.73	
			For Class 4, Add	76.94	
			For Class 5, Add	161.99	
33 42 11 00-0019 HE-I Elliptical Reinforced Concrete Piping Without Gaskets (33 42 11 00-0001)					
33 42 11 00-0020	LF	12" x 18"	Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size).....	72.08	23.39
			For >1,000, Deduct	-3.60	
			For Horizontal Elliptical - II (HE- II), Add	3.87	
			For Horizontal Elliptical - III (HE- III), Add	8.51	
			For Horizontal Elliptical - IV (HE- IV), Add	18.56	
33 42 11 00-0021	LF	14" x 23"	Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	106.10	27.34
			For >1,000, Deduct	-5.31	
			For Horizontal Elliptical - II (HE- II), Add	6.70	
			For Horizontal Elliptical - III (HE- III), Add	14.75	
			For Horizontal Elliptical - IV (HE- IV), Add	32.18	
33 42 11 00-0022	LF	19" x 30"	Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	147.55	41.88
			For >1,000, Deduct	-7.38	
			For Horizontal Elliptical - II (HE- II), Add	8.77	
			For Horizontal Elliptical - III (HE- III), Add	19.30	
			For Horizontal Elliptical - IV (HE- IV), Add	42.11	
33 42 11 00-0023	LF	22" x 34"	Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	174.25	53.33
			For >1,000, Deduct	-8.71	
			For Horizontal Elliptical - II (HE- II), Add	9.81	
			For Horizontal Elliptical - III (HE- III), Add	21.57	
			For Horizontal Elliptical - IV (HE- IV), Add	47.07	
33 42 11 00-0024	LF	24" x 38"	Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	184.94	55.72
			For >1,000, Deduct	-9.25	
			For Horizontal Elliptical - II (HE- II), Add	10.53	
			For Horizontal Elliptical - III (HE- III), Add	23.17	
			For Horizontal Elliptical - IV (HE- IV), Add	50.56	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0025 LF 27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size)	212.13	58.83
For >1,000, Deduct	-10.61	
For Horizontal Elliptical - II (HE- II), Add	12.81	
For Horizontal Elliptical - III (HE- III), Add	28.18	
For Horizontal Elliptical - IV (HE- IV), Add	61.48	
33 42 11 00-0026 LF 29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size)	239.32	61.95
For >1,000, Deduct	-11.97	
For Horizontal Elliptical - II (HE- II), Add	15.08	
For Horizontal Elliptical - III (HE- III), Add	33.18	
For Horizontal Elliptical - IV (HE- IV), Add	72.40	
33 42 11 00-0027 LF 34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size)	291.42	68.17
For >1,000, Deduct	-14.57	
For Horizontal Elliptical - II (HE- II), Add	19.40	
For Horizontal Elliptical - III (HE- III), Add	42.69	
For Horizontal Elliptical - IV (HE- IV), Add	93.14	
33 42 11 00-0028 LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size)	350.93	76.66
For >1,000, Deduct	-17.55	
For Horizontal Elliptical - II (HE- II), Add	24.14	
For Horizontal Elliptical - III (HE- III), Add	53.11	
For Horizontal Elliptical - IV (HE- IV), Add	115.88	
33 42 11 00-0029 LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size)	399.50	87.61
For >1,000, Deduct	-19.98	
For Horizontal Elliptical - II (HE- II), Add	27.43	
For Horizontal Elliptical - III (HE- III), Add	60.35	
For Horizontal Elliptical - IV (HE- IV), Add	131.68	
33 42 11 00-0030 LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size)	494.51	101.64
For >1,000, Deduct	-24.73	
For Horizontal Elliptical - II (HE- II), Add	34.93	
For Horizontal Elliptical - III (HE- III), Add	76.85	
For Horizontal Elliptical - IV (HE- IV), Add	167.67	
33 42 11 00-0031 LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size)	564.28	111.99
33 42 11 00-0032 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size)	683.85	122.34
33 42 11 00-0033 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size)	816.61	138.34
33 42 11 00-0034 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size)	884.16	153.40
33 42 11 00-0035 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size)	1,131.16	160.92
33 42 11 00-0036 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size)	1,310.35	168.46
33 42 11 00-0037 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0038 EA 12" Concrete Reducing Wye Without Gaskets	535.44	56.45
33 42 11 00-0039 EA 15" Concrete Reducing Wye Without Gaskets	642.12	68.79
33 42 11 00-0040 EA 18" Concrete Reducing Wye Without Gaskets	793.28	75.85
33 42 11 00-0041 EA 21" Concrete Reducing Wye Without Gaskets	910.57	93.49
33 42 11 00-0042 EA 24" Concrete Reducing Wye Without Gaskets	1,029.23	112.89
33 42 11 00-0043 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0044 EA 12" Diameter Concrete Pipe Joint Gasket	5.10	
33 42 11 00-0045 EA 15" Diameter Concrete Pipe Joint Gasket	6.03	
33 42 11 00-0046 EA 18" Diameter Concrete Pipe Joint Gasket	6.99	
33 42 11 00-0047 EA 21" Diameter Concrete Pipe Joint Gasket	8.45	
33 42 11 00-0048 EA 24" Diameter Concrete Pipe Joint Gasket	9.90	
33 42 11 00-0049 EA 27" Diameter Concrete Pipe Joint Gasket	11.03	
33 42 11 00-0050 EA 30" Diameter Concrete Pipe Joint Gasket	12.12	
33 42 11 00-0051 EA 36" Diameter Concrete Pipe Joint Gasket	14.81	
33 42 11 00-0052 EA 42" Diameter Concrete Pipe Joint Gasket	17.17	
33 42 11 00-0053 EA 48" Diameter Concrete Pipe Joint Gasket	19.80	
33 42 11 00-0054 EA 54" Diameter Concrete Pipe Joint Gasket	24.27	
33 42 11 00-0055 EA 60" Diameter Concrete Pipe Joint Gasket	35.93	
33 42 11 00-0056 EA 66" Diameter Concrete Pipe Joint Gasket	37.35	
33 42 11 00-0057 EA 72" Diameter Concrete Pipe Joint Gasket	38.73	
33 42 11 00-0058 EA 78" Diameter Concrete Pipe Joint Gasket	44.60	
33 42 11 00-0059 EA 84" Diameter Concrete Pipe Joint Gasket	53.47	
33 42 11 00-0060 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0061 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	275.63	165.63
33 42 11 00-0062 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	339.58	205.16
33 42 11 00-0063 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	418.58	259.74
33 42 11 00-0064 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	493.81	310.56
33 42 11 00-0065 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	567.08	359.41
33 42 11 00-0066 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	691.35	459.26
33 42 11 00-0067 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	889.15	632.42
33 42 11 00-0068 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,103.84	798.05
33 42 11 00-0069 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,355.55	1,001.14
33 42 11 00-0070 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,513.37	1,128.38
33 42 11 00-0071 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,687.23	1,264.84
33 42 11 00-0072 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,862.64	1,405.05
33 42 11 00-0073 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,936.09	1,458.70
33 42 11 00-0074 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,000.74	1,505.75
33 42 11 00-0075 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,065.39	1,552.81
33 42 11 00-0076 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,132.24	1,599.86



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 42 11 00-0077		Strap Assembly (33 42 11 00-0001)			
		Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.			
33 42 11 00-0078	EA	Up To 24" Diameter Pipe, 12' Strap Assembly	214.79		
33 42 11 00-0079	EA	>24" Diameter Pipe, 12' Strap Assembly	303.04		
33 42 11 00-0080		Prestressed Concrete Cylinder Piping (33 42 11)			
33 42 11 00-0081		150 PSI Prestressed Concrete Cylinder Pipe And Fittings (33 42 11 00-0080)			
33 42 11 00-0082		150 PSI Prestressed Concrete Cylinder Pipe With Gaskets (33 42 11 00-0081)			
		Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".			
33 42 11 00-0083	LF	12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	120.29		14.82
		For >1,000, Deduct	-6.01		
		For 100 PSI, Deduct	-24.78		
33 42 11 00-0084	LF	15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	128.40		16.48
		For >1,000, Deduct	-6.42		
		For 100 PSI, Deduct	-26.21		
33 42 11 00-0085	LF	18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	139.96		20.56
		For >1,000, Deduct	-7.00		
		For 100 PSI, Deduct	-27.65		
33 42 11 00-0086	LF	21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	153.38		25.93
		For >1,000, Deduct	-7.67		
		For 100 PSI, Deduct	-29.08		
33 42 11 00-0087	LF	24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	167.05		31.49
		For >1,000, Deduct	-8.35		
		For 100 PSI, Deduct	-30.52		
33 42 11 00-0088	LF	30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	196.53		41.41
		For >1,000, Deduct	-9.83		
		For 100 PSI, Deduct	-34.17		
33 42 11 00-0089	LF	36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	217.82		47.06
		For >1,000, Deduct	-10.89		
		For 100 PSI, Deduct	-37.82		
33 42 11 00-0090	LF	42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	252.67		51.76
		For >1,000, Deduct	-12.63		
		For 100 PSI, Deduct	-44.86		
33 42 11 00-0091	LF	48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	289.97		57.64
		For >1,000, Deduct	-14.50		
		For 100 PSI, Deduct	-51.91		
33 42 11 00-0092	LF	54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	385.15		75.34
		For >1,000, Deduct	-19.26		
		For 100 PSI, Deduct	-69.38		
33 42 11 00-0093	LF	60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	463.93		87.40
		For >1,000, Deduct	-23.20		
		For 100 PSI, Deduct	-84.77		
33 42 11 00-0094	LF	66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	521.19		96.88
		For >1,000, Deduct	-26.06		
		For 100 PSI, Deduct	-95.86		
33 42 11 00-0095	LF	72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	581.06		105.48
		For >1,000, Deduct	-29.05		
		For 100 PSI, Deduct	-107.59		
33 42 11 00-0096	LF	78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	659.88		118.40
		For >1,000, Deduct	-32.99		
		For 100 PSI, Deduct	-122.59		
33 42 11 00-0097	LF	84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	738.72		131.86
		For >1,000, Deduct	-36.94		
		For 100 PSI, Deduct	-137.59		
33 42 11 00-0098	LF	90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	911.86		153.92
		For >1,000, Deduct	-45.59		
		For 100 PSI, Deduct	-172.80		
33 42 11 00-0099	LF	96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,072.72		175.77
		For >1,000, Deduct	-53.64		
		For 100 PSI, Deduct	-205.40		
33 42 11 00-0100	LF	102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,251.31		191.24
		For >1,000, Deduct	-62.57		
		For 100 PSI, Deduct	-244.53		
33 42 11 00-0101	LF	108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,411.69		203.08
		For >1,000, Deduct	-70.58		
		For 100 PSI, Deduct	-280.39		
33 42 11 00-0102	LF	114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,702.47		214.93
		For >1,000, Deduct	-85.12		
		For 100 PSI, Deduct	-348.86		
33 42 11 00-0103	LF	120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,978.80		225.77
		For >1,000, Deduct	-98.94		
		For 100 PSI, Deduct	-414.07		
33 42 11 00-0104	LF	126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,156.00		236.61
		For >1,000, Deduct	-107.80		
		For 100 PSI, Deduct	-454.50		
33 42 11 00-0105	LF	132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,335.81		247.45
		For >1,000, Deduct	-116.79		
		For 100 PSI, Deduct	-495.58		
33 42 11 00-0106	LF	138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,514.32		258.29
		For >1,000, Deduct	-125.72		
		For 100 PSI, Deduct	-536.33		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0107	LF	144"	150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	2,692.83 -134.64 -577.09	269.14
33 42 11 00-0108 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33					
42 11 00-0081)					
33 42 11 00-0109	EA	12"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	410.85	138.91
33 42 11 00-0110	EA	15"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	569.05	198.45
33 42 11 00-0111	EA	18"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	732.65	264.59
33 42 11 00-0112	EA	21"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	896.24	330.75
33 42 11 00-0113	EA	24"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,088.94	411.01
33 42 11 00-0114	EA	30"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,393.57	551.25
33 42 11 00-0115	EA	36"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,734.60	658.77
33 42 11 00-0116	EA	42"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,020.29	768.88
33 42 11 00-0117	EA	48"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,275.76	878.04
33 42 11 00-0118	EA	54"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,801.15	1,096.38
33 42 11 00-0119	EA	60"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,711.45	1,506.90
33 42 11 00-0120	EA	66"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,139.04	1,668.36
33 42 11 00-0121	EA	72"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,566.63	1,829.81
33 42 11 00-0122	EA	78"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,486.22	2,098.90
33 42 11 00-0123	EA	84"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,399.86	2,367.99
33 42 11 00-0124	EA	90"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,571.11	2,690.90
33 42 11 00-0125	EA	96"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,736.40	3,013.81
33 42 11 00-0126	EA	102"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,679.81	3,844.80
33 42 11 00-0127	EA	108"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,536.22	4,613.76
33 42 11 00-0128	EA	114"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,912.24	6,151.68
33 42 11 00-0129	EA	120"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,215.48	7,689.60
33 42 11 00-0130	EA	126"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	26,149.63	8,293.78
33 42 11 00-0131	EA	132"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,087.85	8,897.97
33 42 11 00-0132	EA	138"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	37,685.99	9,502.15
33 42 11 00-0133	EA	144"	90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	35,023.48	10,106.34
33 42 11 00-0134 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33					
42 11 00-0081)					
33 42 11 00-0135	EA	12"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	384.25	138.91
33 42 11 00-0136	EA	15"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	534.62	198.45
33 42 11 00-0137	EA	18"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	691.96	264.59
33 42 11 00-0138	EA	21"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	849.29	330.75
33 42 11 00-0139	EA	24"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,035.73	411.01
33 42 11 00-0140	EA	30"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,320.54	514.20
33 42 11 00-0141	EA	36"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,651.13	658.77
33 42 11 00-0142	EA	42"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,923.78	768.88
33 42 11 00-0143	EA	48"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,171.95	878.04
33 42 11 00-0144	EA	54"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,651.23	1,096.38
33 42 11 00-0145	EA	60"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,570.94	1,506.90
33 42 11 00-0146	EA	66"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,988.35	1,668.36
33 42 11 00-0147	EA	72"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,405.76	1,829.81
33 42 11 00-0148	EA	78"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,110.71	2,098.90
33 42 11 00-0149	EA	84"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,809.71	2,367.99
33 42 11 00-0150	EA	90"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,826.33	2,690.90
33 42 11 00-0151	EA	96"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,837.00	3,013.81
33 42 11 00-0152	EA	102"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,199.86	3,767.25
33 42 11 00-0153	EA	108"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,785.88	4,613.76
33 42 11 00-0154	EA	114"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,736.06	6,151.68
33 42 11 00-0155	EA	120"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,613.44	7,689.60
33 42 11 00-0156	EA	126"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,974.68	8,293.78
33 42 11 00-0157	EA	132"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,339.99	10,106.34
33 42 11 00-0158	EA	138"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,713.19	9,502.15
33 42 11 00-0159	EA	144"	45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	30,383.39	10,106.34
33 42 11 00-0160 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0080)					
33 42 11 00-0161 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11					
00-0160)					
Note: AWWA C301					
33 42 11 00-0162	LF	30"	400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	230.84 -11.54	41.41
33 42 11 00-0163	LF	36"	400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	281.17 -14.06	47.06
33 42 11 00-0164	LF	42"	400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	327.88 -16.39	51.76
33 42 11 00-0165 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular					
Joints (33 42 11 00-0160)					
Note: AWWA C301					
33 42 11 00-0166	LF	48"	400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	441.04 -22.05	57.60
33 42 11 00-0167	LF	54"	400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	530.15 -26.51	75.34



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0168 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	611.21 -30.56	87.40
33 42 11 00-0169 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	687.96 -34.40	96.88
33 42 11 00-0170 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	832.40 -41.62	105.48
33 42 11 00-0171 Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0160) Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0172 EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,853.73	
33 42 11 00-0173 EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,991.05	
33 42 11 00-0174 EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,059.71	
33 42 11 00-0175 EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,334.33	
33 42 11 00-0176 EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,402.99	
33 42 11 00-0177 EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,540.30	
33 42 11 00-0178 EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,608.96	
33 42 11 00-0179 EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,677.62	
33 42 11 00-0180 EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,432.84	
33 42 11 00-0181 EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,432.84	
33 42 11 00-0182 EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,913.44	
33 42 11 00-0183 EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,913.44	
33 42 11 00-0184 EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,188.07	
33 42 11 00-0185 EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,188.07	
33 42 11 00-0186 EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,531.35	
33 42 11 00-0187 EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,531.35	
33 42 11 00-0188 Quick Test Joints (33 42 11 00-0160)		
33 42 11 00-0189 EA 30" Quick Test Joint.....	504.08	
33 42 11 00-0190 EA 36" Quick Test Joint.....	508.78	
33 42 11 00-0191 EA 42" Quick Test Joint.....	513.49	
33 42 11 00-0192 EA 48" Quick Test Joint.....	524.10	
33 42 11 00-0193 EA 54" Quick Test Joint.....	550.19	
33 42 11 00-0194 EA 60" Quick Test Joint.....	570.79	
33 42 11 00-0195 EA 66" Quick Test Joint.....	601.23	
33 42 11 00-0196 EA 72" Quick Test Joint.....	631.65	
33 42 11 00-0197 Harnessed Joints (33 42 11 00-0160)		
33 42 11 00-0198 Harness Clamp Restrained Joints (33 42 11 00-0197)		
33 42 11 00-0199 EA 30" Harness Clamp Restrained Joint.....	3,015.25	
33 42 11 00-0200 EA 36" Harness Clamp Restrained Joint.....	3,133.03	
33 42 11 00-0201 EA 42" Harness Clamp Restrained Joint.....	3,250.81	
33 42 11 00-0202 EA 48" Harness Clamp Restrained Joint.....	3,368.59	
33 42 11 00-0203 EA 54" Harness Clamp Restrained Joint.....	3,499.89	
33 42 11 00-0204 EA 60" Harness Clamp Restrained Joint.....	3,680.28	
33 42 11 00-0205 EA 66" Harness Clamp Restrained Joint.....	3,804.12	
33 42 11 00-0206 EA 72" Harness Clamp Restrained Joint.....	4,074.95	
33 42 11 00-0207 Snap Ring Restrained Joints (33 42 11 00-0197)		
33 42 11 00-0208 EA 30" Snap Ring Restrained Joint.....	527.59	
33 42 11 00-0209 EA 36" Snap Ring Restrained Joint.....	600.14	
33 42 11 00-0210 EA 42" Snap Ring Restrained Joint.....	797.08	
33 42 11 00-0211 EA 48" Snap Ring Restrained Joint.....	903.54	
33 42 11 00-0212 EA 54" Snap Ring Restrained Joint.....	1,023.54	
33 42 11 00-0213 EA 60" Snap Ring Restrained Joint.....	1,158.69	
33 42 11 00-0214 EA 66" Snap Ring Restrained Joint.....	1,282.54	
33 42 11 00-0215 EA 72" Snap Ring Restrained Joint.....	1,428.98	
33 42 11 00-0216 Pipe Repairs (33 42 11 00-0160) Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.		
33 42 11 00-0217 Lined Cylinder Pipe Repair (33 42 11 00-0216)		
33 42 11 00-0218 EA 30" Lined Cylinder Pipe Repair.....	6,862.91	
33 42 11 00-0219 EA 36" Lined Cylinder Pipe Repair.....	8,521.81	
33 42 11 00-0220 EA 42" Lined Cylinder Pipe Repair.....	8,865.04	
33 42 11 00-0221 Embedded Cylinder Pipe Repair (33 42 11 00-0216) Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0222 EA 48" Embedded Cylinder Pipe Repair.....	13,210.24	
33 42 11 00-0223 EA 54" Embedded Cylinder Pipe Repair.....	15,342.18	
33 42 11 00-0224 EA 60" Embedded Cylinder Pipe Repair.....	17,489.84	
33 42 11 00-0225 EA 66" Embedded Cylinder Pipe Repair.....	19,760.21	
33 42 11 00-0226 EA 72" Embedded Cylinder Pipe Repair.....	23,768.15	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-0227	High Density Polyethylene (HDPE) Drainage Piping (33 42 11)				
33 42 11 00-0228	Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0227)				
	Note: Excludes couplings and gaskets.				
33 42 11 00-0229	Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0228)				
33 42 11 00-0230	LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	13.90		6.21	
	For <100, Add	2.49			
	For >1,000, Deduct	-1.32			
33 42 11 00-0231	LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.21		7.22	
	For <100, Add	2.89			
	For >1,000, Deduct	-1.63			
33 42 11 00-0232	LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.42		8.40	
	For <100, Add	3.36			
	For >1,000, Deduct	-1.96			
33 42 11 00-0233	LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	25.49		8.70	
	For <100, Add	3.48			
	For >1,000, Deduct	-2.14			
33 42 11 00-0234	LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.80		9.01	
	For <100, Add	3.60			
	For >1,000, Deduct	-2.24			
33 42 11 00-0235	LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	30.44		9.32	
	For <100, Add	3.73			
	For >1,000, Deduct	-2.45			
33 42 11 00-0236	LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	36.91		9.67	
	For <100, Add	3.87			
	For >1,000, Deduct	-2.81			
33 42 11 00-0237	LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	50.65		11.32	
	For <100, Add	4.53			
	For >1,000, Deduct	-3.67			
33 42 11 00-0238	LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	71.86		15.24	
	For <100, Add	6.10			
	For >1,000, Deduct	-5.12			
33 42 11 00-0239	LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	94.45		19.27	
	For <100, Add	7.71			
	For >1,000, Deduct	-6.65			
33 42 11 00-0240	Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0228)				
33 42 11 00-0241	LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	26.65		9.01	
	For <100, Add	3.60			
	For >1,000, Deduct	-2.23			
33 42 11 00-0242	LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.06		9.32	
	For <100, Add	3.73			
	For >1,000, Deduct	-2.49			
33 42 11 00-0243	LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	37.84		9.67	
	For <100, Add	3.87			
	For >1,000, Deduct	-2.86			
33 42 11 00-0244	LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	52.12		11.32	
	For <100, Add	4.53			
	For >1,000, Deduct	-3.74			
33 42 11 00-0245	LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	75.89		15.24	
	For <100, Add	6.10			
	For >1,000, Deduct	-5.32			
33 42 11 00-0246	LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	97.45		19.27	
	For <100, Add	7.71			
	For >1,000, Deduct	-6.80			
33 42 11 00-0247	LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	127.10		21.02	
	For <100, Add	8.41			
	For >1,000, Deduct	-8.46			
33 42 11 00-0248	LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	138.58		23.70	
	For <100, Add	9.48			
	For >1,000, Deduct	-9.30			
33 42 11 00-0249	Perforated, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0227)				
	Note: Excludes couplings and gaskets.				
33 42 11 00-0250	Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0249)				
33 42 11 00-0251	LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.68		6.21	
	For <100, Add	2.49			
	For >1,000, Deduct	-1.36			
33 42 11 00-0252	LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.23		7.22	
	For <100, Add	2.89			
	For >1,000, Deduct	-1.63			
33 42 11 00-0253	LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.42		8.40	
	For <100, Add	3.36			
	For >1,000, Deduct	-1.96			



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0254	LF	10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	25.52	8.70
		For <100, Add	3.48	
		For >1,000, Deduct	-2.15	
33 42 11 00-0255	LF	12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.80	9.01
		For <100, Add	3.60	
		For >1,000, Deduct	-2.24	
33 42 11 00-0256	LF	15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	30.47	9.32
		For <100, Add	3.73	
		For >1,000, Deduct	-2.46	
33 42 11 00-0257	LF	18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	36.94	9.67
		For <100, Add	3.87	
		For >1,000, Deduct	-2.81	
33 42 11 00-0258	LF	24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	50.65	11.32
		For <100, Add	4.53	
		For >1,000, Deduct	-3.67	
33 42 11 00-0259	LF	30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	72.11	15.24
		For <100, Add	6.10	
		For >1,000, Deduct	-5.13	
33 42 11 00-0260	LF	36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	94.45	19.27
		For <100, Add	7.71	
		For >1,000, Deduct	-6.65	
33 42 11 00-0261 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0249)				
33 42 11 00-0262	LF	12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	26.67	9.01
		For <100, Add	3.60	
		For >1,000, Deduct	-2.23	
33 42 11 00-0263	LF	15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.09	9.32
		For <100, Add	3.73	
		For >1,000, Deduct	-2.49	
33 42 11 00-0264	LF	18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	37.87	9.67
		For <100, Add	3.87	
		For >1,000, Deduct	-2.86	
33 42 11 00-0265	LF	24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	52.12	11.32
		For <100, Add	4.53	
		For >1,000, Deduct	-3.74	
33 42 11 00-0266	LF	30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	75.89	15.24
		For <100, Add	6.10	
		For >1,000, Deduct	-5.32	
33 42 11 00-0267	LF	36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	97.45	19.27
		For <100, Add	7.71	
		For >1,000, Deduct	-6.80	
33 42 11 00-0268	LF	42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	127.10	21.02
		For <100, Add	8.41	
		For >1,000, Deduct	-8.46	
33 42 11 00-0269	LF	48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	138.58	23.70
		For <100, Add	9.48	
		For >1,000, Deduct	-9.30	
33 42 11 00-0270 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0227)				
Note: Excludes couplings and gaskets.				
33 42 11 00-0271 Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)				
33 42 11 00-0272	EA	4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	60.57	24.58
33 42 11 00-0273	EA	6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	75.48	28.68
33 42 11 00-0274	EA	8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	118.61	34.82
33 42 11 00-0275	EA	10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	178.06	43.02
33 42 11 00-0276	EA	12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	276.21	51.22
33 42 11 00-0277	EA	15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	388.31	66.92
33 42 11 00-0278	EA	18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	556.70	90.13
33 42 11 00-0279	EA	24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	709.77	102.88
33 42 11 00-0280	EA	30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,223.08	118.82
33 42 11 00-0281	EA	36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,566.47	137.25
33 42 11 00-0282	EA	42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,589.44	163.88
33 42 11 00-0283	EA	48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	3,247.03	194.61
33 42 11 00-0284 Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)				
33 42 11 00-0285	EA	4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	85.51	24.58
33 42 11 00-0286	EA	6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	102.86	28.68

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0287 EA 8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	135.89	34.82
33 42 11 00-0288 EA 10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	197.11	43.02
33 42 11 00-0289 EA 12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	337.50	51.22
33 42 11 00-0290 EA 15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	369.50	66.92
33 42 11 00-0291 EA 18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	520.13	90.13
33 42 11 00-0292 22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		
33 42 11 00-0293 EA 4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	37.25	16.39
33 42 11 00-0294 EA 6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	45.65	19.12
33 42 11 00-0295 EA 8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	65.24	23.22
33 42 11 00-0296 EA 10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	81.95	28.68
33 42 11 00-0297 EA 12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	116.73	34.14
33 42 11 00-0298 EA 15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	181.44	43.70
33 42 11 00-0299 EA 18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	241.10	60.09
33 42 11 00-0300 EA 24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	444.25	68.28
33 42 11 00-0301 EA 30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	612.73	79.20
33 42 11 00-0302 EA 36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	717.65	91.50
33 42 11 00-0303 EA 42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	914.91	109.25
33 42 11 00-0304 EA 48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,231.61	129.73
33 42 11 00-0305 45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		
33 42 11 00-0306 EA 4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	39.98	16.39
33 42 11 00-0307 EA 6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	51.34	19.12
33 42 11 00-0308 EA 8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	68.14	23.22
33 42 11 00-0309 EA 10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	105.57	28.68
33 42 11 00-0310 EA 12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	116.73	34.14
33 42 11 00-0311 EA 15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	180.97	43.70
33 42 11 00-0312 EA 18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	279.18	60.09
33 42 11 00-0313 EA 24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	473.67	68.28
33 42 11 00-0314 EA 30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	614.13	79.20
33 42 11 00-0315 EA 36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	781.06	91.50
33 42 11 00-0316 EA 42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,159.64	109.25
33 42 11 00-0317 EA 48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,450.96	129.73
33 42 11 00-0318 Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0227)		
Note: For single and double wall high density polyethylene (HDPE) piping.		
33 42 11 00-0319 Couplings, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)		
33 42 11 00-0320 EA 4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	1.63	
33 42 11 00-0321 EA 6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	2.92	
33 42 11 00-0322 EA 8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	4.50	
33 42 11 00-0323 EA 10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.53	
33 42 11 00-0324 EA 12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.95	
33 42 11 00-0325 EA 15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	8.47	
33 42 11 00-0326 EA 18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	12.52	
33 42 11 00-0327 EA 24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	19.94	
33 42 11 00-0328 EA 30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	30.61	
33 42 11 00-0329 EA 36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	40.06	
33 42 11 00-0330 EA 42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	62.97	
33 42 11 00-0331 EA 48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	85.17	
33 42 11 00-0332 Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)		
33 42 11 00-0333 EA 4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	86.24	
33 42 11 00-0334 EA 6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	90.29	
33 42 11 00-0335 EA 8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	94.54	
33 42 11 00-0336 EA 10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	98.99	
33 42 11 00-0337 EA 12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	117.41	
33 42 11 00-0338 EA 15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	121.22	
33 42 11 00-0339 EA 18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	126.43	
33 42 11 00-0340 EA 24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	144.01	
33 42 11 00-0341 EA 30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	230.86	
33 42 11 00-0342 EA 36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	252.86	
33 42 11 00-0343 EA 42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	275.52	
33 42 11 00-0344 EA 48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	334.62	
33 42 11 00-0345 End Caps, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)		
33 42 11 00-0346 EA 6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	28.85	
33 42 11 00-0347 EA 8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	33.68	
33 42 11 00-0348 EA 10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	53.47	
33 42 11 00-0349 EA 12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	89.67	
33 42 11 00-0350 EA 15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	104.14	



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		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0351	EA		18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	140.15	
33 42 11 00-0352	EA		24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	145.50	
33 42 11 00-0353			Vitrified Clay Piping (33 42 11)		
33 42 11 00-0354			Extra Strength Vitrified Clay Piping (33 42 11 00-0353)		
33 42 11 00-0355			Plain Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0354) Note: ASTM C700.		
33 42 11 00-0356	LF		4" Plain Joint, Extra Strength, Vitrified Clay Pipe	20.39	
			For 3' Lengths, Add	1.64	
			For 2' Lengths, Add	2.18	
			For Standard Strength, Deduct	-0.55	
			For >1,000, Deduct	-1.02	
33 42 11 00-0357	LF		6" Plain Joint, Extra Strength, Vitrified Clay Pipe	33.93	
			For 3' Lengths, Add	2.54	
			For 2' Lengths, Add	3.39	
			For Standard Strength, Deduct	-0.85	
			For >1,000, Deduct	-1.70	
33 42 11 00-0358	LF		8" Plain Joint, Extra Strength, Vitrified Clay Pipe	40.39	
			For 3' Lengths, Add	3.64	
			For 2' Lengths, Add	4.85	
			For Standard Strength, Deduct	-1.21	
			For >1,000, Deduct	-2.02	
33 42 11 00-0359	LF		10" Plain Joint, Extra Strength, Vitrified Clay Pipe	48.47	
			For 3' Lengths, Add	5.57	
			For 2' Lengths, Add	7.42	
			For Standard Strength, Deduct	-1.86	
			For >1,000, Deduct	-2.42	
33 42 11 00-0360	LF		12" Plain Joint, Extra Strength, Vitrified Clay Pipe	58.84	
			For 3' Lengths, Add	7.86	
			For 2' Lengths, Add	10.48	
			For Standard Strength, Deduct	-2.62	
			For >1,000, Deduct	-2.94	
33 42 11 00-0361	LF		15" Plain Joint, Extra Strength, Vitrified Clay Pipe	85.45	
			For 3' Lengths, Add	14.74	
			For 2' Lengths, Add	19.66	
			For Standard Strength, Deduct	-4.91	
			For >1,000, Deduct	-4.27	
33 42 11 00-0362	LF		18" Plain Joint, Extra Strength, Vitrified Clay Pipe	115.72	
			For 3' Lengths, Add	21.13	
			For 2' Lengths, Add	28.18	
			For Standard Strength, Deduct	-7.04	
			For >1,000, Deduct	-5.79	
33 42 11 00-0363	LF		21" Plain Joint, Extra Strength, Vitrified Clay Pipe	169.95	
			For 3' Lengths, Add	33.85	
			For 2' Lengths, Add	45.14	
			For Standard Strength, Deduct	-11.28	
			For >1,000, Deduct	-8.50	
33 42 11 00-0364	LF		24" Plain Joint, Extra Strength, Vitrified Clay Pipe	216.78	
			For 3' Lengths, Add	44.23	
			For 2' Lengths, Add	58.97	
			For Standard Strength, Deduct	-14.74	
			For >1,000, Deduct	-10.84	
33 42 11 00-0365	LF		30" Plain Joint, Extra Strength, Vitrified Clay Pipe	268.03	
			For 3' Lengths, Add	55.15	
			For 2' Lengths, Add	73.53	
			For Standard Strength, Deduct	-18.38	
			For >1,000, Deduct	-13.40	
33 42 11 00-0366	LF		36" Plain Joint, Extra Strength, Vitrified Clay Pipe	324.30	
			For 3' Lengths, Add	66.62	
			For 2' Lengths, Add	88.82	
			For Standard Strength, Deduct	-22.21	
			For >1,000, Deduct	-16.22	
33 42 11 00-0367			Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0354) Note: ASTM C425.		
33 42 11 00-0368	LF		4" Compression Joint, Extra Strength, Vitrified Clay Pipe	29.06	
			For 3' Lengths, Add	1.93	
			For 2' Lengths, Add	2.58	
			For Standard Strength, Deduct	-0.64	
			For >1,000, Deduct	-1.45	
33 42 11 00-0369	LF		6" Compression Joint, Extra Strength, Vitrified Clay Pipe	35.97	
			For 3' Lengths, Add	3.16	
			For 2' Lengths, Add	4.21	
			For Standard Strength, Deduct	-1.05	
			For >1,000, Deduct	-1.80	
33 42 11 00-0370	LF		8" Compression Joint, Extra Strength, Vitrified Clay Pipe	43.12	
			For 3' Lengths, Add	4.46	
			For 2' Lengths, Add	5.94	
			For Standard Strength, Deduct	-1.49	
			For >1,000, Deduct	-2.16	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0371 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	54.30	
For 3' Lengths, Add	7.32	
For 2' Lengths, Add	9.76	
For Standard Strength, Deduct	-2.44	
For >1,000, Deduct	-2.72	
33 42 11 00-0372 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	64.66	
For 3' Lengths, Add	9.61	
For 2' Lengths, Add	12.81	
For Standard Strength, Deduct	-3.20	
For >1,000, Deduct	-3.23	
33 42 11 00-0373 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	94.73	
For 3' Lengths, Add	17.53	
For 2' Lengths, Add	23.37	
For Standard Strength, Deduct	-5.84	
For >1,000, Deduct	-4.74	
33 42 11 00-0374 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	130.82	
For 3' Lengths, Add	25.66	
For 2' Lengths, Add	34.22	
For Standard Strength, Deduct	-8.55	
For >1,000, Deduct	-6.54	
33 42 11 00-0375 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	187.25	
For 3' Lengths, Add	39.04	
For 2' Lengths, Add	52.06	
For Standard Strength, Deduct	-13.01	
For >1,000, Deduct	-9.36	
33 42 11 00-0376 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	244.08	
For 3' Lengths, Add	52.42	
For 2' Lengths, Add	69.89	
For Standard Strength, Deduct	-17.47	
For >1,000, Deduct	-12.20	
33 42 11 00-0377 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	388.15	
For 3' Lengths, Add	91.19	
For 2' Lengths, Add	121.58	
For Standard Strength, Deduct	-30.40	
For >1,000, Deduct	-19.41	
33 42 11 00-0378 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	549.99	
For 3' Lengths, Add	134.32	
For 2' Lengths, Add	179.10	
For Standard Strength, Deduct	-44.77	
For >1,000, Deduct	-27.50	
33 42 11 00-0379 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0353)		
33 42 11 00-0380 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0381 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0380)		
33 42 11 00-0382 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	83.76	
33 42 11 00-0383 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	112.53	
33 42 11 00-0384 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	159.60	
33 42 11 00-0385 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	218.75	
33 42 11 00-0386 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	287.64	
33 42 11 00-0387 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	676.83	
33 42 11 00-0388 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	953.17	
33 42 11 00-0389 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,483.90	
33 42 11 00-0390 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,713.48	
33 42 11 00-0391 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,991.20	
33 42 11 00-0392 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,979.01	
33 42 11 00-0393 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0380)		
33 42 11 00-0394 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	94.97	
33 42 11 00-0395 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	134.00	
33 42 11 00-0396 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	180.46	
33 42 11 00-0397 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	241.34	
33 42 11 00-0398 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	305.12	
33 42 11 00-0399 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	759.96	
33 42 11 00-0400 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,103.38	
33 42 11 00-0401 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,137.44	
33 42 11 00-0402 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,192.95	
33 42 11 00-0403 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,445.00	
33 42 11 00-0404 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	3,621.45	
33 42 11 00-0405 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0406 Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0405)		
33 42 11 00-0407 EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	98.69	
33 42 11 00-0408 EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	130.51	
33 42 11 00-0409 EA 8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	180.64	
33 42 11 00-0410 EA 10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	241.92	
33 42 11 00-0411 EA 12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	313.75	
33 42 11 00-0412 EA 15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	705.86	
33 42 11 00-0413 EA 18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	989.40	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0414 EA 21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,529.58	
33 42 11 00-0415 EA 24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,768.95	
33 42 11 00-0416 EA 30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,060.38	
33 42 11 00-0417 EA 36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	3,055.91	
33 42 11 00-0418 Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0405)		
33 42 11 00-0419 EA 4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	112.88	
33 42 11 00-0420 EA 6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	155.58	
33 42 11 00-0421 EA 8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	205.71	
33 42 11 00-0422 EA 10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	269.14	
33 42 11 00-0423 EA 12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	336.46	
33 42 11 00-0424 EA 15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	794.81	
33 42 11 00-0425 EA 18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,146.84	
33 42 11 00-0426 EA 21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,212.53	
33 42 11 00-0427 EA 24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,259.52	
33 42 11 00-0428 EA 30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,528.01	
33 42 11 00-0429 EA 36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	3,713.73	
33 42 11 00-0430 Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0431 Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0430)		
33 42 11 00-0432 EA 4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	109.28	
33 42 11 00-0433 EA 6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	141.97	
33 42 11 00-0434 EA 8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	191.34	
33 42 11 00-0435 EA 10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	252.24	
33 42 11 00-0436 EA 12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	317.18	
33 42 11 00-0437 EA 15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	715.95	
33 42 11 00-0438 EA 18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	999.52	
33 42 11 00-0439 EA 21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,440.58	
33 42 11 00-0440 EA 24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,000.34	
33 42 11 00-0441 EA 30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,122.71	
33 42 11 00-0442 EA 36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	3,040.76	
33 42 11 00-0443 Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0430)		
33 42 11 00-0444 EA 4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	133.37	
33 42 11 00-0445 EA 6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	181.49	
33 42 11 00-0446 EA 8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	237.51	
33 42 11 00-0447 EA 10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	306.82	
33 42 11 00-0448 EA 12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	380.98	
33 42 11 00-0449 EA 15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	870.62	
33 42 11 00-0450 EA 18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,251.11	
33 42 11 00-0451 EA 21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,852.21	
33 42 11 00-0452 EA 24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,450.66	
33 42 11 00-0453 EA 30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,838.01	
33 42 11 00-0454 EA 36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	4,015.05	
33 42 11 00-0455 Vitrified Clay Couplings (33 42 11 00-0353)		
33 42 11 00-0456 Vitrified Clay To Cast Iron Or Plastic Pipe Couplings (33 42 11 00-0455)		
Note: Stainless steel tightening band at each end (Fernco #1002)		
33 42 11 00-0457 EA 4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	45.88	
33 42 11 00-0458 EA 4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	45.42	
33 42 11 00-0459 EA 5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	63.17	
33 42 11 00-0460 EA 5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	59.45	
33 42 11 00-0461 EA 6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	77.54	
33 42 11 00-0462 EA 6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	80.77	
33 42 11 00-0463 EA 6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	73.63	
33 42 11 00-0464 EA 8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	107.37	
33 42 11 00-0465 EA 8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	99.21	
33 42 11 00-0466 EA 10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	140.94	
33 42 11 00-0467 EA 10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	128.34	
33 42 11 00-0468 EA 12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	175.48	
33 42 11 00-0469 EA 12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	146.52	
33 42 11 00-0470 EA 15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	297.80	
33 42 11 00-0471 EA 15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	228.78	
33 42 11 00-0472 Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings (33 42 11 00-0455)		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0473 EA 4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	67.25	
33 42 11 00-0474 EA 6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	88.41	
33 42 11 00-0475 EA 6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	93.00	
33 42 11 00-0476 EA 8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	97.51	
33 42 11 00-0477 EA 10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	118.91	
33 42 11 00-0478 EA 12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	137.07	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0479		Vitrified Clay To Plastic Pipe Non-Shear Couplings (33 42 11 00-0455)		
		Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0480	EA	4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	68.78	
33 42 11 00-0481	EA	6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	89.95	
33 42 11 00-0482	EA	6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	83.12	
33 42 11 00-0483	EA	8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	106.70	
33 42 11 00-0484	EA	10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	151.09	
33 42 11 00-0485	EA	12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	170.11	
33 42 11 00-0486		Corrugated Metal Piping (33 42 11)		
33 42 11 00-0487		Galvanized Corrugated Steel Piping (33 42 11 00-0486)		
33 42 11 00-0488		2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0489		16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0488)		
33 42 11 00-0490	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	32.64	9.26
		For Bituminous Coated Pipe, Add	3.24	
		For Bituminous Coated And 25% Paved, Add	6.63	
		For Smooth-Flo, Add	11.85	
33 42 11 00-0491	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	36.80	9.71
		For Bituminous Coated Pipe, Add	4.08	
		For Bituminous Coated And 25% Paved, Add	8.35	
		For Smooth-Flo, Add	14.91	
33 42 11 00-0492	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	41.09	10.59
		For Bituminous Coated Pipe, Add	4.94	
		For Bituminous Coated And 25% Paved, Add	10.11	
		For Smooth-Flo, Add	18.06	
33 42 11 00-0493	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	46.73	11.47
		For Bituminous Coated Pipe, Add	5.91	
		For Bituminous Coated And 25% Paved, Add	12.10	
		For Smooth-Flo, Add	21.60	
33 42 11 00-0494	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	51.70	12.35
		For Bituminous Coated Pipe, Add	6.66	
		For Bituminous Coated And 25% Paved, Add	13.61	
		For Smooth-Flo, Add	24.31	
33 42 11 00-0495	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	68.24	15.87
		For Bituminous Coated Pipe, Add	8.63	
		For Bituminous Coated And 25% Paved, Add	17.66	
		For Smooth-Flo, Add	31.54	
33 42 11 00-0496	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	88.93	20.71
		For Bituminous Coated Pipe, Add	10.89	
		For Bituminous Coated And 25% Paved, Add	22.28	
		For Smooth-Flo, Add	39.79	
33 42 11 00-0497	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	101.16	24.47
		For Bituminous Coated Pipe, Add	12.89	
		For Bituminous Coated And 25% Paved, Add	26.36	
		For Smooth-Flo, Add	47.07	
33 42 11 00-0498	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	113.70	28.23
		For Bituminous Coated Pipe, Add	14.44	
		For Bituminous Coated And 25% Paved, Add	29.53	
		For Smooth-Flo, Add	52.73	
33 42 11 00-0499		14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0489)		
33 42 11 00-0500	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	35.53	9.26
		For Bituminous Coated Pipe, Add	3.29	
		For Bituminous Coated And 25% Paved, Add	7.62	
		For Smooth-Flo, Add	15.41	
33 42 11 00-0501	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	40.36	9.71
		For Bituminous Coated Pipe, Add	4.13	
		For Bituminous Coated And 25% Paved, Add	9.56	
		For Smooth-Flo, Add	19.33	
33 42 11 00-0502	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	45.40	10.59
		For Bituminous Coated Pipe, Add	5.00	
		For Bituminous Coated And 25% Paved, Add	11.58	
		For Smooth-Flo, Add	23.40	
33 42 11 00-0503	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	51.71	11.47
		For Bituminous Coated Pipe, Add	5.94	
		For Bituminous Coated And 25% Paved, Add	13.77	
		For Smooth-Flo, Add	27.83	
33 42 11 00-0504	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.49	12.35
		For Bituminous Coated Pipe, Add	6.72	
		For Bituminous Coated And 25% Paved, Add	15.58	
		For Smooth-Flo, Add	31.49	
33 42 11 00-0505	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	75.31	15.87
		For Bituminous Coated Pipe, Add	8.64	
		For Bituminous Coated And 25% Paved, Add	20.01	
		For Smooth-Flo, Add	40.44	
33 42 11 00-0506	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	97.51	20.71
		For Bituminous Coated Pipe, Add	10.83	
		For Bituminous Coated And 25% Paved, Add	25.08	
		For Smooth-Flo, Add	50.70	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0507	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	110.99 12.74 29.52 59.67	24.47
33 42 11 00-0508	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	124.94 14.32 33.18 67.06	28.23
33 42 11 00-0509	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	149.19 17.61 40.80 82.48	32.00
33 42 11 00-0510		12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³ 42 11 00-0488)		
33 42 11 00-0511	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	54.32 5.72 10.33 19.86	10.59
33 42 11 00-0512	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	62.08 6.76 12.22 23.48	11.47
33 42 11 00-0513	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	69.31 7.67 13.85 26.61	11.47
33 42 11 00-0514	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	89.92 9.75 17.61 33.84	15.87
33 42 11 00-0515	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	114.85 12.06 21.78 41.85	20.71
33 42 11 00-0516	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	131.02 14.13 25.51 49.03	24.47
33 42 11 00-0517	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	147.90 15.95 28.81 55.37	28.23
33 42 11 00-0518	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	174.54 19.13 34.55 66.40	32.00
33 42 11 00-0519	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	190.80 20.95 37.83 72.71	33.88
33 42 11 00-0520	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	231.12 25.51 46.06 88.52	41.41
33 42 11 00-0521		10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³ 42 11 00-0488)		
33 42 11 00-0522	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	131.07 15.34 25.62 36.56	20.71
33 42 11 00-0523	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	150.01 17.97 30.02 42.83	24.47
33 42 11 00-0524	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	169.45 20.31 33.93 48.41	28.23
33 42 11 00-0525	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	198.67 24.05 40.18 57.33	32.00
33 42 11 00-0526	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	217.66 26.42 44.13 62.97	33.88
33 42 11 00-0527	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	260.64 31.60 52.79 75.33	41.41

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0528 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	312.57	60.23
For Bituminous Coated Pipe, Add	33.93	
For Bituminous Coated And 25% Paved, Add	56.68	
For Smooth-Flo, Add	80.88	
33 42 11 00-0529 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0530 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0529)		
33 42 11 00-0531 LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	103.81	20.71
For Bituminous Coated Pipe, Add	11.98	
For Bituminous Coated And 25% Paved, Add	27.19	
For Smooth-Flo, Add	54.14	
33 42 11 00-0532 LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	118.23	24.47
For Bituminous Coated Pipe, Add	14.06	
For Bituminous Coated And 25% Paved, Add	31.93	
For Smooth-Flo, Add	63.57	
33 42 11 00-0533 LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	132.92	28.23
For Bituminous Coated Pipe, Add	15.77	
For Bituminous Coated And 25% Paved, Add	35.81	
For Smooth-Flo, Add	71.30	
33 42 11 00-0534 LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	158.34	32.00
For Bituminous Coated Pipe, Add	19.27	
For Bituminous Coated And 25% Paved, Add	43.74	
For Smooth-Flo, Add	87.09	
33 42 11 00-0535 LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	172.52	33.88
For Bituminous Coated Pipe, Add	20.99	
For Bituminous Coated And 25% Paved, Add	47.65	
For Smooth-Flo, Add	94.88	
33 42 11 00-0536 LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	215.90	41.41
For Bituminous Coated Pipe, Add	26.96	
For Bituminous Coated And 25% Paved, Add	61.21	
For Smooth-Flo, Add	121.88	
33 42 11 00-0537 LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	263.49	60.23
For Bituminous Coated Pipe, Add	28.74	
For Bituminous Coated And 25% Paved, Add	65.24	
For Smooth-Flo, Add	129.91	
33 42 11 00-0538 LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	284.39	65.87
For Bituminous Coated Pipe, Add	30.53	
For Bituminous Coated And 25% Paved, Add	69.29	
For Smooth-Flo, Add	137.98	
33 42 11 00-0539 LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	302.71	70.59
For Bituminous Coated Pipe, Add	32.31	
For Bituminous Coated And 25% Paved, Add	73.34	
For Smooth-Flo, Add	146.04	
33 42 11 00-0540 LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	321.07	75.29
For Bituminous Coated Pipe, Add	34.10	
For Bituminous Coated And 25% Paved, Add	77.41	
For Smooth-Flo, Add	154.13	
33 42 11 00-0541 LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	340.06	79.99
For Bituminous Coated Pipe, Add	35.88	
For Bituminous Coated And 25% Paved, Add	81.44	
For Smooth-Flo, Add	162.17	
33 42 11 00-0542 LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	361.74	84.70
For Bituminous Coated Pipe, Add	37.68	
For Bituminous Coated And 25% Paved, Add	85.52	
For Smooth-Flo, Add	170.30	
33 42 11 00-0543 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0529)		
33 42 11 00-0544 LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	173.53	32.00
For Bituminous Coated Pipe, Add	22.31	
For Bituminous Coated And 25% Paved, Add	43.72	
For Smooth-Flo, Add	88.33	
33 42 11 00-0545 LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	189.32	33.88
For Bituminous Coated Pipe, Add	24.35	
For Bituminous Coated And 25% Paved, Add	47.73	
For Smooth-Flo, Add	96.43	
33 42 11 00-0546 LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	234.38	41.41
For Bituminous Coated Pipe, Add	30.66	
For Bituminous Coated And 25% Paved, Add	60.09	
For Smooth-Flo, Add	121.41	
33 42 11 00-0547 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	283.62	60.23
For Bituminous Coated Pipe, Add	32.77	
For Bituminous Coated And 25% Paved, Add	64.23	
For Smooth-Flo, Add	129.76	
33 42 11 00-0548 LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	306.13	65.87
For Bituminous Coated Pipe, Add	34.87	
For Bituminous Coated And 25% Paved, Add	68.35	
For Smooth-Flo, Add	138.10	
33 42 11 00-0549 LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	326.17	70.59
For Bituminous Coated Pipe, Add	37.00	
For Bituminous Coated And 25% Paved, Add	72.52	
For Smooth-Flo, Add	146.53	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0550 LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	346.12	75.29
For Bituminous Coated Pipe, Add	39.11	
For Bituminous Coated And 25% Paved, Add	76.66	
For Smooth-Flo, Add	154.88	
33 42 11 00-0551 LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	366.75	79.99
For Bituminous Coated Pipe, Add	41.22	
For Bituminous Coated And 25% Paved, Add	80.78	
For Smooth-Flo, Add	163.22	
33 42 11 00-0552 LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	390.05	84.70
For Bituminous Coated Pipe, Add	43.34	
For Bituminous Coated And 25% Paved, Add	84.94	
For Smooth-Flo, Add	171.62	
33 42 11 00-0553 LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	415.51	94.11
For Bituminous Coated Pipe, Add	45.46	
For Bituminous Coated And 25% Paved, Add	89.10	
For Smooth-Flo, Add	180.01	
33 42 11 00-0554 LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	440.38	103.52
For Bituminous Coated Pipe, Add	47.54	
For Bituminous Coated And 25% Paved, Add	93.17	
For Smooth-Flo, Add	188.25	
33 42 11 00-0555 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0529)		
33 42 11 00-0556 LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	226.58	33.88
For Bituminous Coated Pipe, Add	31.80	
For Bituminous Coated And 25% Paved, Add	60.59	
For Smooth-Flo, Add	98.75	
33 42 11 00-0557 LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	275.65	41.41
For Bituminous Coated Pipe, Add	38.91	
For Bituminous Coated And 25% Paved, Add	74.13	
For Smooth-Flo, Add	120.83	
33 42 11 00-0558 LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	328.49	60.23
For Bituminous Coated Pipe, Add	41.74	
For Bituminous Coated And 25% Paved, Add	79.52	
For Smooth-Flo, Add	129.61	
33 42 11 00-0559 LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	354.64	65.87
For Bituminous Coated Pipe, Add	44.58	
For Bituminous Coated And 25% Paved, Add	84.92	
For Smooth-Flo, Add	138.41	
33 42 11 00-0560 LF 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	378.28	70.59
For Bituminous Coated Pipe, Add	47.42	
For Bituminous Coated And 25% Paved, Add	90.34	
For Smooth-Flo, Add	147.25	
33 42 11 00-0561 LF 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	401.86	75.29
For Bituminous Coated Pipe, Add	50.26	
For Bituminous Coated And 25% Paved, Add	95.74	
For Smooth-Flo, Add	156.05	
33 42 11 00-0562 LF 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	426.17	79.99
For Bituminous Coated Pipe, Add	53.10	
For Bituminous Coated And 25% Paved, Add	101.16	
For Smooth-Flo, Add	164.88	
33 42 11 00-0563 LF 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	453.10	84.70
For Bituminous Coated Pipe, Add	55.95	
For Bituminous Coated And 25% Paved, Add	106.58	
For Smooth-Flo, Add	173.72	
33 42 11 00-0564 LF 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	482.13	94.11
For Bituminous Coated Pipe, Add	58.78	
For Bituminous Coated And 25% Paved, Add	111.98	
For Smooth-Flo, Add	182.52	
33 42 11 00-0565 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	510.67	103.52
For Bituminous Coated Pipe, Add	61.60	
For Bituminous Coated And 25% Paved, Add	117.34	
For Smooth-Flo, Add	191.26	
33 42 11 00-0566 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	538.21	112.93
For Bituminous Coated Pipe, Add	64.44	
For Bituminous Coated And 25% Paved, Add	122.77	
For Smooth-Flo, Add	200.10	
33 42 11 00-0567 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0529)		
33 42 11 00-0568 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	370.33	60.23
For Bituminous Coated Pipe, Add	50.11	
For Bituminous Coated And 25% Paved, Add	95.21	
For Smooth-Flo, Add	127.28	
33 42 11 00-0569 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	399.92	65.87
For Bituminous Coated Pipe, Add	53.63	
For Bituminous Coated And 25% Paved, Add	101.90	
For Smooth-Flo, Add	136.23	
33 42 11 00-0570 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	426.99	70.59
For Bituminous Coated Pipe, Add	57.17	
For Bituminous Coated And 25% Paved, Add	108.62	
For Smooth-Flo, Add	145.20	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0571 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	454.01	75.29
For Bituminous Coated Pipe, Add	60.69	
For Bituminous Coated And 25% Paved, Add	115.31	
For Smooth-Flo, Add	154.15	
33 42 11 00-0572 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	481.75	79.99
For Bituminous Coated Pipe, Add	64.22	
For Bituminous Coated And 25% Paved, Add	122.01	
For Smooth-Flo, Add	163.11	
33 42 11 00-0573 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	512.11	84.70
For Bituminous Coated Pipe, Add	67.75	
For Bituminous Coated And 25% Paved, Add	128.73	
For Smooth-Flo, Add	172.09	
33 42 11 00-0574 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	544.58	94.11
For Bituminous Coated Pipe, Add	71.27	
For Bituminous Coated And 25% Paved, Add	135.42	
For Smooth-Flo, Add	181.03	
33 42 11 00-0575 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	576.52	103.52
For Bituminous Coated Pipe, Add	74.77	
For Bituminous Coated And 25% Paved, Add	142.06	
For Smooth-Flo, Add	189.91	
33 42 11 00-0576 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	607.52	112.93
For Bituminous Coated Pipe, Add	78.31	
For Bituminous Coated And 25% Paved, Add	148.78	
For Smooth-Flo, Add	198.90	
33 42 11 00-0577 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	640.22	122.34
For Bituminous Coated Pipe, Add	81.81	
For Bituminous Coated And 25% Paved, Add	155.45	
For Smooth-Flo, Add	207.81	
33 42 11 00-0578 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	675.34	131.76
For Bituminous Coated Pipe, Add	85.35	
For Bituminous Coated And 25% Paved, Add	162.17	
For Smooth-Flo, Add	216.79	
33 42 11 00-0579 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	713.33	141.16
For Bituminous Coated Pipe, Add	88.89	
For Bituminous Coated And 25% Paved, Add	168.89	
For Smooth-Flo, Add	225.78	
33 42 11 00-0580 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0581 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0580)		
33 42 11 00-0582 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	133.36	28.23
For Bituminous Coated Pipe, Add	19.83	
For Bituminous Coated And 25% Paved, Add	45.21	
For Smooth-Flo, Add	71.78	
33 42 11 00-0583 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	159.19	32.00
For Bituminous Coated Pipe, Add	24.30	
For Bituminous Coated And 25% Paved, Add	55.40	
For Smooth-Flo, Add	87.96	
33 42 11 00-0584 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	173.26	33.88
For Bituminous Coated Pipe, Add	26.43	
For Bituminous Coated And 25% Paved, Add	60.25	
For Smooth-Flo, Add	95.66	
33 42 11 00-0585 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	214.15	41.41
For Bituminous Coated Pipe, Add	33.27	
For Bituminous Coated And 25% Paved, Add	75.85	
For Smooth-Flo, Add	120.43	
33 42 11 00-0586 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	261.53	60.23
For Bituminous Coated Pipe, Add	35.44	
For Bituminous Coated And 25% Paved, Add	80.80	
For Smooth-Flo, Add	128.28	
33 42 11 00-0587 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	282.17	65.87
For Bituminous Coated Pipe, Add	37.60	
For Bituminous Coated And 25% Paved, Add	85.73	
For Smooth-Flo, Add	136.12	
33 42 11 00-0588 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	300.18	70.59
For Bituminous Coated Pipe, Add	39.76	
For Bituminous Coated And 25% Paved, Add	90.64	
For Smooth-Flo, Add	143.91	
33 42 11 00-0589 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	318.18	75.29
For Bituminous Coated Pipe, Add	41.90	
For Bituminous Coated And 25% Paved, Add	95.54	
For Smooth-Flo, Add	151.69	
33 42 11 00-0590 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	337.00	79.99
For Bituminous Coated Pipe, Add	44.08	
For Bituminous Coated And 25% Paved, Add	100.51	
For Smooth-Flo, Add	159.58	
33 42 11 00-0591 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	358.61	84.70
For Bituminous Coated Pipe, Add	46.31	
For Bituminous Coated And 25% Paved, Add	105.59	
For Smooth-Flo, Add	167.65	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-0592 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel					
Piping (33 42 11 00-0580)					
33 42 11 00-0593	LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	178.17		32.00	
	For Bituminous Coated Pipe, Add	23.23			
	For Bituminous Coated And 25% Paved, Add	54.60			
	For Smooth-Flo, Add	98.86			
33 42 11 00-0594	LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	194.37		33.88	
	For Bituminous Coated Pipe, Add	25.36			
	For Bituminous Coated And 25% Paved, Add	59.60			
	For Smooth-Flo, Add	107.92			
33 42 11 00-0595	LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	237.18		41.41	
	For Bituminous Coated Pipe, Add	31.22			
	For Bituminous Coated And 25% Paved, Add	73.37			
	For Smooth-Flo, Add	132.84			
33 42 11 00-0596	LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	286.41		60.23	
	For Bituminous Coated Pipe, Add	33.33			
	For Bituminous Coated And 25% Paved, Add	78.32			
	For Smooth-Flo, Add	141.80			
33 42 11 00-0597	LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	309.30		65.87	
	For Bituminous Coated Pipe, Add	35.51			
	For Bituminous Coated And 25% Paved, Add	83.44			
	For Smooth-Flo, Add	151.09			
33 42 11 00-0598	LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	329.44		70.59	
	For Bituminous Coated Pipe, Add	37.66			
	For Bituminous Coated And 25% Paved, Add	88.49			
	For Smooth-Flo, Add	160.23			
33 42 11 00-0599	LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	348.47		75.29	
	For Bituminous Coated Pipe, Add	39.58			
	For Bituminous Coated And 25% Paved, Add	93.01			
	For Smooth-Flo, Add	168.41			
33 42 11 00-0600	LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	370.36		79.99	
	For Bituminous Coated Pipe, Add	41.94			
	For Bituminous Coated And 25% Paved, Add	98.55			
	For Smooth-Flo, Add	178.45			
33 42 11 00-0601	LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	393.75		84.70	
	For Bituminous Coated Pipe, Add	44.08			
	For Bituminous Coated And 25% Paved, Add	103.58			
	For Smooth-Flo, Add	187.55			
33 42 11 00-0602	LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	419.22		94.11	
	For Bituminous Coated Pipe, Add	46.20			
	For Bituminous Coated And 25% Paved, Add	108.57			
	For Smooth-Flo, Add	196.58			
33 42 11 00-0603	LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	444.56		103.52	
	For Bituminous Coated Pipe, Add	48.37			
	For Bituminous Coated And 25% Paved, Add	113.68			
	For Smooth-Flo, Add	205.83			
33 42 11 00-0604 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel					
Piping (33 42 11 00-0580)					
33 42 11 00-0605	LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	233.89		33.88	
	For Bituminous Coated Pipe, Add	33.27			
	For Bituminous Coated And 25% Paved, Add	63.21			
	For Smooth-Flo, Add	114.10			
33 42 11 00-0606	LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	280.70		41.41	
	For Bituminous Coated Pipe, Add	39.92			
	For Bituminous Coated And 25% Paved, Add	75.86			
	For Smooth-Flo, Add	136.94			
33 42 11 00-0607	LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	334.08		60.23	
	For Bituminous Coated Pipe, Add	42.86			
	For Bituminous Coated And 25% Paved, Add	81.43			
	For Smooth-Flo, Add	147.01			
33 42 11 00-0608	LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	360.63		65.87	
	For Bituminous Coated Pipe, Add	45.77			
	For Bituminous Coated And 25% Paved, Add	86.97			
	For Smooth-Flo, Add	157.00			
33 42 11 00-0609	LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	384.48		70.59	
	For Bituminous Coated Pipe, Add	48.66			
	For Bituminous Coated And 25% Paved, Add	92.46			
	For Smooth-Flo, Add	166.92			
33 42 11 00-0610	LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	408.53		75.29	
	For Bituminous Coated Pipe, Add	51.59			
	For Bituminous Coated And 25% Paved, Add	98.02			
	For Smooth-Flo, Add	176.96			
33 42 11 00-0611	LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	433.17		79.99	
	For Bituminous Coated Pipe, Add	54.50			
	For Bituminous Coated And 25% Paved, Add	103.55			
	For Smooth-Flo, Add	186.94			
33 42 11 00-0612	LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	460.37		84.70	
	For Bituminous Coated Pipe, Add	57.40			
	For Bituminous Coated And 25% Paved, Add	109.06			
	For Smooth-Flo, Add	196.89			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0613 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	489.87	94.11
For Bituminous Coated Pipe, Add	60.33	
For Bituminous Coated And 25% Paved, Add	114.63	
For Smooth-Flo, Add	206.93	
33 42 11 00-0614 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	518.89	103.52
For Bituminous Coated Pipe, Add	63.24	
For Bituminous Coated And 25% Paved, Add	120.16	
For Smooth-Flo, Add	216.91	
33 42 11 00-0615 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	546.73	112.93
For Bituminous Coated Pipe, Add	66.15	
For Bituminous Coated And 25% Paved, Add	125.68	
For Smooth-Flo, Add	226.89	
33 42 11 00-0616 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0580)		
33 42 11 00-0617 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	379.73	60.23
For Bituminous Coated Pipe, Add	51.99	
For Bituminous Coated And 25% Paved, Add	98.78	
For Smooth-Flo, Add	155.19	
33 42 11 00-0618 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	410.52	65.87
For Bituminous Coated Pipe, Add	55.75	
For Bituminous Coated And 25% Paved, Add	105.93	
For Smooth-Flo, Add	166.42	
33 42 11 00-0619 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	438.34	70.59
For Bituminous Coated Pipe, Add	59.44	
For Bituminous Coated And 25% Paved, Add	112.93	
For Smooth-Flo, Add	177.42	
33 42 11 00-0620 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	465.99	75.29
For Bituminous Coated Pipe, Add	63.08	
For Bituminous Coated And 25% Paved, Add	119.86	
For Smooth-Flo, Add	188.31	
33 42 11 00-0621 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	494.54	79.99
For Bituminous Coated Pipe, Add	66.77	
For Bituminous Coated And 25% Paved, Add	126.87	
For Smooth-Flo, Add	199.32	
33 42 11 00-0622 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	525.51	84.70
For Bituminous Coated Pipe, Add	70.43	
For Bituminous Coated And 25% Paved, Add	133.82	
For Smooth-Flo, Add	210.23	
33 42 11 00-0623 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	558.78	94.11
For Bituminous Coated Pipe, Add	74.11	
For Bituminous Coated And 25% Paved, Add	140.81	
For Smooth-Flo, Add	221.22	
33 42 11 00-0624 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	591.63	103.52
For Bituminous Coated Pipe, Add	77.79	
For Bituminous Coated And 25% Paved, Add	147.80	
For Smooth-Flo, Add	232.20	
33 42 11 00-0625 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	623.21	112.93
For Bituminous Coated Pipe, Add	81.44	
For Bituminous Coated And 25% Paved, Add	154.74	
For Smooth-Flo, Add	243.11	
33 42 11 00-0626 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	662.51	122.34
For Bituminous Coated Pipe, Add	86.27	
For Bituminous Coated And 25% Paved, Add	163.92	
For Smooth-Flo, Add	257.52	
33 42 11 00-0627 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	699.84	131.76
For Bituminous Coated Pipe, Add	90.25	
For Bituminous Coated And 25% Paved, Add	171.48	
For Smooth-Flo, Add	269.40	
33 42 11 00-0628 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	740.80	141.16
For Bituminous Coated Pipe, Add	94.38	
For Bituminous Coated And 25% Paved, Add	179.33	
For Smooth-Flo, Add	281.74	
33 42 11 00-0629 Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0630 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0629)		
33 42 11 00-0631 LF 18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	46.88	10.59
For Bituminous Coated Pipe, Add	6.11	
33 42 11 00-0632 LF 21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	53.53	11.47
For Bituminous Coated Pipe, Add	7.28	
33 42 11 00-0633 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	59.68	12.35
For Bituminous Coated Pipe, Add	8.27	
33 42 11 00-0634 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	78.27	15.87
For Bituminous Coated Pipe, Add	10.65	
33 42 11 00-0635 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	101.21	20.71
For Bituminous Coated Pipe, Add	13.35	
33 42 11 00-0636 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	115.47	24.47
For Bituminous Coated Pipe, Add	15.74	
33 42 11 00-0637 LF 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	130.09	28.23
For Bituminous Coated Pipe, Add	17.72	
33 42 11 00-0638 LF 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	155.15	32.00
For Bituminous Coated Pipe, Add	21.70	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0639 LF 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	169.26 23.70	33.88
33 42 11 00-0640 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0629)		
33 42 11 00-0641 LF 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	51.26 7.07	10.59
33 42 11 00-0642 LF 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	58.65 8.40	11.47
33 42 11 00-0643 LF 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	65.50 9.54	12.35
33 42 11 00-0644 LF 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	85.51 12.23	15.87
33 42 11 00-0645 LF 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	109.93 15.25	20.71
33 42 11 00-0646 LF 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	125.67 17.96	24.47
33 42 11 00-0647 LF 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	141.74 20.26	28.23
33 42 11 00-0648 LF 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	168.24 24.54	32.00
33 42 11 00-0649 LF 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	183.83 26.86	33.88
33 42 11 00-0650 LF 66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	225.53 33.37	41.41
33 42 11 00-0651 LF 72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	274.12 35.65	60.23
33 42 11 00-0652 LF 78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	296.17 37.98	65.87
33 42 11 00-0653 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0629)		
33 42 11 00-0654 LF 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	100.19 12.78	15.87
33 42 11 00-0655 LF 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	127.47 15.79	20.71
33 42 11 00-0656 LF 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	146.21 18.58	24.47
33 42 11 00-0657 LF 48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	165.17 21.00	28.23
33 42 11 00-0658 LF 54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	194.63 25.07	32.00
33 42 11 00-0659 LF 60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	213.19 27.52	33.88
33 42 11 00-0660 LF 66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	257.74 33.39	41.41
33 42 11 00-0661 LF 72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	309.24 35.81	60.23
33 42 11 00-0662 LF 78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	334.18 38.26	65.87
33 42 11 00-0663 LF 84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	356.47 40.69	70.59
33 42 11 00-0664 LF 90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	378.74 43.12	75.29
33 42 11 00-0665 LF 96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	401.70 45.55	79.99
33 42 11 00-0666 LF 102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	425.83 47.72	84.70
33 42 11 00-0667 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0668 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0667)		
33 42 11 00-0669 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	16.96 1.56	5.29
33 42 11 00-0670 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	18.27 1.88	5.29
33 42 11 00-0671 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	21.26 2.07	6.62
33 42 11 00-0672 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	22.92 2.47	6.62
33 42 11 00-0673 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	26.87 2.59	7.94
33 42 11 00-0674 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	28.97 3.11	7.94
33 42 11 00-0675 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0667)		
33 42 11 00-0676 LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	17.14 1.54	5.29
33 42 11 00-0677 LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	18.41 1.84	5.29

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0678 LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	21.44 2.02	6.62
33 42 11 00-0679 LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	23.20 2.44	6.62
33 42 11 00-0680 LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	27.19 2.56	7.94
33 42 11 00-0681 LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	29.34 3.07	7.94
33 42 11 00-0682 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0687)		
33 42 11 00-0683 EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	9.64 2.17	
33 42 11 00-0684 EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	12.76 2.87	
33 42 11 00-0685 EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	15.65 3.52	
33 42 11 00-0686 EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	34.78 4.80	
33 42 11 00-0687 EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	8.05 1.09	
33 42 11 00-0688 EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	10.14 1.64	
33 42 11 00-0689 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0690 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0689)		
33 42 11 00-0691 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	51.78	9.26
33 42 11 00-0692 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	60.92	9.71
33 42 11 00-0693 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	70.35	10.59
33 42 11 00-0694 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	81.69	11.47
33 42 11 00-0695 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	91.10	12.35
33 42 11 00-0696 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	119.27	15.87
33 42 11 00-0697 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	153.37	20.71
33 42 11 00-0698 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	177.38	24.47
33 42 11 00-0699 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	199.10	28.23
33 42 11 00-0700 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0689)		
33 42 11 00-0701 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	58.82	9.26
33 42 11 00-0702 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	69.65	9.71
33 42 11 00-0703 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	80.80	10.59
33 42 11 00-0704 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	93.79	11.47
33 42 11 00-0705 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	105.15	12.35
33 42 11 00-0706 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	136.52	15.87
33 42 11 00-0707 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	174.20	20.71
33 42 11 00-0708 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	201.29	24.47
33 42 11 00-0709 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	226.38	28.23
33 42 11 00-0710 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	273.96	32.00
33 42 11 00-0711 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0689)		
33 42 11 00-0712 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	102.58	10.59
33 42 11 00-0713 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	119.22	11.47
33 42 11 00-0714 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	134.07	12.35
33 42 11 00-0715 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	172.65	15.87
33 42 11 00-0716 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	208.69	20.71
33 42 11 00-0717 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	251.82	24.47
33 42 11 00-0718 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	284.05	28.23
33 42 11 00-0719 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	339.76	32.00
33 42 11 00-0720 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	371.25	33.88
33 42 11 00-0721 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	454.62	41.41
33 42 11 00-0722 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0689)		
33 42 11 00-0723 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	257.15	20.71
33 42 11 00-0724 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	297.86	24.47
33 42 11 00-0725 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	336.34	28.23
33 42 11 00-0726 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	398.34	32.00
33 42 11 00-0727 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	436.47	33.88
33 42 11 00-0728 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	526.24	41.41
33 42 11 00-0729 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	597.06	60.23
33 42 11 00-0730 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0731 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0730)		
33 42 11 00-0732 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	193.36	20.71



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0733	LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	223.49	24.47
33 42 11 00-0734	LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	250.80	28.23
33 42 11 00-0735	LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	303.36	32.00
33 42 11 00-0736	LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	330.31	33.88
33 42 11 00-0737	LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	420.34	41.41
33 42 11 00-0738	LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	481.13	60.23
33 42 11 00-0739	LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	515.18	65.87
33 42 11 00-0740	LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	546.73	70.59
33 42 11 00-0741	LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	578.31	75.29
33 42 11 00-0742	LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	610.49	79.99
33 42 11 00-0743	LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	645.44	84.70
33 42 11 00-0744 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0730)				
33 42 11 00-0745	LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	341.02	32.00
33 42 11 00-0746	LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	371.94	33.88
33 42 11 00-0747	LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	466.20	41.41
33 42 11 00-0748	LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	531.00	60.23
33 42 11 00-0749	LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	569.12	65.87
33 42 11 00-0750	LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	604.90	70.59
33 42 11 00-0751	LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	640.44	75.29
33 42 11 00-0752	LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	676.65	79.99
33 42 11 00-0753	LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	715.72	84.70
33 42 11 00-0754	LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	756.84	94.11
33 42 11 00-0755	LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	797.10	103.52
33 42 11 00-0756 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0730)				
33 42 11 00-0757	LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	466.64	33.88
33 42 11 00-0758	LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	571.55	41.41
33 42 11 00-0759	LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	645.49	60.23
33 42 11 00-0760	LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	692.79	65.87
33 42 11 00-0761	LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	737.70	70.59
33 42 11 00-0762	LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	782.44	75.29
33 42 11 00-0763	LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	827.91	79.99
33 42 11 00-0764	LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	876.09	84.70
33 42 11 00-0765	LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	926.28	94.11
33 42 11 00-0766	LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	975.85	103.52
33 42 11 00-0767	LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,024.65	112.93
33 42 11 00-0768 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0730)				
33 42 11 00-0769	LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	749.82	60.23
33 42 11 00-0770	LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	805.62	65.87
33 42 11 00-0771	LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	859.10	70.59
33 42 11 00-0772	LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	912.37	75.29
33 42 11 00-0773	LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	966.43	79.99
33 42 11 00-0774	LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,023.17	84.70
33 42 11 00-0775	LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,081.93	94.11
33 42 11 00-0776	LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,140.01	103.52
33 42 11 00-0777	LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,197.38	112.93
33 42 11 00-0778	LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,256.28	122.34
33 42 11 00-0779	LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,317.78	131.76
33 42 11 00-0780	LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,382.16	141.16
33 42 11 00-0781 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0487)				
33 42 11 00-0782 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0781)				
33 42 11 00-0783	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	242.68	28.23
33 42 11 00-0784	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	294.42	32.00
33 42 11 00-0785	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	320.07	33.88
33 42 11 00-0786	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	401.32	41.41
33 42 11 00-0787	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	460.54	60.23
33 42 11 00-0788	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	492.97	65.87
33 42 11 00-0789	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	522.69	70.59
33 42 11 00-0790	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	552.33	75.29
33 42 11 00-0791	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	582.98	79.99
33 42 11 00-0792	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	616.80	84.70
33 42 11 00-0793 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0781)				
33 42 11 00-0794	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	339.15	32.00
33 42 11 00-0795	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	369.89	33.88
33 42 11 00-0796	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	455.65	41.41
33 42 11 00-0797	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	519.26	60.23
33 42 11 00-0798	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	556.99	65.87
33 42 11 00-0799	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	591.69	70.59

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0800 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	623.83	75.29
33 42 11 00-0801 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	661.73	79.99
33 42 11 00-0802 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	699.72	84.70
33 42 11 00-0803 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	739.57	94.11
33 42 11 00-0804 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	779.71	103.52
33 42 11 00-0805 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0781)		
33 42 11 00-0806 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	469.75	33.88
33 42 11 00-0807 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	566.13	41.41
33 42 11 00-0808 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	640.17	60.23
33 42 11 00-0809 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	687.08	65.87
33 42 11 00-0810 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	731.14	70.59
33 42 11 00-0811 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	775.76	75.29
33 42 11 00-0812 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	820.79	79.99
33 42 11 00-0813 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	868.28	84.70
33 42 11 00-0814 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	918.32	94.11
33 42 11 00-0815 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	967.73	103.52
33 42 11 00-0816 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,015.93	112.93
33 42 11 00-0817 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0781)		
33 42 11 00-0818 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	749.77	60.23
33 42 11 00-0819 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	806.88	65.87
33 42 11 00-0820 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	860.54	70.59
33 42 11 00-0821 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	913.77	75.29
33 42 11 00-0822 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	968.09	79.99
33 42 11 00-0823 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,024.74	84.70
33 42 11 00-0824 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,083.76	94.11
33 42 11 00-0825 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,142.36	103.52
33 42 11 00-0826 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,199.60	112.93
33 42 11 00-0827 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,272.69	122.34
33 42 11 00-0828 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,337.94	131.76
33 42 11 00-0829 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,407.84	141.16
33 42 11 00-0830 Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0486)		
33 42 11 00-0831 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0830)		
33 42 11 00-0832 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0831)		
33 42 11 00-0833 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	37.77	9.71
For Bituminous Coated Pipe, Add	4.44	
For Bituminous Coated And 25% Paved, Add	10.74	
For Smooth-Flo, Add	17.72	
33 42 11 00-0834 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	41.97	10.59
For Bituminous Coated Pipe, Add	5.31	
For Bituminous Coated And 25% Paved, Add	12.83	
For Smooth-Flo, Add	21.16	
33 42 11 00-0835 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	47.94	11.47
For Bituminous Coated Pipe, Add	6.39	
For Bituminous Coated And 25% Paved, Add	15.44	
For Smooth-Flo, Add	25.47	
33 42 11 00-0836 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	53.76	12.35
For Bituminous Coated Pipe, Add	7.36	
For Bituminous Coated And 25% Paved, Add	17.80	
For Smooth-Flo, Add	29.35	
33 42 11 00-0837 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	70.09	15.87
For Bituminous Coated Pipe, Add	9.34	
For Bituminous Coated And 25% Paved, Add	22.59	
For Smooth-Flo, Add	37.27	
33 42 11 00-0838 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	92.33	20.71
For Bituminous Coated Pipe, Add	12.05	
For Bituminous Coated And 25% Paved, Add	29.14	
For Smooth-Flo, Add	48.07	
33 42 11 00-0839 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0831)		
33 42 11 00-0840 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	41.37	9.71
For Bituminous Coated Pipe, Add	4.61	
For Bituminous Coated And 25% Paved, Add	10.78	
For Smooth-Flo, Add	17.69	
33 42 11 00-0841 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	46.38	10.59
For Bituminous Coated Pipe, Add	5.53	
For Bituminous Coated And 25% Paved, Add	12.94	
For Smooth-Flo, Add	21.22	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0842	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	52.86	11.47	
		For Bituminous Coated Pipe, Add	6.57		
		For Bituminous Coated And 25% Paved, Add	15.38		
		For Smooth-Flo, Add	25.22		
33 42 11 00-0843	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	59.45	12.35	
		For Bituminous Coated Pipe, Add	7.58		
		For Bituminous Coated And 25% Paved, Add	17.73		
		For Smooth-Flo, Add	29.08		
33 42 11 00-0844	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	77.20	15.87	
		For Bituminous Coated Pipe, Add	9.60		
		For Bituminous Coated And 25% Paved, Add	22.45		
		For Smooth-Flo, Add	36.83		
33 42 11 00-0845	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	100.78	20.71	
		For Bituminous Coated Pipe, Add	12.22		
		For Bituminous Coated And 25% Paved, Add	28.60		
		For Smooth-Flo, Add	46.91		
33 42 11 00-0846	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	115.64	24.47	
		For Bituminous Coated Pipe, Add	14.56		
		For Bituminous Coated And 25% Paved, Add	34.07		
		For Smooth-Flo, Add	55.88		
33 42 11 00-0847 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch					
		(33 42 11 00-0831)			
33 42 11 00-0848	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	60.28	11.29	
		For Bituminous Coated Pipe, Add	5.98		
		For Bituminous Coated And 25% Paved, Add	13.31		
		For Smooth-Flo, Add	20.47		
33 42 11 00-0849	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	68.74	12.24	
		For Bituminous Coated Pipe, Add	7.09		
		For Bituminous Coated And 25% Paved, Add	15.79		
		For Smooth-Flo, Add	24.27		
33 42 11 00-0850	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	77.15	13.17	
		For Bituminous Coated Pipe, Add	8.14		
		For Bituminous Coated And 25% Paved, Add	18.11		
		For Smooth-Flo, Add	27.84		
33 42 11 00-0851	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	99.74	16.94	
		For Bituminous Coated Pipe, Add	10.24		
		For Bituminous Coated And 25% Paved, Add	22.80		
		For Smooth-Flo, Add	35.05		
33 42 11 00-0852	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	118.01	20.71	
		For Bituminous Coated Pipe, Add	12.82		
		For Bituminous Coated And 25% Paved, Add	28.52		
		For Smooth-Flo, Add	43.86		
33 42 11 00-0853	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	135.53	24.47	
		For Bituminous Coated Pipe, Add	15.16		
		For Bituminous Coated And 25% Paved, Add	33.73		
		For Smooth-Flo, Add	51.87		
33 42 11 00-0854	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	157.97	28.23	
		For Bituminous Coated Pipe, Add	17.98		
		For Bituminous Coated And 25% Paved, Add	40.01		
		For Smooth-Flo, Add	61.52		
33 42 11 00-0855	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	176.76	32.00	
		For Bituminous Coated Pipe, Add	19.85		
		For Bituminous Coated And 25% Paved, Add	44.18		
		For Smooth-Flo, Add	67.94		
33 42 11 00-0856 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch					
		(33 42 11 00-0831)			
33 42 11 00-0857	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	134.24	20.71	
		For Bituminous Coated Pipe, Add	15.44		
		For Bituminous Coated And 25% Paved, Add	32.52		
		For Smooth-Flo, Add	41.01		
33 42 11 00-0858	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	154.45	24.47	
		For Bituminous Coated Pipe, Add	18.22		
		For Bituminous Coated And 25% Paved, Add	38.35		
		For Smooth-Flo, Add	48.37		
33 42 11 00-0859	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	179.41	28.23	
		For Bituminous Coated Pipe, Add	21.44		
		For Bituminous Coated And 25% Paved, Add	45.13		
		For Smooth-Flo, Add	56.91		
33 42 11 00-0860	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	200.99	32.00	
		For Bituminous Coated Pipe, Add	23.77		
		For Bituminous Coated And 25% Paved, Add	50.04		
		For Smooth-Flo, Add	63.10		
33 42 11 00-0861	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	220.15	33.88	
		For Bituminous Coated Pipe, Add	26.09		
		For Bituminous Coated And 25% Paved, Add	54.93		
		For Smooth-Flo, Add	69.28		
33 42 11 00-0862 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch					
		(33 42 11 00-0830)			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0863 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0862)		
33 42 11 00-0864 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	176.52	32.00
For Bituminous Coated Pipe, Add	22.90	
For Bituminous Coated And 25% Paved, Add	69.63	
For Smooth-Flo, Add	77.87	
33 42 11 00-0865 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	192.89	33.88
For Bituminous Coated Pipe, Add	25.07	
For Bituminous Coated And 25% Paved, Add	76.20	
For Smooth-Flo, Add	85.22	
33 42 11 00-0866 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	238.49	41.41
For Bituminous Coated Pipe, Add	31.48	
For Bituminous Coated And 25% Paved, Add	95.71	
For Smooth-Flo, Add	107.04	
33 42 11 00-0867 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	288.53	60.23
For Bituminous Coated Pipe, Add	33.75	
For Bituminous Coated And 25% Paved, Add	102.60	
For Smooth-Flo, Add	114.75	
33 42 11 00-0868 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	312.43	65.87
For Bituminous Coated Pipe, Add	36.13	
For Bituminous Coated And 25% Paved, Add	109.85	
For Smooth-Flo, Add	122.86	
33 42 11 00-0869 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	333.81	70.59
For Bituminous Coated Pipe, Add	38.53	
For Bituminous Coated And 25% Paved, Add	117.13	
For Smooth-Flo, Add	131.00	
33 42 11 00-0870 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	355.14	75.29
For Bituminous Coated Pipe, Add	40.91	
For Bituminous Coated And 25% Paved, Add	124.38	
For Smooth-Flo, Add	139.11	
33 42 11 00-0871 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	377.12	79.99
For Bituminous Coated Pipe, Add	43.29	
For Bituminous Coated And 25% Paved, Add	131.60	
For Smooth-Flo, Add	147.19	
33 42 11 00-0872 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0862)		
33 42 11 00-0873 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	230.19	33.88
For Bituminous Coated Pipe, Add	32.53	
For Bituminous Coated And 25% Paved, Add	85.22	
For Smooth-Flo, Add	100.83	
33 42 11 00-0874 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	279.86	41.41
For Bituminous Coated Pipe, Add	39.76	
For Bituminous Coated And 25% Paved, Add	104.16	
For Smooth-Flo, Add	123.24	
33 42 11 00-0875 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	333.57	60.23
For Bituminous Coated Pipe, Add	42.76	
For Bituminous Coated And 25% Paved, Add	112.03	
For Smooth-Flo, Add	132.55	
33 42 11 00-0876 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	361.11	65.87
For Bituminous Coated Pipe, Add	45.87	
For Bituminous Coated And 25% Paved, Add	120.18	
For Smooth-Flo, Add	142.20	
33 42 11 00-0877 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	386.13	70.59
For Bituminous Coated Pipe, Add	48.99	
For Bituminous Coated And 25% Paved, Add	128.36	
For Smooth-Flo, Add	151.88	
33 42 11 00-0878 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	411.12	75.29
For Bituminous Coated Pipe, Add	52.11	
For Bituminous Coated And 25% Paved, Add	136.53	
For Smooth-Flo, Add	161.54	
33 42 11 00-0879 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	436.74	79.99
For Bituminous Coated Pipe, Add	55.21	
For Bituminous Coated And 25% Paved, Add	144.66	
For Smooth-Flo, Add	171.16	
33 42 11 00-0880 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	465.12	84.70
For Bituminous Coated Pipe, Add	58.35	
For Bituminous Coated And 25% Paved, Add	152.88	
For Smooth-Flo, Add	180.89	
33 42 11 00-0881 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	495.56	94.11
For Bituminous Coated Pipe, Add	61.47	
For Bituminous Coated And 25% Paved, Add	161.05	
For Smooth-Flo, Add	190.55	
33 42 11 00-0882 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	527.17	103.52
For Bituminous Coated Pipe, Add	64.90	
For Bituminous Coated And 25% Paved, Add	170.03	
For Smooth-Flo, Add	201.18	
33 42 11 00-0883 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0862)		
33 42 11 00-0884 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	375.42	60.23
For Bituminous Coated Pipe, Add	51.13	
For Bituminous Coated And 25% Paved, Add	121.68	
For Smooth-Flo, Add	132.17	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0885	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	406.42 54.93 130.74 142.00	65.87
33 42 11 00-0886	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	434.87 58.74 139.81 151.85	70.59
33 42 11 00-0887	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	463.23 62.53 148.83 161.65	75.29
33 42 11 00-0888	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	492.32 66.33 157.87 171.46	79.99
33 42 11 00-0889	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	524.09 70.15 166.95 181.33	84.70
33 42 11 00-0890	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	557.97 73.95 176.00 191.16	94.11
33 42 11 00-0891	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	592.74 78.01 185.66 201.66	103.52
33 42 11 00-0892	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	630.42 82.89 197.27 214.26	112.93
33 42 11 00-0893		125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0830)		
33 42 11 00-0894		12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0893)		
33 42 11 00-0895	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	337.68 43.58 106.34 135.32	60.23
33 42 11 00-0896	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	364.81 46.61 113.73 144.72	65.87
33 42 11 00-0897	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	389.19 49.61 121.04 154.03	70.59
33 42 11 00-0898	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	413.58 52.60 128.35 163.33	75.29
33 42 11 00-0899	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	438.76 55.62 135.71 172.69	79.99
33 42 11 00-0900	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	466.80 58.69 143.20 182.23	84.70
33 42 11 00-0901	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	496.91 61.74 150.64 191.70	94.11
33 42 11 00-0902	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	530.50 65.56 159.97 203.57	103.52
33 42 11 00-0903		10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0893)		
33 42 11 00-0904	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	384.00 52.84 119.43 129.73	60.23
33 42 11 00-0905	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	414.83 56.61 127.95 138.99	65.87

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0906	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	442.98 60.36 136.42 148.19	70.59
33 42 11 00-0907	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	471.24 64.13 144.94 157.45	75.29
33 42 11 00-0908	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	499.56 67.78 153.18 166.39	79.99
33 42 11 00-0909	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	531.87 71.70 162.05 176.03	84.70
33 42 11 00-0910	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	565.82 75.52 170.68 185.40	94.11
33 42 11 00-0911	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	603.21 80.10 181.04 196.66	103.52
33 42 11 00-0912	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	638.16 84.43 190.82 207.29	112.93
33 42 11 00-0913		2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0830)		
33 42 11 00-0914		16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)		
33 42 11 00-0915	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	60.98	9.71
33 42 11 00-0916	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	69.71	10.59
33 42 11 00-0917	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	81.41	11.47
33 42 11 00-0918	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	92.38	12.35
33 42 11 00-0919	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	119.30	15.87
33 42 11 00-0920	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	156.24	20.71
33 42 11 00-0921		14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)		
33 42 11 00-0922	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	69.27	9.71
33 42 11 00-0923	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	79.83	10.59
33 42 11 00-0924	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	92.71	11.47
33 42 11 00-0925	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	105.52	12.35
33 42 11 00-0926	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	135.63	15.87
33 42 11 00-0927	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	175.67	20.71
33 42 11 00-0928	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	205.04	24.47
33 42 11 00-0929		12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)		
33 42 11 00-0930	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	104.64	10.59
33 42 11 00-0931	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	122.10	11.47
33 42 11 00-0932	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	138.80	12.35
33 42 11 00-0933	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	177.17	15.87
33 42 11 00-0934	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	225.84	20.71
33 42 11 00-0935	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	263.47	24.47
33 42 11 00-0936	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	310.72	28.23
33 42 11 00-0937	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	344.99	32.00
33 42 11 00-0938		10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)		
33 42 11 00-0939	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	265.19	20.71
33 42 11 00-0940	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	309.39	24.47
33 42 11 00-0941	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	362.77	28.23
33 42 11 00-0942	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	403.84	32.00
33 42 11 00-0943	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	442.39	33.88
33 42 11 00-0944		3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0830)		
33 42 11 00-0945		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0944)		
33 42 11 00-0946	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	348.41	32.00
33 42 11 00-0947	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	380.63	33.88
33 42 11 00-0948	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	476.29	41.41
33 42 11 00-0949	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	543.12	60.23
33 42 11 00-0950	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	584.68	65.87
33 42 11 00-0951	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	623.79	70.59
33 42 11 00-0952	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	662.74	75.29



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0953	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	702.45	79.99
33 42 11 00-0954 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0944)					
33 42 11 00-0955	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	475.52	33.88
33 42 11 00-0956	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	581.91	41.41
33 42 11 00-0957	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	658.08	60.23
33 42 11 00-0958	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	708.80	65.87
33 42 11 00-0959	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	757.12	70.59
33 42 11 00-0960	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	805.39	75.29
33 42 11 00-0961	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	854.22	79.99
33 42 11 00-0962	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	905.96	84.70
33 42 11 00-0963	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	959.68	94.11
33 42 11 00-0964	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,016.88	103.52
33 42 11 00-0965 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0944)					
33 42 11 00-0966	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	762.37	60.23
33 42 11 00-0967	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	821.72	65.87
33 42 11 00-0968	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	878.66	70.59
33 42 11 00-0969	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	935.30	75.29
33 42 11 00-0970	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	992.72	79.99
33 42 11 00-0971	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,052.99	84.70
33 42 11 00-0972	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,115.30	94.11
33 42 11 00-0973	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,180.33	103.52
33 42 11 00-0974	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,254.36	112.93
33 42 11 00-0975 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0830)					
33 42 11 00-0976 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0975)					
33 42 11 00-0977	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	648.70	60.23
33 42 11 00-0978	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	697.08	65.87
33 42 11 00-0979	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	742.47	70.59
33 42 11 00-0980	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	787.82	75.29
33 42 11 00-0981	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	834.12	79.99
33 42 11 00-0982	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	883.68	84.70
33 42 11 00-0983	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	935.14	94.11
33 42 11 00-0984	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	995.51	103.52
33 42 11 00-0985 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0975)					
33 42 11 00-0986	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	759.93	60.23
33 42 11 00-0987	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	817.15	65.87
33 42 11 00-0988	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	871.57	70.59
33 42 11 00-0989	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	926.24	75.29
33 42 11 00-0990	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	980.14	79.99
33 42 11 00-0991	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,039.89	84.70
33 42 11 00-0992	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,100.61	94.11
33 42 11 00-0993	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,170.23	103.52
33 42 11 00-0994	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,235.34	112.93
33 42 11 00-0995 Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0486)					
33 42 11 00-0996 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0995)					
33 42 11 00-0997 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0996)					
33 42 11 00-0998	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	35.60	9.26
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	6.61	
33 42 11 00-0999	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	40.53	9.71
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	8.32	
33 42 11 00-1000	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	45.64	10.59
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	10.09	
33 42 11 00-1001	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	52.15	11.47
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	12.06	
33 42 11 00-1002	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	57.83	12.35
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	13.59	
33 42 11 00-1003	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	76.19	15.87
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	17.63	
33 42 11 00-1004	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	98.96	20.71
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	22.24	
33 42 11 00-1005	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	113.01	24.47
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	26.30	
33 42 11 00-1006	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	127.00	28.23
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	29.47	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1007 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0996)					
33 42 11 00-1008	LF	12"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	39.17	9.26
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	6.28	
33 42 11 00-1009	LF	15"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	44.94	9.71
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	7.88	
33 42 11 00-1010	LF	18"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	50.89	10.59
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	9.52	
33 42 11 00-1011	LF	21"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	58.24	11.47
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	11.32	
33 42 11 00-1012	LF	24"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	64.90	12.35
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	12.82	
33 42 11 00-1013	LF	30"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	84.84	15.87
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	16.47	
33 42 11 00-1014	LF	36"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	109.43	20.71
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	20.64	
33 42 11 00-1015	LF	42"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	125.07	24.47
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	24.31	
33 42 11 00-1016	LF	48"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	140.73	28.23
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	27.30	
33 42 11 00-1017	LF	54"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	168.58	32.00
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	33.57	
33 42 11 00-1018 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0996)					
33 42 11 00-1019	LF	18"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	61.93	10.59
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	8.87	
33 42 11 00-1020	LF	21"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	71.13	11.47
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	10.50	
33 42 11 00-1021	LF	24"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	79.54	12.35
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	11.90	
33 42 11 00-1022	LF	30"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	103.12	15.87
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	15.17	
33 42 11 00-1023	LF	36"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	131.48	20.71
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	18.83	
33 42 11 00-1024	LF	42"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	150.62	24.47
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	22.08	
33 42 11 00-1025	LF	48"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	169.88	28.23
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	24.90	
33 42 11 00-1026	LF	54"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	201.87	32.00
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	30.07	
33 42 11 00-1027	LF	60"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	220.49	33.88
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	32.88	
33 42 11 00-1028	LF	66"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	269.16	41.41
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	40.44	
33 42 11 00-1029 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0996)					
33 42 11 00-1030	LF	36"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	151.30	20.71
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	20.62	
33 42 11 00-1031	LF	42"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	173.81	24.47
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	24.17	
33 42 11 00-1032	LF	48"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	196.21	28.23
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	27.29	
33 42 11 00-1033	LF	54"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	231.39	32.00
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	32.52	
33 42 11 00-1034	LF	60"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	253.35	33.88
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	35.67	
33 42 11 00-1035	LF	66"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	305.24	41.41
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	43.04	
33 42 11 00-1036	LF	72"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	360.10	60.23
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	46.14	
33 42 11 00-1037 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0995)					
33 42 11 00-1038 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1037)					
33 42 11 00-1039	LF	36"	16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	114.54	20.71
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	24.72	
33 42 11 00-1040	LF	42"	16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	130.86	24.47
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	29.03	
33 42 11 00-1041	LF	48"	16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	147.06	28.23
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	32.55	
33 42 11 00-1042	LF	54"	16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	175.61	32.00
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	39.76	
33 42 11 00-1043	LF	60"	16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	191.34	33.88
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	43.32	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		
33 42 11 00-1044	LF 66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	240.07	55.65	41.41
33 42 11 00-1045	LF 72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	289.24	59.31	60.23
33 42 11 00-1046	LF 78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	311.72	62.99	65.87
33 42 11 00-1047	LF 84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	331.66	66.68	70.59
33 42 11 00-1048	LF 90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	351.61	70.36	75.29
33 42 11 00-1049	LF 96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	372.21	74.04	79.99
33 42 11 00-1050	LF 102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	395.50	77.75	84.70
33 42 11 00-1051 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1037)				
33 42 11 00-1052	LF 54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	193.52	34.46	32.00
33 42 11 00-1053	LF 60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	211.13	37.62	33.88
33 42 11 00-1054	LF 66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	261.85	47.36	41.41
33 42 11 00-1055	LF 72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	312.97	50.62	60.23
33 42 11 00-1056	LF 78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	337.37	53.87	65.87
33 42 11 00-1057	LF 84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	359.33	57.16	70.59
33 42 11 00-1058	LF 90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	381.16	60.41	75.29
33 42 11 00-1059	LF 96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	403.68	63.67	79.99
33 42 11 00-1060	LF 102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	428.90	66.95	84.70
33 42 11 00-1061	LF 108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	456.24	70.22	94.11
33 42 11 00-1062	LF 114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	483.00	73.44	103.52
33 42 11 00-1063 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1037)				
33 42 11 00-1064	LF 60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	255.13	50.46	33.88
33 42 11 00-1065	LF 66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	310.56	61.73	41.41
33 42 11 00-1066	LF 72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	365.92	66.21	60.23
33 42 11 00-1067	LF 78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	394.63	70.71	65.87
33 42 11 00-1068	LF 84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	420.83	75.23	70.59
33 42 11 00-1069	LF 90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	446.97	79.73	75.29
33 42 11 00-1070	LF 96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	473.77	84.22	79.99
33 42 11 00-1071	LF 102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	503.26	88.74	84.70
33 42 11 00-1072	LF 108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	534.85	93.24	94.11
33 42 11 00-1073	LF 114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	565.91	97.71	103.52
33 42 11 00-1074	LF 120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	596.01	102.23	112.93
33 42 11 00-1075 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1037)				
33 42 11 00-1076	LF 72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	415.31	81.27	60.23
33 42 11 00-1077	LF 78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	447.99	86.96	65.87
33 42 11 00-1078	LF 84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	478.26	92.70	70.59
33 42 11 00-1079	LF 90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	508.41	98.41	75.29
33 42 11 00-1080	LF 96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	539.31	104.13	79.99
33 42 11 00-1081	LF 102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	572.87	109.87	84.70
33 42 11 00-1082	LF 108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	608.47	115.57	94.11

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1083	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	643.57	103.52
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	121.24	
33 42 11 00-1084	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	677.75	112.93
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	126.98	
33 42 11 00-1085	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	713.61	122.34
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	132.68	
33 42 11 00-1086	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	751.89	131.76
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	138.41	
33 42 11 00-1087	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	793.05	141.16
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	144.15	
33 42 11 00-1088 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
(33 42 11 00-0995)				
33 42 11 00-1089 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
(33 42 11 00-1088)				
33 42 11 00-1090	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	147.63	28.23
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	40.33	
33 42 11 00-1091	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	176.66	32.00
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	49.42	
33 42 11 00-1092	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	192.25	33.88
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	53.74	
33 42 11 00-1093	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	238.05	41.41
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	67.65	
33 42 11 00-1094	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	286.98	60.23
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	72.06	
33 42 11 00-1095	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	309.20	65.87
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	76.48	
33 42 11 00-1096	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	328.76	70.59
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	80.86	
33 42 11 00-1097	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	348.27	75.29
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	85.21	
33 42 11 00-1098	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	368.67	79.99
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.65	
33 42 11 00-1099	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	391.90	84.70
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	94.19	
33 42 11 00-1100 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
(33 42 11 00-1088)				
33 42 11 00-1101	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	199.04	32.00
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	46.59	
33 42 11 00-1102	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	217.19	33.88
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	50.87	
33 42 11 00-1103	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	265.22	41.41
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	62.61	
33 42 11 00-1104	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	316.37	60.23
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	66.84	
33 42 11 00-1105	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	341.21	65.87
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	71.21	
33 42 11 00-1106	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	363.27	70.59
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	75.52	
33 42 11 00-1107	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	384.06	75.29
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	79.39	
33 42 11 00-1108	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	408.03	79.99
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	84.10	
33 42 11 00-1109	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	433.37	84.70
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	88.40	
33 42 11 00-1110	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	460.76	94.11
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	92.66	
33 42 11 00-1111	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	488.05	103.52
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	97.02	
33 42 11 00-1112 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
(33 42 11 00-1088)				
33 42 11 00-1113	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	263.82	33.88
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	56.13	
33 42 11 00-1114	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	316.62	41.41
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	67.36	
33 42 11 00-1115	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	372.66	60.23
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	72.32	
33 42 11 00-1116	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	401.80	65.87
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	77.23	
33 42 11 00-1117	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	428.27	70.59
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	82.11	
33 42 11 00-1118	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	454.98	75.29
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	87.06	
33 42 11 00-1119	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	482.22	79.99
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	91.96	
33 42 11 00-1120	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	512.04	84.70
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	96.86	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1121	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	544.17 101.80	94.11
33 42 11 00-1122	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	575.81 106.71	103.52
33 42 11 00-1123	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	606.28 111.62	112.93
33 42 11 00-1124 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1088)				
33 42 11 00-1125	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	426.55 87.74	60.23
33 42 11 00-1126	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	460.71 94.08	65.87
33 42 11 00-1127	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	491.86 100.30	70.59
33 42 11 00-1128	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	522.82 106.46	75.29
33 42 11 00-1129	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	554.63 112.67	79.99
33 42 11 00-1130	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	588.93 118.85	84.70
33 42 11 00-1131	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	625.50 125.06	94.11
33 42 11 00-1132	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	661.65 131.26	103.52
33 42 11 00-1133	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	696.53 137.43	112.93
33 42 11 00-1134	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	740.20 145.59	122.34
33 42 11 00-1135	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	781.11 152.30	131.76
33 42 11 00-1136	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	825.77 159.27	141.16
33 42 11 00-1137 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0995)				
33 42 11 00-1138 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1137)				
33 42 11 00-1139	LF	18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	51.66	10.59
33 42 11 00-1140	LF	21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	59.12	11.47
33 42 11 00-1141	LF	24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	66.08	12.35
33 42 11 00-1142	LF	30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	86.25	15.87
33 42 11 00-1143	LF	36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	110.77	20.71
33 42 11 00-1144	LF	42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	126.65	24.47
33 42 11 00-1145	LF	48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	142.85	28.23
33 42 11 00-1146	LF	54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	169.52	32.00
33 42 11 00-1147	LF	60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	185.21	33.88
33 42 11 00-1148 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1137)				
33 42 11 00-1149	LF	18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	56.85	10.59
33 42 11 00-1150	LF	21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	65.18	11.47
33 42 11 00-1151	LF	24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	72.94	12.35
33 42 11 00-1152	LF	30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	94.84	15.87
33 42 11 00-1153	LF	36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	121.11	20.71
33 42 11 00-1154	LF	42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	138.73	24.47
33 42 11 00-1155	LF	48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	156.65	28.23
33 42 11 00-1156	LF	54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	185.04	32.00
33 42 11 00-1157	LF	60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	202.52	33.88
33 42 11 00-1158	LF	66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	246.26	41.41
33 42 11 00-1159	LF	72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	296.71	60.23
33 42 11 00-1160	LF	78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	320.61	65.87
33 42 11 00-1161 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1137)				
33 42 11 00-1162	LF	30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	112.24	15.87
33 42 11 00-1163	LF	36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	141.95	20.71
33 42 11 00-1164	LF	42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	163.14	24.47
33 42 11 00-1165	LF	48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	184.49	28.23
33 42 11 00-1166	LF	54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	216.34	32.00
33 42 11 00-1167	LF	60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	237.36	33.88
33 42 11 00-1168	LF	66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	284.51	41.41
33 42 11 00-1169	LF	72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	338.39	60.23
33 42 11 00-1170	LF	78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	365.75	65.87
33 42 11 00-1171	LF	84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	390.43	70.59
33 42 11 00-1172	LF	90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	415.16	75.29
33 42 11 00-1173	LF	96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	440.48	79.99
33 42 11 00-1174	LF	102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	466.77	84.70

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1175 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0486)		
33 42 11 00-1176 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1175)		
33 42 11 00-1177 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)		
33 42 11 00-1178 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	41.74 10.75	9.71
33 42 11 00-1179 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	46.72 12.85	10.59
33 42 11 00-1180 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	53.63 15.45	11.47
33 42 11 00-1181 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	60.32 17.81	12.35
33 42 11 00-1182 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	78.44 22.62	15.87
33 42 11 00-1183 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	103.10 29.18	20.71
33 42 11 00-1184 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)		
33 42 11 00-1185 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	46.15 11.14	9.71
33 42 11 00-1186 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	52.07 13.35	10.59
33 42 11 00-1187 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	59.66 15.88	11.47
33 42 11 00-1188 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	67.29 18.31	12.35
33 42 11 00-1189 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	87.13 23.19	15.87
33 42 11 00-1190 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	113.43 29.54	20.71
33 42 11 00-1191 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	130.72 35.19	24.47
33 42 11 00-1192 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)		
33 42 11 00-1193 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	62.97 12.23	10.59
33 42 11 00-1194 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	72.58 14.53	11.47
33 42 11 00-1195 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	81.93 16.68	12.35
33 42 11 00-1196 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	105.41 21.05	15.87
33 42 11 00-1197 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	135.52 26.47	20.71
33 42 11 00-1198 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	156.47 31.37	24.47
33 42 11 00-1199 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	183.32 37.36	28.23
33 42 11 00-1200 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	204.50 41.18	32.00
33 42 11 00-1201 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)		
33 42 11 00-1202 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	155.34 27.86	20.71
33 42 11 00-1203 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	179.60 32.92	24.47
33 42 11 00-1204 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	209.54 38.87	28.23
33 42 11 00-1205 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	234.15 43.04	32.00
33 42 11 00-1206 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	256.34 47.20	33.88
33 42 11 00-1207 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1175)		
33 42 11 00-1208 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1207)		
33 42 11 00-1209 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	197.06 61.86	32.00
33 42 11 00-1210 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	215.34 67.68	33.88



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-1211	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	266.70 85.01		41.41
33 42 11 00-1212	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	318.76 91.13		60.23
33 42 11 00-1213	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	344.81 97.58		65.87
33 42 11 00-1214	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	368.32 104.04		70.59
33 42 11 00-1215	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	391.77 110.47		75.29
33 42 11 00-1216	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	415.94 116.91		79.99
33 42 11 00-1217 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1207)				
33 42 11 00-1218	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	259.37 76.92		33.88
33 42 11 00-1219	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	315.51 94.01		41.41
33 42 11 00-1220	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	371.92 101.11		60.23
33 42 11 00-1221	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	402.21 108.45		65.87
33 42 11 00-1222	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	430.06 115.85		70.59
33 42 11 00-1223	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	457.85 123.22		75.29
33 42 11 00-1224	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	486.26 130.56		79.99
33 42 11 00-1225	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	517.43 137.97		84.70
33 42 11 00-1226	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	550.67 145.34		94.11
33 42 11 00-1227	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	585.37 153.45		103.52
33 42 11 00-1228 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1207)				
33 42 11 00-1229	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	421.27 109.44		60.23
33 42 11 00-1230	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	455.67 117.58		65.87
33 42 11 00-1231	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	487.55 125.74		70.59
33 42 11 00-1232	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	519.31 133.85		75.29
33 42 11 00-1233	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	554.53 142.97		79.99
33 42 11 00-1234	LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	587.01 150.15		84.70
33 42 11 00-1235	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	624.32 158.30		94.11
33 42 11 00-1236	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	662.69 166.98		103.52
33 42 11 00-1237	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	704.74 177.42		112.93
33 42 11 00-1238 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1175)				
33 42 11 00-1239 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1238)				
33 42 11 00-1240	LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	376.90 99.51		60.23
33 42 11 00-1241	LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	406.75 106.42		65.87
33 42 11 00-1242	LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	433.86 113.27		70.59
33 42 11 00-1243	LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	460.94 120.11		75.29
33 42 11 00-1244	LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	488.82 126.99		79.99
33 42 11 00-1245	LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	519.62 134.00		84.70
33 42 11 00-1246	LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	552.49 140.97		94.11
33 42 11 00-1247	LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	589.51 149.70		103.52

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1248 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1238)		
33 42 11 00-1249 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	431.57	60.23
For 1/2 Bituminous Coated And 40% Paved, Add	110.37	
33 42 11 00-1250 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	465.80	65.87
For 1/2 Bituminous Coated And 40% Paved, Add	118.25	
33 42 11 00-1251 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	497.31	70.59
For 1/2 Bituminous Coated And 40% Paved, Add	126.08	
33 42 11 00-1252 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	528.98	75.29
For 1/2 Bituminous Coated And 40% Paved, Add	133.96	
33 42 11 00-1253 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	560.59	79.99
For 1/2 Bituminous Coated And 40% Paved, Add	141.57	
33 42 11 00-1254 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	596.40	84.70
For 1/2 Bituminous Coated And 40% Paved, Add	149.76	
33 42 11 00-1255 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	633.82	94.11
For 1/2 Bituminous Coated And 40% Paved, Add	157.74	
33 42 11 00-1256 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	675.32	103.52
For 1/2 Bituminous Coated And 40% Paved, Add	167.31	
33 42 11 00-1257 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	714.17	112.93
For 1/2 Bituminous Coated And 40% Paved, Add	176.36	
33 42 11 00-1258 Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-0486)		
33 42 11 00-1259 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1258)		
33 42 11 00-1260 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1259)		
33 42 11 00-1261 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	21.24	5.29
For Bituminous Coated Pipe, Add	2.04	
33 42 11 00-1262 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	27.30	6.62
For Bituminous Coated Pipe, Add	2.78	
33 42 11 00-1263 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	35.34	7.94
For Bituminous Coated Pipe, Add	3.66	
33 42 11 00-1264 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1259)		
33 42 11 00-1265 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	23.59	5.29
For Bituminous Coated Pipe, Add	2.03	
33 42 11 00-1266 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	30.61	6.62
For Bituminous Coated Pipe, Add	2.77	
33 42 11 00-1267 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	39.76	7.94
For Bituminous Coated Pipe, Add	3.66	
33 42 11 00-1268 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1258)		
33 42 11 00-1269 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1268)		
33 42 11 00-1270 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	40.99	9.26
For Bituminous Coated Pipe, Add	4.02	
33 42 11 00-1271 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	47.23	9.71
For Bituminous Coated Pipe, Add	5.05	
33 42 11 00-1272 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	53.83	10.59
For Bituminous Coated Pipe, Add	6.14	
33 42 11 00-1273 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	61.89	11.47
For Bituminous Coated Pipe, Add	7.33	
33 42 11 00-1274 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	69.10	12.35
For Bituminous Coated Pipe, Add	8.31	
33 42 11 00-1275 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1268)		
33 42 11 00-1276 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	46.02	9.26
For Bituminous Coated Pipe, Add	3.94	
33 42 11 00-1277 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	53.64	9.71
For Bituminous Coated Pipe, Add	4.96	
33 42 11 00-1278 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	61.52	10.59
For Bituminous Coated Pipe, Add	6.01	
33 42 11 00-1279 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	70.79	11.47
For Bituminous Coated Pipe, Add	7.13	
33 42 11 00-1280 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	79.32	12.35
For Bituminous Coated Pipe, Add	8.10	
33 42 11 00-1281 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	103.21	15.87
For Bituminous Coated Pipe, Add	10.39	
33 42 11 00-1282 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	131.77	20.71
For Bituminous Coated Pipe, Add	12.91	



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		Stormwater Utilities	33 40	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1283		12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1268)		
33 42 11 00-1284	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	98.87 7.69	12.35
33 42 11 00-1285	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	127.54 9.78	15.87
33 42 11 00-1286	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	160.99 12.06	20.71
33 42 11 00-1287	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	185.59 14.18	24.47
33 42 11 00-1288	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	209.90 16.05	28.23
33 42 11 00-1289	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	246.89 19.04	32.00
33 42 11 00-1290		10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1268)		
33 42 11 00-1291	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	192.13 11.86	20.71
33 42 11 00-1292	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	221.87 13.92	24.47
33 42 11 00-1293	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	251.48 15.79	28.23
33 42 11 00-1294	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	293.66 18.53	32.00
33 42 11 00-1295	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	322.84 20.42	33.88
33 42 11 00-1296		3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1258)		
33 42 11 00-1297		16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1296)		
33 42 11 00-1298	LF	30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	101.62	15.87
33 42 11 00-1299	LF	36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	129.78	20.71
33 42 11 00-1300	LF	42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	148.54	24.47
33 42 11 00-1301	LF	48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	168.21	28.23
33 42 11 00-1302	LF	54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	198.59	32.00
33 42 11 00-1303		14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1296)		
33 42 11 00-1304	LF	30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	114.44	15.87
33 42 11 00-1305	LF	36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	148.06	20.71
33 42 11 00-1306	LF	42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	169.76	24.47
33 42 11 00-1307	LF	48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	191.37	28.23
33 42 11 00-1308	LF	54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	225.72	32.00
33 42 11 00-1309	LF	60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	246.80	33.88
33 42 11 00-1310	LF	66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	300.19	41.41
33 42 11 00-1311	LF	72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	354.56	60.23
33 42 11 00-1312	LF	78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	382.27	65.87
33 42 11 00-1313		12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1296)		
33 42 11 00-1314	LF	30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	144.35	15.87
33 42 11 00-1315	LF	36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	181.71	20.71
33 42 11 00-1316	LF	42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	209.97	24.47
33 42 11 00-1317	LF	48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	237.48	28.23
33 42 11 00-1318	LF	54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	277.49	32.00
33 42 11 00-1319	LF	60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	304.12	33.88
33 42 11 00-1320	LF	66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	363.05	41.41
33 42 11 00-1321	LF	72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	423.13	60.23
33 42 11 00-1322	LF	78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	456.43	65.87
33 42 11 00-1323	LF	84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	487.25	70.59
33 42 11 00-1324	LF	90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	517.99	75.29
33 42 11 00-1325	LF	96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	549.42	79.99
33 42 11 00-1326		10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1296)		
33 42 11 00-1327	LF	60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	364.41	33.88
33 42 11 00-1328	LF	66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	426.83	41.41
33 42 11 00-1329	LF	72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	492.63	60.23
33 42 11 00-1330	LF	78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	531.66	65.87
33 42 11 00-1331	LF	84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	568.12	70.59
33 42 11 00-1332	LF	90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	604.57	75.29
33 42 11 00-1333	LF	96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	641.68	79.99

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1334 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	681.51	84.70
33 42 11 00-1335 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	723.43	94.11
33 42 11 00-1336 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1258)		
Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1337 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1336)		
33 42 11 00-1338 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	71.09	10.59
33 42 11 00-1339 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	76.45	11.47
33 42 11 00-1340 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	92.03	12.35
33 42 11 00-1341 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	106.25	14.11
33 42 11 00-1342 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	119.17	15.87
33 42 11 00-1343 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	132.87	17.64
33 42 11 00-1344 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1336)		
33 42 11 00-1345 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	81.93	10.59
33 42 11 00-1346 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	94.63	11.47
33 42 11 00-1347 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	106.61	12.35
33 42 11 00-1348 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	122.61	14.11
33 42 11 00-1349 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	137.32	15.87
33 42 11 00-1350 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	152.87	17.64
33 42 11 00-1351 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	172.95	20.71
33 42 11 00-1352 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	199.53	24.47
33 42 11 00-1353 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	225.77	28.23
33 42 11 00-1354 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1336)		
33 42 11 00-1355 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	172.80	15.87
33 42 11 00-1356 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	191.82	17.64
33 42 11 00-1357 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	215.50	20.71
33 42 11 00-1358 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	249.21	24.47
33 42 11 00-1359 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	282.55	28.23
33 42 11 00-1360 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	390.28	32.00
33 42 11 00-1361 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	429.50	33.88
33 42 11 00-1362 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1336)		
33 42 11 00-1363 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	398.25	28.23
33 42 11 00-1364 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	461.61	32.00
33 42 11 00-1365 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	508.85	33.88
33 42 11 00-1366 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	591.31	41.41
33 42 11 00-1367 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	670.78	60.23
33 42 11 00-1368 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	724.13	65.87
33 42 11 00-1369 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	774.46	70.59
33 42 11 00-1370 Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-0486)		
33 42 11 00-1371 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1370)		
33 42 11 00-1372 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1371)		
33 42 11 00-1373 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	49.51	9.71
For Bituminous Coated Pipe, Add	5.06	
33 42 11 00-1374 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	56.00	10.59
For Bituminous Coated Pipe, Add	6.04	
33 42 11 00-1375 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	64.36	11.47
For Bituminous Coated Pipe, Add	7.19	
33 42 11 00-1376 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1371)		
33 42 11 00-1377 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	55.94	9.71
For Bituminous Coated Pipe, Add	5.04	
33 42 11 00-1378 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	62.17	10.59
For Bituminous Coated Pipe, Add	5.81	
33 42 11 00-1379 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	73.26	11.47
For Bituminous Coated Pipe, Add	7.14	
33 42 11 00-1380 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	82.67	12.35
For Bituminous Coated Pipe, Add	8.19	
33 42 11 00-1381 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	106.54	15.87
For Bituminous Coated Pipe, Add	10.36	
33 42 11 00-1382 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1371)		



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1383	LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	102.23 7.80	12.35
33 42 11 00-1384	LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	130.93 9.84	15.87
33 42 11 00-1385	LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	166.73 12.28	20.71
33 42 11 00-1386	LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	193.15 14.52	24.47
33 42 11 00-1387 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1371)			
33 42 11 00-1388	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	197.83 11.85	20.71
33 42 11 00-1389	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	229.49 13.98	24.47
33 42 11 00-1390	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	266.78 16.38	28.23
33 42 11 00-1391	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	298.69 18.23	32.00
33 42 11 00-1392 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1370)			
33 42 11 00-1393 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1392)			
33 42 11 00-1394	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	230.75	32.00
33 42 11 00-1395	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	252.64	33.88
33 42 11 00-1396	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	307.41	41.41
33 42 11 00-1397 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1392)			
33 42 11 00-1398	LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	282.51	32.00
33 42 11 00-1399	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	309.96	33.88
33 42 11 00-1400	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	370.02	41.41
33 42 11 00-1401	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	430.62	60.23
33 42 11 00-1402	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	464.46	65.87
33 42 11 00-1403	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	495.81	70.59
33 42 11 00-1404 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1392)			
33 42 11 00-1405	LF 66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	370.16	33.88
33 42 11 00-1406	LF 73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	433.54	41.41
33 42 11 00-1407	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	499.85	60.23
33 42 11 00-1408	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	539.42	65.87
33 42 11 00-1409	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	576.40	70.59
33 42 11 00-1410	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	613.37	75.29
33 42 11 00-1411 Corrugated Steel Pipe Fittings (33 42 11 00-0486) Note: Equivalent pipe-arch sizes are approximate.			
33 42 11 00-1412 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings (33 42 11 00-1411) Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.			
33 42 11 00-1413	EA Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	83.26	
33 42 11 00-1414	EA Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	104.41	
33 42 11 00-1415	EA Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	125.57	
33 42 11 00-1416	EA Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	148.05	
33 42 11 00-1417	EA Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	179.75	
33 42 11 00-1418	EA Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	211.46	
33 42 11 00-1419	EA Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	243.19	
33 42 11 00-1420	EA Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	274.90	
33 42 11 00-1421	EA Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	358.18	
33 42 11 00-1422	EA Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	426.89	
33 42 11 00-1423	EA Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	495.62	
33 42 11 00-1424	EA Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	641.01	
33 42 11 00-1425	EA Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	722.96	
33 42 11 00-1426	EA Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	807.54	
33 42 11 00-1427	EA Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	894.77	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1428 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,090.37	
33 42 11 00-1429 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,189.49	
33 42 11 00-1430 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,291.25	
33 42 11 00-1431 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,584.66	
33 42 11 00-1432 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,700.98	
33 42 11 00-1433 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,818.61	
33 42 11 00-1434 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,936.23	
33 42 11 00-1435 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,052.53	
33 42 11 00-1436 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,170.17	
33 42 11 00-1437 EA Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,294.18	
33 42 11 00-1438 EA Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,425.29	
33 42 11 00-1439 EA Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,563.87	

33 42 11 00-1440**Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1411)**

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1441 EA Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	108.38	
33 42 11 00-1442 EA Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	138.77	
33 42 11 00-1443 EA Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	169.15	
33 42 11 00-1444 EA Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	199.58	
33 42 11 00-1445 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	243.19	
33 42 11 00-1446 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	288.11	
33 42 11 00-1447 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	333.07	
33 42 11 00-1448 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	377.97	
33 42 11 00-1449 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	495.62	
33 42 11 00-1450 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	590.78	
33 42 11 00-1451 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	687.26	
33 42 11 00-1452 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	892.11	
33 42 11 00-1453 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,004.46	
33 42 11 00-1454 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,120.76	
33 42 11 00-1455 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,239.70	
33 42 11 00-1456 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,511.96	
33 42 11 00-1457 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,646.79	
33 42 11 00-1458 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,784.24	
33 42 11 00-1459 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,195.25	
33 42 11 00-1460 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,352.54	
33 42 11 00-1461 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,509.81	
33 42 11 00-1462 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,668.40	
33 42 11 00-1463 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,827.01	
33 42 11 00-1464 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,984.27	
33 42 11 00-1465 EA Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	3,150.30	
33 42 11 00-1466 EA Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,325.54	
33 42 11 00-1467 EA Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,510.53	

33 42 11 00-1468**Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1411)**

Note: Applied to pipe tasks.

33 42 11 00-1469 EA Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	41.65	
33 42 11 00-1470 EA Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	52.39	
33 42 11 00-1471 EA Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	65.90	
33 42 11 00-1472 EA Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	80.69	
33 42 11 00-1473 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	102.11	
33 42 11 00-1474 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	125.03	
33 42 11 00-1475 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	146.45	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1476 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	170.15	
33 42 11 00-1477 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	208.99	
33 42 11 00-1478 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	249.17	
33 42 11 00-1479 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	297.31	
33 42 11 00-1480 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	365.73	
33 42 11 00-1481 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	413.96	
33 42 11 00-1482 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	466.19	
33 42 11 00-1483 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	565.34	
33 42 11 00-1484 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	626.95	
33 42 11 00-1485 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	764.94	
33 42 11 00-1486 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	833.29	
33 42 11 00-1487 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	905.66	
33 42 11 00-1488 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	976.60	
33 42 11 00-1489 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,048.95	
33 42 11 00-1490 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,122.61	
33 42 11 00-1491 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,194.99	
33 42 11 00-1492 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,267.31	
33 42 11 00-1493 EA Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,344.01	
33 42 11 00-1494 EA Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,425.35	
33 42 11 00-1495 EA Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,511.61	

33 42 11 00-1496 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1411)

33 42 11 00-1497 EA 6" Coupling Band, Corrugated Metal Pipe Fitting	11.71	
For Bituminous Coated, Add	3.40	
33 42 11 00-1498 EA 8" Coupling Band, Corrugated Metal Pipe Fitting	15.55	
For Bituminous Coated, Add	4.51	
33 42 11 00-1499 EA 10" Coupling Band, Corrugated Metal Pipe Fitting	19.59	
For Bituminous Coated, Add	5.68	
33 42 11 00-1500 EA 12" Coupling Band, Corrugated Metal Pipe Fitting	32.52	
For Bituminous Coated, Add	9.43	
33 42 11 00-1501 EA 15" Coupling Band, Corrugated Metal Pipe Fitting	41.00	
For Bituminous Coated, Add	11.89	
33 42 11 00-1502 EA 18" Coupling Band, Corrugated Metal Pipe Fitting	60.16	
For Bituminous Coated, Add	17.45	
33 42 11 00-1503 EA 21" Coupling Band, Corrugated Metal Pipe Fitting	71.40	
For Bituminous Coated, Add	20.71	
33 42 11 00-1504 EA 24" Coupling Band, Corrugated Metal Pipe Fitting	80.96	
For Bituminous Coated, Add	23.48	
33 42 11 00-1505 EA 30" Coupling Band, Corrugated Metal Pipe Fitting	140.11	
For Bituminous Coated, Add	40.63	
33 42 11 00-1506 EA 36" Coupling Band, Corrugated Metal Pipe Fitting	224.16	
For Bituminous Coated, Add	53.80	
33 42 11 00-1507 EA 42" Coupling Band, Corrugated Metal Pipe Fitting	263.38	
For Bituminous Coated, Add	63.21	
33 42 11 00-1508 EA 48" Coupling Band, Corrugated Metal Pipe Fitting	295.12	
For Bituminous Coated, Add	70.83	
33 42 11 00-1509 EA 54" Coupling Band, Corrugated Metal Pipe Fitting	418.53	
For Bituminous Coated, Add	100.45	
33 42 11 00-1510 EA 60" Coupling Band, Corrugated Metal Pipe Fitting	598.63	
For Bituminous Coated, Add	107.75	
33 42 11 00-1511 EA 66" Coupling Band, Corrugated Metal Pipe Fitting	735.70	
For Bituminous Coated, Add	132.43	
33 42 11 00-1512 EA 72" Coupling Band, Corrugated Metal Pipe Fitting	945.06	
For Bituminous Coated, Add	132.31	
33 42 11 00-1513 EA 78" Coupling Band, Corrugated Metal Pipe Fitting	1,010.80	
For Bituminous Coated, Add	141.51	
33 42 11 00-1514 EA 84" Coupling Band, Corrugated Metal Pipe Fitting	1,076.91	
For Bituminous Coated, Add	150.77	
33 42 11 00-1515 EA 90" Coupling Band, Corrugated Metal Pipe Fitting	1,142.69	
For Bituminous Coated, Add	159.98	
33 42 11 00-1516 EA 96" Coupling Band, Corrugated Metal Pipe Fitting	1,208.64	
For Bituminous Coated, Add	169.21	
33 42 11 00-1517 EA 102" Coupling Band, Corrugated Metal Pipe Fitting	1,274.75	
For Bituminous Coated, Add	178.47	
33 42 11 00-1518 EA 108" Coupling Band, Corrugated Metal Pipe Fitting	1,340.56	
For Bituminous Coated, Add	187.68	
33 42 11 00-1519 EA 114" Coupling Band, Corrugated Metal Pipe Fitting	1,587.75	
For Bituminous Coated, Add	190.53	
33 42 11 00-1520 EA 120" Coupling Band, Corrugated Metal Pipe Fitting	1,472.08	
For Bituminous Coated, Add	176.65	
33 42 11 00-1521 EA 126" Coupling Band, Corrugated Metal Pipe Fitting	1,537.69	
For Bituminous Coated, Add	184.52	
33 42 11 00-1522 EA 132" Coupling Band, Corrugated Metal Pipe Fitting	1,603.77	
For Bituminous Coated, Add	192.45	
33 42 11 00-1523 EA 138" Coupling Band, Corrugated Metal Pipe Fitting	1,669.92	
For Bituminous Coated, Add	200.39	

33 42 13 Stormwater Culverts (33 42)

33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 13 13-0001	Precast Reinforced Concrete Box Culvert (33 42 13 13) Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0767 for crane lifting equipment.				
33 42 13 13-0002	LF 3' x 3' Precast Reinforced Concrete Box Culvert	447.59		47.06	
	For Each LF Of Cut-Off Section, Add	17.90			
33 42 13 13-0003	LF 4' x 2' Precast Reinforced Concrete Box Culvert	507.15		47.06	
	For Each LF Of Cut-Off Section, Add	20.29			
33 42 13 13-0004	LF 4' x 3' Precast Reinforced Concrete Box Culvert	603.36		47.06	
	For Each LF Of Cut-Off Section, Add	24.13			
33 42 13 13-0005	LF 5' x 3' Precast Reinforced Concrete Box Culvert	723.27		58.82	
	For Each LF Of Cut-Off Section, Add	28.93			
33 42 13 13-0006	LF 5' x 4' Precast Reinforced Concrete Box Culvert	741.59		58.82	
	For Each LF Of Cut-Off Section, Add	29.66			
33 42 13 13-0007	LF 5' x 5' Precast Reinforced Concrete Box Culvert	750.76		58.82	
	For Each LF Of Cut-Off Section, Add	30.03			
33 42 13 13-0008	LF 6' x 3' Precast Reinforced Concrete Box Culvert	773.82		61.17	
	For Each LF Of Cut-Off Section, Add	30.95			
33 42 13 13-0009	LF 6' x 4' Precast Reinforced Concrete Box Culvert	778.40		61.17	
	For Each LF Of Cut-Off Section, Add	31.14			
33 42 13 13-0010	LF 6' x 6' Precast Reinforced Concrete Box Culvert	860.87		61.17	
	For Each LF Of Cut-Off Section, Add	34.43			
33 42 13 13-0011	LF 7' x 4' Precast Reinforced Concrete Box Culvert	879.84		70.59	
	For Each LF Of Cut-Off Section, Add	35.19			
33 42 13 13-0012	LF 7' x 6' Precast Reinforced Concrete Box Culvert	931.03		95.99	
	For Each LF Of Cut-Off Section, Add	37.24			
33 42 13 13-0013	LF 8' x 2' Precast Reinforced Concrete Box Culvert	865.45		61.17	
	For Each LF Of Cut-Off Section, Add	34.62			
33 42 13 13-0014	LF 8' x 3' Precast Reinforced Concrete Box Culvert	884.42		70.59	
	For Each LF Of Cut-Off Section, Add	35.38			
33 42 13 13-0015	LF 8' x 4' Precast Reinforced Concrete Box Culvert	898.17		70.59	
	For Each LF Of Cut-Off Section, Add	35.93			
33 42 13 13-0016	LF 8' x 5' Precast Reinforced Concrete Box Culvert	1,079.35		94.11	
	For Each LF Of Cut-Off Section, Add	43.17			
33 42 13 13-0017	LF 8' x 6' Precast Reinforced Concrete Box Culvert	1,083.01		94.11	
	For Each LF Of Cut-Off Section, Add	43.32			
33 42 13 13-0018	LF 8' x 8' Precast Reinforced Concrete Box Culvert	1,191.80		117.63	
	For Each LF Of Cut-Off Section, Add	47.67			
33 42 13 13-0019	LF 9' x 4' Precast Reinforced Concrete Box Culvert	1,197.55		94.11	
	For Each LF Of Cut-Off Section, Add	47.90			
33 42 13 13-0020	LF 9' x 6' Precast Reinforced Concrete Box Culvert	1,258.69		117.63	
	For Each LF Of Cut-Off Section, Add	50.35			
33 42 13 13-0021	LF 10' x 3' Precast Reinforced Concrete Box Culvert	1,263.28		117.63	
	For Each LF Of Cut-Off Section, Add	50.53			
33 42 13 13-0022	LF 10' x 4' Precast Reinforced Concrete Box Culvert	1,547.33		117.63	
	For Each LF Of Cut-Off Section, Add	61.89			
33 42 13 13-0023	LF 10' x 5' Precast Reinforced Concrete Box Culvert	1,613.06		141.16	
	For Each LF Of Cut-Off Section, Add	64.52			
33 42 13 13-0024	LF 10' x 6' Precast Reinforced Concrete Box Culvert	1,631.38		141.16	
	For Each LF Of Cut-Off Section, Add	65.26			
33 42 13 13-0025	LF 10' x 7' Precast Reinforced Concrete Box Culvert	1,635.96		141.16	
	For Each LF Of Cut-Off Section, Add	65.44			
33 42 13 13-0026	LF 10' x 8' Precast Reinforced Concrete Box Culvert	1,642.38		141.16	
	For Each LF Of Cut-Off Section, Add	65.70			
33 42 13 13-0027	LF 12' x 3' Precast Reinforced Concrete Box Culvert	1,697.12		164.69	
	For Each LF Of Cut-Off Section, Add	67.88			
33 42 13 13-0028	LF 12' x 4' Precast Reinforced Concrete Box Culvert	1,697.12		164.69	
	For Each LF Of Cut-Off Section, Add	67.88			
33 42 13 13-0029	LF 12' x 6' Precast Reinforced Concrete Box Culvert	1,697.12		164.69	
	For Each LF Of Cut-Off Section, Add	67.88			
33 42 13 13-0030	LF 12' x 8' Precast Reinforced Concrete Box Culvert	1,697.12		164.69	
	For Each LF Of Cut-Off Section, Add	67.88			
33 42 13 13-0031	LF 16' x 10' Precast Reinforced Concrete Box Culvert	2,495.88		188.22	
	For Each LF Of Cut-Off Section, Add	99.84			
33 42 13 13-0032	LF 24' x 10' Precast Reinforced Concrete Box Culvert	3,503.81		188.22	
	For Each LF Of Cut-Off Section, Add	140.15			
33 42 13 13-0033	Precast Reinforced Concrete Box Culvert For Roadways (33 42 13 13) Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0767 for crane lifting equipment.				
33 42 13 13-0034	LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,149.01		47.06	
	For Each LF Of Cut-Off Section, Add	45.96			
33 42 13 13-0035	LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,237.02		47.06	
	For Each LF Of Cut-Off Section, Add	49.48			
33 42 13 13-0036	LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,392.79		47.06	
	For Each LF Of Cut-Off Section, Add	55.71			
33 42 13 13-0037	LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,572.21		58.82	
	For Each LF Of Cut-Off Section, Add	62.89			
33 42 13 13-0038	LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,727.97		58.82	
	For Each LF Of Cut-Off Section, Add	69.12			



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0039 LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,883.73 75.35	58.82
33 42 13 13-0040 LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,732.71 69.31	61.17
33 42 13 13-0041 LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,888.47 75.54	61.17
33 42 13 13-0042 LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,200.00 88.00	61.17
33 42 13 13-0043 LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,063.21 82.53	70.59
33 42 13 13-0044 LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,425.88 97.04	95.99
33 42 13 13-0045 LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,888.47 75.54	61.17
33 42 13 13-0046 LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,063.21 82.53	70.59
33 42 13 13-0047 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,218.97 88.76	70.59
33 42 13 13-0048 LF 8' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,422.09 96.88	94.11
33 42 13 13-0049 LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,577.86 103.11	94.11
33 42 13 13-0050 LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,936.78 117.47	117.63
33 42 13 13-0051 LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,603.35 104.13	94.11
33 42 13 13-0052 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,983.66 119.35	117.63
33 42 13 13-0053 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,949.76 117.99	117.63
33 42 13 13-0054 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,134.72 125.39	117.63
33 42 13 13-0055 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,367.06 134.68	141.16
33 42 13 13-0056 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,552.02 142.08	141.16
33 42 13 13-0057 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,737.00 149.48	141.16
33 42 13 13-0058 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,921.96 156.88	141.16
33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,906.43 156.26	164.69
33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,116.66 164.67	164.69
33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,537.21 181.49	164.69
33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,957.75 198.31	164.69
33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	5,939.69 237.59	188.22
33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	7,528.39 301.14	188.22

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)

33 42 23 00-0001 Headwalls (33 42 23)

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls (33 42 23 00-0001)

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0004 EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,411.90	639.21
33 42 23 00-0005 EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,779.04	681.82
33 42 23 00-0006 EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,323.37	893.10
33 42 23 00-0007 EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	3,628.74	1,278.42
33 42 23 00-0008 EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,041.75	1,704.57
33 42 23 00-0009 EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,138.12	2,246.80
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	8,459.27	3,099.18
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	10,056.94	3,652.59
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	12,098.94	4,446.73
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	14,520.58	5,382.82

33 42 23 00-0014 Precast Concrete Headwalls (33 42 23 00-0001)

33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall	757.14	158.76
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall	783.60	167.58
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall	862.63	190.51
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall	952.83	202.86
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall	1,277.98	238.13
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall	1,436.03	246.96
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall	1,886.07	290.42

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall	2,082.28	319.98
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall	2,297.90	338.79
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall	2,607.24	338.79
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall	3,150.60	423.49
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall	4,462.41	508.20
33 42 23 00-0027 Precast Concrete Wingwalls (33 42 23 00-0001)		
33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall	4,724.21	1,677.03
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall	5,006.54	1,863.37
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall	5,477.08	2,173.93
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall	5,947.63	2,484.50
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall	5,947.63	2,484.50
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall	6,135.85	2,608.72
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall	10,551.06	2,670.83
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall	10,833.38	2,857.17
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)		
33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate.....	3,945.26	658.77
33 42 26 End Sections for Stormwater Piping (33 42)		
33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)		
33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)		
33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004 EA 12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	242.18	61.74
33 42 26 16-0005 EA 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	280.75	66.15
33 42 26 16-0006 EA 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	327.41	70.56
33 42 26 16-0007 EA 21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	396.05	77.18
33 42 26 16-0008 EA 24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	438.63	83.79
33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010 EA 30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	705.01	94.81
33 42 26 16-0011 EA 36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	915.27	112.93
33 42 26 16-0012 EA 42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,401.82	131.76
33 42 26 16-0013 EA 48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,711.87	150.57
33 42 26 16-0014 EA 54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,039.80	188.22
33 42 26 16-0015 EA 60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,382.52	225.86
33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017 EA 12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	252.78	61.74
33 42 26 16-0018 EA 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	291.66	66.15
33 42 26 16-0019 EA 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	344.18	70.56
33 42 26 16-0020 EA 21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	416.18	77.18
33 42 26 16-0021 EA 24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	461.46	83.79
33 42 26 16-0022 EA 30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	775.10	94.81
33 42 26 16-0023 EA 36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,001.56	112.93
33 42 26 16-0024 EA 42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,591.85	131.76
33 42 26 16-0025 EA 48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,957.10	150.57
33 42 26 16-0026 EA 54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,287.79	188.22
33 42 26 16-0027 EA 60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,167.97	225.86
33 42 26 16-0028 EA 66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,600.84	338.79
33 42 26 16-0029 EA 72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,217.36	451.72
33 42 26 16-0030 EA 78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,593.36	484.67
33 42 26 16-0031 EA 84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,978.43	517.60
33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)		
33 42 26 16-0033 EA Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	31.44	
33 42 26 16-0034 EA Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	35.02	
33 42 26 16-0035 EA Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	39.42	
33 42 26 16-0036 EA Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	42.86	
33 42 26 16-0037 EA Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	47.96	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	83.62	
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	89.99	
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	123.14	
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	131.84	
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	160.95	
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	164.93	
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	176.18	
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	200.76	
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	224.53	
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	230.12	
33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)				
33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.				
33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	280.75	66.15
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	327.41	70.56
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	396.05	77.18
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	438.63	83.79
33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.				
33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	271.60	66.15
33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	310.48	70.56
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	347.58	77.18
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	392.35	83.79
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	573.05	94.81
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	835.23	112.93
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,297.50	131.76
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,642.35	150.57
33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.				
33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	276.24	66.15
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	320.58	70.56
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	363.36	77.18
33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	411.06	83.79
33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	604.86	94.81
33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	878.62	112.93
33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,366.92	131.76
33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,722.23	150.57
33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,072.62	188.22
33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,723.30	225.86
33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,802.39	338.79
33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	4,214.68	451.72
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section (33 42 26 16-0048)				
33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	35.02	
33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	39.42	
33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	42.86	
33 42 26 16-0080	EA	Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	47.96	
33 42 26 16-0081	EA	Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	83.62	
33 42 26 16-0082	EA	Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	89.99	
33 42 26 16-0083	EA	Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	123.14	
33 42 26 16-0084	EA	Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	137.09	
33 42 26 16-0085	EA	Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	160.95	
33 42 26 16-0086	EA	Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	167.02	
33 42 26 16-0087	EA	Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	193.21	
33 42 26 16-0088	EA	Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	219.51	
33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)				
33 42 26 16-0090 Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)				
33 42 26 16-0091	EA	12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	365.43	61.74
33 42 26 16-0092	EA	15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	421.09	66.15
33 42 26 16-0093	EA	18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	499.16	70.56
33 42 26 16-0094	EA	21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	618.70	77.18
33 42 26 16-0095	EA	24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	807.89	83.79
33 42 26 16-0096	EA	30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,211.19	94.81
33 42 26 16-0097	EA	36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,647.01	112.93
33 42 26 16-0098	EA	36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,050.26	112.93
33 42 26 16-0099	EA	42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,615.02	131.76
33 42 26 16-0100	EA	48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,732.43	150.57
33 42 26 16-0101	EA	54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	4,134.32	188.22
33 42 26 16-0102	EA	60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section.....	5,572.43	225.86

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,311.56	338.79
33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,382.10	451.72
33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,062.50	484.67
33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,507.43	517.60
33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,639.11	564.66
33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,884.99	611.71
33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)		
33 42 26 16-0110 EA Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	57.20	
33 42 26 16-0111 EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	60.66	
33 42 26 16-0112 EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	65.84	
33 42 26 16-0113 EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	74.13	
33 42 26 16-0114 EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	78.63	
33 42 26 16-0115 EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	101.80	
33 42 26 16-0116 EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	121.68	
33 42 26 16-0117 EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	128.41	
33 42 26 16-0118 EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	140.85	
33 42 26 16-0119 EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	159.21	
33 42 26 16-0120 EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	188.27	
33 42 26 16-0121 EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	263.44	
33 42 26 16-0122 EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	283.82	
33 42 26 16-0123 EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	359.73	
33 42 26 16-0124 EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	389.30	
33 42 26 16-0125 EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	414.81	
33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	441.62	
33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	468.75	
33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)		
33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	434.13	66.15
33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	530.93	70.56
33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	576.56	77.18
33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	622.15	83.79
33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	932.59	94.81
33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,665.54	112.93
33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,767.78	112.93
33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,362.85	131.76
33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,634.23	150.57
33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,160.98	188.22
33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	5,030.99	225.86
33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,427.97	338.79
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,845.79	451.72
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,631.51	484.67
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,052.88	517.60
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,957.70	564.66
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	11,608.37	611.71
33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)		
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	60.66	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	65.84	
33 42 26 16-0150 EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	69.42	
33 42 26 16-0151 EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	76.04	
33 42 26 16-0152 EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	86.99	
33 42 26 16-0153 EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	113.16	
33 42 26 16-0154 EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	123.90	
33 42 26 16-0155 EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	140.85	
33 42 26 16-0156 EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	159.21	
33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	188.27	
33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	239.56	
33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	303.81	
33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	409.72	
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	465.39	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	487.38	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	505.31	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	527.26	
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	559.30	66.15
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	720.70	70.56
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	882.71	77.18
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,056.24	83.79
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,117.31	94.81
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,461.15	112.93



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0173	EA	42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,312.48	131.76
33 42 26 16-0174		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165) Note: Includes nut and bolt set.		
33 42 26 16-0175	EA	3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	399.05	
33 42 26 16-0176	EA	3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	801.16	
33 42 26 16-0177	EA	3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	879.19	
33 42 26 16-0178	EA	3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	913.98	
33 42 26 16-0179		6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180	EA	15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	585.78	66.15
33 42 26 16-0181	EA	18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	768.32	70.56
33 42 26 16-0182	EA	21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,022.87	77.18
33 42 26 16-0183	EA	24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,201.91	83.79
33 42 26 16-0184	EA	30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,426.54	94.81
33 42 26 16-0185	EA	36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,734.09	112.93
33 42 26 16-0186	EA	42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,653.97	131.76
33 42 26 16-0187		3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165) Note: Includes nut and bolt set.		
33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	777.77	
33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	825.41	
33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	907.85	
33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	953.67	
33 42 26 16-0192		Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)		
33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	67.68	
33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	76.01	
33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	82.73	
33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	92.40	
33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	139.50	
33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	149.73	
33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	201.24	
33 42 26 16-0200		Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0201		4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	664.92	70.56
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	834.66	77.18
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	988.20	83.79
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,864.40	94.81
33 42 26 16-0206		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200) Note: Includes nut and bolt set.		
33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section	475.60	
33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section	867.53	
33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section	913.98	
33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section	1,345.82	
33 42 26 16-0211		Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section	68.41	
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section	77.64	
33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	84.64	
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	100.76	
33 42 26 19		Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)		
33 42 26 19-0001		Corrugated High Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)		
33 42 26 19-0002	EA	4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	58.23	20.47
33 42 26 19-0003	EA	6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	106.35	30.72
33 42 26 19-0004	EA	8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	143.46	38.39
33 42 26 19-0005	EA	10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	226.22	61.42
33 42 26 19-0006	EA	12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	267.55	69.10
33 42 26 19-0007	EA	15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	284.26	74.22
33 42 26 19-0008	EA	18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	336.80	81.90

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 19-0009 EA 24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	432.72	97.25
33 42 26 19-0010 EA 30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	866.61	110.05
33 42 26 19-0011 EA 36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	1,053.83	122.84
33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)		
33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)		
33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0003 EA 12" Diameter Pipe, Precast Concrete End Section	552.36	103.46
33 42 26 23-0004 EA 15" Diameter Pipe, Precast Concrete End Section	739.23	128.07
33 42 26 23-0005 EA 18" Diameter Pipe, Precast Concrete End Section	916.05	162.11
33 42 26 23-0006 EA 21" Diameter Pipe, Precast Concrete End Section	1,052.88	193.86
33 42 26 23-0007 EA 24" Diameter Pipe, Precast Concrete End Section	1,122.86	224.38
33 42 26 23-0008 EA 27" Diameter Pipe, Precast Concrete End Section	1,417.20	280.44
33 42 26 23-0009 EA 30" Diameter Pipe, Precast Concrete End Section	1,765.78	421.23
33 42 26 23-0010 EA 36" Diameter Pipe, Precast Concrete End Section	2,182.62	531.53
33 42 26 23-0011 EA 42" Diameter Pipe, Precast Concrete End Section	2,645.68	666.77
33 42 26 23-0012 EA 48" Diameter Pipe, Precast Concrete End Section	2,904.13	751.94
33 42 26 23-0013 EA 54" Diameter Pipe, Precast Concrete End Section	3,172.31	842.28
33 42 26 23-0014 EA 60" Diameter Pipe, Precast Concrete End Section	3,447.45	936.39
33 42 26 23-0015 EA 66" Diameter Pipe Precast Concrete End Section	3,397.13	751.90
33 42 26 23-0016 EA 72" Diameter Pipe Precast Concrete End Section	3,907.45	939.86
33 42 26 23-0017 EA 78" Diameter Pipe Precast Concrete End Section	4,657.87	1,174.82
33 42 26 23-0018 EA 84" Diameter Pipe Precast Concrete End Section	5,515.64	1,409.78
33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0020 EA 12" Diameter Pipe, Flared Precast Concrete End Section	690.46	109.64
33 42 26 23-0021 EA 15" Diameter Pipe, Flared Precast Concrete End Section	832.29	136.65
33 42 26 23-0022 EA 18" Diameter Pipe, Flared Precast Concrete End Section	1,011.95	172.98
33 42 26 23-0023 EA 21" Diameter Pipe, Flared Precast Concrete End Section	1,158.27	206.85
33 42 26 23-0024 EA 24" Diameter Pipe, Flared Precast Concrete End Section	1,410.59	239.41
33 42 26 23-0025 EA 27" Diameter Pipe, Flared Precast Concrete End Section	1,721.07	382.36
33 42 26 23-0026 EA 30" Diameter Pipe, Flared Precast Concrete End Section	1,818.04	526.45
33 42 26 23-0027 EA 36" Diameter Pipe, Flared Precast Concrete End Section	2,446.36	664.42
33 42 26 23-0028 EA 42" Diameter Pipe, Flared Precast Concrete End Section	2,943.32	833.63
33 42 26 23-0029 EA 48" Diameter Pipe, Flared Precast Concrete End Section	3,192.96	940.16
33 42 26 23-0030 EA 54" Diameter Pipe, Flared Precast Concrete End Section	3,571.67	1,052.99
33 42 26 23-0031 EA 60" Diameter Pipe, Flared Precast Concrete End Section	3,957.96	1,169.60
33 42 26 23-0032 EA 66" Diameter Pipe, Flared Precast Concrete End Section	4,612.84	1,347.56
33 42 26 23-0033 EA 72" Diameter Pipe, Flared Precast Concrete End Section	5,365.89	1,504.06
33 42 26 23-0034 EA 78" Diameter Pipe, Flared Precast Concrete End Section	6,081.84	1,692.00
33 42 26 23-0035 EA 84" Diameter Pipe, Flared Precast Concrete End Section	7,000.37	1,879.75
33 42 26 23-0036 Elliptical Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0037 EA 14" x 23" Elliptical Precast Concrete End Section	1,200.00	172.98
33 42 26 23-0038 EA 19" x 30" Elliptical Precast Concrete End Section	1,673.36	239.41
33 42 26 23-0039 EA 22" x 34" Elliptical Precast Concrete End Section	2,007.81	382.36
33 42 26 23-0040 EA 24" x 38" Elliptical Precast Concrete End Section	2,074.91	526.45
33 42 26 23-0041 EA 27" x 42" Elliptical Precast Concrete End Section	2,441.75	595.71
33 42 26 23-0042 EA 29" x 45" Elliptical Precast Concrete End Section	2,808.57	664.42
33 42 26 23-0043 EA 34" x 53" Elliptical Precast Concrete End Section	3,366.29	833.63
33 42 26 23-0044 EA 38" x 60" Elliptical Precast Concrete End Section	3,638.32	940.16
33 42 26 23-0045 EA 43" x 68" Elliptical Precast Concrete End Section	4,069.35	1,052.99
33 42 26 23-0046 EA 48" x 76" Elliptical Precast Concrete End Section	4,508.27	1,169.60
33 42 26 23-0047 Mitered Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0048 EA 12" Round Mitered Precast Concrete End Sections	428.74	109.64
33 42 26 23-0049 EA 15" Round Mitered Precast Concrete End Sections	468.27	136.65
33 42 26 23-0050 EA 18" Round Mitered Precast Concrete End Sections	565.16	172.98
33 42 26 23-0051 EA 24" Round Mitered Precast Concrete End Sections	817.64	239.41
33 42 26 23-0052 EA 12" x 18" Elliptical Mitered Precast Concrete End Sections	501.38	136.65
33 42 26 23-0053 EA 14" x 23" Elliptical Mitered Precast Concrete End Sections	624.05	172.98
33 42 26 23-0054 EA 19" x 30" Elliptical Mitered Precast Concrete End Sections	889.38	239.41
33 42 31 Stormwater Area Drains and Inlets (33 42)		
33 42 31 00-0001 Storm Drains (33 42 31)		
33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)		
Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.		
33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0005 EA 2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,832.76	314.40



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0006 EA 3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,197.95	368.38
33 42 31 00-0007 EA 4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,563.16	422.25
33 42 31 00-0008 EA 5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,928.35	476.23
33 42 31 00-0009 EA 6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,293.55	530.12
33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0011 EA 2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,456.41	312.50
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,015.67	416.68
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,811.06	568.19
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,672.05	662.88
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,306.63	757.59
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,646.13	340.91
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,670.16	473.49
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,438.85	615.53
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,124.62	710.24
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	6,489.84	909.10
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)		
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,227.19	380.12
33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,361.15	404.17
33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,581.02	434.10
33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,919.16	480.49
33 42 31 00-0028 EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,150.23	511.46
33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,298.37	536.37
33 42 31 00-0030 EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,529.61	567.33
33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,674.05	592.34
33 42 31 00-0032 EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,906.70	623.21
33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,053.44	648.21
33 42 31 00-0034 EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,284.59	679.17
33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	535.59	84.85
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,562.08	439.40
33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,731.09	470.27
33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,960.92	501.24
33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,356.33	555.12
33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,610.04	590.15
33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,780.65	619.23
33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,037.87	654.27
33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,208.46	683.34
33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,463.48	718.38
33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,634.89	747.45
33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,890.01	782.49
33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	611.28	97.82
33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,920.48	502.66
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,099.44	534.56
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,362.92	572.36
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,816.16	633.82
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,095.94	672.92
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,291.12	706.16
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,570.90	745.28
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,765.28	778.51
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,045.06	817.62
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,240.23	850.87
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,520.00	890.06
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	689.96	111.27
33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,369.04	582.86
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,577.41	615.82
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,868.20	658.44
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,385.27	728.32
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,695.12	772.45
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,920.47	810.61
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,231.12	854.74
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,456.48	893.00
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,766.33	937.13

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,990.28	975.29
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,302.33	1,019.42
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	787.84	127.47
33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,330.39	739.30
33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,906.32	816.96
33 42 31 00-0078 EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,242.63	865.35
33 42 31 00-0079 EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,493.01	907.77
33 42 31 00-0080 EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,825.72	956.07
33 42 31 00-0081 EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,077.51	998.50
33 42 31 00-0082 EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,412.42	1,046.89
33 42 31 00-0083 EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,660.60	1,089.31
33 42 31 00-0084 EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,996.91	1,137.61
33 42 31 00-0085 VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,247.29	142.24
33 42 31 00-0086 5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0087 EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,814.34	824.44
33 42 31 00-0088 EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,620.04	933.26
33 42 31 00-0089 EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,991.14	987.04
33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,276.31	1,035.24
33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,649.61	1,089.41
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,936.19	1,137.61
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,307.30	1,191.78
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,592.47	1,239.97
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,963.56	1,294.15
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	995.45	161.74
33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	5,324.37	913.55
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,212.03	1,032.97
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,610.15	1,091.49
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,921.55	1,144.04
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,318.25	1,202.57
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,631.85	1,255.13
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,027.77	1,313.65
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,339.96	1,366.21
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,738.07	1,424.73
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,092.31	178.12
33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,856.85	1,006.92
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,042.88	1,166.58
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,478.98	1,231.36
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,830.48	1,290.17
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,266.57	1,354.85
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,618.07	1,413.75
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,054.17	1,478.43
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,405.66	1,537.23
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,843.96	1,602.00
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,230.45	200.28
33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	6,413.39	1,104.37
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,710.88	1,278.61
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,174.57	1,347.93
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,551.54	1,411.18
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,016.54	1,480.41
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,393.50	1,543.76
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,857.18	1,612.99
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,235.56	1,676.34
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,699.14	1,745.57
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,337.44	218.18
33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	7,237.95	1,239.50
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,406.57	1,395.19
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,895.64	1,468.95
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,301.60	1,536.76
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,791.97	1,610.53
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,197.92	1,678.34
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,686.99	1,752.11
33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,092.94	1,819.90
33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,583.41	1,893.67



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 31 00-0140	VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,447.89		236.75	
33 42 31 00-0141	8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0142	EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	7,865.58		1,348.59	
33 42 31 00-0143	EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,127.53		1,516.31	
33 42 31 00-0144	EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,643.48		1,594.52	
33 42 31 00-0145	EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,077.02		1,666.88	
33 42 31 00-0146	EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,592.86		1,745.09	
33 42 31 00-0147	EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,023.59		1,817.44	
33 42 31 00-0148	EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,542.25		1,895.67	
33 42 31 00-0149	EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,975.78		1,968.01	
33 42 31 00-0150	EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,483.23		2,046.24	
33 42 31 00-0151	VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,561.46		255.78	
33 42 31 00-0152	Precast Concrete Catch Basins (33 42 31 00-0002) Note: Inside dimensions.				
33 42 31 00-0153	1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)				
33 42 31 00-0154	EA 4' Deep, 1'-6" Diameter Precast Catch Basins	719.64		191.90	
33 42 31 00-0155	EA 6' Deep, 1'-6" Diameter Precast Catch Basins	985.61		287.83	
33 42 31 00-0156	EA 8' Deep, 1'-6" Diameter Precast Catch Basins	1,235.97		374.19	
33 42 31 00-0157	EA 10' Deep, 1'-6" Diameter Precast Catch Basins	1,487.31		442.31	
33 42 31 00-0158	EA 12' Deep, 1'-6" Diameter Precast Catch Basins	1,818.32		561.28	
33 42 31 00-0159	EA 14' Deep, 1'-6" Diameter Precast Catch Basins	2,075.62		647.64	
33 42 31 00-0160	VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	143.32		43.17	
33 42 31 00-0161	2' Diameter Precast Catch Basins (33 42 31 00-0152)				
33 42 31 00-0162	EA 4' Deep, 2' Diameter Precast Catch Basin	823.96		213.48	
33 42 31 00-0163	EA 6' Deep, 2' Diameter Precast Catch Basin	1,122.07		316.62	
33 42 31 00-0164	EA 8' Deep, 2' Diameter Precast Catch Basin	1,402.08		417.36	
33 42 31 00-0165	EA 10' Deep, 2' Diameter Precast Catch Basin	1,682.73		486.92	
33 42 31 00-0166	EA 12' Deep, 2' Diameter Precast Catch Basin	2,067.76		623.64	
33 42 31 00-0167	EA 14' Deep, 2' Diameter Precast Catch Basin	2,357.50		719.59	
33 42 31 00-0168	VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	162.77		51.81	
33 42 31 00-0169	3' Diameter Precast Catch Basins (33 42 31 00-0152)				
33 42 31 00-0170	EA 4' Deep, 3' Diameter Precast Catch Basin	1,113.34		251.86	
33 42 31 00-0171	EA 6' Deep, 3' Diameter Precast Catch Basin	1,495.41		372.27	
33 42 31 00-0172	EA 8' Deep, 3' Diameter Precast Catch Basin	1,858.03		491.73	
33 42 31 00-0173	EA 10' Deep, 3' Diameter Precast Catch Basin	2,314.29		614.05	
33 42 31 00-0174	EA 12' Deep, 3' Diameter Precast Catch Basin	2,726.22		732.06	
33 42 31 00-0175	EA 14' Deep, 3' Diameter Precast Catch Basin	3,120.15		852.00	
33 42 31 00-0176	VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	212.73		60.86	
33 42 31 00-0177	4' Diameter Precast Catch Basins (33 42 31 00-0152)				
33 42 31 00-0178	EA 4' Deep, 4' Diameter Precast Catch Basin	1,367.47		280.16	
33 42 31 00-0179	EA 6' Deep, 4' Diameter Precast Catch Basin	1,762.08		383.78	
33 42 31 00-0180	EA 8' Deep, 4' Diameter Precast Catch Basin	2,307.64		575.68	
33 42 31 00-0181	EA 10' Deep, 4' Diameter Precast Catch Basin	2,879.15		719.59	
33 42 31 00-0182	EA 12' Deep, 4' Diameter Precast Catch Basin	3,393.10		863.51	
33 42 31 00-0183	EA 14' Deep, 4' Diameter Precast Catch Basin	3,885.78		1,007.44	
33 42 31 00-0184	VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	264.23		71.96	
33 42 31 00-0185	5' Diameter Precast Catch Basins (33 42 31 00-0152)				
33 42 31 00-0186	EA 4' Deep, 5' Diameter Precast Catch Basin	1,835.41		383.78	
33 42 31 00-0187	EA 6' Deep, 5' Diameter Precast Catch Basin	2,470.59		575.68	
33 42 31 00-0188	EA 8' Deep, 5' Diameter Precast Catch Basin	3,108.62		767.57	
33 42 31 00-0189	EA 10' Deep, 5' Diameter Precast Catch Basin	3,787.05		959.46	
33 42 31 00-0190	EA 12' Deep, 5' Diameter Precast Catch Basin	4,452.00		1,151.35	
33 42 31 00-0191	EA 14' Deep, 5' Diameter Precast Catch Basin	5,173.24		1,343.25	
33 42 31 00-0192	VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	351.42		95.95	
33 42 31 00-0193	6' Diameter Precast Catch Basins (33 42 31 00-0152)				
33 42 31 00-0194	EA 4' Deep, 6' Diameter Precast Catch Basin	2,674.29		575.68	
33 42 31 00-0195	EA 6' Deep, 6' Diameter Precast Catch Basin	3,556.06		863.51	
33 42 31 00-0196	EA 8' Deep, 6' Diameter Precast Catch Basin	4,509.73		1,151.35	
33 42 31 00-0197	EA 10' Deep, 6' Diameter Precast Catch Basin	5,616.79		1,439.18	
33 42 31 00-0198	EA 12' Deep, 6' Diameter Precast Catch Basin	6,683.12		1,727.03	
33 42 31 00-0199	EA 14' Deep, 6' Diameter Precast Catch Basin	7,716.20		2,014.86	
33 42 31 00-0200	VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	523.10		143.92	
33 42 31 00-0201	Precast Catch Basins Accessories (33 42 31 00-0152)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat.....	1,378.25	623.64
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin.....	810.65	76.76
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	422.38	81.55
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring.....	512.70	119.93
For Each Additional Inch In Height, Add	65.45	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring.....	602.68	143.92
For Each Additional Inch In Height, Add	76.44	
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring.....	703.21	167.90
For Each Additional Inch In Height, Add	89.25	
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring.....	855.11	239.86
For Each Additional Inch In Height, Add	102.59	
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....	575.64	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser.....	343.32	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	382.62	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	429.33	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	369.52	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	411.46	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	463.21	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	408.46	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	445.73	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	497.66	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	4,727.78	749.82
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,382.33	855.69
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	6,108.81	971.12
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	7,335.93	1,164.97
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	8,887.88	1,406.46
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)		
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
Note: Yard inlet.		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	654.63	67.16
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	770.13	81.55
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	885.64	95.95
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,002.34	110.94
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	168.27	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	269.38	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	380.08	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	490.79	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	601.49	
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	712.20	
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,351.51	188.22
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,521.46	217.63
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,691.41	247.04
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,861.49	276.52
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,031.57	306.00
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,201.66	335.48
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,371.76	364.95
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	329.79	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	525.25	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	573.25	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	732.34	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	891.45	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,043.21	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,213.16	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,383.11	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,553.20	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,723.27	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0261	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,893.36	
33 42 31 00-0262	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,063.46	
33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)				
33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)				
33 42 31 00-0265	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,307.96	207.05
33 42 31 00-0266	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,478.73	239.39
33 42 31 00-0267	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,649.50	271.74
33 42 31 00-0268	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,820.43	304.16
33 42 31 00-0269	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,991.36	336.60
33 42 31 00-0270	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,162.29	369.03
33 42 31 00-0271	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,333.21	401.45
33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)				
33 42 31 00-0273	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	327.56	
33 42 31 00-0274	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	515.83	
33 42 31 00-0275	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	564.79	
33 42 31 00-0276	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	720.74	
33 42 31 00-0277	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	876.68	
33 42 31 00-0278	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,031.69	
33 42 31 00-0279	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,199.87	
33 42 31 00-0280	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,367.12	
33 42 31 00-0281	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,535.31	
33 42 31 00-0282	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,702.55	
33 42 31 00-0283	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,870.73	
33 42 31 00-0284	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,038.92	
33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)				
33 42 31 00-0286 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)				
33 42 31 00-0287	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,551.93	225.86
33 42 31 00-0288	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,752.35	262.56
33 42 31 00-0289	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,952.78	300.21
33 42 31 00-0290	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,152.25	336.91
33 42 31 00-0291	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,352.68	374.56
33 42 31 00-0292	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,553.10	411.26
33 42 31 00-0293	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,752.57	447.96
33 42 31 00-0294 42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)				
33 42 31 00-0295	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	360.39	
33 42 31 00-0296	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	579.62	
33 42 31 00-0297	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	629.96	
33 42 31 00-0298	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	806.39	
33 42 31 00-0299	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	982.81	
33 42 31 00-0300	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,159.24	
33 42 31 00-0301	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,348.36	
33 42 31 00-0302	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,537.50	
33 42 31 00-0303	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,726.62	
33 42 31 00-0304	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,915.74	
33 42 31 00-0305	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,104.87	
33 42 31 00-0306	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,293.99	
33 42 31 00-0307 42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)				
33 42 31 00-0308	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	882.76	141.16
33 42 31 00-0309 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)				
33 42 31 00-0310 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)				
33 42 31 00-0311	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,189.31	250.95
33 42 31 00-0312	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,455.65	292.21
33 42 31 00-0313	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,721.98	333.46
33 42 31 00-0314	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,988.03	374.56
33 42 31 00-0315	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,254.07	415.66
33 42 31 00-0316	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,520.11	456.76
33 42 31 00-0317	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,786.15	497.86
33 42 31 00-0318 48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)				
33 42 31 00-0319	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	362.65	
33 42 31 00-0320	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	571.59	
33 42 31 00-0321	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	833.85	
33 42 31 00-0322	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,096.12	
33 42 31 00-0323	EA	30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,342.69	
33 42 31 00-0324	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,604.96	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,871.30	
33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,137.63	
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,403.68	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,669.72	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,935.76	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,201.80	
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab	959.32	152.93
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,528.72	316.21
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,822.91	369.04
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,117.12	421.86
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,410.73	474.41
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,704.35	526.94
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,997.95	579.49
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,291.57	632.03
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	399.34	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	614.22	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	908.17	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,202.10	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,469.69	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,763.63	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,057.82	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,352.02	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,645.64	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,939.25	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,232.86	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,526.48	
33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,066.78	171.28
33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,172.58	426.32
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,545.43	496.90
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,918.27	566.54
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,290.19	637.12
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,663.02	706.76
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,034.93	776.40
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,408.71	846.99
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	536.59	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	811.56	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,177.83	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,544.08	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,883.05	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,249.30	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,622.16	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,995.00	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,366.91	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,739.74	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,111.65	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,484.50	
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab	1,446.71	188.22
33 42 31 00-0381 Frames And Grates For Inlets (33 42 31 00-0226)		
33 42 31 00-0382 Inlet Frames And Grates (33 42 31 00-0381)		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate	339.22	44.10
Note: For type A, B, D, or E inlets.		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 42 31 00-0384	EA	47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT).....	439.48		44.10
Note: For type A, B, D, or E inlets.					
33 42 31 00-0385	EA	47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT).....	439.48		44.10
Note: Includes legend: Dump No Waste "Drains To Waterways".					
33 42 31 00-0386	EA	Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT).....	439.48		44.10
Note: Legend: Dump No Waste "Drains to Waterways"					
33 42 31 00-0387	EA	Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362).....	481.30		44.10
33 42 31 00-0388	EA	Type B Inlet Dirt Plate (US Foundry 5217 BK).....	360.40		88.20
33 42 31 00-0389	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	418.95		88.20
33 42 31 00-0390	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4).....	521.60		110.25
Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".					
33 42 31 00-0391	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	446.32		110.25
33 42 31 00-0392	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	454.69		110.25
33 42 31 00-0393	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	471.42		110.25
33 42 31 00-0394	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	488.14		110.25
33 42 31 00-0395	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	471.42		110.25
33 42 31 00-0396	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	488.14		110.25
33 42 31 00-0397	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	504.87		110.25
33 42 31 00-0398	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	722.33		110.25
33 42 31 00-0399	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	755.79		110.25
33 42 31 00-0400	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	789.24		110.25
33 42 31 00-0401	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	538.33		110.25
33 42 31 00-0402	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....	488.14		110.25
33 42 31 00-0403	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....	488.14		110.25
33 42 31 00-0404	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	989.90		110.25
33 42 31 00-0405	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	989.90		110.25
33 42 31 00-0406	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	409.83		121.27
33 42 31 00-0407	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648).....	568.74		121.27
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.					
33 42 31 00-0408	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848).....	568.74		121.27
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.					
33 42 31 00-0409	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048).....	627.29		121.27
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.					
33 42 31 00-0410	EA	Type B Inlet Frame (US Foundry 5216 FRM).....	719.29		121.27
33 42 31 00-0411	EA	Type D Inlet Frame (US Foundry 2999 FRM).....	618.92		121.27
33 42 31 00-0412	EA	Type B Inlet Frame (Campbell Foundry 2618-0202).....	878.20		121.27
33 42 31 00-0413	EA	Type D Inlet Frame (Campbell Foundry 2617-0002).....	777.84		121.27
33 42 31 00-0414	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340).....	1,005.18		176.40
33 42 31 00-0415	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342).....	1,607.38		176.40
33 42 31 00-0416	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340).....	980.09		176.40
33 42 31 00-0417	EA	Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,528.76		176.40
33 42 31 00-0418	EA	Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	1,641.59		264.59
33 42 31 00-0419	EA	Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	1,689.72		352.80
33 42 31 00-0420	EA	6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	1,851.45		352.80
33 42 31 00-0421	EA	8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	1,851.45		352.80
33 42 31 00-0422	EA	6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	1,642.35		352.80
33 42 31 00-0423	EA	8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	1,642.35		352.80
33 42 31 00-0424	EA	Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	1,918.36		352.80
33 42 31 00-0425	Catch Basin Frames And Covers (33 42 31 00-0001)				
33 42 31 00-0426	Cast Iron Frames And Covers (33 42 31 00-0425)				
33 42 31 00-0427	EA	18" Diameter Cast Iron Catch Basin Frame And Cover.....	411.34		95.95
33 42 31 00-0428	EA	22" Diameter Cast Iron Catch Basin Frame And Cover.....	506.99		108.42
33 42 31 00-0429	EA	24" Diameter Cast Iron Catch Basin Frame And Cover.....	562.50		112.26
33 42 31 00-0430	EA	26" Diameter Cast Iron Catch Basin Frame And Cover.....	629.41		130.49
33 42 31 00-0431	EA	28" Diameter Cast Iron Catch Basin Frame And Cover.....	723.00		148.71
33 42 31 00-0432	EA	32" Diameter Cast Iron Catch Basin Frame And Cover.....	1,098.72		155.43
33 42 31 00-0433	EA	16" x 16" Cast Iron Catch Basin Frame And Cover.....	616.20		118.02
33 42 31 00-0434	EA	18" x 24" Cast Iron Catch Basin Frame And Cover.....	786.41		136.24
33 42 31 00-0435	EA	20" x 27" Cast Iron Catch Basin Frame And Cover.....	878.19		142.00
33 42 31 00-0436	EA	23" x 23" Cast Iron Catch Basin Frame And Cover.....	837.08		142.00
33 42 31 00-0437	EA	24" x 24" Cast Iron Catch Basin Frame And Cover.....	866.25		147.75
33 42 31 00-0438	EA	26" x 26" Cast Iron Catch Basin Frame And Cover.....	925.57		153.52
33 42 31 00-0439	EA	24" x 36" Cast Iron Catch Basin Frame And Cover.....	1,094.70		165.03
33 42 31 00-0440	Area Yard Drain (33 42 31 00-0001)				
33 42 31 00-0441	Ductile Iron Grates (33 42 31 00-0440)				
Note: Not for traffic loading.					
33 42 31 00-0442	EA	8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe.....	167.00		38.39
33 42 31 00-0443	EA	10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe.....	205.33		40.95
33 42 31 00-0444	EA	12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	482.07		51.19
33 42 31 00-0445	EA	15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	575.99		61.42
33 42 31 00-0446	Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)				
33 42 31 00-0447	Type OS Concrete Drainage Inlet Structure (33 42 31 00-0446)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0448 EA 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,138.28	
33 42 31 00-0449 EA 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,650.73	
33 42 31 00-0450 EA 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,128.35	
33 42 31 00-0451 EA 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,571.16	
33 42 31 00-0452 EA 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,979.14	
33 42 31 00-0453 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	5,352.29	
33 42 31 00-0454 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,282.94	
33 42 31 00-0455 EA 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,496.55	
33 42 31 00-0456 EA 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,619.58	
33 42 31 00-0457 EA 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	10,653.92	
33 42 31 00-0458 EA 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	11,657.95	
33 42 31 00-0459 EA 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	12,585.86	
33 42 31 00-0460 EA 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	13,437.66	
33 42 31 00-0461 Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0462 EA 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,273.40	
33 42 31 00-0463 EA 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,754.00	
33 42 31 00-0464 EA 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,199.77	
33 42 31 00-0465 EA 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,610.72	
33 42 31 00-0466 EA 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,985.87	
33 42 31 00-0467 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,327.18	
33 42 31 00-0468 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,200.48	
33 42 31 00-0469 EA 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,386.42	
33 42 31 00-0470 EA 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,481.78	
33 42 31 00-0471 EA 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,487.49	
33 42 31 00-0472 EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,468.05	
33 42 31 00-0473 EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,372.47	
33 42 31 00-0474 EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,200.80	
33 42 31 00-0475 Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0476 EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,319.50	
33 42 31 00-0477 EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,770.94	
33 42 31 00-0478 EA 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,186.59	
33 42 31 00-0479 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,568.39	
33 42 31 00-0480 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,914.40	
33 42 31 00-0481 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,225.60	
33 42 31 00-0482 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,118.02	
33 42 31 00-0483 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,275.34	
33 42 31 00-0484 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,343.97	
33 42 31 00-0485 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,322.03	
33 42 31 00-0486 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,278.15	
33 42 31 00-0487 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,159.10	
33 42 31 00-0488 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,962.97	
33 42 31 00-0489 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0490 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,810.73	
33 42 31 00-0491 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,219.50	
33 42 31 00-0492 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,593.44	
33 42 31 00-0493 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,932.55	
33 42 31 00-0494 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,236.85	
33 42 31 00-0495 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,506.33	
33 42 31 00-0496 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,417.86	
33 42 31 00-0497 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,535.91	
33 42 31 00-0498 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,564.31	
33 42 31 00-0499 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,503.08	
33 42 31 00-0500 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,426.81	
33 42 31 00-0501 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,273.47	
33 42 31 00-0502 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,044.00	
33 42 31 00-0503 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0504 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,837.73	
33 42 31 00-0505 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,161.22	
33 42 31 00-0506 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,449.89	
33 42 31 00-0507 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,703.74	
33 42 31 00-0508 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,921.82	
33 42 31 00-0509 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	11,106.01	
33 42 31 00-0510 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,960.20	
33 42 31 00-0511 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,001.00	
33 42 31 00-0512 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,952.17	
33 42 31 00-0513 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,813.68	
33 42 31 00-0514 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,671.80	
33 42 31 00-0515 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,452.81	
33 42 31 00-0516 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,157.71	
33 42 31 00-0517 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		
33 42 31 00-0518	EA	3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,185.95	
33 42 31 00-0519	EA	4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,716.86	
33 42 31 00-0520	EA	5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,207.99	
33 42 31 00-0521	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,659.30	
33 42 31 00-0522	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,071.78	
33 42 31 00-0523	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,445.43	
33 42 31 00-0524	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,481.21	
33 42 31 00-0525	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,802.37	
33 42 31 00-0526	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,022.79	
33 42 31 00-0527	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,141.55	
33 42 31 00-0528	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,234.14	
33 42 31 00-0529	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,241.17	
33 42 31 00-0530	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,161.67	
33 42 31 00-0531	Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0446)			
33 42 31 00-0532	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,321.08	
33 42 31 00-0533	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,819.18	
33 42 31 00-0534	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,278.43	
33 42 31 00-0535	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,698.85	
33 42 31 00-0536	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,079.48	
33 42 31 00-0537	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,420.30	
33 42 31 00-0538	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,456.08	
33 42 31 00-0539	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,747.31	
33 42 31 00-0540	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,937.80	
33 42 31 00-0541	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,027.57	
33 42 31 00-0542	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,094.69	
33 42 31 00-0543	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,076.23	
33 42 31 00-0544	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,972.21	
33 42 31 00-0545	Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0446)			
33 42 31 00-0546	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,114.44	
33 42 31 00-0547	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,530.97	
33 42 31 00-0548	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,918.69	
33 42 31 00-0549	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,279.53	
33 42 31 00-0550	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,613.48	
33 42 31 00-0551	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,918.65	
33 42 31 00-0552	Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0446)			
33 42 31 00-0553	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,915.71	
33 42 31 00-0554	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,384.73	
33 42 31 00-0555	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,821.90	
33 42 31 00-0556	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,227.22	
33 42 31 00-0557	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,600.67	
33 42 31 00-0558	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,941.31	
33 42 31 00-0559	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,690.38	
33 42 31 00-0560	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,810.25	
33 42 31 00-0561	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,847.64	
33 42 31 00-0562	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,802.54	
33 42 31 00-0563	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,729.50	
33 42 31 00-0564	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,586.44	
33 42 31 00-0565	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,372.41	
33 42 31 00-0566	Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0446)			
33 42 31 00-0567	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,292.50	
33 42 31 00-0568	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,703.62	
33 42 31 00-0569	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,086.89	
33 42 31 00-0570	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,443.27	
33 42 31 00-0571	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,770.86	
33 42 31 00-0572	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,071.57	
33 42 31 00-0573	Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0446)			
33 42 31 00-0574	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,826.68	
33 42 31 00-0575	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,298.41	
33 42 31 00-0576	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,738.28	
33 42 31 00-0577	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,145.34	
33 42 31 00-0578	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,521.51	
33 42 31 00-0579	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,864.85	
33 42 31 00-0580	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,652.14	
33 42 31 00-0581	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,773.85	
33 42 31 00-0582	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,812.11	
33 42 31 00-0583	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,767.90	
33 42 31 00-0584	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,695.55	
33 42 31 00-0585	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,553.19	
33 42 31 00-0586	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,340.82	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0587 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0588	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,915.71	
33 42 31 00-0589	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,384.73	
33 42 31 00-0590	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,821.90	
33 42 31 00-0591	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,227.22	
33 42 31 00-0592	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,600.67	
33 42 31 00-0593	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,941.31	
33 42 31 00-0594	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,690.38	
33 42 31 00-0595	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,810.25	
33 42 31 00-0596	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,847.64	
33 42 31 00-0597	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,802.54	
33 42 31 00-0598	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,729.50	
33 42 31 00-0599	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,586.44	
33 42 31 00-0600	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,372.41	
33 42 31 00-0601 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0602	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,270.25	
33 42 31 00-0603	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,681.79	
33 42 31 00-0604	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,066.46	
33 42 31 00-0605	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,422.32	
33 42 31 00-0606	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,751.31	
33 42 31 00-0607	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,052.46	
33 42 31 00-0608 Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0609	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,314.76	
33 42 31 00-0610	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,725.43	
33 42 31 00-0611	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,108.27	
33 42 31 00-0612	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,463.27	
33 42 31 00-0613	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,790.41	
33 42 31 00-0614	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,090.68	
33 42 31 00-0615 Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0616	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,872.77	
33 42 31 00-0617	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,515.89	
33 42 31 00-0618	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,163.29	
33 42 31 00-0619	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,671.64	
33 42 31 00-0620	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,183.30	
33 42 31 00-0621	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,652.14	
33 42 31 00-0622 Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0623	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,696.29	
33 42 31 00-0624	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,396.79	
33 42 31 00-0625	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,048.34	
33 42 31 00-0626	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,651.89	
33 42 31 00-0627	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,206.47	
33 42 31 00-0628	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,713.04	
33 42 31 00-0629	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,322.28	
33 42 31 00-0630	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,973.46	
33 42 31 00-0631	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,501.40	
33 42 31 00-0632	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,907.05	
33 42 31 00-0633	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,273.63	
33 42 31 00-0634	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,535.46	
33 42 31 00-0635	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,692.58	
33 42 31 00-0636 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0637	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,850.51	
33 42 31 00-0638	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,494.06	
33 42 31 00-0639	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,094.77	
33 42 31 00-0640	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,651.65	
33 42 31 00-0641	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,163.76	
33 42 31 00-0642	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,633.02	
33 42 31 00-0643 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0644	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,852.09	
33 42 31 00-0645	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,547.63	
33 42 31 00-0646	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,195.16	
33 42 31 00-0647	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,793.71	
33 42 31 00-0648	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,344.29	
33 42 31 00-0649	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,846.85	
33 42 31 00-0650	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,341.40	
33 42 31 00-0651	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,992.14	
33 42 31 00-0652	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,519.65	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0653	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,923.90	
33 42 31 00-0654	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,290.12	
33 42 31 00-0655	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,551.62	
33 42 31 00-0656	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,708.38	
33 42 31 00-0657 Type GO Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0658	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,759.91	
33 42 31 00-0659	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,212.08	
33 42 31 00-0660	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,633.28	
33 42 31 00-0661	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,023.49	
33 42 31 00-0662	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,382.72	
33 42 31 00-0663	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,711.93	
33 42 31 00-0664	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,480.10	
33 42 31 00-0665	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,566.37	
33 42 31 00-0666	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,571.11	
33 42 31 00-0667	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,496.26	
33 42 31 00-0668	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,395.57	
33 42 31 00-0669	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,225.44	
33 42 31 00-0670	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,987.78	
33 42 31 00-0671 Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0672	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,605.68	
33 42 31 00-0673	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,200.17	
33 42 31 00-0674	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,754.09	
33 42 31 00-0675	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,268.38	
33 42 31 00-0676	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,741.13	
33 42 31 00-0677	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,174.25	
33 42 31 00-0678	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,334.29	
33 42 31 00-0679	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,734.52	
33 42 31 00-0680	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,030.98	
33 42 31 00-0681	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,224.62	
33 42 31 00-0682	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	13,383.69	
33 42 31 00-0683	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	14,454.56	
33 42 31 00-0684	EA	20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	15,437.22	
33 42 33 Stormwater Curbside Drains and Inlets (33 42)				
33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)				
33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)				
33 42 33 00-0003	EA	20" x 22" Cast Iron Curb Inlet Frame And Cover	751.00	112.26
33 42 33 00-0004	EA	22" x 24" Cast Iron Curb Inlet Frame And Cover	805.62	130.49
33 42 33 00-0005	EA	24" x 24" Cast Iron Curb Inlet Frame And Cover	832.55	130.49
33 42 33 00-0006	EA	27" x 27" Cast Iron Curb Inlet Frame And Cover	912.34	153.52
33 42 33 00-0007	EA	36" x 24" Cast Iron Curb Inlet Frame And Cover	909.59	164.06
33 42 36 Stormwater Trench Drains (33 42)				
33 42 36 00-0001 Modular Trench Drains (33 42 36)				
See CSI section 03 31 13 00-0011 for concrete.				
33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)				
Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.				
33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)				
33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)				
33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)				
33 42 36 00-0006	LF	4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C).....	57.66	15.35
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add			89.22	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add			178.44	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add			285.50	
For Type 304 Stainless Steel Top Veneer Frame, Add			71.37	
For Aluminum Veneer Bronze Anodized Frame, Add			35.69	
33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)				
33 42 36 00-0008	EA	Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	43.52	
33 42 36 00-0009	EA	No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	53.11	
33 42 36 00-0010	EA	No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	53.11	
33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)				
33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0013		6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0014	LF	6" Wide, High Density Polyethylene, Modular Trench Drain	183.33	15.35
		For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	89.22	
		For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	178.44	
		For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	285.50	
		For Type 304 Stainless Steel Top Veneer Frame, Add	71.37	
		For Aluminum Veneer Bronze Anodized Frame, Add	35.69	
33 42 36 00-0015		Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0016	EA	Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains	83.43	
33 42 36 00-0017	EA	No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	93.02	
33 42 36 00-0018	EA	No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	93.02	
33 42 36 00-0019		Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0020	EA	Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains	160.71	
33 42 36 00-0021	EA	Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains	160.71	
33 42 36 00-0022	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	761.71	
33 42 36 00-0023	EA	Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains	1,475.45	
33 42 36 00-0024	EA	Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	178.44	
33 42 36 00-0025		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0026		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0027	LF	6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	267.19	15.35
		For Black Acid Resistant Coated Frame, Add	67.81	
		For Galvanized Top Frame Assembly, Add	67.81	
		For Type 304 Stainless Steel Top Frame Assembly, Add	249.81	
33 42 36 00-0028		Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0029	EA	Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	90.56	
33 42 36 00-0030	EA	No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	100.15	
33 42 36 00-0031	EA	No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	100.15	
33 42 36 00-0032		Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0033	EA	Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	160.71	
33 42 36 00-0034	EA	Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	160.71	
33 42 36 00-0035	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	761.71	
33 42 36 00-0036	EA	Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,475.45	
33 42 36 00-0037	EA	Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	178.44	
33 42 36 00-0038		6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0039		6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0040	LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain	345.71	15.35
		For Black Acid Resistant Coated Frame, Add	67.81	
		For Galvanized Top Frame Assembly, Add	67.81	
		For Type 304 Stainless Steel Top Frame Assembly, Add	249.81	
33 42 36 00-0041		Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0042	EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	147.66	
33 42 36 00-0043	EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	157.25	
33 42 36 00-0044	EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	157.25	
33 42 36 00-0045		Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0046	EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	160.71	
33 42 36 00-0047	EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	160.71	
33 42 36 00-0048	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	761.71	
33 42 36 00-0049	EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	1,475.45	
33 42 36 00-0050	EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	178.44	
33 42 36 00-0051		6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0052		6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0053	LF	6" Wide, Polymer Concrete, Modular Trench Drain	388.95	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 36 00-0054	Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)				
33 42 36 00-0055	EA Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain.....	154.58			
33 42 36 00-0056	EA No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	188.60			
33 42 36 00-0057	EA No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	60.74			
33 42 36 00-0058	12" Wide, Modular Trench Drains (33 42 36 00-0002)				
33 42 36 00-0059	12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0058)				
33 42 36 00-0060	12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)				
33 42 36 00-0061	LF 12" Wide, High Density Polyethylene, Modular Trench Drain.....	345.56		21.10	
	For Acid Resistant Coated Top Frame, Add	92.79			
	For Galvanized Welded Frame Assembly, Add	97.25			
	For Type 304 Stainless Steel Top Frame, Add	556.72			
33 42 36 00-0062	Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)				
33 42 36 00-0063	EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	171.90			
33 42 36 00-0064	EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	184.70			
33 42 36 00-0065	EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	184.70			
33 42 36 00-0066	Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)				
33 42 36 00-0067	EA Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	287.33			
33 42 36 00-0068	EA Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	376.55			
33 42 36 00-0069	EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	1,501.28			
33 42 36 00-0070	EA Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	2,928.76			
33 42 36 00-0071	EA Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	356.87			
33 42 36 00-0072	12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0058)				
33 42 36 00-0073	12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)				
33 42 36 00-0074	LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain.....	434.78		21.10	
	For Acid Resistant Coated Top Frame, Add	92.79			
	For Galvanized Welded Frame Assembly, Add	97.25			
	For Type 304 Stainless Steel Top Frame, Add	556.72			
33 42 36 00-0075	Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)				
33 42 36 00-0076	EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	179.03			
33 42 36 00-0077	EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	191.83			
33 42 36 00-0078	EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	191.83			
33 42 36 00-0079	Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)				
33 42 36 00-0080	EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	287.33			
33 42 36 00-0081	EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	376.55			
33 42 36 00-0082	EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	1,501.28			
33 42 36 00-0083	EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	2,928.76			
33 42 36 00-0084	EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	356.87			
33 42 36 00-0085	12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0059)				
33 42 36 00-0086	12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)				
33 42 36 00-0087	LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain.....	613.21		21.10	
	For Acid Resistant Coated Top Frame, Add	92.79			
	For Galvanized Welded Frame Assembly, Add	97.25			
	For Type 304 Stainless Steel Top Frame, Add	556.72			
33 42 36 00-0088	Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)				
33 42 36 00-0089	EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	446.69			
33 42 36 00-0090	EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	459.49			
33 42 36 00-0091	EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	459.49			
33 42 36 00-0092	Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)				
33 42 36 00-0093	EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	287.33			
33 42 36 00-0094	EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	376.55			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,501.28	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	2,928.76	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	356.87	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain	521.68	
33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	262.55	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	452.07	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	105.99	
33 42 36 00-0105 23" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0105)		
33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain	484.53	28.78
For Acid Resistant Coated Frame, Add	139.18	
For Galvanized Frame Assembly, Add	139.18	
For Type 304 Stainless Steel Top Frame, Add	856.49	
33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains	548.00	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	799.03	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	799.03	
33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains	653.30	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	2,974.88	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains	5,829.84	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains	713.74	
33 42 36 00-0118 Modular Trench Drain Grates (33 42 36 00-0001)		
33 42 36 00-0119 4" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP).....	35.81	2.88
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	37.64	2.88
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	30.34	2.88
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS)	80.52	2.88
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	30.34	2.88
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	80.52	2.88
33 42 36 00-0126 6" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0127 LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	176.09	2.88
33 42 36 00-0128 LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	149.14	2.88
33 42 36 00-0129 LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	156.64	2.88
33 42 36 00-0130 LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	136.83	2.88
33 42 36 00-0131 LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	147.54	2.88
33 42 36 00-0132 LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	149.32	2.88
33 42 36 00-0133 LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	149.32	2.88
33 42 36 00-0134 LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	147.54	2.88
33 42 36 00-0135 LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	129.69	2.88
33 42 36 00-0136 LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	129.69	2.88
33 42 36 00-0137 LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	137.90	2.88
33 42 36 00-0138 LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	137.90	2.88
33 42 36 00-0139 LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	179.66	2.88
33 42 36 00-0140 LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	179.66	2.88
33 42 36 00-0141 LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	329.54	2.88
33 42 36 00-0142 LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	329.54	2.88
33 42 36 00-0143 LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate	918.38	2.88
33 42 36 00-0144 LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	122.56	2.88
33 42 36 00-0145 LF 6" Wide, Fiberglass, Modular Trench Drain Grate	265.31	2.88
33 42 36 00-0146 12" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate	487.05	3.12
33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	465.64	3.12
33 42 36 00-0149 LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	404.97	3.12



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0150	LF	12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	425.49	3.12
33 42 36 00-0151	LF	12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	367.50	3.12
33 42 36 00-0152	LF	12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	719.91	3.12
33 42 36 00-0153	LF	12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	719.91	3.12
33 42 36 00-0154	LF	12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	918.87	3.12
33 42 36 00-0155	LF	12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	918.87	3.12
33 42 36 00-0156	LF	12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	1,173.14	3.12
33 42 36 00-0157	LF	12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	1,173.14	3.12
33 42 36 00-0158	LF	12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	1,113.36	3.12
33 42 36 00-0159	LF	12" Wide, Fiberglass, Modular Trench Drain Grate	525.42	3.12
33 42 36 00-0160 23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)				
33 42 36 00-0161	LF	23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	769.45	3.35
33 42 36 00-0162	LF	23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	648.12	3.35
33 42 36 00-0163	LF	23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	1,004.99	3.35
33 42 36 00-0164	LF	23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate	744.47	3.35
33 46 Stormwater Management (33 40)				
33 46 23 Modular Buried Stormwater Storage Units (33 46)				
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)				
Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.				
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)				
33 46 23 00-0003	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	510.54	
33 46 23 00-0004	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	468.25	
33 46 23 00-0005	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	438.87	
33 46 23 00-0006	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	410.34	
33 46 23 00-0007	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	232.41	
33 46 23 00-0008	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	204.04	
33 46 23 00-0009	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	187.86	
33 46 23 00-0010	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	171.89	
33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)				
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	299.44	
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	272.52	
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	254.42	
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	237.92	
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	183.37	
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	162.25	
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	149.63	
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	138.38	
33 46 23 00-0020 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)				
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	849.58	
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	788.25	
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	740.62	
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	697.61	
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	721.63	
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	666.69	
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	625.14	
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	587.90	

33 Utilities**33 40 Stormwater Utilities****33 46 Stormwater Management**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0029		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)		
33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	528.88	
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	485.70	
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	455.43	
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	426.07	
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	232.41	
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	200.57	
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	187.86	
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	171.89	
33 46 23 00-0038		52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)		
33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	885.84	
33 46 23 00-0040	EA	>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	820.63	
33 46 23 00-0041	EA	>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	769.12	
33 46 23 00-0042	EA	>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	725.29	
33 46 23 00-0043	EA	Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,093.00	
33 46 23 00-0044	EA	>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,017.41	
33 46 23 00-0045	EA	>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	956.07	
33 46 23 00-0046	EA	>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	902.90	
33 46 23 00-0047		Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)		
33 46 23 00-0048	EA	Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	63.70	
33 46 23 00-0049	EA	Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	81.81	
33 46 23 00-0050	EA	Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	105.77	
33 46 23 00-0051	EA	Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	133.72	
33 46 23 00-0052	EA	12" x 6" Inspection Port Kit.....	607.95	
Note: (2712AG6IPKIT)				
33 46 53		Stormwater Leaching Pits (33 46)		
33 46 53 00-0001		Drainage Wells (33 46 53)		
Note: Includes augering hole.				
33 46 53 00-0002	LF	12" Diameter Drainage Well With Corrugated Metal Liner	27.32	
33 46 53 00-0003	LF	18" Diameter Drainage Well With Corrugated Metal Liner	33.26	
33 46 53 00-0004	LF	24" Diameter Drainage Well With Corrugated Metal Liner	44.33	
33 50		Hydrocarbon Utilities (33)		
33 52		Hydrocarbon Transmission and Distribution (33 50)		
33 52 16		Gas Hydrocarbon Piping (33 52)		
33 52 16 13		Steel Natural Gas Piping (33 52 16)		
33 52 16 13-0001		Gas Distribution Lines (33 52 16 13)		
Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.				
33 70		Electrical Utilities (33)		
33 71		Electrical Utility Transmission and Distribution (33 70)		
33 71 19		Electrical Underground Ducts, Ductbanks and Manholes (33 71)		
Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.				
33 71 19 13		Electrical Manholes and Handholes (33 71 19)		
33 71 19 13-0001		Electrical Handholes And Pull Boxes (33 71 19 13)		
33 71 19 13-0002		Electrical Pull Boxes (33 71 19 13-0001)		
See CSI section 33 05 63 00-0427 for handholes.				
33 71 19 13-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,613.13	
33 71 19 13-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	1,904.28	



		Utilities	33	CS
		Electrical Utilities	33 70	
		Electrical Utility Transmission and Distribution	33 71	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0005 EA 30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,180.14	
33 71 19 13-0006 EA 36" x 72" x 24", Electric Pull Boxes, Precast Concrete	3,256.71	
33 71 19 13-0007 EA 36" x 60" x 36", Electric Pull Boxes, Precast Concrete	3,443.82	
33 71 19 13-0008 EA 48" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,688.60	
33 71 19 13-0009 EA 48" x 60" x 48", Electric Pull Boxes, Precast Concrete	4,233.26	
33 71 19 13-0010 EA 18" x 28" x 34", Electric Pull Boxes, Precast Concrete	1,726.17	
33 71 19 13-0011 EA 14" x 20" x 12", Electric Pull Boxes, Precast Concrete	935.67	
33 71 19 13-0012 EA 18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,097.59	
33 71 19 13-0013 EA 24" x 36" x 12", Electric Pull Boxes, Precast Concrete	1,428.95	
33 71 19 13-0014 EA 24" x 3", Round Electric Pull Boxes, Precast Concrete	857.49	
33 71 19 13-0015 EA 30" x 3", Round Electric Pull Boxes, Precast Concrete	907.95	
33 71 19 13-0016 Electrical Pull Boxes (CALTRANS) (33 71 19 13-0001)		
33 71 19 13-0017 EA Body, CALTRANS 3-1/2 Precast Concrete Pull Box.....	118.40	
33 71 19 13-0018 EA Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	46.29	
33 71 19 13-0019 EA Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	71.58	
33 71 19 13-0020 EA Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	149.32	
33 71 19 13-0021 EA Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	229.92	
<i>For Galvanized Steel Cover, Add</i>		39.02
33 71 19 13-0022 EA 12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box.....	59.18	
33 71 19 13-0023 EA Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box.....	59.18	
33 71 19 13-0024 EA Body, CALTRANS 5 Precast Concrete Pull Box.....	169.73	
33 71 19 13-0025 EA Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	61.56	
33 71 19 13-0026 EA Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	86.84	
33 71 19 13-0027 EA Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box.....	304.33	
<i>For Galvanized Steel Cover, Add</i>		71.54
33 71 19 13-0028 EA 12" Extension, CALTRANS 5 Precast Concrete Pull Box.....	83.03	
33 71 19 13-0029 EA Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box.....	77.78	
33 71 19 13-0030 EA Body, CALTRANS 6 Precast Concrete Pull Box.....	184.99	
33 71 19 13-0031 EA Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	82.06	
33 71 19 13-0032 EA Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	107.35	
33 71 19 13-0033 EA Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box.....	416.88	
<i>For Galvanized Steel Cover, Add</i>		100.16
33 71 19 13-0034 EA 12" Extension, CALTRANS 6 Precast Concrete Pull Box.....	98.29	
33 71 19 13-0035 EA Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	92.57	
33 71 19 13-0036 EA 6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	126.91	
33 71 19 13-0037 EA Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	258.14	
33 71 19 13-0038 EA Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	365.37	
33 71 19 13-0039 EA 12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	117.37	
33 71 19 13-0040 EA Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	107.83	
33 71 19 13-0041 EA Body, CALTRANS 5-T Precast Concrete Pull Box	337.61	
33 71 19 13-0042 EA Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	527.53	
33 71 19 13-0043 EA 12" Extension, CALTRANS 5-T Precast Concrete Pull Box.....	140.26	
33 71 19 13-0044 EA Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	136.45	
33 71 19 13-0045 EA Body, CALTRANS 6-T Precast Concrete Pull Box	476.87	
33 71 19 13-0046 EA Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	737.38	
33 71 19 13-0047 EA 12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....	235.65	
33 71 19 13-0048 EA Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	184.14	
33 71 19 13-0049 Precast Concrete Box Extensions (33 71 19 13-0001)		
33 71 19 13-0050 EA 14" x 20" x 12", Precast Concrete Extension	256.76	
33 71 19 13-0051 EA 18" x 28" x 12", Precast Concrete Extension	322.17	
33 71 19 13-0052 EA 24" x 36" x 12", Precast Concrete Extension	417.56	
33 71 19 13-0053 EA 30" x 48" x 12", Precast Concrete Extension	506.23	
33 71 19 13-0054 EA 36" x 60" x 12", Precast Concrete Extension	841.78	
33 71 19 13-0055 EA 36" x 72" x 12", Precast Concrete Extension	1,146.14	
33 71 19 13-0056 EA 48" x 48" x 12", Precast Concrete Extension	1,325.17	
33 71 19 13-0057 EA 48" x 60" x 12", Precast Concrete Extension	1,628.95	
33 71 19 13-0058 Manhole Accessories (33 71 19 13)		
33 71 19 13-0059 EA 6" Precast Grade Ring Riser Casting.....	601.84	
33 71 19 13-0060 EA 12" Precast Grade Ring Riser Casting.....	651.76	
33 71 19 13-0061 EA 36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D)	2,147.84	
33 71 19 13-0062 EA 42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	2,796.75	
33 71 19 13-0063 EA Cast Iron Adjusting Ring (NEENAH #R-1979)	933.85	
33 71 19 13-0064 EA Cast Iron Frame And Cover (NEENAH #R-1640-B)	1,176.55	
33 71 19 23 Trenched Electrical Underground Duct and Ductbanks (33 71 19)		
33 71 19 23-0001 Underground Cable Protection Slab And Marking (33 71 19 23)		
33 71 19 23-0002 EA 24" x 12", 2" Concrete, Underground Cable Protection	6.54	

33	33	Utilities
	33 70	Electrical Utilities
	33 71	Electrical Utility Transmission and Distribution



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

END OF SECTION 33



Transportation		34
Operation and Maintenance of Transportation		34 01
Operation and Maintenance of Railways		34 01 23

34

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 Transportation

34 01 Operation and Maintenance of Transportation ⁽³⁴⁾

34 01 23 Operation and Maintenance of Railways ^(34 01)

34 01 23 33 Track Realignment ^(34 01 23)

34 01 23 33-0001 Realign Railroad Track ^(34 01 23 33)

34 01 23 33-0002	LF	Removal Of Track Rails And Ties And Re-Install Including New Bolts And Spikes	88.94	
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-install Including New Bolts And Spikes.....	4,352.08	

34 10 Guideways/Railways ⁽³⁴⁾

34 11 Rail Tracks ^(34 10)

34 11 93 Track Appurtenances and Accessories ^(34 11)

34 11 93 00-0001 Railroad Crossings ^(34 11 93)

34 11 93 00-0002 Asphalt Railroad Crossings ^(34 11 93 00-0001)

Note: Based on 8" thickness x 20' including track and approach.

34 11 93 00-0003	EA	8" Asphalt Railroad Crossing, 12' Roadway 6 CY.....	2,032.83	322.61
34 11 93 00-0004	EA	8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY.....	2,390.38	365.63
34 11 93 00-0005	EA	8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY.....	2,821.78	430.15
34 11 93 00-0006	EA	8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY.....	3,351.50	516.18
34 11 93 00-0007	EA	8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY.....	4,053.25	645.22

34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts ^(34 11 93 00-0001)

Note: Based on 6" thickness x standard rail width gauge.

34 11 93 00-0009	EA	Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge.....	6,896.71	152.89
34 11 93 00-0010	EA	Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge.....	8,620.87	185.66
34 11 93 00-0011	EA	Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge.....	10,339.65	229.34
34 11 93 00-0012	EA	Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge.....	12,059.80	262.10
34 11 93 00-0013	EA	Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge.....	13,779.07	305.79

34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers ^(34 11 93 00-0001)

Note: Based on 3' x 8'-6" sections.

34 11 93 00-0015	EA	Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers.....	2,885.76	152.89
34 11 93 00-0016	EA	Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers.....	3,431.40	185.66
34 11 93 00-0017	EA	Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers.....	3,971.64	229.34
34 11 93 00-0018	EA	Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers.....	4,513.26	262.10
34 11 93 00-0019	EA	Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers.....	5,053.99	305.79

34 11 93 00-0020 Railroad Trackage Demolition ^(34 11 93)

34 11 93 00-0021	CY	Removal Of Railroad Track Ballast.....	8.46	
34 11 93 00-0022	LF	Removal Of Railroad Track Rail And Spikes	21.17	
34 11 93 00-0023	EA	Removal And Disposal Of Concrete Post Footings	125.97	
34 11 93 00-0024	EA	Backfill Holes From Post Removal.....	52.51	

34 40 Transportation Signaling and Control Equipment ⁽³⁴⁾

34 41 Roadway Signaling and Control Equipment ^(34 40)

34 41 13 Traffic Signals ^(34 41)

34 41 13 00-0001 Traffic Signals ^(34 41 13)

34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern.....	5,584.45	907.86

34 41 13 00-0003 Traffic Detector Induction Loop ^(34 41 13)

34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop.....	403.03	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop.....	502.48	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop.....	582.32	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop	493.28	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0008 EA 6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	856.12	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0009 EA 6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,037.01	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0010 EA 6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	1,119.62	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0011 EA 6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,344.39	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0012 EA 6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,465.73	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0013 EA 6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,549.95	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0014 EA 6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,698.15	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0015 LF In Pavement, Lead Wire For Traffic Signal Detector.....	7.18	
Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.		
34 41 13 00-0016 LF In Earthwork, Lead Wire For Traffic Signal Detector.....	3.46	
Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.		
34 41 13 00-0017 EA 2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	244.94	
34 41 13 00-0018 EA 4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100)	661.64	
34 41 13 00-0019 EA 2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100)	417.14	
34 41 13 00-0020 Overhead Traffic Signals (34 41 13)		
34 41 13 00-0021 EA Vehicle Signal Face, LED, 1 - 12" Section	571.67	192.92
34 41 13 00-0022 EA Vehicle Signal Face, LED, 2 - 12" Sections	910.86	272.36
34 41 13 00-0023 EA Vehicle Signal Face, LED, 3 - 12" Sections	1,254.53	332.89
34 41 13 00-0024 EA Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank.....	1,199.33	332.89
34 41 13 00-0025 EA Vehicle Signal Face, LED, 4 - 12" Sections	1,569.38	370.71
34 41 13 00-0026 EA Vehicle Signal Face, LED, 5 - 12" Sections	1,853.95	393.41
34 41 13 00-0027 EA Vehicle Signal Face, LED, 5 - 12" Sections, Cluster.....	1,960.67	393.41
34 41 13 00-0028 EA Vehicle Signal Face, LED, 1 - 8" Section.....	544.07	192.92
34 41 13 00-0029 EA Vehicle Signal Face, LED, 2 - 8" Sections	855.66	272.36
34 41 13 00-0030 EA Vehicle Signal Face, LED, 3 - 8" Sections	1,120.22	332.89
34 41 13 00-0031 EA Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section.....	1,188.29	332.89
34 41 13 00-0032 EA Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections	1,451.62	370.71
34 41 13 00-0033 EA Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section.....	1,412.98	370.71
34 41 13 00-0034 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections	1,651.56	393.41
34 41 13 00-0035 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster.....	1,738.04	393.41
34 41 13 00-0036 EA Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed	2,395.27	332.89
34 41 13 00-0037 EA Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed	3,102.01	370.71
34 41 13 00-0038 EA Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed	4,006.63	393.41
34 41 13 00-0039 EA Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed.....	4,328.62	393.41
34 41 13 00-0040 EA Bracket Signal Mounting Assembly.....	534.45	151.31
34 41 13 00-0041 EA Mast Arm Signal Mounting Assembly	962.19	302.62
34 41 13 00-0042 EA Top Pole Signal Mounting Assembly	341.03	113.48
34 41 13 00-0043 EA Pedestrian Signal Head.....	950.71	226.96
34 41 13 00-0044 EA Pedestrian Signal Insert.....	574.70	113.48
34 41 13 00-0045 EA Audible Pedestrian Signal.....	1,165.37	
34 41 13 00-0046 EA Junction Box, Pole Or Post Mounted	440.19	
34 41 13 00-0047 EA Pedestrian Push Button	430.85	
34 41 13 00-0048 EA Illuminated Sign, Bracket Mounted, Symbolic.....	2,978.87	
34 41 13 00-0049 EA Illuminated Sign, Mast Arm Mounted, Symbolic.....	3,133.53	
34 41 13 00-0050 EA Sign, Message, "BLANK OUT", Bracket Mounted	3,243.10	
34 41 13 00-0051 EA Sign, Message, "BLANK OUT", Mast Arm Mounted	3,465.49	
34 41 13 00-0052 EA Sign, Fiber Optic, Bracket Mounted	3,642.88	
34 41 13 00-0053 EA Sign, Fiber Optic, Mast Arm Mounted	3,870.08	
34 41 13 00-0054 EA 16" Pedestal With Base Plate And Cover	1,542.83	211.24
34 41 13 00-0055 EA 30" Type 15TS Signal And Lighting Standard	5,558.32	
Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0056 EA 35" Type 21TS Signal And Lighting Standard	6,364.38	
Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0057 EA 17" Type 18-2-100 Signal And Lighting Standard	3,239.01	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0058 EA 17" Type 18-3-100 Signal And Lighting Standard.....	3,550.23	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0059 EA 17" Type 18-4-100 Or 23-4-100 Signal And Lighting Standard	3,669.53	
Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41 13 00-0060 EA 17" Type 23-3-100 Signal And Lighting Standard.....	3,669.53	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0061 EA 17" Type 23-4-100 Signal And Lighting Standard	3,732.16	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0062 EA 17" Type 27-3-100 Signal And Lighting Standard	4,045.34	
Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0063	EA	17' Type 27-4-100 Signal And Lighting Standard..... Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	4,117.36	
34 41 13 00-0064	EA	17' Type 28-5-100 Signal And Lighting Standard..... Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.	4,265.02	
34 41 13 00-0065	EA	17' Type 60-5-100 Signal And Lighting Standard..... Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.	4,497.58	
34 41 13 00-0066	EA	18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.	3,422.09	
34 41 13 00-0067	EA	30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.	5,885.10	
34 41 13 00-0068	EA	30' Type 19-2-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.	6,538.66	
34 41 13 00-0069	EA	30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard..... Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.	6,789.19	
34 41 13 00-0070	EA	30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard..... Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.	6,789.19	
34 41 13 00-0071	EA	30' Type 26-3-100 Signal And Lighting Standard..... Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.	7,578.36	
34 41 13 00-0072	EA	30' Type 26-4-100 Signal And Lighting Standard..... Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.	7,880.89	
34 41 13 00-0073	EA	30' Type 29-5-100 Signal And Lighting Standard..... Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.	8,198.52	
34 41 13 00-0074	EA	30' Type 61-5-100 Signal And Lighting Standard..... Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.	8,698.82	
34 41 13 00-0075	EA	35' Type 17A-2-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.	6,829.57	
34 41 13 00-0076	EA	35' Type 19A-2-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.	7,592.06	
34 41 13 00-0077	EA	35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard..... Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.	7,884.36	
34 41 13 00-0078	EA	35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard..... Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.	7,884.36	
34 41 13 00-0079	EA	35' Type 26A-3-100 Signal And Lighting Standard..... Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	8,805.05	
34 41 13 00-0080	EA	35' Type 26A-4-100 Signal And Lighting Standard..... Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	9,157.99	
34 41 13 00-0081	EA	35' Type 29A-5-100 Signal And Lighting Standard..... Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.	9,528.57	
34 41 13 00-0082	EA	35' Type 61A-5-100 Signal And Lighting Standard..... Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.	10,112.24	
34 41 13 00-0083	EA	15' Steel Straight Mast Arm, MONOTUBE.....	2,542.13	
34 41 13 00-0084	EA	20' Steel Straight Mast Arm, MONOTUBE.....	2,676.32	
34 41 13 00-0085	EA	25' Steel Straight Mast Arm, MONOTUBE.....	2,844.14	
34 41 13 00-0086	EA	30' Steel Straight Mast Arm, MONOTUBE.....	3,692.04	
34 41 13 00-0087	EA	35' Steel Straight Mast Arm, MONOTUBE.....	4,380.14	
34 41 13 00-0088	EA	40' Steel Straight Mast Arm, MONOTUBE.....	4,682.74	
34 41 13 00-0089	EA	45' Steel Straight Mast Arm, MONOTUBE.....	5,175.64	
34 41 13 00-0090	EA	50' Steel Straight Mast Arm, MONOTUBE.....	5,869.67	
34 41 13 00-0091	EA	55' Steel Straight Mast Arm, MONOTUBE.....	6,738.11	
34 41 13 00-0092	EA	60' Steel Straight Mast Arm, MONOTUBE.....	7,368.63	
34 41 13 00-0093	EA	65' Steel Straight Mast Arm, MONOTUBE.....	8,527.99	
34 41 13 00-0094	EA	4' Steel Curved Luminaire Mast Arm.....	894.88	
34 41 13 00-0095	EA	6' Steel Curved Luminaire Mast Arm.....	1,154.21	
		For High Rise Arm, Add	77.81	
34 41 13 00-0096	EA	8' Steel Curved Luminaire Mast Arm.....	1,443.79	
34 41 13 00-0097	EA	10' Steel Curved Luminaire Mast Arm.....	2,060.78	
		For High Rise Arm, Add	114.53	
34 41 13 00-0098	EA	12' Steel Curved Luminaire Mast Arm.....	2,239.56	
		For High Rise Arm, Add	135.07	
34 41 13 00-0099	EA	15' Steel Curved Luminaire Mast Arm.....	2,301.45	
		For High Rise Arm, Add	150.63	
34 41 13 00-0100	EA	15' Tubular Aluminum Post.....	965.25	
34 41 13 00-0101	EA	17' Tubular Aluminum Post.....	1,037.63	
34 41 13 00-0102	EA	20' Tubular Aluminum Post.....	1,163.24	
34 41 13 00-0103	EA	CUT-OFF POLE AND CAPPED.....	200.41	
34 41 13 00-0104	EA	PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	58.58	
34 41 13 00-0105	EA	PAINT EXISTING TS POST COMPLETE.....	284.17	
34 41 13 00-0106	EA	1 Channel Loop Detector Amplifier.....	1,196.96	
34 41 13 00-0107	EA	4 Channel Loop Detector Amplifier.....	2,187.74	
34 41 13 00-0108	EA	FLASHING BEACON WITH DOWNLIGHT.....	1,968.18	
34 41 13 00-0109	EA	Flashing Beacon, Bracket Mounted.....	789.21	
34 41 13 00-0110	EA	Flashing Beacon, Mast Arm Mounted.....	789.21	
34 41 13 00-0111	EA	Flashing Beacon, Solar Powered, Bracket Mounted.....	15,845.88	
34 41 13 00-0112	EA	Service Equipment Enclosure, Type III-AF.....	1,248.95	
34 41 13 00-0113	EA	12", 3 Section Signal, Mast Arm Mounted.....	1,717.92	
34 41 13 00-0114	EA	8", 3 Section Signal, Mast Arm Mounted.....	1,534.99	
34 41 13 00-0115	EA	12" FCV Visor.....	92.61	
34 41 13 00-0116	EA	8" FCV Visor.....	68.08	
34 41 13 00-0117	EA	Eggcrate Visor.....	89.58	
34 41 13 00-0118	EA	Pedestrian H/M.....	1,072.29	
34 41 13 00-0119	EA	Pedestrian Audio.....	1,162.68	
34 41 13 00-0120	EA	Adjustable Pushbutton.....	312.62	
34 41 13 00-0121	EA	ADA Cap And Switch.....	380.16	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0122 EA 3 Section 12" Backplate.....	153.13	
34 41 13 00-0123 EA 3 Section 12" MAS Mount Backplate.....	226.05	
34 41 13 00-0124 EA 3 Section 8" Backplate.....	124.95	
34 41 13 00-0125 EA 12" Red LED Lenses.....	256.90	
34 41 13 00-0126 EA 12" Amber LED Lenses.....	273.78	
34 41 13 00-0127 EA 12" Green LED Lenses.....	459.01	
34 41 13 00-0128 EA 12" Red Arrow.....	255.54	
34 41 13 00-0129 EA 12" Amber Arrow.....	243.17	
34 41 13 00-0130 EA 12" Green Arrow.....	351.51	
34 41 13 00-0131 EA 8" Red.....	253.04	
34 41 13 00-0132 EA 8" Amber.....	243.90	
34 41 13 00-0133 EA 8" Green.....	288.96	
34 41 13 00-0134 EA Hand/Man.....	431.96	
34 41 13 00-0135 EA Frameworks, 8" TV-1-T.....	527.60	
34 41 13 00-0136 EA Frameworks, 8" TV-2-T.....	593.19	
34 41 13 00-0137 EA Frameworks, MAT MT.....	161.63	
34 41 13 00-0138 EA Frameworks, MAS MT.....	174.75	
34 41 13 00-0139 EA Frameworks, 3W PT TC.....	323.55	
34 41 13 00-0140 EA Frameworks, 2W PT TC.....	350.46	
34 41 13 00-0141 EA Frameworks, 2W SM TC.....	332.97	
34 41 13 00-0142 EA Frameworks, SV-1.....	223.86	
34 41 13 00-0143 EA Frameworks, TV-1.....	217.30	
34 41 13 00-0144 EA Type III Service Pedestal.....	3,984.77	
34 41 13 00-0145 EA Single Fuse Holder.....	43.11	
34 41 13 00-0146 EA Double Fuse Holder.....	98.18	
34 41 13 00-0147 EA Pullbox, 1-1/2" x 20" x 14".....	100.30	
34 41 13 00-0148 EA Pullbox, 5" x 28" x 18".....	133.35	
34 41 13 00-0149 EA Pullbox, 6" x 36" x 23".....	172.60	
34 41 13 00-0150 EA Pullbox Lids, FL9D.....	97.57	
34 41 13 00-0151 EA Pullbox Lids, FL30D.....	177.98	
34 41 13 00-0152 EA Pullbox Lids, FL36D.....	56.56	
34 41 13 00-0153 EA LED Enhanced Pedestrian Crossing Symbol Sign..... Note: 2 required per system.	1,707.06	126.49
34 41 13 00-0154 EA 42" Height, 8-1/2" Diameter Automatic Bollard Activation System..... Note: 4 required per system.	5,030.72	758.96
34 41 13 00-0155 EA Power Control Unit With Enclosure (Solar)..... Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).	16,583.12	505.97
34 41 13 00-0156 EA Power Control Unit With Enclosure (A/C).....	10,728.75	505.97
34 41 13 00-0157 EA Push Button Assembly With Sign.....	1,052.54	252.98
34 41 13 00-0158 EA Advanced Warning Signs.....	1,951.34	252.98
34 41 13 00-0159 EA 14' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	2,927.79	
34 41 13 00-0160 EA 21' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	4,214.17	
34 41 13 00-0161 EA 22' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm and luminaire arm.	4,359.40	
34 41 13 00-0162 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm..... Note: For mast arm and luminaire arm.	5,880.40	
34 41 13 00-0163 EA 32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm..... Note: For mast arm and luminaire arm.	6,039.99	
34 41 13 00-0164 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	4,925.15	
34 41 13 00-0165 EA 30' High Galvanized Steel Traffic Signal Pole, Octafute.....	4,452.25	
34 41 13 00-0166 EA 30' (High Spun Aluminum Traffic Signal Pole, Tapered.....	3,736.96	
34 41 13 00-0167 EA Type 26-6-70 Signal Pole With 55' SMA And 20' LMA.....	21,601.64	
34 41 13 00-0168 EA Type 29-6-70 Signal Pole With 65' SMA And 20' LMA.....	25,065.88	
34 41 13 00-0169 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	3,389.97	
34 41 13 00-0170 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	1,836.95	
34 41 13 00-0171 EA Smart Sensor HD (Wavetronix HD125).....	9,623.56	
34 41 13 00-0172 EA Access Point (Sensys AP240-ES)..... Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.	4,469.18	
34 41 13 00-0173 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	7,709.25	
34 41 13 00-0174 EA Mounting Kit for Access Points and Repeaters (KIT-MTG).....	291.31	
34 41 13 00-0175 EA Repeater (Sensys RP240-B-LL)..... Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.	2,049.02	
34 41 13 00-0176 EA Wireless Flush Mounted Sensor (Sensys VSN240-F)..... Note: Excludes coring.	944.15	
34 41 13 00-0177 EA Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug.....	2,377.12	
34 41 13 00-0178 EA Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	6,120.23	2.02
34 41 13 00-0179 EA Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles.....	7,998.87	2.02
34 41 13 00-0180 EA Pole Base Foundation for Type 15 and 21 Poles.....	4,783.29	2.02
34 41 13 00-0181 EA Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	6,120.23	2.02
34 41 13 00-0182 EA Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	7,998.87	2.02

34 41 13 00-0183 Traffic Signal Cable (34 41 13)



Transportation			34
Transportation Signaling and Control Equipment			34 40
Roadway Signaling and Control Equipment			34 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0184	LF		16 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.31	1.05
34 41 13 00-0185	LF		16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.54	1.13
34 41 13 00-0186	LF		16 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.77	1.20
34 41 13 00-0187	LF		16 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.01	1.27
34 41 13 00-0188	LF		16 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.26	1.36
34 41 13 00-0189	LF		16 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.73	1.50
34 41 13 00-0190	LF		16 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.36	1.73
34 41 13 00-0191	LF		16 AWG, 12-Conductor, Solid, Traffic Signal Cable	4.99	1.95
34 41 13 00-0192	LF		16 AWG, 16-Conductor, Solid, Traffic Signal Cable	5.80	2.18
34 41 13 00-0193	LF		16 AWG, 20-Conductor, Solid, Traffic Signal Cable	6.73	2.40
34 41 13 00-0194	LF		14 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.36	1.05
34 41 13 00-0195	LF		14 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.62	1.13
34 41 13 00-0196	LF		14 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.87	1.20
34 41 13 00-0197	LF		14 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.12	1.27
34 41 13 00-0198	LF		14 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.40	1.36
34 41 13 00-0199	LF		14 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.91	1.50
34 41 13 00-0200	LF		14 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.58	1.73
34 41 13 00-0201	LF		14 AWG, 12-Conductor, Solid, Traffic Signal Cable	5.26	1.95
34 41 13 00-0202	LF		14 AWG, 16-Conductor, Solid, Traffic Signal Cable	6.16	2.18
34 41 13 00-0203	LF		14 AWG, 20-Conductor, Solid, Traffic Signal Cable	7.21	2.40
34 41 13 00-0204	LF		12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.48	1.05
34 41 13 00-0205	LF		12 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.79	1.13
34 41 13 00-0206	LF		12 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.09	1.20
34 41 13 00-0207	LF		12 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.39	1.27
34 41 13 00-0208	LF		12 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.73	1.36
34 41 13 00-0209	LF		12 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.35	1.50
34 41 13 00-0210	LF		12 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.13	1.73
34 41 13 00-0211	LF		12 AWG, 12-Conductor, Solid, Traffic Signal Cable	5.91	1.95
34 41 13 00-0212	LF		12 AWG, 16-Conductor, Solid, Traffic Signal Cable	7.02	2.18
34 41 13 00-0213	LF		12 AWG, 20-Conductor, Solid, Traffic Signal Cable	8.36	2.40
34 41 13 00-0214 School Zone Flasher Beacons (34 41 13)					
34 41 13 00-0215	EA		One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,004.15	228.50
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0216	EA		One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,039.10	228.50
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0217	EA		Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,632.54	228.50
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0218	EA		Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,744.40	228.50
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0219	EA		10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ...	10,468.43	228.50
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0220	EA		10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ...	10,906.78	228.50
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0221 Traffic Light Control Synchronization (34 41 13)					
34 41 13 00-0222	EA		ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	4,392.69	
34 41 13 00-0223	EA		ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	3,312.10	
34 41 13 00-0224	EA		ENCOM Dual 2.4/2.4 GHz Broadband Radio with Integrated Antenna (COMMPAKBB24/24)	7,825.27	
34 41 13 00-0225	EA		5.8 GHz Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	5,245.45	
34 41 13 00-0226	EA		2.4 GHz Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	5,245.45	
34 41 13 00-0227	EA		Solar Cabinet Assembly	14,508.90	
34 41 13 00-0228	EA		Data Controller Interface Cable Assembly	598.99	
34 41 13 00-0229	EA		900 MHZ Splitter.....	662.58	
34 41 13 00-0230	EA		900 MHZ Surge Suppressor.....	235.04	
34 41 13 00-0231	EA		Surge-Radio Lead in Cable.....	147.65	
34 41 13 00-0232	EA		12DB GAIN YAGI Antenna	709.29	
34 41 13 00-0233	EA		PELCO Antenna Mounting Bracket	496.04	
34 41 13 00-0234	MLF		Coaxial Cable, LMR-400.....	3,589.58	
34 41 13 00-0235	EA		Perle 16 Port Serial Server.....	4,150.41	
34 41 13 00-0236	EA		Serial to Ethernet Card	2,052.82	
34 41 13 00-0237	EA		404 Stand Alone Modem (GDI 404).....	1,812.31	
34 41 13 00-0238 Traffic Signal Controls (34 41 13)					
34 41 13 00-0239	EA		Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2)	1,648.90	
34 41 13 00-0240	EA		Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	634.74	
34 41 13 00-0241	EA		AccessBox for contract closure master card (CC-ACC)	227.18	
34 41 13 00-0242	EA		Flush Mount Wireless Sensor (ATT VSN240-F)	880.95	
34 41 13 00-0243	EA		Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	880.95	
34 41 13 00-0244	EA		Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	137.00	
34 41 13 00-0245	EA		SNAPS License for each enabled AP (SNAPS-PER-AP)	367.66	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0246 Traffic Signal Devices (34 41 13)				
34 41 13 00-0247	EA	12" Polycarbonate Signal Head Housing (McCain).....	858.21	113.84
34 41 13 00-0248	EA	16" Polycarbonate Pedestrian Signal Housing (McCain).....	452.94	88.55
34 41 13 00-0249	EA	Pedestrian Push Button Cap & Switch (McCain M31334)	391.93	164.45
34 41 13 00-0250	EA	Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	543.73	240.33
34 41 13 00-0251	EA	Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	420.46	189.74
34 41 13 00-0252	EA	16 Channel Conflict Monitor (McCain 2010 ECLIP).....	1,244.22	82.22
34 41 13 00-0253	EA	LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	263.44	31.62
34 41 13 00-0254	EA	Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	2,792.49	139.14
34 41 13 00-0255	EA	Camera processor card (Iteris Edge Connect).....	6,315.90	202.39
34 41 13 00-0256	EA	Wireless Broadband Radio (Encom BB58).....	5,963.52	189.74
34 41 13 00-0257	EA	24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	3,952.71	151.79
34 41 13 00-0258	EA	Power Adapter (Mean Well DR-120-48)	160.46	47.44
34 41 13 00-0259	LF	14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	1.02	
34 41 13 00-0260	EA	Radar Detection System (Wavetronix Matrix).....	11,655.38	480.68
34 41 13 00-0261	EA	Pedestrian Audio Push Button (Polara APS)	397.61	120.17
34 41 13 00-0262	EA	Opticom Infrared System - Detector (GTT 711)	928.69	112.83
34 41 13 00-0263	EA	Opticom Infrared System - Detector (GTT 721)	1,039.05	126.24
34 41 13 00-0264	EA	Opticom Infrared System - Detector (GTT 722)	1,447.18	175.83
34 41 13 00-0265	EA	Opticom Multimode Phase Selector (GTT 764)	4,544.36	103.98
34 41 13 00-0266	LF	Opticom GPS Installation Cable (GTT 1070)	1.21	
34 41 13 00-0267	EA	Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324).....	780.64	
34 41 13 00-0268	EA	Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730).....	827.74	
34 41 13 00-0269	EA	UPS Module (Alpha Technologies FXM 350)	1,254.38	69.22
Note: For battery backup in traffic signal control cabinet				
34 41 13 00-0270	EA	Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual)	413.26	56.93
Note: To control flashing "School" signs				
34 41 13 00-0271	LF	Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	8.85	0.58
34 41 13 00-0272	LF	Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	2.30	0.50
34 41 13 00-0273	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	139.01	56.93
34 41 13 00-0274	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	139.01	56.93
34 41 13 00-0275	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	139.01	56.93
34 41 13 00-0276	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	139.01	56.93
34 41 13 00-0277	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	139.01	56.93
34 41 13 00-0278	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	139.01	56.93
34 41 13 00-0279	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA)	400.50	145.46
34 41 13 00-0280	EA	EOC Switch (Actellis ML688).....	4,694.03	449.94
34 41 13 00-0281	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro)	1,255.42	103.83
34 41 13 00-0282	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T)	110.63	27.27
34 41 13 00-0283	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	365.87	39.48
34 41 13 00-0284	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T)	134.15	27.27
34 41 13 00-0285	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	438.68	39.48
34 41 13 00-0286	EA	Battery Back-up (Alpha FXM110 UPS)	2,960.48	138.45
34 41 13 00-0287	EA	Battery (Alpha AlphaCell 220GXL).....	427.03	34.61
34 41 13 00-0288	EA	BBS Cabinet (Alpha SE48-1616)	3,485.49	311.50
34 41 13 00-0289	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	6.48	2.70
34 41 13 00-0290	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.89	1.24
34 41 13 00-0291	EA	FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,086.58	103.83
34 41 13 00-0292	EA	12" THREE SECTION HOUSING (McCain M22435)	746.73	69.22
34 41 13 00-0293	EA	12" FOUR SECTION HOUSING (McCain M30883)	968.01	103.83
34 41 13 00-0294	EA	12" FIVE SECTION HOUSING (McCain M31769).....	1,120.08	103.83
34 41 13 00-0295	EA	12" CLUSTER, WITHOUT MAS (McCain M30987)	1,196.12	103.83
34 41 13 00-0296	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	746.73	69.22
34 41 13 00-0297	EA	NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polara iN250N0-B)	746.73	69.22
34 41 13 00-0298	EA	NAVIGATOR iN2 CONTROLLER RACK MOUNT ICCU-C (Polara iCCU-C).....	4,286.31	242.28
34 41 13 00-0299	EA	NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polara iN2-ICB-C)	221.29	34.61
34 41 13 00-0300	EA	NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polara iN2-150-WPS-C).....	221.29	34.61
34 41 13 00-0301	EA	NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polara iN2-c4cable-C)	484.01	51.92
34 41 13 00-0302	EA	12" Visor (McCain M19302).....	42.90	13.85
34 41 13 00-0303	EA	LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	407.97	51.92
34 41 13 00-0304	EA	SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258)	670.69	69.22
34 41 13 00-0305	EA	CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259)	1,234.13	103.83
34 41 13 00-0306	EA	ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487)	670.69	69.22
34 41 13 00-0307	EA	HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	145.26	34.61
34 41 13 00-0308	EA	ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	407.97	51.92
34 41 13 00-0309	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	746.73	69.22
34 41 13 00-0310	EA	242L ISOLATOR, EDI (McCain M56812)	145.26	34.61
34 41 13 00-0311	EA	EDI 222 DETECTOR (McCain M11407).....	183.27	34.61
34 41 13 00-0312	EA	ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	2,931.30	173.05
34 41 13 00-0313	EA	GENERATOR SWITCH AND PLUG ASSY FOR ALPHA BBS (McCain M68752-2).....	503.42	69.22
34 41 13 00-0314	EA	BBS BATTERY, ALPHACELL 165GXL (McCain M59884)	670.69	69.22
34 41 13 00-0315	EA	Battery Backup Cabinet Anondize 44x26x12 (McCain M64438A)	1,386.20	103.83

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment** (34 41 16)



Transportation			34
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0002	EA		CONTROLLER/SL/POLE MTD/1-PHASE/100A	7,744.74	1,045.86
34 41 16 00-0003	EA		CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	7,865.22	1,106.08
34 41 16 00-0004	EA		CONTROLLER, SL, 3-PHASE, 100A, BASE MTD	9,421.28	1,119.09
34 41 16 00-0005	EA		CONTROLLER, SL, 3-PHASE, 200A, BASE MTD	11,220.04	1,358.77
34 41 16 00-0006	EA		CONTROLLER/SL/BASE MTD/1-PHASE/100A	8,903.26	670.31
34 41 16 00-0007	EA		CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	9,864.43	733.86
34 41 16 00-0008	EA		CONTROLLER, TS, 12-BAY, "M" CABINET	16,208.65	1,153.74
34 41 16 00-0009	EA		CONTROLLER, TS, 12-BAY, "P" CABINET	17,288.24	1,278.58
34 41 16 00-0010	EA		CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER	24,452.83	1,437.45
34 41 16 00-0011	EA		CONTROLLER, TS, 16-BAY, "P" CABINET	19,529.47	1,361.80
34 41 16 00-0012	EA		CONTROLLER, PEDESTRIAN CROSSING, ADD-IN	662.07	159.94
34 41 16 00-0013	EA		CONCRETE BLOCK PEDESTAL	938.70	240.13
34 41 16 00-0014	WK		MAINTAIN EXIST TS INSTALLATION	384.57	192.27
34 41 16 00-0015	EA		INST SIGN BOARDS, ST. NAME	657.39	316.69
34 41 16 00-0016	EA		F.O. ADD-IN FOR LOCAL CONTROLLER	8,127.25	432.99
34 41 16 00-0017	EA		F.O. ADD-IN FOR MASTER CONTROLLER.....	19,349.99	649.67
34 41 16 00-0018	EA		PDU Equipped netBooter With IEC320 C13 Outlets (Synaccess NP-0808DUH)	877.09	18.02
34 41 16 00-0019	EA		Remote Power Switched netBooter PDU, 8 Independent Outlets (Synaccess NP-0801DU)	502.03	18.02
34 41 16 00-0020	Transportation Cabinets (34 41 16)				
34 41 16 00-0021	Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)				
34 41 16 00-0022	EA		50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	2,384.92	207.66
34 41 16 00-0023	EA		66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures)	9,849.49	207.66
34 41 16 00-0024	EA		46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures)	2,235.96	207.66
34 41 16 00-0025	EA		50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures)	2,384.92	207.66
34 41 16 00-0026	EA		60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	10,180.51	207.66
34 41 16 00-0027	EA		55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,573.91	207.66
34 41 16 00-0028	Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)				
34 41 16 00-0029	EA		28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017).....	5,682.08	242.28
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.					
34 41 16 00-0030	Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)				
34 41 16 00-0031	EA		30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	2,252.75	207.66
34 41 16 00-0032	EA		30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	2,790.83	221.51
34 41 16 00-0033	Transportation Cabinets (McCain) (34 41 16 00-0020)				
34 41 16 00-0034	EA		24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i)	10,278.11	242.28
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.					
34 41 16 00-0035	EA		24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332)	10,278.11	242.28
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.					
34 41 16 00-0036	EA		ATC ColdFire Controller (McCain 170)	5,340.21	
34 41 16 00-0037	Traffic Control Equipment (34 41 16)				
34 41 16 00-0038	EA		ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15)	292.93	69.22
34 41 16 00-0039	EA		ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M)	376.63	69.22
34 41 16 00-0040	EA		ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M)	429.80	69.22
34 41 16 00-0041	EA		ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30)	339.41	69.22
34 41 16 00-0042	MLF		10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	2,711.05	758.96
34 41 16 00-0043	EA		Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	120.26	34.61
34 41 16 00-0044	EA		Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	509.62	76.17
34 41 16 00-0045	EA		Detection System, Vehicle, Two Sensor Preamsembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	2,600.66	228.50
34 41 16 00-0046	EA		Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204).....	469.03	34.61
34 41 16 00-0047	EA		Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	664.68	34.61
34 41 16 00-0048	EA		4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104)	776.44	69.22
34 41 16 00-0049	EA		Detection System, Vehicle, Four Sensor Preamsembled Backplate, With AC Power, Wavetronix SmartSensor (Wavetronix WX-SS-B01-0005).....	3,302.90	69.22
34 41 16 00-0050	EA		50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	457.00	228.50
34 41 16 00-0051	EA		60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	497.05	57.12
34 41 16 00-0052	EA		900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	441.56	76.17
34 41 16 00-0053	EA		900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120)	288.45	76.17
34 41 16 00-0054	EA		Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	298.90	34.61
34 41 16 00-0055	EA		24 Volt DC 2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-202).....	358.44	34.61
34 41 16 00-0056	EA		Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250)	171.30	34.61
34 41 16 00-0057	EA		Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200).....	477.54	34.61
34 41 16 00-0058	EA		Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222)	537.08	34.61
34 41 16 00-0059	EA		RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	664.68	34.61
34 41 16 00-0060	EA		Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	69.22	34.61
34 41 16 00-0061	EA		Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611).....	450.07	76.17
34 41 16 00-0062	MLF		LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400)	3,136.38	758.96
34 41 16 00-0063	EA		N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC).....	60.24	20.77

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0064 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	884.61	83.07
34 41 16 00-0065 EA Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1)	869.39	103.83
34 41 16 00-0066 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	209.29	34.61
34 41 16 00-0067 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	156.10	34.61
34 41 16 00-0068 EA 24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	465.84	34.61
34 41 16 00-0069 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	198.43	34.61
34 41 16 00-0070 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	88.58	34.61
34 41 16 00-0071 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009)	648.84	69.22
Note: Input/Output for sign peripherals.		
34 41 16 00-0072 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009)	648.84	69.22
Note: Input/Output for sign peripherals.		
34 41 16 00-0073 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005)	1,201.77	69.22
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011)	1,201.77	69.22
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019)	427.67	69.22
Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0076 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	597.81	69.22
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0077 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)	597.81	69.22
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0078 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003)	495.73	69.22
Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0079 EA Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016)	8,209.69	276.89
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	358.44	34.61
Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0081 EA Driver (Daktronics 0P-1100-0026)	672.18	55.38
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082 EA External Temp Sensor (Daktronics 0P-1100-0014)	595.62	55.38
Note: Sensor that measures ambient temperature.		
34 41 16 00-0083 EA Internal Temp Sensor (Daktronics 0P-1100-0038)	663.68	55.38
Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084 EA Light Level Detector (Daktronics 0P-1151-0002)	408.48	55.38
Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085 EA Module (Daktronics 0A-1253-0608)	1,201.77	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086 EA Module (Daktronics 0A-1253-3018)	1,499.50	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087 EA Module (Daktronics 0A-1266-5002)	1,329.37	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252)	1,839.77	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455)	1,499.50	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654)	1,499.50	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015)	818.98	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116)	818.98	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031)	818.98	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017)	818.98	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603)	1,201.77	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605)	1,201.77	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601)	1,201.77	69.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016)	436.18	69.22
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029)	504.23	69.22
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0100 EA Power Supply (Daktronics A-1593)	1,414.44	69.22
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0101 EA Power Supply (Daktronics A-1648)	1,414.44	69.22
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0102 EA Power Supply (Daktronics A-2307)	563.78	69.22
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129)	236.19	41.53
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412)	465.87	41.53
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772)	465.87	41.53
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		



	Transportation	34	
	Transportation Signaling and Control Equipment	34 40	34
	Roadway Signaling and Control Equipment	34 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139).....	678.53	41.53
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022).....	1,150.73	69.22
Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.		
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001).....	1,542.03	69.22
Note: Input/Output board for sign peripherals.		
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R).....	1,031.64	69.22
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000).....	691.38	69.22
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075).....	283.06	69.22
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028).....	8,209.69	276.89
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015).....	597.81	69.22
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053).....	111.75	34.61
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792).....	137.27	34.61
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF).....	776.44	69.22
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF).....	776.44	69.22
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	1,000.43	69.32
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	1,000.43	69.32
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	5,244.14	69.32
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	1,281.41	69.32
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	188.43	34.61
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	631.16	69.32
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,585.55	69.32
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4).....	292.64	69.22
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	607.29	69.22
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	245.35	17.33
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	3,062.63	138.45
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	204.24	34.61
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	2,749.67	69.22
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	6,649.65	342.65
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	927.35	179.98
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	26.90	11.07
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	2,294.90	138.45
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	52.75	11.07
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	2,007.46	76.17
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	135.71	52.61
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469).....	346.99	69.22
34 41 16 00-0139 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	562.64	18.02
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	605.67	18.02
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	331.29	27.69
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	3,966.93	166.13
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	157.70	31.84
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	39.65	6.92
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,264.90	69.22
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	4,383.15	138.45
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	2,986.19	228.43
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	864.74	395.95
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	603.41	276.89
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	116.16	37.38
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	85.98	24.92
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	70.59	24.92
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	70.59	24.92
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	292.64	69.22
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	280.18	34.66
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	2,478.32	34.66
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	485.56	18.02
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	9,924.26	228.50
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	412.11	76.17

34 70 Transportation Construction and Equipment⁽³⁴⁾

34 71 Roadway Construction^(34 71)

34 71 13 Vehicle Barriers^(34 71)

34 71 13 13 Vehicle Median Barriers^(34 71 13)

34 71 13 13-0001 Concrete Median Barrier^(34 71 13 13)

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	83.19	3.77
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	110.28	3.77

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	139.00	3.77
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	55.22	6.32
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	45.20	3.08
34 71 13 16 Vehicle Crash Barriers (34 71 13)		
34 71 13 16-0001 Impact Barrier, Non-Redirective (34 71 13 16)		
34 71 13 16-0002 Sand Barrel Impact Attenuator (34 71 13 16-0001)		
Note: Includes containers, inserts, and lid. Excludes sand.		
34 71 13 16-0003 EA 200, 400 Or 700 LB Sand Barrel.....	728.08	45.42
Note: Includes containers, inserts, and lid.		
34 71 13 26 Vehicle Guide Rails (34 71 13)		
34 71 13 26-0001 Mobilize Guide Rail Crew (34 71 13 26)		
34 71 13 26-0002 EA Mobilize Guide Rail Crew.....	1,159.74	
Note: Excludes equipment mobilization.		
34 71 13 26-0003 Corrugated Beam Guide Rail (34 71 13 26)		
34 71 13 26-0004 Corrugated Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections (34 71 13 26-0004)		
Note: Add additional length for back-up sections.		
34 71 13 26-0006 LF Corrugated Beam Guide Railing.....	16.43	2.07
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	17.72	2.07
34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved (34 71 13 26-0004)		
Note: Add additional length for back-up sections.		
34 71 13 26-0009 LF Shop Curved Corrugated Beam Guide Railing.....	21.48	2.07
34 71 13 26-0010 LF Shop Curved Corrugated Beam Guide Railing (Rustic).....	23.26	2.07
34 71 13 26-0011 LF Shop Curved Corrugated Beam Guide Railing End.....	55.16	2.07
Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71 13 26-0012 LF Shop Curved Corrugated Beam Guide Railing (Rustic) End.....	60.19	2.07
Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		
34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)		
34 71 13 26-0014 EA Corrugated Beam Guide Railing End Section At Anchor Unit.....	123.90	27.34
34 71 13 26-0015 EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	130.78	27.34
34 71 13 26-0016 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section.....	165.14	27.34
34 71 13 26-0017 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	172.02	27.34
34 71 13 26-0018 EA Corrugated Beam Guide Railing 225 Degree End Section.....	165.14	27.34
34 71 13 26-0019 EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	172.02	27.34
34 71 13 26-0020 Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003)		
Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021 EA Regent Flared End Terminal Head With Bracket, Type B & C.....	4,173.79	166.10
34 71 13 26-0022 EA Fleet Flared End Terminal Head With Bracket.....	3,486.43	166.10
34 71 13 26-0023 EA SKT 350 Tangent End Terminal Head With Bracket.....	4,173.79	166.10
34 71 13 26-0024 EA 12'-6" Corrugated Beam Pre-drilled #1 Panel.....	619.92	78.31
34 71 13 26-0025 EA Terminal Support System, Type SFT.....	836.71	209.37
34 71 13 26-0026 EA Terminal Support System, Type ET.....	4,060.65	592.56
34 71 13 26-0027 EA Terminal Support System, Type SRT.....	4,401.36	592.56
34 71 13 26-0028 Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
Note: Includes mounting hardware.		
34 71 13 26-0029 EA Standard Post For Corrugated Beam Guide Rail.....	128.91	14.20
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.79	
34 71 13 26-0030 EA Standard Post For (Rustic) Corrugated Beam Guide Rail.....	135.78	14.20
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.79	
34 71 13 26-0031 EA Extra Long Post For Corrugated Beam Guide Rail.....	142.65	14.20
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.79	
34 71 13 26-0032 EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail.....	149.53	14.20
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.79	
34 71 13 26-0033 EA 6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail.....	128.91	14.20
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.79	
34 71 13 26-0034 EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post.....	183.90	14.20
For Installation In Rock, Add	3.79	



Transportation			34
Transportation Construction and Equipment			34 70
Roadway Construction			34 71

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003) Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	128.91	14.20
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	135.78	14.20
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide.....	142.65	14.20
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail.....	149.53	14.20
Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71 13 26-0040 EA Type A Post 1630mm Post	125.47	14.20
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic).....	132.34	14.20
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0042 EA Type B Post 1460mm	118.60	14.20
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0043 EA Type B Post 1460mm (Rustic).....	125.47	14.20
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0044 EA Type C Post 1290mm	111.72	14.20
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0045 EA Type C Post 1290mm (Rustic).....	118.60	14.20
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube	473.69	14.20
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam	53.30	14.20
Note: For heavy post blocked out corrugated beam guide rail.		
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	110.16	31.07
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003) Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post.....	12.14	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail	41.42	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post.....	7.05	
34 71 13 26-0054 Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing.....	38.57	2.61
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic).....	40.67	2.61
34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing	46.95	2.61
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	49.05	2.61
34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054) Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail.....	154.70	2.61
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	161.57	2.61
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0064 Timber Guide Rails (34 71 13 26) Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065 Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post	94.24	10.35
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post	107.55	10.35
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post	211.83	10.35
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post	224.26	10.35
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post	259.71	10.35
34 71 13 26-0071 Timber Guide Rails (34 71 13 26-0064) Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail.....	11.70	1.25
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	16.49	1.25
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	19.29	1.25
34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails	15.24	1.66
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails	17.54	1.66
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails	20.46	1.66

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	21.25	1.04
34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails.....	147.53	14.49
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails.....	92.48	10.35
34 71 13 26-0084 Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085 Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086 LF Cable (Each Cable).....	8.84	2.24
Note: Includes tensioning. Excludes splices.		
34 71 13 26-0087 EA Cable Splice With Wedges	226.92	15.53
34 71 13 26-0088 Cable Guide Rail Posts (34 71 13 26-0084)		
Note: Includes hardware for cable mounting.		
34 71 13 26-0089 EA Standard Post for Cable Guide Rail	166.22	47.34
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.62	
34 71 13 26-0090 EA Standard Post (Rustic) for Cable Guide Rail.....	173.10	47.34
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.62	
34 71 13 26-0091 EA Extra Long Post for Cable Guide Rail	173.10	47.34
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.62	
34 71 13 26-0092 EA Extra Long Post (Rustic) for Cable Guide Rail.....	179.97	47.34
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.62	
34 71 13 26-0093 EA Slip Impact Post Top for Anchor Unit.....	107.73	18.93
34 71 13 26-0094 EA Slip Impact Post Base and Keeper Plate	279.57	18.93
Note: For anchor unit.		
34 71 13 26-0095 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)		
34 71 13 26-0096 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors	510.38	207.52
34 71 13 26-0097 EA Turnbuckle Cable End Assembly	151.31	10.37
34 71 13 26-0098 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	488.03	5.16
34 71 13 26-0099 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle	501.78	5.16
34 71 13 26-0100 EA Breakaway Anchor Angle.....	192.55	10.37
34 71 13 26-0101 EA Standard End Post Cap Assembly.....	89.36	5.16
34 71 13 26-0102 EA Driveway End Post Cap Assembly.....	75.62	5.16
34 71 13 26-0103 EA End Post Ground Support Plates.....	41.25	5.16
34 71 13 26-0104 EA 11" Stud Bolt, Cable Guide Rail.....	36.09	5.16
34 71 13 26-0105 EA 18" Stud Bolt, Cable Guide Rail.....	42.97	5.16
34 71 13 26-0106 EA 25" Stud Bolt, Cable Guide Rail.....	49.84	5.16
34 71 13 26-0107 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail	426.26	10.37
34 71 13 26-0108 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail	453.75	10.37
34 71 13 26-0109 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	302.53	10.37
34 71 13 26-0110 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail.....	185.59	5.16
34 71 13 26-0111 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail	192.55	10.37
34 71 13 26-0112 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail.....	206.30	15.53
34 71 13 26-0113 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)		
34 71 13 26-0114 EA Turnbuckle Cable End Assembly.....	344.14	15.81
Note: For use with slip impact post.		
34 71 13 26-0115 EA Spring Cable End Assembly (Compensating Device).....	674.07	15.81
Note: For use with slip impact post.		
34 71 13 26-0116 EA Anchor Angle For Slip Impact Post System	199.79	15.81
34 71 13 26-0117 EA Cable End Assembly Rod	165.43	15.81
Note: Includes cable end, threaded rod and keeper to anchor angle.		
34 71 13 26-0118 Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)		
Note: Includes associated hardware.		
34 71 13 26-0119 LF Retention Existing Cable (Each Cable).....	1.38	
34 71 13 26-0120 LF Removal And Storage Of Cable Guide Railing	8.34	
34 71 13 26-0121 EA Install Stored Post For Cable Guide Railing.....	63.12	
34 71 13 26-0122 LF Install Stored Cable, (Each Cable).....	3.69	
Note: Includes retensioning. Excludes splices.		
34 71 13 26-0123 6" x 6" Box Beam Guide Rail (34 71 13 26)		
34 71 13 26-0124 Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)		



		Transportation	34
		Transportation Construction and Equipment	34 70
		Roadway Construction	34 71

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0125			Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0126	LF		Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices. For Flush Mounting Directly To Structure, Add	46.43 1.83	2.61
34 71 13 26-0127	LF		Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices. For Flush Mounting Directly To Structure, Add	52.71 1.83	2.61
34 71 13 26-0128			Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0129	LF		Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	70.52 2.44 1.83	2.61
34 71 13 26-0130	LF		Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	76.81 2.44 1.83	2.61
34 71 13 26-0131			Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123)		
34 71 13 26-0132	EA		Box Beam End Piece Guide Railing Section..... Note: Galvanized excludes splices.	728.78	31.07
34 71 13 26-0133	EA		Box Beam End Piece Guide Railing Section (Rustic)..... Note: Excludes splices.	804.39	31.07
34 71 13 26-0134	EA		Box Beam Guide Railing End Treatment Section At Driveway, Galvanized Note: Excludes splices.	687.54	31.07
34 71 13 26-0135	EA		Box Beam Guide Railing End Treatment Section At Driveway, (Rustic)..... Note: Excludes splices.	715.03	31.07
34 71 13 26-0136			Splices For Box Beam Guide Rail (34 71 13 26-0123)		
34 71 13 26-0137	EA		Splice For Box Beam Guide Rail	195.32	46.11
34 71 13 26-0138	EA		Splice For Box Beam Guide Rail (Rustic).....	243.44	46.11
34 71 13 26-0139			Box Beam Guide Rail Posts (34 71 13 26-0123)		
34 71 13 26-0140	EA		Standard Post For Box Beam Guide Rail For Installation Without Soil Plate, Deduct For Installation In Rock, Add	173.10 -5.00 12.62	47.34
34 71 13 26-0141	EA		Standard Post (Rustic) for Box Beam Guide Railing..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	179.97 -5.00 12.62	47.34
34 71 13 26-0142	EA		Extra Long Post For Box Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	186.84 -5.00 12.62	47.34
34 71 13 26-0143	EA		Extra Long Post (Rustic) For Box Beam Guide Rail For Installation Without Soil Plate, Deduct For Installation In Rock, Add	193.72 -5.00 12.62	47.34
34 71 13 26-0144	EA		Type I End Assembly Post..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	166.22 -5.00 12.62	47.34
34 71 13 26-0145	EA		Type I End Assembly Post (Rustic) For Installation Without Soil Plate, Deduct For Installation In Rock, Add	173.10 -5.00 12.62	47.34
34 71 13 26-0146	EA		Type II End Assembly Post..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	159.35 -5.00 12.62	47.34
34 71 13 26-0147	EA		Type II End Assembly Post (Rustic) For Installation Without Soil Plate, Deduct For Installation In Rock, Add	166.22 -5.00 12.62	47.34
34 71 13 26-0148			Box Beam Guide Rail Accessories (34 71 13 26-0123)		
34 71 13 26-0149	EA		Box Beam Guide Rail End Cover Plate	94.90	9.32
34 71 13 26-0150	EA		Box Beam Guide Rail End Cover Plate (Rustic)	101.78	9.32
34 71 13 26-0151			Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123)		
34 71 13 26-0152	LF		Removal And Storage Of Box Beam Guide Rail And Post	4.09	
34 71 13 26-0153	LF		Reset Box Beam Guide Rail	11.95	
34 71 13 26-0154			6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0155			Box Beam Median Barrier, 6" x 8" (34 71 13 26-0154)		
34 71 13 26-0156			Straight Sections, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0157	LF		Box Beam Median Barrier Galvanized Excludes Splices..... For Flush Mounting Directly To Structure, Add	78.41 1.83	9.32

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0158 LF Box Beam Median Barrier (Rustic) Excludes Splices..... <i>For Flush Mounting Directly To Structure, Add</i>	84.70 1.83	9.32
34 71 13 26-0159 Shop Curved, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0160 LF Shop Curved Box Beam Median Barrier Galvanized Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	94.93 2.44 1.83	9.32
34 71 13 26-0161 LF Shop Curved Box Beam Median Barrier Rustic Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	115.56 2.44 1.83	9.32
34 71 13 26-0162 Box Beam Median Barrier End Treatment Sections (34 71 13 26-0154)		
Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0163 EA Box Beam Median Barrier Type A End Treatment Section, Galvanized Note: Excludes splices and post.	2,371.57	31.07
34 71 13 26-0164 EA Box Beam Median Barrier Type A End Treatment Section (Rustic)..... Note: Excludes splices and post.	2,426.56	31.07
34 71 13 26-0165 EA Box Beam Median Barrier Type B End Treatment Section, Galvanized Note: Excludes splices and post.	2,371.57	31.07
34 71 13 26-0166 EA Box Beam Median Barrier Type B End Treatment Section (Rustic)..... Note: Excludes splices and post.	2,426.56	31.07
34 71 13 26-0167 Splices For Box Beam Median Barrier (34 71 13 26-0154)		
34 71 13 26-0168 EA Splice for Box Beam Median Barrier	184.36	24.86
34 71 13 26-0169 EA Splice for Box Beam Median Barrier (Rustic).....	287.46	24.86
34 71 13 26-0170 Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0154)		
Note: Includes all associated hardware.		
34 71 13 26-0171 EA Standard Post for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	173.10 -5.00 12.62	47.34
34 71 13 26-0172 EA Standard Post (Rustic) for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	179.97 -5.00 12.62	47.34
34 71 13 26-0173 EA Extra Long Post for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	186.84 -5.00 12.62	47.34
34 71 13 26-0174 EA Extra Long Post (Rustic) for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	193.72 -5.00 12.62	47.34
34 71 13 26-0175 EA Type B End Treatment or Rub Back Anchor Post for Box Beam Note: For median barrier. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	159.35 -5.00 12.62	47.34
34 71 13 26-0176 EA Type B End Treatment or Rub Back Anchor Post (Rustic) Note: For box beam median barrier. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	159.35 -5.00 12.62	47.34
34 71 13 26-0177 EA Type I End Assembly Post for Box Beam Median Barrier to Concrete Note: For median barrier transition. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	186.84 -5.00 12.62	47.34
34 71 13 26-0178 EA Type I End Assembly Post (Rustic) for Box Beam Median Barrier..... Note: For Concrete median barrier transition. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	193.72 -5.00 12.62	47.34
34 71 13 26-0179 Box Beam Median Barrier Accessories (34 71 13 26-0154)		
34 71 13 26-0180 EA Box Beam Median Barrier End Cover Plate.....	119.06	21.87
34 71 13 26-0181 EA Box Beam Median Barrier End Cover Plate (Rustic).....	125.93	21.87
34 71 13 26-0182 Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0154)		
Note: For existing guide rail.		
34 71 13 26-0183 LF Removal And Storage Of Box Beam Median Barrier and Posts	4.23	
34 71 13 26-0184 LF Reset Box Beam Median Barrier.....	12.51	
34 71 13 26-0185 Universal Guide Rail Items (34 71 13 26)		
34 71 13 26-0186 Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0185)		
Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0187 CY Guide Rail Concrete Anchor Unit..... <i>For Each Additional Set Of Anchor Rods, Add</i>	703.36 38.00	



		Transportation	34
		Transportation Construction and Equipment	34 70
		Roadway Construction	34 71

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0188	EA	Reset Existing Anchorage Unit for All Types of Guide Rail..... Note: Includes excavation and backfill.	475.04	
34 71 13 26-0189	EA	Removal Of Guide Rail Concrete Anchor Unit.....	523.98	
34 71 13 26-0190		Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0185) Note: Includes associated hardware.		
34 71 13 26-0191	EA	Straighten And Reset Driven Post For Guide Rail	63.12	
34 71 13 26-0192	EA	Straighten And Reset Post Mounted On Concrete For Guide Rail	73.02	
		Note: With base plate for guide rail. Includes new anchor bolts.		
34 71 13 26-0193		Additional Wood and Steel Posts (34 71 13 26-0185)		
34 71 13 26-0194	LF	4" x 6" Wood Post..... For Installation In Rock, Add	53.73 4.22	15.81
34 71 13 26-0195	LF	6" x 8" Wood Post..... For Installation In Rock, Add	64.04 4.22	15.81
34 71 13 26-0196	LF	6" x 7/8" Galvanized Steel Post	40.55	15.81
34 71 13 26-0197	EA	Base Plate With Anchor Bolts For Mounting Post On Concrete..... For Installation In Rock, Add	371.51 4.22	15.81
34 71 13 26-0198		Accessories For All Types of Guide Rail (34 71 13 26-0185)		
34 71 13 26-0199	EA	Reflector For Guard Rail.....	44.72	
34 71 13 26-0200		Resilient Guard Fence And Light Shield (34 71 13 26)		
34 71 13 26-0201	LF	Resilient Guard Fence And Light Shield, Up To 6' High	73.85	6.33
34 71 13 26-0202		Individual Concrete Guard Rail Posts (34 71 13 26)		
34 71 13 26-0203	EA	6'-5" Concrete Guard Rail Posts, Round.....	106.01	6.33
34 71 13 26-0204	EA	6'-5" Concrete Posts, Square.....	118.35	7.11
34 71 13 26-0205	EA	6'-5" Concrete Posts, Triangular	114.85	7.11
34 71 13 26-0206		Guide Rail Transitions (34 71 13 26)		
34 71 13 26-0207		Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0206) Note: Use cable guide rail section for cable, anchor angle and cable end assembly.		
34 71 13 26-0208	EA	Box Beam To Corrugated Beam Rail Bolted Section.....	689.10	
34 71 13 26-0209	EA	Box Beam To Corrugated Beam Rail Bolted Plate	414.15	
		Note: For making cable connections.		
34 71 13 26-0210		Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0206) Note: Use cable guide rail section for anchor angle and cable end assembly.		
34 71 13 26-0211	EA	Box Beam Median Barrier To Corrugated Beam Bolted Section	702.84	
34 71 13 26-0212	EA	Box Beam Median Barrier To Corrugated Beam Harness Plate	414.15	
		Note: For making cable connections.		
34 71 13 26-0213		Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0206) Note: Use cable guide rail section for cable, anchor angle and end connections at anchor unit.		
34 71 13 26-0214	EA	Box Beam to Cable Guide Rail U-bolt And Plate	96.41	16.56
34 71 13 26-0215		Transition Box Beam Median Barrier To Concrete Median Barrier (34 71 13 26-0206) Note: For end treatment sections for rub rail turnback, use box beam guide rail end treatments.		
34 71 13 26-0216	EA	Box Beam Median Barrier To Concrete Barrier End Connection.....	964.04	
34 71 13 26-0217		Transition Thrie Beam To Concrete Median Barrier (34 71 13 26-0206)		
34 71 13 26-0218	EA	Thrie Beam Terminal Connector At Concrete Median Barrier.....	620.36	
34 71 13 26-0219	EA	Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	792.20	
34 71 16		Impact Attenuating Devices (34 71)		
34 71 16 00-0001		Guard Rail Energy Absorbing Terminals (34 71 16) Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002		24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0003	EA	24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	27,424.18	3,168.88
34 71 16 00-0004	EA	24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	37,939.05	4,225.18
34 71 16 00-0005	EA	24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	51,592.02	5,545.55
34 71 16 00-0006	EA	24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	57,936.02	6,865.92
34 71 16 00-0007		30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	29,659.00	3,565.00
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	41,136.28	4,753.33
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	56,300.76	6,337.77
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	64,814.64	7,658.14
34 71 16 00-0012 36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0013 EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	31,915.77	3,961.10
34 71 16 00-0014 EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	44,354.82	5,281.47
34 71 16 00-0015 EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	60,460.87	6,997.95
34 71 16 00-0016 EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	71,670.42	8,450.36
34 71 16 00-0017 69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0018 EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	34,617.69	4,357.22
34 71 16 00-0019 EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	47,746.82	5,809.62
34 71 16 00-0020 EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	65,313.49	7,658.14
34 71 16 00-0021 EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	77,093.58	9,242.58
34 71 16 00-0022 90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0023 EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	37,384.08	4,753.33
34 71 16 00-0024 EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	51,214.69	6,337.77
34 71 16 00-0025 EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	70,846.24	8,450.36
34 71 16 00-0026 EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	82,650.85	10,034.80
34 71 19 Vehicle Delineators (34 71)		
34 71 19 16 Flexible Vehicle Delineators (34 71 19)		
34 71 19 16-0001 EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator	79.30	7.90
34 71 19 16-0002 EA 3' High, 3" Diameter Flexible Fixed Stanchion Delineator	80.40	7.90
34 71 19 16-0003 EA 3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	81.49	7.90
34 71 19 16-0004 EA 4' High, 3" Diameter Flexible Fixed Stanchion Delineator	82.59	7.90
34 80 Bridges (34)		
34 82 Bridge Specialties (34 80)		
34 82 23 Bridge Railing (34 82)		
34 82 23 00-0001 Metal Bridge Railing (34 82 23)		
Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002 LF 2" x 2" x 1/8" Bridge Railing	38.96	3.64
34 82 23 00-0003 LF 3" x 3" x 5/16" Bridge Railing	66.65	5.67
34 82 23 00-0004 LF 5" x 3" x 1/4" Bridge Railing	85.79	8.31
34 82 23 00-0005 LF 6" x 6" x 3/16" Bridge Railing	113.90	10.47
34 82 23 00-0006 LF 5" Outside Diameter x 1/4" Bridge Railing	91.43	8.07
34 82 23 00-0007 Bridge Post (34 82 23)		
Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008 EA 6" x 9" x 5'-6" Bridge Post	149.13	44.07
34 82 23 00-0009 EA 6" x 9" x 7' Bridge Post	184.30	46.83
34 82 23 00-0010 EA Two Rail With Base Plate Bridge Post Assembly	420.75	82.63
34 82 23 00-0011 EA Two Rail With Curb Bridge Post Assembly	514.65	88.14
34 82 23 00-0012 EA Two Rail (Curbless) Bridge Post Assembly	470.77	88.14
34 82 23 00-0013 EA Two Rail With Optional Handrail Bridge Post Assembly	564.18	88.14
34 82 23 00-0014 EA Four Rail (Curbless) With Base Plate Bridge Post	484.76	93.65
34 82 23 00-0015 EA Four Rail With Base Plate (Sidewalk Type) Bridge Post	484.88	93.65
34 82 23 00-0016 EA Four Rail With Curb Bridge Post Assembly	719.64	93.65
34 82 23 00-0017 EA Four Rail (Curbless) Bridge Post Assembly	738.71	93.65
34 82 23 00-0018 EA Five Rail With Base Plate (Curbless) Bridge Post Assembly	538.48	99.16
34 82 23 00-0019 Bridge Railing Splices (34 82 23)		
Note: Includes hardware for splices.		
34 82 23 00-0020 EA 5" Outside Diameter Bridge Railing Splice	219.79	21.09
34 82 23 00-0021 EA 5" x 3" Bridge Railing Splice	131.35	18.46
34 82 23 00-0022 EA 3" x 3" Bridge Railing Splice	81.02	13.18
34 82 23 00-0023 EA 2" x 2" Bridge Railing Splice	41.56	9.49
34 82 23 00-0024 EA 5" x 5" x 3' Expansion Splice Tube	167.35	20.39
34 82 23 00-0025 EA 4" x 2" x 3' Expansion Splice Bar	178.07	20.39
34 82 23 00-0026 EA 5" x 5" x 2' Fixed Splice Tube	153.25	20.39
34 82 23 00-0027 EA 4" x 2" x 2' Fixed Splice Bar	157.12	20.39
34 82 23 00-0028 EA 6" x 6" x 3/16" Box x 9' Flare Tube	225.98	27.54
34 82 23 00-0029 Transition For Bridge Railing (34 82 23)		
Note: Includes hardware for transition for bridge railing.		



Transportation		34	34
Bridges		34 80	
Bridge Specialties		34 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0030 EA Two Rail Box Beam To Bridge Transition With Splices	922.47	110.18
34 82 23 00-0031 EA Four Rail Box Beam To Bridge Transition With Splices.....	1,141.92	121.19
34 82 23 00-0032 EA 6" x 6" x 16-1/2' Bottom Transition Tube.....	391.26	55.09
34 82 23 00-0033 EA 6" x 6" x 22' Bottom Transition Tube.....	481.00	60.59
34 82 23 00-0034 EA 6" x 6" x 16-1/2' Top Transition Tube.....	400.74	55.09
34 82 23 00-0035 EA 6" x 6" x 21-1/2' Top Transition Tube.....	473.16	60.59
34 82 23 00-0036 Anchor Plates And End Caps For Bridge Railing (34 82 23)		
34 82 23 00-0037 EA 14" x 14" Bridge Railing Anchor Plate.....	41.22	5.27
34 82 23 00-0038 EA 18" x 22" Deck Anchor Plate.....	247.60	26.36
34 82 23 00-0039 EA 2" x 2" Bridge Railing End Cap	33.12	2.64
34 82 23 00-0040 EA 3" x 3" Bridge Railing End Cap	20.93	2.64
34 82 23 00-0041 EA 5" O.D Bridge Railing End Cap.....	20.78	2.64
34 82 26 Bridge Slope Protection (34 82)		
34 82 26 00-0001 Bridge Slope Protection (34 82 26)		
Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002 SF 8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection.....	13.72	5.35
34 82 26 00-0003 SF 8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection.....	16.31	5.90
34 82 26 00-0004 SF 8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection.....	18.00	6.27

END OF SECTION 34

34	34	Transportation
	34 80	Bridges
	34 82	Bridge Specialties



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Waterway and Marine Construction		35
Operation and Maintenance of Waterway and Marine Construction		35 01
Operation and Maintenance of Dams		35 01 70

35

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

35 Waterway and Marine Construction

35 01 Operation and Maintenance of Waterway and Marine Construction⁽³⁵⁾

35 01 70 Operation and Maintenance of Dams^(35 01)

35 01 70 00-0001 Drilling And Pressure Grouting^(35 01 70)

35 01 70 00-0002 From Top Of The Dam^(35 01 70 00-0001)

35 01 70 00-0003	LF	Pressure Grout, Top Of Dam, In Concrete, Drill 3" Nominal Grout Hole.....	107.74
35 01 70 00-0004	LF	Pressure Grout, Top Of Dam, In Rock, Drill 3" Nominal Grout Hole.....	123.77
35 01 70 00-0005	LF	Pressure Grout, Install Guide Sleeves 3-1/2" Inside Diameter, Top Of Dam.....	128.44
35 01 70 00-0006	EA	Pressure Grout, Hydraulic Pressure Test Top Of Dam.....	821.30
35 01 70 00-0007	EA	Pressure Grout, Grout Hook-Up Top Of Dam.....	436.24
35 01 70 00-0008	CWT	Pressure Grout, Portland Cement Top Of Dam.....	66.43
35 01 70 00-0009	CWT	Pressure Grout, Fluidifier In Grout Top Of Dam.....	196.31
35 01 70 00-0010	CF	Pressure Grout, Place Grout Except Hook-Ups, Top Of Dam.....	158.53

35 01 70 00-0011 Large Diameter Holes - Rotary Drilled^(35 01 70 00-0001)

35 01 70 00-0012 From Top Of The Dam^(35 01 70 00-0011)

35 01 70 00-0013	LF	Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Vertical.....	157.90
35 01 70 00-0014	LF	Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Inclined.....	171.41
35 01 70 00-0015	LF	Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Vertical.....	248.61
35 01 70 00-0016	LF	Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Inclined.....	274.22

35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001 Rubber Dam Repair^(35 05 70)

35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes).....	33.08
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	65.85
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage).....	96.51
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material.....	107.74

35 20 Waterway and Marine Construction and Equipment⁽³⁵⁾

35 24 Dredging^(35 20)

35 24 23 Clamshell Dredging^(35 24)

35 24 23 00-0001 Dredging, Barge Mounted^(35 24 23)

See CSI section 01 74 19 00-0029 for hauling material from shore or barge, 31 23 16 33-0019 for loading.			
35 24 23 00-0002	EA	Dredge Excavation Mobilization And Demobilization.....	21,663.18
<i>For Inlet Rivers And Canals, Deduct</i>			<i>-5,415.80</i>
35 24 23 00-0003	CY	Barge Mounted Clamshell Excavation Into Scows, Dumping Up To 10 Miles.....	24.07
Note: Includes tugboat to move scows or barge.			
35 24 23 00-0004	CY	Barge Mounted Dragline Or Clamshell, Hopper Dumped, Pumped 1,000' To Shore.....	21.67
Note: Includes tugboat to move barge.			
35 24 23 00-0005	CY	Hydraulic Dredge Excavation Into Scows, Dumping Up To 10 Miles.....	23.98
Note: Includes tugboat to move scows or barge.			
35 24 23 00-0006	CY	Hydraulic Dredge Excavation, Pumped 1,000' To Shore.....	20.12
Note: Includes tugboat to move barge.			

35 24 26 Backhoe/Dipper Dredging^(35 24)

35 24 26 00-0001 Dredging, Shoreline Excavators^(35 24 26)

35 24 26 00-0002	CY	Back Hoe, 1 CY Bucket, Dredging From Shore.....	13.98
35 24 26 00-0003	CY	Hydraulic Excavator, 2 CY Bucket, Dredging From Shore.....	9.51

END OF SECTION 35

35	35	Waterway and Marine Construction
	35 20	Waterway and Marine Construction and Equipment
	35 24	Dredging



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Custom Standards And Assemblies		50
CALTRANS Custom Standards And Assemblies		50 89
CALTRANS Construction Performance Requirements		50 89 80

50

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies ⁽⁵⁰⁾

50 89 80 CALTRANS Construction Performance Requirements ^(50 89)

Note: Refer to www.dot.ca.gov for CALTRANS Standard Plans and Specifications

50 89 81 CALTRANS DIVISION I - GENERAL PROVISIONS ^(50 89 80)

50 89 81 01 PAYMENT ^(50 89 81)

Note: Includes equipment mobilization, hauling over 25 miles, overtime, specialty labor, specialty equipment, reimbursables and permits per CALTRANS Standard. See CSI section 01 22 16 00-0001 for Reimbursable fees and permits, 01 22 20 00-0000 for specialty labor, 01 22 23 00-0000 for specialty equipment, 01 71 13 00-0000 for equipment mobilization, 01 74 19 00-0029 for hauling >25 miles.

50 89 81 01-0001	EA	CALTRANS 999990 MOBILIZATION	0.00
Note: (One Time Per Job) See CSI section 01 71 13 00-0000 for mobilization of equipment.			

50 89 82 CALTRANS DIVISION II - GENERAL CONSTRUCTION ^(50 89 80)

50 89 82 12 TEMPORARY TRAFFIC CONTROL ^(50 89 82)

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the latest California MUTCD per CALTRANS Standard.

50 89 82 12-0001	EA	CALTRANS 120110 FLASHING ARROW SIGN	981.81
50 89 82 12-0002	EA	CALTRANS 120116 TYPE II BARRICADE	36.61
50 89 82 12-0003	EA	CALTRANS 120119 TRAFFIC CONE	10.51
50 89 82 12-0004	EA	CALTRANS 120120 TYPE III BARRICADE	70.64
50 89 82 12-0005	EA	CALTRANS 120140 BARRICADE (LEFT IN PLACE)	63.43
50 89 82 12-0006	SF	CALTRANS 120149 TEMPORARY PAVEMENT MARKING (PAINT)	3.11
50 89 82 12-0007	LF	CALTRANS 120151 TEMPORARY TRAFFIC STRIPE (TAPE)	4.41
50 89 82 12-0008	SF	CALTRANS 120152 TEMPORARY PAVEMENT MARKING (TAPE)	10.82
50 89 82 12-0009	LF	CALTRANS 120159 TEMPORARY TRAFFIC STRIPE (PAINT)	0.67
50 89 82 12-0010	EA	CALTRANS 120165 CHANNELIZER (SURFACE MOUNTED)	26.73
50 89 82 12-0011	EA	CALTRANS 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	57.72
50 89 82 12-0012	EA	CALTRANS 120182 PORTABLE DELINEATOR	20.46
50 89 82 12-0013	EA	CALTRANS 120198 PLASTIC TRAFFIC DRUMS	31.25
50 89 82 12-0014	EA	CALTRANS 120200 FLASHING BEACON (PORTABLE)	37.49
50 89 82 12-0015	EA	CALTRANS 120300 TEMPORARY PAVEMENT MARKER	3.03
50 89 82 12-0016	MO	CALTRANS 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA)	2,348.94
50 89 82 12-0017	MO	CALTRANS 129100 TEMPORARY CRASH CUSHION MODULE	567.03

50 89 82 13 WATER POLLUTION CONTROL ^(50 89 82)

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRANS Standard.

50 89 82 13-0001	EA	CALTRANS 130310 RAIN EVENT ACTION PLAN	546.48
50 89 82 13-0002	EA	CALTRANS 130320 STORM WATER SAMPLING AND ANALYSIS DAY	442.09
50 89 82 13-0003	EA	CALTRANS 130330 STORM WATER ANNUAL REPORT	2,185.92
50 89 82 13-0004	SY	CALTRANS 130500 TEMPORARY EROSION CONTROL BLANKET	4.83
50 89 82 13-0005	EA	CALTRANS 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	813.38
50 89 82 13-0006	SY	CALTRANS 130510 TEMPORARY MULCH	4.54
50 89 82 13-0007	SY	CALTRANS 130520 TEMPORARY HYDRAULIC MULCH	0.86
50 89 82 13-0008	SY	CALTRANS 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	0.39
50 89 82 13-0009	SY	CALTRANS 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER)	12.78
50 89 82 13-0010	SY	CALTRANS 130540 TEMPORARY TACKED STRAW	0.30
50 89 82 13-0011	SY	CALTRANS 130550 TEMPORARY HYDROSEED	0.86
50 89 82 13-0012	SY	CALTRANS 130560 TEMPORARY SOIL BINDER	0.46
50 89 82 13-0013	SY	CALTRANS 130570 TEMPORARY COVER	6.90
50 89 82 13-0014	EA	CALTRANS 130620 TEMPORARY DRAINAGE INLET PROTECTION	84.48
50 89 82 13-0015	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	9.51
Note: 12" Diameter, Type 1			
For 9" Diameter, Deduct			-1.20
For >1,000 To 10,000, Deduct			-0.89
For >10,000, Deduct			-1.51
50 89 82 13-0016	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	7.92
Note: 12" Diameter, Type 2			
For 9" Diameter, Deduct			-1.20
For >1,000 To 10,000, Deduct			-0.65
For >10,000, Deduct			-1.11
50 89 82 13-0017	LF	CALTRANS 130650 TEMPORARY GRAVEL BAG BERM	11.94
50 89 82 13-0018	LF	CALTRANS 130670 TEMPORARY REINFORCED SILT FENCE	8.85
50 89 82 13-0019	LF	CALTRANS 130680 TEMPORARY SILT FENCE	2.97
50 89 82 13-0020	LF	CALTRANS 130690 TEMPORARY STRAW BALE BARRIER	4.71
50 89 82 13-0021	EA	CALTRANS 130710 TEMPORARY CONSTRUCTION ENTRANCE	1,932.65
50 89 82 13-0022	SY	CALTRANS 130720 TEMPORARY CONSTRUCTION ROADWAY	45.72
50 89 82 13-0023	EA	CALTRANS 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY	442.09
50 89 82 13-0024	EA	CALTRANS 131104 WATER QUALITY MONITORING REPORT	751.41
50 89 82 13-0025	EA	CALTRANS 131105 WATER QUALITY ANNUAL REPORT	804.54

50 89 83 CALTRANS DIVISION III - GRADING ^(50 89 80)

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 17**GENERAL** (50 89 83)

Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRAN Standard.

50 89 83 17-0001	ACR CALTRANS 170105 CLEARING AND GRUBBING (ACRE).....	12,047.02
	Note: Includes grub and removal of stump. In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following: 1. Structure construction, 2. Pile construction, 3. Subdrainage trench excavation, 4. Removal of unsuitable material, 5. Cutting into slopes of original hillsides, old or new fill	

50 89 83 19**EARTHWORK** (50 89 83)

Note: Includes earthwork activities includes removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRAN Standard.

50 89 83 19-0001	CY CALTRANS 190101 ROADWAY EXCAVATION	18.81
	For >1,000, Deduct	-2.82
50 89 83 19-0002	CY CALTRANS 190161 ROCK EXCAVATION	34.80
50 89 83 19-0003	TON CALTRANS 190185 SHOULDER BACKING	140.31
50 89 83 19-0004	CY CALTRANS 192502 SAND BEDDING	44.82
	For Up To 8, Add	8.96
	For >8 To 16, Add	4.48
	For >16 To 64, Deduct	-3.02
	For >64 To 96, Deduct	-5.26
	For >96, Deduct	-7.50
50 89 83 19-0005	CY CALTRANS 193118 CONCRETE BACKFILL	274.10
50 89 83 19-0006	CY CALTRANS 198010 IMPORTED BORROW (CY)	73.54
50 89 83 19-0007	TON CALTRANS 198011 IMPORTED BORROW (TON)	102.95
50 89 83 19-0008	SY CALTRANS 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1	3.82
	For Up To 50, Add	0.81
	For >50 To 150, Add	0.61
	For >150 To 250, Add	0.40
	For >250 To 500, Add	0.20
50 89 83 19-0009	SY CALTRANS 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2	1.60
	For Up To 50, Add	0.36
	For >50 To 150, Add	0.27
	For >150 To 250, Add	0.17
	For >250 To 500, Add	0.09
50 89 83 19-0010	SY CALTRANS 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1	4.44
	For Up To 50, Add	0.94
	For >50 To 150, Add	0.70
	For >150 To 250, Add	0.46
	For >250 To 500, Add	0.23
50 89 83 19-0011	SY CALTRANS 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2	2.18
	For Up To 50, Add	0.48
	For >50 To 150, Add	0.35
	For >150 To 250, Add	0.23
	For >250 To 500, Add	0.12
50 89 83 19-0012	SY CALTRANS 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3	2.06
	For Up To 50, Add	0.46
	For >50 To 150, Add	0.34
	For >150 To 250, Add	0.22
	For >250 To 500, Add	0.11
50 89 83 19-0013	SY CALTRANS 198215 SUBGRADE ENHANCEMENT GEOGRID	3.47
	For Up To 50, Add	0.79
	For >50 To 150, Add	0.59
	For >150 To 250, Add	0.38
	For >250 To 500, Add	0.19
50 89 83 19-0014	SY CALTRANS 198250 GEOSYNTHETIC REINFORCEMENT	2.05

50 89 83 20**LANDSCAPE** (50 89 83)

Note: Includes materials and placement per CALTRAN Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.

50 89 83 20-0001	SF CALTRANS 200114 ROCK BLANKET	13.63
	For >5,000, Deduct	-1.84
50 89 83 20-0002	SY CALTRANS 200122 WEED GERMINATION	0.59
50 89 83 20-0003	SY CALTRANS 200123 CULTIVATION	2.61
50 89 83 20-0004	LB CALTRANS 202004 IRON SULFATE (LB)	6.89
50 89 83 20-0005	CY CALTRANS 202006 SOIL AMENDMENT	102.02
50 89 83 20-0006	EA CALTRANS 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY	1,307.84
50 89 83 20-0007	EA CALTRANS 202027 RELOCATE WATER METER	1,307.84
50 89 83 20-0008	EA CALTRANS 202028 RELOCATE IRRIGATION CONTROLLER	1,262.07
50 89 83 20-0009	LB CALTRANS 202037 ORGANIC FERTILIZER	6.99
50 89 83 20-0010	EA CALTRANS 202038 PACKET FERTILIZER	1.03
50 89 83 20-0011	LB CALTRANS 202039 SLOW-RELEASE FERTILIZER	3.57
50 89 83 20-0012	EA CALTRANS 204003 PLANT (GROUP C) (6' To 8' B&B)	387.68
50 89 83 20-0013	EA CALTRANS 204003 PLANT (GROUP C) (10' To 14' B&B)	710.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0014 EA CALTRANS 204003 PLANT (GROUP C) (16' To 20' B&B)	1,094.30	
50 89 83 20-0015 EA CALTRANS 204003 PLANT (GROUP C) (22' To 26' B&B)	1,694.29	
50 89 83 20-0016 EA CALTRANS 204005 PLANT (GROUP E)	3.33	
For >100 To 1,000, Deduct	-0.19	
For >1,000 To 5,000, Deduct	-0.30	
For >5,000, Deduct	-0.38	
50 89 83 20-0017 EA CALTRANS 204006 PLANT (GROUP F)	2.02	
For >100 To 1,000, Deduct	-0.13	
For >1,000 To 5,000, Deduct	-0.21	
For >5,000, Deduct	-0.26	
50 89 83 20-0018 EA CALTRANS 204008 PLANT (GROUP H)	5.91	
For >10 To 100, Deduct	-0.59	
For >100 To 1,000, Deduct	-1.33	
For >1,000 To 10,000, Deduct	-2.07	
For >10,000 To 25,000, Deduct	-2.96	
For >25,000, Deduct	-4.14	
50 89 83 20-0019 EA CALTRANS 204009 PLANT (GROUP I)	21.38	
For >100 To 1,000, Deduct	-1.46	
For >1,000 To 5,000, Deduct	-2.39	
For >5,000, Deduct	-2.93	
50 89 83 20-0020 EA CALTRANS 204011 PLANT (GROUP K)	519.06	
50 89 83 20-0021 EA CALTRANS 204013 PLANT (GROUP M)	6.90	
For >100 To 1,000, Deduct	-0.40	
For >1,000 To 5,000, Deduct	-0.64	
For >5,000, Deduct	-0.81	
50 89 83 20-0022 EA CALTRANS 204015 PLANT (GROUP S)	7.80	
For >100 To 1,000, Deduct	-0.49	
For >1,000 To 5,000, Deduct	-0.79	
For >5,000, Deduct	-0.99	
50 89 83 20-0023 EA CALTRANS 204020 PLANT (GROUP P)	6.50	
For >100 To 1,000, Deduct	-0.37	
For >1,000 To 5,000, Deduct	-0.59	
For >5,000, Deduct	-0.75	
50 89 83 20-0024 EA CALTRANS 204030 TRANSPLANT TREE	3,543.45	
For >5 To 10, Deduct	-177.17	
For >10 To 20, Deduct	-354.35	
For >20, Deduct	-531.52	
50 89 83 20-0025 EA CALTRANS 204035 PLANT (GROUP A)	28.78	
50 89 83 20-0026 EA CALTRANS 204036 PLANT (GROUP B)	73.00	
50 89 83 20-0027 EA CALTRANS 204038 PLANT (GROUP U)	190.31	
50 89 83 20-0028 SY CALTRANS 204045 SOD	19.26	
50 89 83 20-0029 SF CALTRANS 205033 GRAVEL MULCH	1.01	
50 89 83 20-0030 SF CALTRANS 205034 DECOMPOSED GRANITE	1.88	
50 89 83 20-0031 CY CALTRANS 205035 WOOD MULCH	107.71	
For >5 To 20, Deduct	-8.61	
For >20 To 50, Deduct	-12.92	
For >50, Deduct	-18.31	
50 89 83 20-0032 EA CALTRANS 205051 FOLIAGE PROTECTOR	35.17	
50 89 83 20-0033 EA CALTRANS 205052 ROOT PROTECTOR	25.07	
50 89 83 20-0034 LF CALTRANS 205062 ROOT BARRIER	10.92	
50 89 83 20-0035 LF CALTRANS 206005 EDGING	14.77	
50 89 83 20-0036 EA CALTRANS 206561 3/4" REMOTE CONTROL VALVE	432.27	
50 89 83 20-0037 EA CALTRANS 206562 1" REMOTE CONTROL VALVE	621.41	
50 89 83 20-0038 EA CALTRANS 206563 1 1/4" REMOTE CONTROL VALVE	669.87	
50 89 83 20-0039 EA CALTRANS 206564 1 1/2" REMOTE CONTROL VALVE	722.48	
50 89 83 20-0040 EA CALTRANS 206565 2" REMOTE CONTROL VALVE	791.75	
50 89 83 20-0041 EA CALTRANS 206566 2 1/2" REMOTE CONTROL VALVE	1,172.88	
50 89 83 20-0042 EA CALTRANS 206567 3" REMOTE CONTROL VALVE	1,554.01	
50 89 83 20-0043 EA CALTRANS 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR	867.71	
50 89 83 20-0044 EA CALTRANS 206630 3/4" WYE STRAINER ASSEMBLY	379.50	
50 89 83 20-0045 EA CALTRANS 206631 1" WYE STRAINER ASSEMBLY	409.87	
50 89 83 20-0046 EA CALTRANS 206632 1 1/4" WYE STRAINER ASSEMBLY	454.77	
50 89 83 20-0047 EA CALTRANS 206633 1 1/2" WYE STRAINER ASSEMBLY	480.81	
50 89 83 20-0048 EA CALTRANS 206634 2" WYE STRAINER ASSEMBLY	567.85	
50 89 83 20-0049 EA CALTRANS 206635 2-1/2" WYE STRAINER ASSEMBLY	842.00	
50 89 83 20-0050 EA CALTRANS 206636 3" WYE STRAINER ASSEMBLY	933.20	
50 89 83 20-0051 EA CALTRANS 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	689.13	
50 89 83 20-0052 EA CALTRANS 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	981.50	
50 89 83 20-0053 EA CALTRANS 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	1,336.76	
50 89 83 20-0054 EA CALTRANS 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	1,725.11	
50 89 83 20-0055 EA CALTRANS 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	2,263.31	
50 89 83 20-0056 EA CALTRANS 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	2,799.43	
50 89 83 20-0057 LF CALTRANS 207050 1/2" COPPER PIPE (SUPPLY LINE)	11.15	
For >1,000, Deduct	-0.56	
50 89 83 20-0058 LF CALTRANS 207051 3/4" COPPER PIPE (SUPPLY LINE)	14.60	
For >1,000, Deduct	-0.73	
50 89 83 20-0059 LF CALTRANS 207052 1" COPPER PIPE (SUPPLY LINE)	17.89	
For >1,000, Deduct	-0.89	
50 89 83 20-0060 LF CALTRANS 207053 1 1/4" COPPER PIPE (SUPPLY LINE)	23.20	
For >1,000, Deduct	-1.16	
50 89 83 20-0061 LF CALTRANS 207054 1 1/2" COPPER PIPE (SUPPLY LINE)	27.84	
For >1,000, Deduct	-1.39	
50 89 83 20-0062 LF CALTRANS 207055 2" COPPER PIPE (SUPPLY LINE)	37.69	
For >1,000, Deduct	-1.88	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0063 LF CALTRANS 207056 3" COPPER PIPE (SUPPLY LINE).....	73.29	
For >1,000, Deduct	-3.66	
50 89 83 20-0064 LF CALTRANS 207057 4" COPPER PIPE (SUPPLY LINE).....	113.90	
For >1,000, Deduct	-5.70	
50 89 83 20-0065 LF CALTRANS 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	49.34	
For >1,000, Deduct	-2.47	
50 89 83 20-0066 LF CALTRANS 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	13.51	
For >1,000, Deduct	-0.68	
50 89 83 20-0067 LF CALTRANS 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	15.58	
For >1,000, Deduct	-0.78	
50 89 83 20-0068 LF CALTRANS 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	18.26	
For >1,000, Deduct	-0.91	
50 89 83 20-0069 LF CALTRANS 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	21.46	
For >1,000, Deduct	-1.07	
50 89 83 20-0070 LF CALTRANS 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	25.03	
For >1,000, Deduct	-1.25	
50 89 83 20-0071 LF CALTRANS 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	31.64	
For >1,000, Deduct	-1.58	
50 89 83 20-0072 LF CALTRANS 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	47.68	
For >1,000, Deduct	-2.38	
50 89 83 20-0073 LF CALTRANS 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	67.06	
For >1,000, Deduct	-3.35	
50 89 83 20-0074 LF CALTRANS 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	100.26	
For >1,000, Deduct	-5.01	
50 89 83 20-0075 LF CALTRANS 208026 2" SUPPLY LINE (BRIDGE).....	53.73	
50 89 83 20-0076 LF CALTRANS 208027 2 1/2" SUPPLY LINE (BRIDGE).....	65.84	
50 89 83 20-0077 LF CALTRANS 208028 3" SUPPLY LINE (BRIDGE).....	79.74	
50 89 83 20-0078 LF CALTRANS 208029 4" SUPPLY LINE (BRIDGE).....	115.75	
50 89 83 20-0079 LF CALTRANS 208030 6" SUPPLY LINE (BRIDGE).....	286.10	
50 89 83 20-0080 LF CALTRANS 208033 8" SUPPLY LINE (BRIDGE).....	620.26	
50 89 83 20-0081 LF CALTRANS 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	39.17	
50 89 83 20-0082 LF CALTRANS 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	56.20	
50 89 83 20-0083 LF CALTRANS 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	69.03	
50 89 83 20-0084 LF CALTRANS 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	101.67	
50 89 83 20-0085 LF CALTRANS 208220 1/2" DRIP IRRIGATION TUBING.....	2.69	
50 89 83 20-0086 LF CALTRANS 208221 3/4" DRIP IRRIGATION TUBING.....	2.85	
50 89 83 20-0087 EA CALTRANS 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	3,235.10	
50 89 83 20-0088 EA CALTRANS 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	1,652.39	
50 89 83 20-0089 EA CALTRANS 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	1,754.58	
50 89 83 20-0090 EA CALTRANS 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	2,281.10	
50 89 83 20-0091 EA CALTRANS 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	2,490.30	
50 89 83 20-0092 EA CALTRANS 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	3,311.44	
50 89 83 20-0093 EA CALTRANS 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	7,309.86	
50 89 83 20-0094 EA CALTRANS 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	8,454.02	
50 89 83 20-0095 EA CALTRANS 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	9,235.95	
50 89 83 20-0096 EA CALTRANS 208440 BACKFLOW PREVENTER ENCLOSURE.....	2,218.48	
50 89 83 20-0097 EA CALTRANS 208442 FLOW SENSOR.....	1,393.93	
50 89 83 20-0098 EA CALTRANS 208447 POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN).....	81.12	15.69
50 89 83 20-0099 EA CALTRANS 208448 RISER SPRINKLER ASSEMBLY.....	54.79	15.69
50 89 83 20-0100 EA CALTRANS 208449 POP-UP SPRINKLER ASSEMBLY.....	54.03	15.69
50 89 83 20-0101 EA CALTRANS 208562 CAM COUPLER ASSEMBLY.....	507.44	
50 89 83 20-0102 EA CALTRANS 208569 1/2" GATE VALVE.....	344.64	
50 89 83 20-0103 EA CALTRANS 208570 3/4" GATE VALVE.....	366.22	
50 89 83 20-0104 EA CALTRANS 208572 1" GATE VALVE.....	397.76	
50 89 83 20-0105 EA CALTRANS 208573 1 1/4" GATE VALVE.....	436.99	
50 89 83 20-0106 EA CALTRANS 208574 1 1/2" GATE VALVE.....	463.57	
50 89 83 20-0107 EA CALTRANS 208575 2" GATE VALVE.....	524.98	
50 89 83 20-0108 EA CALTRANS 208576 2 1/2" GATE VALVE.....	823.47	
50 89 83 20-0109 EA CALTRANS 208588 3" GATE VALVE.....	934.76	
50 89 83 20-0110 EA CALTRANS 208589 4" GATE VALVE.....	1,256.00	
50 89 83 20-0111 EA CALTRANS 208590 6" GATE VALVE.....	1,631.71	
50 89 83 20-0112 EA CALTRANS 208591 8" GATE VALVE.....	2,326.76	
50 89 83 20-0113 LF CALTRANS 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.81	
For Schedule 80, Add	0.21	
For >1,000, Deduct	-0.34	
50 89 83 20-0114 LF CALTRANS 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.02	
For Schedule 80, Add	0.26	
For >1,000, Deduct	-0.35	
50 89 83 20-0115 LF CALTRANS 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	8.02	
For Schedule 80, Add	0.42	
For >1,000, Deduct	-0.40	
50 89 83 20-0116 LF CALTRANS 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.63	
For Schedule 80, Add	0.63	
For >1,000, Deduct	-0.48	
50 89 83 20-0117 LF CALTRANS 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.90	
For Schedule 80, Add	0.84	
For >1,000, Deduct	-0.50	
50 89 83 20-0118 LF CALTRANS 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	11.82	
For Schedule 80, Add	1.42	
For >1,000, Deduct	-0.59	
50 89 83 20-0119 LF CALTRANS 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	14.50	
For Schedule 80, Add	1.85	
For >1,000, Deduct	-0.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0120 LF CALTRANS 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	19.02	
For Schedule 80, Add	2.58	
For >1,000, Deduct	-0.95	
50 89 83 20-0121 LF CALTRANS 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	24.16	
For Schedule 80, Add	3.95	
For >1,000, Deduct	-1.21	
50 89 83 20-0122 LF CALTRANS 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	33.59	
For Schedule 80, Add	8.80	
For >1,000, Deduct	-1.68	
50 89 83 20-0123 LF CALTRANS 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	41.08	
For Schedule 80, Add	13.50	
For >1,000, Deduct	-2.05	
50 89 83 20-0124 LF CALTRANS 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	86.31	
For Schedule 80, Add	41.96	
For >1,000, Deduct	-4.32	
50 89 83 20-0125 LF CALTRANS 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	12.56	
For >1,000, Deduct	-0.63	
50 89 83 20-0126 LF CALTRANS 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	15.69	
For >1,000, Deduct	-0.78	
50 89 83 20-0127 LF CALTRANS 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	19.02	
For >1,000, Deduct	-0.95	
50 89 83 20-0128 LF CALTRANS 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	24.16	
For >1,000, Deduct	-1.21	
50 89 83 20-0129 LF CALTRANS 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	34.13	
For >1,000, Deduct	-1.71	
50 89 83 20-0130 EA CALTRANS 208631 3/4" PRESSURE RELIEF VALVE	898.07	
50 89 83 20-0131 EA CALTRANS 208632 1 1/2" PRESSURE RELIEF VALVE	1,368.13	
50 89 83 20-0132 EA CALTRANS 208633 1" PRESSURE RELIEF VALVE	1,053.25	
50 89 83 20-0133 EA CALTRANS 208634 2" PRESSURE RELIEF VALVE	1,539.35	
50 89 83 20-0134 EA CALTRANS 208640 PRESSURE REGULATING VALVE (3/4")	287.49	
50 89 83 20-0135 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1")	374.34	
50 89 83 20-0136 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/4")	632.20	
50 89 83 20-0137 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/2")	855.11	
50 89 83 20-0138 EA CALTRANS 208640 PRESSURE REGULATING VALVE (2")	1,227.67	
50 89 83 20-0139 EA CALTRANS 208649 QUICK COUPLING VALVE	540.56	
50 89 83 20-0140 EA CALTRANS 208670 1/2" CHECK VALVE	358.74	
50 89 83 20-0141 EA CALTRANS 208670 3/4" CHECK VALVE	383.87	
50 89 83 20-0142 EA CALTRANS 208670 1" CHECK VALVE	416.12	
50 89 83 20-0143 EA CALTRANS 208670 1 1/4" CHECK VALVE	465.83	
50 89 83 20-0144 EA CALTRANS 208670 1 1/2" CHECK VALVE	514.45	
50 89 83 20-0145 EA CALTRANS 208670 2" CHECK VALVE	582.79	
50 89 83 20-0146 EA CALTRANS 208670 2 1/2" CHECK VALVE	885.07	
50 89 83 20-0147 EA CALTRANS 208670 3" CHECK VALVE	967.80	
50 89 83 20-0148 EA CALTRANS 208670 4" CHECK VALVE	1,391.39	
50 89 83 20-0149 EA CALTRANS 208670 6" CHECK VALVE	1,916.62	
50 89 83 20-0150 EA CALTRANS 208670 8" CHECK VALVE	3,750.78	
50 89 83 20-0151 EA CALTRANS 208683 1/2" BALL VALVE	325.33	
50 89 83 20-0152 EA CALTRANS 208683 3/4" BALL VALVE	355.68	
50 89 83 20-0153 EA CALTRANS 208683 1" BALL VALVE	366.11	
50 89 83 20-0154 EA CALTRANS 208683 1 1/4" BALL VALVE	402.21	
50 89 83 20-0155 EA CALTRANS 208683 1 1/2" BALL VALVE	420.42	
50 89 83 20-0156 EA CALTRANS 208683 2" BALL VALVE	460.21	
50 89 83 20-0157 EA CALTRANS 208683 2 1/2" BALL VALVE	520.00	
50 89 83 20-0158 LF CALTRANS 208690 PVC PIPE CONDUIT (SLEEVE)	41.08	
For >1,000, Deduct	-2.05	
50 89 83 20-0159 LF CALTRANS 208702 8" ABS COMPOSITE PIPE CONDUIT	36.74	
For >1,000, Deduct	-1.84	
50 89 83 20-0160 LF CALTRANS 208703 10" ABS COMPOSITE PIPE CONDUIT	48.51	
For >1,000, Deduct	-2.43	
50 89 83 20-0161 LF CALTRANS 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	22.63	
50 89 83 20-0162 LF CALTRANS 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	28.91	
50 89 83 20-0163 LF CALTRANS 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	33.54	
50 89 83 20-0164 LF CALTRANS 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	23.14	
50 89 83 20-0165 LF CALTRANS 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	28.66	
50 89 83 20-0166 LF CALTRANS 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	35.47	
50 89 83 20-0167 LF CALTRANS 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	39.77	
50 89 83 20-0168 LF CALTRANS 208813 1 1/4" WELDED STEEL PIPE CONDUIT	24.27	
For >1,000, Deduct	-1.21	
50 89 83 20-0169 LF CALTRANS 208814 1 1/2" WELDED STEEL PIPE CONDUIT	28.08	
For >1,000, Deduct	-1.40	
50 89 83 20-0170 LF CALTRANS 208815 2" WELDED STEEL PIPE CONDUIT	32.45	
For >1,000, Deduct	-1.62	
50 89 83 20-0171 LF CALTRANS 208816 3" WELDED STEEL PIPE CONDUIT	42.03	
For >1,000, Deduct	-2.10	
50 89 83 20-0172 LF CALTRANS 208817 4" WELDED STEEL PIPE CONDUIT	54.70	
For >1,000, Deduct	-2.74	
50 89 83 20-0173 LF CALTRANS 208818 6" WELDED STEEL PIPE CONDUIT	73.99	
For >1,000, Deduct	-3.70	
50 89 83 20-0174 LF CALTRANS 208819 8" WELDED STEEL PIPE CONDUIT	104.14	
For >1,000, Deduct	-5.21	
50 89 83 20-0175 LF CALTRANS 208820 10" WELDED STEEL PIPE CONDUIT	133.41	
For >1,000, Deduct	-6.67	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0176 LF CALTRANS 208821 12" WELDED STEEL PIPE CONDUIT.....	167.05	
For >1,000, Deduct	-8.35	
50 89 83 21 EROSION CONTROL (50 89 83)		
Note: Includes applying permanent erosion control measures to the soil surface per CALTRAN Standard.		
50 89 83 21-0001 EA CALTRANS 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL).....	325.35	
50 89 83 21-0002 CY CALTRANS 210110 IMPORTED TOPSOIL (CY).....	73.54	
50 89 83 21-0003 TON CALTRANS 210111 IMPORTED TOPSOIL (TON).....	91.91	
50 89 83 21-0004 SF CALTRANS 210212 DRY SEED (SQFT).....	0.10	
50 89 83 21-0005 ACR CALTRANS 210213 DRY SEED (ACRE).....	4,180.51	
For >5 To 20, Deduct	-294.91	
For >20 To 45, Deduct	-571.20	
For >45, Deduct	-933.37	
50 89 83 21-0006 SY CALTRANS 210222 DRILL SEED (SQYD).....	0.33	
50 89 83 21-0007 ACR CALTRANS 210223 DRILL SEED (ACRE).....	1,649.36	
50 89 83 21-0008 SF CALTRANS 210252 BONDED FIBER MATRIX (SQFT).....	0.08	
50 89 83 21-0009 ACR CALTRANS 210253 BONDED FIBER MATRIX (ACRE).....	3,715.29	
50 89 83 21-0010 SF CALTRANS 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH).....	0.34	
50 89 83 21-0011 SF CALTRANS 210270 ROLLED EROSION CONTROL PRODUCT (NETTING).....	1.48	
50 89 83 21-0012 SF CALTRANS 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET).....	0.48	
50 89 83 21-0013 SF CALTRANS 210290 ROLLED EROSION CONTROL PRODUCT (TRM).....	1.34	
50 89 83 21-0014 SF CALTRANS 210300 HYDROMULCH.....	0.10	
50 89 83 21-0015 LF CALTRANS 210350 FIBER ROLL.....	9.51	
Note: 12" Diameter, Type 1		
For 9" Diameter, Deduct	-1.20	
For >1,000 To 10,000, Deduct	-0.89	
For >10,000, Deduct	-1.51	
50 89 83 21-0016 LF CALTRANS 210350 FIBER ROLL.....	7.92	
Note: 12" Diameter, Type 2		
For 9" Diameter, Deduct	-1.20	
For >1,000 To 10,000, Deduct	-0.65	
For >10,000, Deduct	-1.11	
50 89 83 21-0017 LF CALTRANS 210360 COMPOST SOCK.....	9.55	
50 89 83 21-0018 SF CALTRANS 210420 STRAW.....	0.20	
50 89 83 21-0019 SF CALTRANS 210430 HYDROSEED.....	0.10	
50 89 83 21-0020 CY CALTRANS 210610 COMPOST (CY).....	81.06	
For >100 To 1,000, Deduct	-13.74	
For >1,000, Deduct	-21.02	
50 89 83 21-0021 SF CALTRANS 210630 INCORPORATE MATERIALS.....	0.05	
50 89 84 CALTRANS DIVISION IV - SUBBASES AND BASES (50 89 80)		
50 89 84 24 STABILIZED SOILS (50 89 84)		
50 89 84 24-0001 SY CALTRANS 240105 LIME STABILIZED SOIL.....	15.63	
For 4% Lime Instead Of 5%, Deduct	-0.55	
For 6% Lime Instead Of 5%, Add	0.55	
50 89 84 24-0002 SY CALTRANS 240300 CEMENT STABILIZED SOIL.....	12.89	
50 89 84 25 AGGREGATE SUBBASES (50 89 84)		
Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.		
50 89 84 25-0001 CY CALTRANS 250101 CLASS 1 AGGREGATE SUBBASE.....	136.12	
50 89 84 25-0002 CY CALTRANS 250201 CLASS 2 AGGREGATE SUBBASE.....	81.78	
50 89 84 25-0003 CY CALTRANS 250301 CLASS 3 AGGREGATE SUBBASE.....	79.18	
50 89 84 25-0004 CY CALTRANS 250401 CLASS 4 AGGREGATE SUBBASE.....	79.15	
50 89 84 25-0005 CY CALTRANS 250501 CLASS 5 AGGREGATE SUBBASE.....	79.12	
50 89 84 26 AGGREGATE BASES (50 89 84)		
Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.		
50 89 84 26-0001 CY CALTRANS 260200 AGGREGATE BASE.....	135.01	
For Recycled Aggregate Base, Deduct	-10.70	
50 89 84 26-0002 TON CALTRANS 260202 CLASS 2 AGGREGATE BASE (TON).....	77.75	
50 89 84 26-0003 CY CALTRANS 260203 CLASS 2 AGGREGATE BASE (CY).....	81.78	
50 89 84 26-0004 TON CALTRANS 260302 CLASS 3 AGGREGATE BASE (TON).....	74.21	
50 89 84 26-0005 CY CALTRANS 260303 CLASS 3 AGGREGATE BASE (CY).....	79.18	
50 89 84 27 CEMENT TREATED BASES (50 89 84)		
Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRAN Standard.		
50 89 84 27-0001 TON CALTRANS 270002 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON).....	47.21	
For Up To 500, Add	13.91	
For >500 To 1,000, Add	4.72	
For >5,000 To 10,000, Deduct	-1.79	
For >10,000, Deduct	-3.07	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 84 27-0002 CY CALTRANS 270003 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY).....	63.84	
For Up To 500, Add	18.83	
For >500 To 1,000, Add	6.38	
For >5,000 To 10,000, Deduct	-2.43	
For >10,000, Deduct	-4.15	
50 89 84 27-0003 TON CALTRANS 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON).....	38.79	
For Up To 500, Add	11.38	
For >500 To 1,000, Add	3.88	
For >5,000 To 10,000, Deduct	-1.47	
For >10,000, Deduct	-2.52	
50 89 84 27-0004 CY CALTRANS 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY).....	55.43	
For Up To 500, Add	16.31	
For >500 To 1,000, Add	5.54	
For >5,000 To 10,000, Deduct	-2.11	
For >10,000, Deduct	-3.60	
50 89 84 28 CONCRETE BASES (50 89 84)		
Note: Includes constructing concrete bases and placing concrete per CALTRAN Standard.		
50 89 84 28-0001 CY CALTRANS 280001 CONCRETE BASE	291.94	
50 89 84 29 TREATED PERMEABLE BASES (50 89 84)		
Note: Includes constructing treated permeable bases, spreading, and placement per CALTRAN Standard.		
50 89 84 29-0001 CY CALTRANS 290301 CEMENT TREATED PERMEABLE BASE.....	830.01	
For >5,000 To 30,000, Deduct	-89.26	
For >30,000 To 100,000, Deduct	-164.03	
For >100,000, Deduct	-203.69	
50 89 84 30 RECLAIMED PAVEMENT (50 89 84)		
Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRAN Standard.		
50 89 84 30-0001 SF CALTRANS 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT	21.04	
50 89 84 30-0002 SY CALTRANS 303000 PULVERIZED ROADBED	4.71	
50 89 85 CALTRANS DIVISION V - SURFACINGS AND PAVEMENTS (50 89 80)		
50 89 85 37 BITUMINOUS SEALS (50 89 85)		
Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRAN Standard.		
50 89 85 37-0001 SY CALTRANS 370001 SAND COVER (SEAL).....	1.25	
50 89 85 37-0002 SY CALTRANS 374002 ASPHALTIC EMULSION (FOG SEAL COAT)	0.66	
50 89 85 37-0003 LNMI CALTRANS 374207 CRACK TREATMENT	5,938.55	
50 89 85 37-0004 SY CALTRANS 374491 NONPOLYMER ASPHALTIC EMULSION (SEAL COAT)	4.10	
50 89 85 37-0005 SY CALTRANS 374493 POLYMER ASPHALTIC EMULSION (SEAL COAT)	7.51	
50 89 85 37-0006 TON CALTRANS 375001 SCREENINGS	96.10	
For Up To 14, Add	26.93	
For >14 To 35, Add	9.61	
50 89 85 37-0007 SY CALTRANS 375009 TACK COAT (SEAL).....	0.87	
For Up To 150, Add	0.18	
For >150 To 300, Add	0.09	
For >300 To 500, Add	0.04	
For >3,500 To 5,000, Deduct	-0.02	
For >5,000, Deduct	-0.06	
50 89 85 37-0008 SY CALTRANS 377501 SLURRY SEAL (TYPE I)	2.54	
Note: 1/8" thick.		
For Each 0.5% Of Latex Addition, Add	0.20	
50 89 85 37-0009 SY CALTRANS 377501 SLURRY SEAL (TYPE II)	3.34	
Note: 1/4" thick, 14 to 18 Lbs/SY.		
For Each 0.5% Of Latex Addition, Add	0.30	
50 89 85 37-0010 SY CALTRANS 377501 SLURRY SEAL (TYPE III)	4.29	
Note: 3/8" thick, 25 to 30 Lbs/SY.		
For Each 0.5% Of Latex Addition, Add	0.49	
50 89 85 37-0011 SY CALTRANS 378000 MICRO-SURFACING.....	8.40	
50 89 85 39 ASPHALT CONCRETE (50 89 85)		
Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRAN Standard.		
50 89 85 39-0001 TON CALTRANS 390100 PRIME COAT	1,049.89	
50 89 85 39-0002 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A)	39.55	
50 89 85 39-0003 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (UP TO 25)	280.06	
50 89 85 39-0004 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100)	245.72	
50 89 85 39-0005 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250)	211.01	
50 89 85 39-0006 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>250)	179.25	
50 89 85 39-0007 TON CALTRANS 390136 MINOR HOT MIX ASPHALT (UP TO 25)	287.41	
50 89 85 39-0008 TON CALTRANS 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	176.00	
Note: Includes placement, rolling, finishing and sweeping.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0009 SY CALTRANS 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....	1.35	
Note: 4.1 Oz/SY, 100# 1-Inch Grab Tensile, Nonwoven Polypropylene		
For Up To 50, Add	0.31	
For >50 To 150, Add	0.23	
For >150 To 250, Add	0.15	
For >250 To 500, Add	0.07	
50 89 85 39-0010 LF CALTRANS 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B).....	9.28	
50 89 85 39-0011 LF CALTRANS 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A).....	6.74	
50 89 85 39-0012 LF CALTRANS 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C).....	3.51	
50 89 85 39-0013 LF CALTRANS 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D).....	14.86	
50 89 85 39-0014 LF CALTRANS 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E).....	9.63	
50 89 85 39-0015 LF CALTRANS 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F).....	5.15	
50 89 85 39-0016 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) Up To 2".....	16.44	
For Up To 500, Add	2.49	
For >500 To 1,000, Add	1.41	
For >5,000 To 10,000, Deduct	-0.68	
For >10,000 To 24,000, Deduct	-1.24	
For >24,000 To 48,000, Deduct	-1.92	
For >48,000, Deduct	-2.77	
50 89 85 39-0017 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >2" To 3".....	23.10	
For Up To 300, Add	3.30	
For >300 To 600, Add	2.72	
For >3,000 To 6,000, Deduct	-0.99	
For >6,000 To 16,000, Deduct	-1.80	
For >16,000 To 32,000, Deduct	-2.79	
For >32,000, Deduct	-4.01	
50 89 85 39-0018 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >3" To 4".....	31.63	
For Up To 250, Add	4.22	
For >250 To 500, Add	2.32	
For >2,500 To 5,000, Deduct	-1.41	
For >5,000 To 12,000, Deduct	-2.55	
For >12,000 To 24,000, Deduct	-3.96	
For >24,000, Deduct	-5.68	
50 89 85 39-0019 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >4" To 6".....	47.45	
For Up To 160, Add	6.33	
For >160 To 320, Add	3.48	
For >1,600 To 3,200, Deduct	-2.11	
For >3,200 To 8,000, Deduct	-3.83	
For >8,000 To 16,000, Deduct	-5.94	
For >16,000, Deduct	-8.52	
50 89 85 39-0020 TON CALTRANS 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....	176.00	
50 89 85 39-0021 TON CALTRANS 397005 TACK COAT.....	692.23	
50 89 85 39-0022 SF CALTRANS 398000 REMOVE ASPHALT CONCRETE PAVEMENT (CY).....	180.52	
For >500 To 1,000, Deduct	-18.05	
For >1,000 To 2,500, Deduct	-32.49	
For >2,500 To 5,000, Deduct	-46.94	
For >5,000 To 10,000, Deduct	-61.38	
For >10,000, Deduct	-75.82	
50 89 85 39-0023 SF CALTRANS 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT).....	3.06	
For >500 To 1,000, Deduct	-0.31	
For >1,000 To 2,500, Deduct	-0.55	
For >2,500 To 5,000, Deduct	-0.80	
For >5,000 To 10,000, Deduct	-1.04	
For >10,000, Deduct	-1.29	
50 89 85 39-0024 LF CALTRANS 398100 REMOVE ASPHALT CONCRETE DIKE.....	5.08	
50 89 85 39-0025 SY CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (Up To 3").....	4.22	
For Up To 2,500, Add	3.17	
For >2,500 To 5,000, Add	1.06	
For >10,000 To 25,000, Deduct	-0.42	
For >25,000, Deduct	-0.63	
50 89 85 39-0026 SY CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (>3" To 6").....	5.63	
For Up To 2,500, Add	4.22	
For >2,500 To 5,000, Add	1.41	
For >10,000 To 25,000, Deduct	-0.56	
For >25,000, Deduct	-0.84	

50 89 85 40 CONCRETE PAVEMENT (50 89 85)

Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRAN Standard.

50 89 85 40-0001 CY CALTRANS 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT.....	412.11	
For >1,000 To 5,000, Deduct	-16.38	
For >5,000, Deduct	-45.17	
50 89 85 40-0002 CY CALTRANS 401050 JOINTED PLAIN CONCRETE PAVEMENT.....	400.73	
For >1,000 To 5,000, Deduct	-16.38	
For >5,000, Deduct	-44.60	

50 89 85 41 EXISTING CONCRETE PAVEMENT (50 89 85)

Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.

50 89 85 41-0001 EA CALTRANS 410096 DRILL AND BOND (DOWEL BAR).....	28.73	
50 89 85 41-0002 SY CALTRANS 410121 SPALL REPAIR (FAST-SETTING CONCRETE).....	416.56	
For Up To 100, Add	503.12	
For >100 To 250, Add	251.56	
50 89 85 41-0003 LF CALTRANS 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16").....	12.03	
50 89 85 41-0004 LF CALTRANS 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4").....	13.86	



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 41-0005	LF	CALTRANS 414224 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1-5/8" TO 2").....	20.14	
50 89 85 41-0006	LF	CALTRANS 414241 ISOLATION JOINT SEAL (SILICONE).....	10.52	
50 89 85 41-0007	LF	CALTRANS 414242 ISOLATION JOINT SEAL (PREFORMED COMPRESSION).....	12.55	
50 89 85 41-0008	SY	CALTRANS 416101 PAVEMENT TRANSITION TAPER	67.32	
		For Up To 100, Add	24.18	
		For >100 To 250, Add	14.12	
		For >250 To 500, Add	7.06	
		For >1,000 To 2,000, Deduct	-2.03	
		For >2,000 To 5,000, Deduct	-3.71	
		For >5,000 To 10,000, Deduct	-5.39	
		For >10,000 To 20,000, Deduct	-7.08	
		For >20,000, Deduct	-8.76	
50 89 85 41-0009	CY	CALTRANS 418002 REMOVE CONCRETE PAVEMENT AND BASE	43.17	
50 89 85 41-0010	SY	CALTRANS 418005 REMOVE CONCRETE PAVEMENT (SQYD).....	21.88	
		For >500 To 1,000, Deduct	-2.19	
		For >1,000 To 2,500, Deduct	-3.94	
		For >2,500 To 5,000, Deduct	-5.69	
		For >5,000 To 10,000, Deduct	-7.44	
		For >10,000, Deduct	-9.19	
50 89 85 42 GROOVE AND GRIND CONCRETE (50 89 85)				
Note: Includes grooving and grinding concrete roadway surfaces per CALTRAN Standard.				
50 89 85 42-0001	SY	CALTRANS 420102 GROOVE EXISTING CONCRETE PAVEMENT.....	1.62	
50 89 85 42-0002	SY	CALTRANS 420104 GROOVE EXISTING BRIDGE DECK.....	2.43	
50 89 85 42-0003	SY	CALTRANS 420201 GRIND EXISTING CONCRETE PAVEMENT.....	4.22	
		For Up To 2,500, Add	3.17	
		For >2,500 To 5,000, Add	1.06	
		For >10,000 To 25,000, Deduct	-0.42	
		For >25,000, Deduct	-0.63	
50 89 85 42-0004	SY	CALTRANS 420203 GRIND EXISTING BRIDGE DECK.....	26.73	
		For >100 To 1,000, Deduct	-13.37	
		For >1,000, Deduct	-20.05	
50 89 86 CALTRANS DIVISION VI - STRUCTURES (50 89 80)				
50 89 86 56 OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES (50 89 86)				
50 89 86 56-0001	SF	CALTRANS 560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED).....	15.09	21.70
50 89 86 60 EXISTING STRUCTURES (50 89 86)				
50 89 86 60-0001	LF	CALTRANS 600063 CORE CONCRETE (1").....	110.03	
		For Horizontal Cores, Add	21.87	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.74	
50 89 86 60-0002	LF	CALTRANS 600064 CORE CONCRETE (2").....	135.68	
		For Horizontal Cores, Add	27.00	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.00	
50 89 86 60-0003	LF	CALTRANS 600065 CORE CONCRETE (3").....	148.76	
		For Horizontal Cores, Add	29.57	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	59.13	
50 89 86 60-0004	LF	CALTRANS 600066 CORE CONCRETE (4").....	198.30	
		For Horizontal Cores, Add	39.42	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.84	
50 89 86 60-0005	LF	CALTRANS 600067 CORE CONCRETE (5").....	228.29	
		For Horizontal Cores, Add	45.36	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	90.72	
50 89 86 60-0006	LF	CALTRANS 600068 CORE CONCRETE (6").....	257.98	
		For Horizontal Cores, Add	51.30	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.60	
50 89 86 60-0007	LF	CALTRANS 600069 CORE CONCRETE (7").....	337.50	
		For Horizontal Cores, Add	67.09	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	134.19	
50 89 86 60-0008	LF	CALTRANS 600070 CORE CONCRETE (8").....	416.47	
		For Horizontal Cores, Add	82.89	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	165.78	
50 89 86 60-0009	LF	CALTRANS 600071 CORE CONCRETE (9").....	45.70	
		For Horizontal Cores, Add	8.60	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.20	
50 89 86 60-0010	LF	CALTRANS 600072 CORE CONCRETE (10").....	448.19	
		For Horizontal Cores, Add	89.10	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	178.20	
50 89 86 60-0011	LF	CALTRANS 600074 CORE CONCRETE (12").....	516.23	
		For Horizontal Cores, Add	102.60	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	205.20	
50 89 86 60-0012	LF	CALTRANS 600081 CORE CONCRETE (1 1/2").....	122.17	
		For Horizontal Cores, Add	24.30	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	48.60	
50 89 86 60-0013	LF	CALTRANS 600083 CORE CONCRETE (2 1/2").....	142.34	
		For Horizontal Cores, Add	28.28	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	56.56	
50 89 87 CALTRANS DIVISION VII - DRAINAGE FACILITIES (50 89 80)				

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
50 89 87 64**PLASTIC PIPE** (50 89 87)

Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.

50 89 87 64-0001	LF	CALTRANS 641101 12" PLASTIC PIPE.....	54.43
		Note: Includes 0.37 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 64-0002	LF	CALTRANS 641104 15" PLASTIC PIPE.....	69.31
		Note: Includes 0.53 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 64-0003	LF	CALTRANS 641107 18" PLASTIC PIPE.....	90.02
		Note: Includes 0.64 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 64-0004	LF	CALTRANS 641110 21" PLASTIC PIPE.....	107.28
		Note: Includes 0.80 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 64-0005	LF	CALTRANS 641113 24" PLASTIC PIPE.....	126.57
		Note: Includes 0.89 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 64-0006	LF	CALTRANS 641119 30" PLASTIC PIPE.....	186.16
		Note: Includes 1.08 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 64-0007	LF	CALTRANS 641125 36" PLASTIC PIPE.....	226.76
		Note: Includes 1.30 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 64-0008	LF	CALTRANS 641128 42" PLASTIC PIPE.....	249.65
		Note: Includes 1.53 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 64-0009	LF	CALTRANS 641131 48" PLASTIC PIPE.....	302.90
		Note: Includes 1.78 CY of excavated material per LF of pipe.	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76

50 89 87 65**CONCRETE PIPE** (50 89 87)

Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.

50 89 87 65-0001	LF	CALTRANS 650010 12" REINFORCED CONCRETE PIPE.....	54.87
		Note: Includes 0.37 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-2.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 65-0002	LF	CALTRANS 650012 15" REINFORCED CONCRETE PIPE.....	68.17
		Note: Includes 0.53 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-3.41
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 65-0003	LF	CALTRANS 650014 18" REINFORCED CONCRETE PIPE.....	78.42
		Note: Includes 0.64 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-3.92
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 65-0004	LF	CALTRANS 650016 21" REINFORCED CONCRETE PIPE.....	101.02
		Note: Includes 0.80 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-5.05
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 65-0005	LF	CALTRANS 650018 24" REINFORCED CONCRETE PIPE.....	116.81
		Note: Includes 0.89 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-5.84
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 65-0006	LF	CALTRANS 650019 27" REINFORCED CONCRETE PIPE.....	143.75
		Note: Includes 0.98 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-7.19
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 65-0007	LF	CALTRANS 650022 30" REINFORCED CONCRETE PIPE.....	153.64
		Note: Includes 1.08 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-7.68
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76
50 89 87 65-0008	LF	CALTRANS 650024 33" REINFORCED CONCRETE PIPE.....	171.02
		Note: Includes 1.19 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-8.55
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76



Custom Standards And Assemblies			50
CALTRANS Custom Standards And Assemblies			50 89
CALTRANS Construction Performance Requirements			50 89 80

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0009 LF CALTRANS 650026 36" REINFORCED CONCRETE PIPE.....	188.24	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.41	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0010 LF CALTRANS 650030 42" REINFORCED CONCRETE PIPE.....	241.03	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.05	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0011 LF CALTRANS 650034 48" REINFORCED CONCRETE PIPE.....	288.58	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.43	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0012 LF CALTRANS 650038 54" REINFORCED CONCRETE PIPE.....	353.30	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-17.67	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0013 LF CALTRANS 650042 60" REINFORCED CONCRETE PIPE.....	422.89	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-21.14	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0014 LF CALTRANS 650046 66" REINFORCED CONCRETE PIPE.....	619.91	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-31.00	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0015 LF CALTRANS 650050 72" REINFORCED CONCRETE PIPE.....	718.20	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-35.91	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0016 LF CALTRANS 650054 78" REINFORCED CONCRETE PIPE.....	855.26	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-42.76	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0017 LF CALTRANS 650058 84" REINFORCED CONCRETE PIPE.....	1,083.25	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-54.16	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0018 LF CALTRANS 650065 96" REINFORCED CONCRETE PIPE.....	1,318.93	
Note: Includes 4.44 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-65.95	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0019 LF CALTRANS 650211 18" REINFORCED CONCRETE PIPE (CLASS II).....	76.87	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.84	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0020 LF CALTRANS 650220 30" REINFORCED CONCRETE PIPE (CLASS II).....	150.53	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.53	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0021 LF CALTRANS 650222 33" REINFORCED CONCRETE PIPE (CLASS II).....	167.35	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.37	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0022 LF CALTRANS 650224 36" REINFORCED CONCRETE PIPE (CLASS II).....	184.02	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.20	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0023 LF CALTRANS 650307 12" REINFORCED CONCRETE PIPE (CLASS III).....	54.87	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0024 LF CALTRANS 650309 15" REINFORCED CONCRETE PIPE (CLASS III).....	68.17	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.41	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0025 LF CALTRANS 650311 18" REINFORCED CONCRETE PIPE (CLASS III).....	78.42	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.92	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0026 LF CALTRANS 650316 24" REINFORCED CONCRETE PIPE (CLASS III).....	116.81	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.84	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0027 LF CALTRANS 650318 27" REINFORCED CONCRETE PIPE (CLASS III).....	143.75	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.19	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0028 LF CALTRANS 650320 30" REINFORCED CONCRETE PIPE (CLASS III).....	153.64	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.68	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0029 LF CALTRANS 650324 36" REINFORCED CONCRETE PIPE (CLASS III).....	188.24	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.41	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0030 LF CALTRANS 650328 42" REINFORCED CONCRETE PIPE (CLASS III).....	241.03	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.05	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0031 LF CALTRANS 650336 54" REINFORCED CONCRETE PIPE (CLASS III).....	353.30	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-17.67	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0032 LF CALTRANS 650407 12" REINFORCED CONCRETE PIPE (CLASS IV).....	57.06	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.85	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0033 LF CALTRANS 650409 15" REINFORCED CONCRETE PIPE (CLASS IV).....	70.97	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.55	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0034 LF CALTRANS 650411 18" REINFORCED CONCRETE PIPE (CLASS IV).....	81.37	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.07	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0035 LF CALTRANS 650416 24" REINFORCED CONCRETE PIPE (CLASS IV).....	121.14	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.06	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0036 LF CALTRANS 650420 30" REINFORCED CONCRETE PIPE (CLASS IV).....	159.55	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.98	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0037 LF CALTRANS 650424 36" REINFORCED CONCRETE PIPE (CLASS IV).....	196.25	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.81	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0038 LF CALTRANS 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	302.97	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-15.15	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0039 LF CALTRANS 650436 54" REINFORCED CONCRETE PIPE (CLASS IV).....	371.97	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-18.60	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0040 LF CALTRANS 650440 60" REINFORCED CONCRETE PIPE (CLASS IV).....	445.86	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-22.29	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0041 LF CALTRANS 650507 12" REINFORCED CONCRETE PIPE (CLASS V).....	59.47	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0042 LF CALTRANS 650511 18" REINFORCED CONCRETE PIPE (CLASS V).....	84.62	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.23	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	



Custom Standards And Assemblies			50
CALTRANS Custom Standards And Assemblies			50 89
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0043 LF CALTRANS 650516 24" REINFORCED CONCRETE PIPE (CLASS V) 125.92 Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct -6.30 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0044 LF CALTRANS 650520 30" REINFORCED CONCRETE PIPE (CLASS V) 153.64 Note: Includes 1.08 CY of excavated material per LF of pipe. For >1,000, Deduct -7.68 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0045 LF CALTRANS 650524 36" REINFORCED CONCRETE PIPE (CLASS V) 205.11 Note: Includes 1.30 CY of excavated material per LF of pipe. For >1,000, Deduct -10.26 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0046 LF CALTRANS 650528 42" REINFORCED CONCRETE PIPE (CLASS V) 241.03 Note: Includes 1.53 CY of excavated material per LF of pipe. For >1,000, Deduct -12.05 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0047 LF CALTRANS 650536 54" REINFORCED CONCRETE PIPE (CLASS V) 392.62 Note: Includes 2.05 CY of excavated material per LF of pipe. For >1,000, Deduct -19.63 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0048 LF CALTRANS 650540 60" REINFORCED CONCRETE PIPE (CLASS V) 422.89 Note: Includes 2.33 CY of excavated material per LF of pipe. For >1,000, Deduct -21.14 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0049 LF CALTRANS 650548 72" REINFORCED CONCRETE PIPE (CLASS V) 718.20 Note: Includes 2.96 CY of excavated material per LF of pipe. For >1,000, Deduct -35.91 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0050 LF CALTRANS 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT) 54.15 Note: Includes 0.37 CY of excavated material per LF of pipe. For >1,000, Deduct -2.71 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0051 LF CALTRANS 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT) 117.72 Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct -5.89 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0052 LF CALTRANS 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 56.60 Note: Includes 0.37 CY of excavated material per LF of pipe. For >1,000, Deduct -2.83 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0053 LF CALTRANS 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 80.75 Note: Includes 0.64 CY of excavated material per LF of pipe. For >1,000, Deduct -4.04 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0054 LF CALTRANS 652314 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 104.04 Note: Includes 0.80 CY of excavated material per LF of pipe. For >1,000, Deduct -5.20 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0055 LF CALTRANS 652316 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 120.23 Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct -6.01 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0056 LF CALTRANS 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 158.30 Note: Includes 1.08 CY of excavated material per LF of pipe. For >1,000, Deduct -7.92 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0057 LF CALTRANS 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 194.56 Note: Includes 1.30 CY of excavated material per LF of pipe. For >1,000, Deduct -9.73 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0058 LF CALTRANS 652328 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 250.19 Note: Includes 1.53 CY of excavated material per LF of pipe. For >1,000, Deduct -12.51 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 65-0059 LF CALTRANS 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 299.94 Note: Includes 1.78 CY of excavated material per LF of pipe. For >1,000, Deduct -15.00 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0060 LF CALTRANS 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	755.55	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-37.78	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0061 LF CALTRANS 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT)	124.87	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.24	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0062 LF CALTRANS 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT)	164.65	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.23	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0063 LF CALTRANS 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT)	203.17	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.16	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0064 LF CALTRANS 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT)	262.64	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-13.13	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0065 LF CALTRANS 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT)	694.16	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-34.71	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0066 LF CALTRANS 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	129.21	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.46	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0067 LF CALTRANS 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	161.14	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.06	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0068 LF CALTRANS 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	214.86	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0069 LF CALTRANS 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II)	225.32	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.27	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0070 LF CALTRANS 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III)	382.92	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-19.15	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0071 LF CALTRANS 659108 18" NON-REINFORCED CONCRETE PIPE	72.23	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.61	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0072 LF CALTRANS 659109 24" NON-REINFORCED CONCRETE PIPE	107.70	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.39	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0073 LF CALTRANS 659110 30" NON-REINFORCED CONCRETE PIPE	141.20	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.06	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 65-0074 LF CALTRANS 659111 36" NON-REINFORCED CONCRETE PIPE	171.36	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.57	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	

50 89 87 66 CORRUGATED METAL PIPE (50 89 87)

Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.

50 89 87 66-0001 LF CALTRANS 665002 6" CORRUGATED STEEL PIPE (.064" THICK)	23.70	
Note: Includes 0.29 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0002	LF		CALTRANS 665003 6" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	25.39 1.58 0.76	
50 89 87 66-0003	LF		CALTRANS 665005 8" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	32.04 1.58 0.76	
50 89 87 66-0004	LF		CALTRANS 665006 8" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	34.26 1.58 0.76	
50 89 87 66-0005	LF		CALTRANS 665008 10" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.32 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	39.33 1.58 0.76	
50 89 87 66-0006	LF		CALTRANS 665009 10" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.32 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	41.14 1.58 0.76	
50 89 87 66-0007	LF		CALTRANS 665011 12" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.37 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	44.11 1.58 0.76	
50 89 87 66-0008	LF		CALTRANS 665012 12" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.37 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	47.01 1.58 0.76	
50 89 87 66-0009	LF		CALTRANS 665013 15" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	55.04 1.58 0.76	
50 89 87 66-0010	LF		CALTRANS 665014 15" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	58.61 1.58 0.76	
50 89 87 66-0011	LF		CALTRANS 665015 15" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	65.96 1.58 0.76	
50 89 87 66-0012	LF		CALTRANS 665016 18" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	64.00 1.58 0.76	
50 89 87 66-0013	LF		CALTRANS 665017 18" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	68.31 1.58 0.76	
50 89 87 66-0014	LF		CALTRANS 665018 18" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	77.23 1.58 0.76	
50 89 87 66-0015	LF		CALTRANS 665019 21" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	76.15 1.58 0.76	
50 89 87 66-0016	LF		CALTRANS 665020 21" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	81.14 1.58 0.76	
50 89 87 66-0017	LF		CALTRANS 665021 21" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	91.50 1.58 0.76	
50 89 87 66-0018	LF		CALTRANS 665022 24" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	84.17 1.58 0.76	
50 89 87 66-0019	LF		CALTRANS 665023 24" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	90.20 1.58 0.76	
50 89 87 66-0020	LF		CALTRANS 665024 24" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	102.02 1.58 0.76	
50 89 87 66-0021	LF		CALTRANS 665025 24" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	111.94 1.58 0.76	
50 89 87 66-0022	LF		CALTRANS 665026 27" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.98 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	96.71 1.58 0.76	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0023 LF CALTRANS 665027 27" CORRUGATED STEEL PIPE (.079" THICK) 103.37 Note: Includes 0.98 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0024 LF CALTRANS 665030 30" CORRUGATED STEEL PIPE (.064" THICK) 111.80 Note: Includes 1.08 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0025 LF CALTRANS 665031 30" CORRUGATED STEEL PIPE (.079" THICK) 118.87 Note: Includes 1.08 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0026 LF CALTRANS 665032 30" CORRUGATED STEEL PIPE (.109" THICK) 133.48 Note: Includes 1.08 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0027 LF CALTRANS 665033 30" CORRUGATED STEEL PIPE (.138" THICK) 146.10 Note: Includes 1.08 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0028 LF CALTRANS 665035 36" CORRUGATED STEEL PIPE (.064" THICK) 146.22 Note: Includes 1.30 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0029 LF CALTRANS 665036 36" CORRUGATED STEEL PIPE (.079" THICK) 154.80 Note: Includes 1.30 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0030 LF CALTRANS 665037 36" CORRUGATED STEEL PIPE (.109" THICK) 172.14 Note: Includes 1.30 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0031 LF CALTRANS 665038 36" CORRUGATED STEEL PIPE (.138" THICK) 188.36 Note: Includes 1.30 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0032 LF CALTRANS 665039 36" CORRUGATED STEEL PIPE (.168" THICK) 207.54 Note: Includes 1.30 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0033 LF CALTRANS 665040 42" CORRUGATED STEEL PIPE (.064" THICK) 170.39 Note: Includes 1.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0034 LF CALTRANS 665041 42" CORRUGATED STEEL PIPE (.079" THICK) 180.22 Note: Includes 1.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0035 LF CALTRANS 665042 42" CORRUGATED STEEL PIPE (.109" THICK) 200.25 Note: Includes 1.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0036 LF CALTRANS 665043 42" CORRUGATED STEEL PIPE (.138" THICK) 219.23 Note: Includes 1.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0037 LF CALTRANS 665045 48" CORRUGATED STEEL PIPE (.064" THICK) 194.74 Note: Includes 1.78 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0038 LF CALTRANS 665046 48" CORRUGATED STEEL PIPE (.079" THICK) 205.99 Note: Includes 1.78 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0039 LF CALTRANS 665047 48" CORRUGATED STEEL PIPE (.109" THICK) 228.94 Note: Includes 1.78 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0040 LF CALTRANS 665048 48" CORRUGATED STEEL PIPE (.138" THICK) 250.49 Note: Includes 1.78 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0041 LF CALTRANS 665049 48" CORRUGATED STEEL PIPE (.168" THICK) 275.88 Note: Includes 1.78 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0042 LF CALTRANS 665050 54" CORRUGATED STEEL PIPE (.079" THICK) 249.59 Note: Includes 2.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0043 LF CALTRANS 665051 54" CORRUGATED STEEL PIPE (.109" THICK) 274.94 Note: Includes 2.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		



Custom Standards And Assemblies			50
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0044 LF CALTRANS 665052 54" CORRUGATED STEEL PIPE (.138" THICK) 299.07 Note: Includes 2.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0045 LF CALTRANS 665053 54" CORRUGATED STEEL PIPE (.168" THICK) 329.14 Note: Includes 2.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0046 LF CALTRANS 665055 60" CORRUGATED STEEL PIPE (.109" THICK) 316.61 Note: Includes 2.33 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0047 LF CALTRANS 665056 60" CORRUGATED STEEL PIPE (.138" THICK) 343.48 Note: Includes 2.33 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0048 LF CALTRANS 665057 60" CORRUGATED STEEL PIPE (.168" THICK) 376.50 Note: Includes 2.33 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0049 LF CALTRANS 665058 66" CORRUGATED STEEL PIPE (.109" THICK) 378.45 Note: Includes 2.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0050 LF CALTRANS 665059 66" CORRUGATED STEEL PIPE (.138" THICK) 407.97 Note: Includes 2.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0051 LF CALTRANS 665061 72" CORRUGATED STEEL PIPE (.109" THICK) 505.01 Note: Includes 2.96 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0052 LF CALTRANS 665062 72" CORRUGATED STEEL PIPE (.138" THICK) 546.85 Note: Includes 2.96 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0053 LF CALTRANS 665064 78" CORRUGATED STEEL PIPE (.138" THICK) 591.96 Note: Includes 3.31 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0054 LF CALTRANS 665066 84" CORRUGATED STEEL PIPE (.138" THICK) 634.41 Note: Includes 3.67 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0055 LF CALTRANS 665067 84" CORRUGATED STEEL PIPE (.168" THICK) 697.29 Note: Includes 3.67 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0056 LF CALTRANS 665068 90" CORRUGATED STEEL PIPE (.138" THICK) 681.35 Note: Includes 4.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0057 LF CALTRANS 665070 96" CORRUGATED STEEL PIPE (.168" THICK) 725.71 Note: Includes 4.44 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0058 LF CALTRANS 665075 18" CORRUGATED STEEL PIPE (.138" THICK) 84.64 Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0059 LF CALTRANS 665094 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) 91.60 Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0060 LF CALTRANS 665103 6" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) 27.28 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0061 LF CALTRANS 665105 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) 34.51 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0062 LF CALTRANS 665106 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) 36.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0063 LF CALTRANS 665108 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) 42.44 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0064 LF CALTRANS 665109 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) 45.25 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0065 LF CALTRANS 665111 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) 47.39 Note: Includes 0.37 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
50 89 87 66-0066	LF	CALTRANS 665112 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	50.30		
		Note: Includes 0.37 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0067	LF	CALTRANS 665113 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK)	59.12		
		Note: Includes 0.53 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0068	LF	CALTRANS 665114 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	62.73		
		Note: Includes 0.53 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0069	LF	CALTRANS 665115 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	71.58		
		Note: Includes 0.53 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0070	LF	CALTRANS 665116 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK)	68.94		
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0071	LF	CALTRANS 665117 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	73.31		
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0072	LF	CALTRANS 665118 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	82.95		
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0073	LF	CALTRANS 665119 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK)	82.07		
		Note: Includes 0.80 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0074	LF	CALTRANS 665120 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	87.08		
		Note: Includes 0.80 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0075	LF	CALTRANS 665121 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	98.27		
		Note: Includes 0.80 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0076	LF	CALTRANS 665122 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK)	86.39		
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0077	LF	CALTRANS 665123 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	96.93		
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0078	LF	CALTRANS 665124 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	109.68		
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0079	LF	CALTRANS 665125 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	121.28		
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0080	LF	CALTRANS 665130 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK)	120.44		
		Note: Includes 1.08 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0081	LF	CALTRANS 665131 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	127.51		
		Note: Includes 1.08 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0082	LF	CALTRANS 665132 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	143.23		
		Note: Includes 1.08 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0083	LF	CALTRANS 665133 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	157.97		
		Note: Includes 1.08 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0084	LF	CALTRANS 665135 36" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK)	157.11		
		Note: Includes 1.30 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0085	LF	CALTRANS 665136 36" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	165.63		
		Note: Includes 1.30 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		
50 89 87 66-0086	LF	CALTRANS 665137 36" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	184.20		
		Note: Includes 1.30 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58		
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0108 LF CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK) 546.75 Note: Includes 2.96 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0109 LF CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) 596.96 Note: Includes 2.96 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0110 LF CALTRANS 665163 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) 654.59 Note: Includes 2.96 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0111 LF CALTRANS 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) 644.45 Note: Includes 3.31 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0112 LF CALTRANS 665165 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) 707.07 Note: Includes 3.31 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0113 LF CALTRANS 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) 691.57 Note: Includes 3.67 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0114 LF CALTRANS 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) 767.03 Note: Includes 3.67 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0115 LF CALTRANS 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) 742.04 Note: Includes 4.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0116 LF CALTRANS 665180 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.168" THICK) 138.24 Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0117 LF CALTRANS 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK) 105.78 Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0118 LF CALTRANS 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK) 115.86 Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0119 LF CALTRANS 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK) 193.91 Note: Includes 1.30 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0120 LF CALTRANS 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK) 96.93 Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0121 LF CALTRANS 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK) 179.54 Note: Includes 1.08 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0122 LF CALTRANS 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK) 165.63 Note: Includes 1.30 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0123 LF CALTRANS 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) 50.51 Note: Includes 0.37 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0124 LF CALTRANS 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK) 53.87 Note: Includes 0.37 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0125 LF CALTRANS 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK) 64.36 Note: Includes 0.37 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0126 LF CALTRANS 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) 88.99 Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0127 LF CALTRANS 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK) 96.71 Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		
50 89 87 66-0128 LF CALTRANS 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK) 162.79 Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.58 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.76		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0129	LF		CALTRANS 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	97.15	
			Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0130	LF		CALTRANS 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	103.99	
			Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0131	LF		CALTRANS 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	55.29	
			Note: Includes 0.37 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0132	LF		CALTRANS 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	59.47	
			Note: Includes 0.37 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0133	LF		CALTRANS 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	99.97	
			Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0134	LF		CALTRANS 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	109.55	
			Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0135	LF		CALTRANS 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	139.48	
			Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0136	LF		CALTRANS 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK).....	162.94	
			Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0137	LF		CALTRANS 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	115.37	
			Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0138	LF		CALTRANS 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	191.63	
			Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0139	LF		CALTRANS 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	60.96	
			Note: Includes 0.53 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0140	LF		CALTRANS 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	74.33	
			Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0141	LF		CALTRANS 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	83.19	
			Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0142	LF		CALTRANS 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	87.73	
			Note: Includes 0.80 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0143	LF		CALTRANS 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	98.17	
			Note: Includes 0.80 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0144	LF		CALTRANS 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	92.15	
			Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0145	LF		CALTRANS 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	109.86	
			Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0146	LF		CALTRANS 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	120.20	
			Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0147	LF		CALTRANS 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	128.73	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0148	LF		CALTRANS 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	143.30	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0149	LF		CALTRANS 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	156.33	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0150 LF CALTRANS 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	158.07	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0151 LF CALTRANS 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	175.30	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0152 LF CALTRANS 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	191.53	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0153 LF CALTRANS 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	184.86	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0154 LF CALTRANS 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	204.76	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0155 LF CALTRANS 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	223.68	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0156 LF CALTRANS 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	221.34	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0157 LF CALTRANS 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	239.01	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0158 LF CALTRANS 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	260.45	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0159 LF CALTRANS 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	257.65	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0160 LF CALTRANS 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	277.16	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0161 LF CALTRANS 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	321.55	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0162 LF CALTRANS 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	345.97	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0163 LF CALTRANS 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	522.75	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0164 LF CALTRANS 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK)	117.99	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0165 LF CALTRANS 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK)	230.00	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0166 LF CALTRANS 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	47.01	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0167 LF CALTRANS 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	64.00	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0168 LF CALTRANS 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	68.31	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0169 LF CALTRANS 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK)	77.23	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0170 LF CALTRANS 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	34.51	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	
50 89 87 66-0171 LF CALTRANS 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	96.93	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.76	



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 67 STRUCTURAL PLATE CULVERTS (50 89 87)			
Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.			
50 89 87 67-0001	LF CALTRANS 670602 90" STRUCTURAL STEEL PLATE PIPE (.138" THICK)	802.26	
Note: Includes 4.05 CY of excavated material per LF of pipe.			
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 67-0002	LF CALTRANS 670901 108" STRUCTURAL STEEL PLATE PIPE (.109" THICK)	878.93	
Note: Includes 5.30 CY of excavated material per LF of pipe.			
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 67-0003	LF CALTRANS 671101 120" STRUCTURAL STEEL PLATE PIPE (.109" THICK)	975.60	
Note: Includes 6.22 CY of excavated material per LF of pipe.			
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 67-0004	LF CALTRANS 674351 11'-10" X 7'-7" STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK)	1,126.54	
Note: Includes 0.32 CY of excavated material per LF of pipe.			
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 68 SUBSURFACE DRAINS (50 89 87)			
Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.			
50 89 87 68-0001	LF CALTRANS 680402 6" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	27.48	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 68-0002	LF CALTRANS 680405 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	37.04	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 68-0003	LF CALTRANS 680406 8" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	40.36	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 68-0004	LF CALTRANS 680411 12" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	52.14	
Note: Includes 0.37 CY of excavated material per LF of pipe.			
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 68-0005	LF CALTRANS 680412 12" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	56.50	
Note: Includes 0.37 CY of excavated material per LF of pipe.			
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 68-0006	LF CALTRANS 680436 8" BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	44.08	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.76	
50 89 87 69 OVERSIDE DRAINS (50 89 87)			
Note: Includes constructing outside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.			
50 89 87 69-0001	LF CALTRANS 690103 6" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	24.83	
50 89 87 69-0002	LF CALTRANS 690105 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	31.09	
50 89 87 69-0003	LF CALTRANS 690106 8" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	33.31	
50 89 87 69-0004	LF CALTRANS 690107 10" CORRUGATED STEEL PIPE DOWNDRAIN	39.83	
50 89 87 69-0005	LF CALTRANS 690111 12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	42.53	
50 89 87 69-0006	LF CALTRANS 690112 12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	45.43	
50 89 87 69-0007	LF CALTRANS 690114 15" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	56.46	
50 89 87 69-0008	LF CALTRANS 690115 15" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	63.82	
50 89 87 69-0009	LF CALTRANS 690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	61.54	
50 89 87 69-0010	LF CALTRANS 690117 18" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	65.85	
50 89 87 69-0011	LF CALTRANS 690118 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	74.77	
50 89 87 69-0012	LF CALTRANS 690122 24" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	79.74	
50 89 87 69-0013	LF CALTRANS 690123 24" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	85.53	
50 89 87 69-0014	LF CALTRANS 690124 24" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	97.34	
50 89 87 69-0015	LF CALTRANS 690125 24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	107.27	
50 89 87 69-0016	LF CALTRANS 690131 30" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	113.63	
50 89 87 69-0017	LF CALTRANS 690132 30" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	128.25	
50 89 87 69-0018	LF CALTRANS 690134 30" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	140.87	
50 89 87 69-0019	LF CALTRANS 690136 36" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	148.93	
50 89 87 69-0020	LF CALTRANS 690137 36" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	166.26	
50 89 87 69-0021	LF CALTRANS 690138 36" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	182.49	
50 89 87 69-0022	LF CALTRANS 690142 42" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	191.67	
50 89 87 69-0023	LF CALTRANS 690147 48" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	217.27	
50 89 87 69-0024	LF CALTRANS 690148 48" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	238.82	
50 89 87 69-0025	LF CALTRANS 690150 54" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	262.26	
50 89 87 69-0026	LF CALTRANS 690205 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	33.57	
50 89 87 69-0027	LF CALTRANS 690206 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	35.80	
50 89 87 69-0028	LF CALTRANS 690211 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	45.82	
50 89 87 69-0029	LF CALTRANS 690212 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	48.72	
50 89 87 69-0030	LF CALTRANS 690216 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	66.48	
50 89 87 69-0031	LF CALTRANS 690217 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	70.85	
50 89 87 69-0032	LF CALTRANS 690218 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	80.49	
50 89 87 69-0033	LF CALTRANS 690222 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	86.39	
50 89 87 69-0034	LF CALTRANS 690223 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	92.25	
50 89 87 69-0035	LF CALTRANS 690224 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	105.01	
50 89 87 69-0036	LF CALTRANS 690225 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	116.61	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 69-0037 LF CALTRANS 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	122.27	
50 89 87 69-0038 LF CALTRANS 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	138.00	
50 89 87 69-0039 LF CALTRANS 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	151.24	
50 89 87 69-0040 LF CALTRANS 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	178.32	
50 89 87 69-0041 LF CALTRANS 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	197.83	
50 89 87 69-0042 LF CALTRANS 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	205.80	
50 89 87 69-0043 LF CALTRANS 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	233.23	
50 89 87 69-0044 LF CALTRANS 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	152.75	
50 89 87 69-0045 LF CALTRANS 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	61.20	
50 89 87 69-0046 LF CALTRANS 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	89.24	
50 89 87 69-0047 LF CALTRANS 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	85.10	
50 89 87 69-0048 LF CALTRANS 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	111.19	
50 89 87 69-0049 LF CALTRANS 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	184.39	
50 89 87 69-0050 LF CALTRANS 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	296.81	
50 89 87 69-0051 LF CALTRANS 690960 12" PLASTIC PIPE DOWNDRAIN	52.85	
50 89 87 69-0052 LF CALTRANS 690964 18" PLASTIC PIPE DOWNDRAIN	87.55	
50 89 87 69-0053 EA CALTRANS 692303 8" ANCHOR ASSEMBLY	576.07	
50 89 87 69-0054 EA CALTRANS 692305 12" ANCHOR ASSEMBLY	717.39	
50 89 87 69-0055 EA CALTRANS 692306 15" ANCHOR ASSEMBLY	803.52	
50 89 87 69-0056 EA CALTRANS 692307 18" ANCHOR ASSEMBLY	895.89	
50 89 87 69-0057 EA CALTRANS 692309 24" ANCHOR ASSEMBLY	1,099.66	
50 89 87 69-0058 EA CALTRANS 692311 30" ANCHOR ASSEMBLY	1,318.21	
50 89 87 69-0059 EA CALTRANS 692313 36" ANCHOR ASSEMBLY	1,536.99	
50 89 87 69-0060 EA CALTRANS 692319 54" ANCHOR ASSEMBLY	2,195.21	
50 89 87 70 MISCELLANEOUS DRAINAGE FACILITIES (50 89 87)		
50 89 87 70-0001 LF CALTRANS 700637 36" CORRUGATED STEEL PIPE INLET (.064" THICK)	154.80	
50 89 87 70-0002 LF CALTRANS 700638 36" CORRUGATED STEEL PIPE INLET (.079" THICK)	154.80	
50 89 87 70-0003 LF CALTRANS 700639 36" CORRUGATED STEEL PIPE INLET (.109" THICK)	172.14	
50 89 87 70-0004 LF CALTRANS 700640 36" CORRUGATED STEEL PIPE INLET (.138" THICK)	188.36	
50 89 87 70-0005 LF CALTRANS 700641 36" CORRUGATED STEEL PIPE INLET (.168" THICK)	224.97	
50 89 87 70-0006 LF CALTRANS 700655 48" CORRUGATED STEEL PIPE INLET (.109" THICK)	228.94	
50 89 87 70-0007 LF CALTRANS 700656 48" CORRUGATED STEEL PIPE INLET (.138" THICK)	250.49	
50 89 87 70-0008 LF CALTRANS 700837 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.064" THICK)	157.11	
50 89 87 70-0009 LF CALTRANS 700838 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK)	164.62	
50 89 87 70-0010 LF CALTRANS 700839 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.109" THICK)	184.20	
50 89 87 70-0011 LF CALTRANS 700840 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.138" THICK)	203.70	
50 89 87 70-0012 LF CALTRANS 700854 48" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK)	244.90	
50 89 87 70-0013 LF CALTRANS 703516 8" WELDED STEEL PIPE (.188" THICK)	128.88	29.19
For >1,000, Deduct	-6.44	
50 89 87 70-0014 LF CALTRANS 703525 10" WELDED STEEL PIPE (.250" THICK)	184.18	31.84
For >1,000, Deduct	-9.21	
50 89 87 70-0015 LF CALTRANS 703533 12" WELDED STEEL PIPE (.250" THICK)	209.99	33.36
For >1,000, Deduct	-10.50	
50 89 87 70-0016 LF CALTRANS 703555 18" WELDED STEEL PIPE (.250" THICK)	298.76	43.79
For >1,000, Deduct	-14.94	
50 89 87 70-0017 LF CALTRANS 703557 18" WELDED STEEL PIPE (.375" THICK)	400.59	77.99
For >1,000, Deduct	-20.03	
50 89 87 70-0018 LF CALTRANS 703564 20" WELDED STEEL PIPE (.375" THICK)	439.03	77.99
For >1,000, Deduct	-21.95	
50 89 87 70-0019 LF CALTRANS 703576 24" WELDED STEEL PIPE (.375" THICK)	562.35	90.00
For >1,000, Deduct	-28.12	
50 89 87 70-0020 LF CALTRANS 703600 30" WELDED STEEL PIPE (.375" THICK)	652.76	105.00
For >1,000, Deduct	-32.64	
50 89 87 70-0021 LF CALTRANS 703620 36" WELDED STEEL PIPE (.375" THICK)	875.06	126.00
For >1,000, Deduct	-43.75	
50 89 87 70-0022 LF CALTRANS 703646 42" WELDED STEEL PIPE (.375" THICK)	1,520.17	141.00
For >1,000, Deduct	-76.01	
50 89 87 70-0023 LF CALTRANS 703656 48" WELDED STEEL PIPE (.375" THICK)	1,745.72	158.99
For >1,000, Deduct	-87.29	
50 89 87 70-0024 EA CALTRANS 705007 12" STEEL FLARED END SECTION	370.09	61.74
50 89 87 70-0025 EA CALTRANS 705009 15" STEEL FLARED END SECTION	427.52	66.15
50 89 87 70-0026 EA CALTRANS 705011 18" STEEL FLARED END SECTION	510.32	70.56
50 89 87 70-0027 EA CALTRANS 705013 21" STEEL FLARED END SECTION	631.82	77.18
50 89 87 70-0028 EA CALTRANS 705015 24" STEEL FLARED END SECTION	821.89	83.79
50 89 87 70-0029 EA CALTRANS 705016 27" STEEL FLARED END SECTION	1,022.22	83.79
50 89 87 70-0030 EA CALTRANS 705019 30" STEEL FLARED END SECTION	1,226.96	94.81
50 89 87 70-0031 EA CALTRANS 705023 36" STEEL FLARED END SECTION	2,073.59	112.93
50 89 87 70-0032 EA CALTRANS 705027 42" STEEL FLARED END SECTION	2,649.26	131.76
50 89 87 70-0033 EA CALTRANS 705031 48" STEEL FLARED END SECTION	3,779.16	150.57
50 89 87 70-0034 EA CALTRANS 705035 54" STEEL FLARED END SECTION	4,197.56	188.22
50 89 87 70-0035 EA CALTRANS 705037 60" STEEL FLARED END SECTION	5,640.53	225.86
50 89 87 70-0036 EA CALTRANS 705039 66" STEEL FLARED END SECTION	6,384.51	338.79
50 89 87 70-0037 EA CALTRANS 705041 72" STEEL FLARED END SECTION	7,459.98	451.72
50 89 87 70-0038 EA CALTRANS 705057 12" BITUMINOUS COATED STEEL FLARED END SECTION	428.16	61.74
50 89 87 70-0039 EA CALTRANS 705059 15" BITUMINOUS COATED STEEL FLARED END SECTION	496.83	66.15
50 89 87 70-0040 EA CALTRANS 705061 18" BITUMINOUS COATED STEEL FLARED END SECTION	592.46	70.56



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 70-0041 EA CALTRANS 705063 21" BITUMINOUS COATED STEEL FLARED END SECTION	743.26	77.18
50 89 87 70-0042 EA CALTRANS 705065 24" BITUMINOUS COATED STEEL FLARED END SECTION	975.56	83.79
50 89 87 70-0043 EA CALTRANS 705067 27" BITUMINOUS COATED STEEL FLARED END SECTION	1,221.64	83.79
50 89 87 70-0044 EA CALTRANS 705069 30" BITUMINOUS COATED STEEL FLARED END SECTION	1,472.13	94.81
50 89 87 70-0045 EA CALTRANS 705073 36" BITUMINOUS COATED STEEL FLARED END SECTION	2,511.44	112.93
50 89 87 70-0046 EA CALTRANS 705077 42" BITUMINOUS COATED STEEL FLARED END SECTION	3,213.62	131.76
50 89 87 70-0047 EA CALTRANS 705081 48" BITUMINOUS COATED STEEL FLARED END SECTION	4,602.67	150.57
50 89 87 70-0048 EA CALTRANS 705084 54" BITUMINOUS COATED STEEL FLARED END SECTION	5,099.45	188.22
50 89 87 70-0049 EA CALTRANS 705201 12" CONCRETE FLARED END SECTION	695.13	109.64
50 89 87 70-0050 EA CALTRANS 705202 15" CONCRETE FLARED END SECTION	838.72	136.65
50 89 87 70-0051 EA CALTRANS 705204 18" CONCRETE FLARED END SECTION	1,019.32	172.98
50 89 87 70-0052 EA CALTRANS 705205 21" CONCRETE FLARED END SECTION	1,171.39	206.85
50 89 87 70-0053 EA CALTRANS 705206 24" CONCRETE FLARED END SECTION	1,424.58	239.41
50 89 87 70-0054 EA CALTRANS 705207 27" CONCRETE FLARED END SECTION	1,735.95	382.36
50 89 87 70-0055 EA CALTRANS 705208 30" CONCRETE FLARED END SECTION	1,833.80	526.45
50 89 87 70-0056 EA CALTRANS 705210 36" CONCRETE FLARED END SECTION	2,469.69	664.42
50 89 87 70-0057 EA CALTRANS 705212 42" CONCRETE FLARED END SECTION	2,977.57	833.63
50 89 87 70-0058 EA CALTRANS 705214 48" CONCRETE FLARED END SECTION	3,239.69	940.16
50 89 87 70-0059 EA CALTRANS 705216 54" CONCRETE FLARED END SECTION	3,634.91	1,052.99
50 89 87 70-0060 EA CALTRANS 705217 60" CONCRETE FLARED END SECTION	4,026.06	1,052.99
50 89 87 70-0061 EA CALTRANS 705403 21" X 15" STEEL FLARED END PIPE ARCH SECTION	538.30	70.56
50 89 87 70-0062 EA CALTRANS 705405 24" X 18" STEEL FLARED END PIPE ARCH SECTION	589.68	77.18
50 89 87 70-0063 EA CALTRANS 705407 28" X 20" STEEL FLARED END PIPE ARCH SECTION	636.15	83.79
50 89 87 70-0064 EA CALTRANS 705409 35" X 24" STEEL FLARED END PIPE ARCH SECTION	948.35	94.81
50 89 87 70-0065 EA CALTRANS 705411 42" X 29" STEEL FLARED END PIPE ARCH SECTION	1,791.11	112.93
50 89 87 70-0066 EA CALTRANS 705413 49" X 33" STEEL FLARED END PIPE ARCH SECTION	2,397.09	131.76
50 89 87 70-0067 EA CALTRANS 705415 57" X 38" STEEL FLARED END PIPE ARCH SECTION	3,680.96	150.57
50 89 87 70-0068 EA CALTRANS 705417 64" X 43" STEEL FLARED END PIPE ARCH SECTION	4,224.22	188.22
50 89 87 70-0069 EA CALTRANS 705419 71" X 47" STEEL FLARED END PIPE ARCH SECTION	5,099.09	225.86

50 89 87 71**EXISTING DRAINAGE FACILITIES** (50 89 87)

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRANS Standard.

50 89 87 71-0001 EA CALTRANS 710208 ADJUST FRAME AND COVER TO GRADE	384.68
50 89 87 71-0002 LF CALTRANS 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF)	48.11
For >250 To 500, Deduct	-2.16
For >500 To 1,000, Deduct	-4.33
For >1,000 To 2,000, Deduct	-6.49
For >2,000 To 5,000, Deduct	-8.65
For >5,000, Deduct	-10.81
50 89 87 71-0003 CY CALTRANS 710368 CULVERT SLURRY-CEMENT BACKFILL	274.10
50 89 87 71-0004 CY CALTRANS 710370 SAND BACKFILL	62.15
For Up To 10, Add	17.04
For >10 To 25, Add	6.22
50 89 87 71-0005 LF CALTRANS 710372 8" CURED-IN-PLACE PIPELINER	57.06
For >10 To 25, Add	50.02
For >25 To 50, Add	32.07
For >50 To 100, Add	16.03
For >500 To 1,000, Deduct	-2.02
For >1,000 To 2,000, Deduct	-3.63
For >2,000 To 5,000, Deduct	-5.65
For >5,000, Deduct	-8.88
50 89 87 71-0006 LF CALTRANS 710374 10" CURED-IN-PLACE PIPELINER	79.13
For >10 To 25, Add	58.66
For >25 To 50, Add	38.29
For >50 To 100, Add	19.15
For >500 To 1,000, Deduct	-2.53
For >1,000 To 2,000, Deduct	-4.63
For >2,000 To 5,000, Deduct	-7.17
For >5,000, Deduct	-11.37
50 89 87 71-0007 LF CALTRANS 710376 12" CURED-IN-PLACE PIPELINER	93.74
For >10 To 25, Add	66.34
For >25 To 50, Add	43.54
For >50 To 100, Add	21.77
For >500 To 1,000, Deduct	-2.92
For >1,000 To 2,000, Deduct	-5.37
For >2,000 To 5,000, Deduct	-8.29
For >5,000, Deduct	-13.19
50 89 87 71-0008 LF CALTRANS 710378 15" CURED-IN-PLACE PIPELINER	145.80
For >10 To 25, Add	85.05
For >25 To 50, Add	57.24
For >50 To 100, Add	28.62
For >500 To 1,000, Deduct	-4.10
For >1,000 To 2,000, Deduct	-7.67
For >2,000 To 5,000, Deduct	-11.77
For >5,000, Deduct	-18.90

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0009 LF CALTRANS 710380 18" CURED-IN-PLACE PIPELINER.....	174.26	
For >10 To 25, Add	98.49	
For >25 To 50, Add	66.59	
For >50 To 100, Add	33.29	
For >500 To 1,000, Deduct	-4.83	
For >1,000 To 2,000, Deduct	-9.05	
For >2,000 To 5,000, Deduct	-13.87	
For >5,000, Deduct	-22.31	
50 89 87 71-0010 LF CALTRANS 710382 21" CURED-IN-PLACE PIPELINER.....	223.30	
For >10 To 25, Add	115.32	
For >25 To 50, Add	79.03	
For >50 To 100, Add	39.52	
For >500 To 1,000, Deduct	-5.92	
For >1,000 To 2,000, Deduct	-11.18	
For >2,000 To 5,000, Deduct	-17.10	
For >5,000, Deduct	-27.62	
50 89 87 71-0011 LF CALTRANS 710384 24" CURED-IN-PLACE PIPELINER.....	279.02	
For >10 To 25, Add	134.69	
For >25 To 50, Add	93.32	
For >50 To 100, Add	46.66	
For >500 To 1,000, Deduct	-7.17	
For >1,000 To 2,000, Deduct	-13.61	
For >2,000 To 5,000, Deduct	-20.78	
For >5,000, Deduct	-33.67	
50 89 87 71-0012 LF CALTRANS 710386 27" CURED-IN-PLACE PIPELINER.....	370.58	
For >10 To 25, Add	167.86	
For >25 To 50, Add	117.58	
For >50 To 100, Add	58.79	
For >500 To 1,000, Deduct	-9.25	
For >1,000 To 2,000, Deduct	-17.66	
For >2,000 To 5,000, Deduct	-26.92	
For >5,000, Deduct	-43.74	
50 89 87 71-0013 LF CALTRANS 710388 30" CURED-IN-PLACE PIPELINER.....	412.73	
For >10 To 25, Add	186.68	
For >25 To 50, Add	130.79	
For >50 To 100, Add	65.39	
For >500 To 1,000, Deduct	-10.30	
For >1,000 To 2,000, Deduct	-19.66	
For >2,000 To 5,000, Deduct	-29.96	
For >5,000, Deduct	-48.70	
50 89 87 71-0014 LF CALTRANS 710390 36" CURED-IN-PLACE PIPELINER.....	494.25	
For >10 To 25, Add	217.37	
For >25 To 50, Add	153.05	
For >50 To 100, Add	76.52	
For >500 To 1,000, Deduct	-12.18	
For >1,000 To 2,000, Deduct	-23.31	
For >2,000 To 5,000, Deduct	-35.49	
For >5,000, Deduct	-57.76	
50 89 87 71-0015 LF CALTRANS 710392 42" CURED-IN-PLACE PIPELINER.....	577.18	
For >10 To 25, Add	251.55	
For >25 To 50, Add	177.41	
For >50 To 100, Add	88.70	
For >500 To 1,000, Deduct	-14.17	
For >1,000 To 2,000, Deduct	-27.14	
For >2,000 To 5,000, Deduct	-41.30	
For >5,000, Deduct	-67.25	
50 89 87 71-0016 LF CALTRANS 710394 48" CURED-IN-PLACE PIPELINER.....	662.12	
For >10 To 25, Add	290.79	
For >25 To 50, Add	204.80	
For >50 To 100, Add	102.40	
For >500 To 1,000, Deduct	-16.30	
For >1,000 To 2,000, Deduct	-31.22	
For >2,000 To 5,000, Deduct	-47.52	
For >5,000, Deduct	-77.35	
50 89 87 71-0017 LF CALTRANS 710396 54" CURED-IN-PLACE PIPELINER.....	865.55	
For >10 To 25, Add	373.96	
For >25 To 50, Add	264.15	
For >50 To 100, Add	132.07	
For >500 To 1,000, Deduct	-21.16	
For >1,000 To 2,000, Deduct	-40.57	
For >2,000 To 5,000, Deduct	-61.74	
For >5,000, Deduct	-100.56	
50 89 87 71-0018 LF CALTRANS 710398 60" CURED-IN-PLACE PIPELINER.....	1,105.31	
For >10 To 25, Add	491.38	
For >25 To 50, Add	345.32	
For >50 To 100, Add	172.66	
For >500 To 1,000, Deduct	-27.36	
For >1,000 To 2,000, Deduct	-52.34	
For >2,000 To 5,000, Deduct	-79.70	
For >5,000, Deduct	-129.65	
50 89 87 71-0019 LF CALTRANS 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER	231.33	
For >500 To 1,000, Deduct	-1.47	
For >1,000 To 2,000, Deduct	-2.93	
For >2,000, Deduct	-5.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0020	LF		CALTRANS 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER.....	261.74	
			For >500 To 1,000, Deduct	-1.59	
			For >1,000 To 2,000, Deduct	-3.18	
			For >2,000, Deduct	-6.36	
50 89 87 71-0021	LF		CALTRANS 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER.....	319.50	
			For >500 To 1,000, Deduct	-1.73	
			For >1,000 To 2,000, Deduct	-3.47	
			For >2,000, Deduct	-6.93	
50 89 87 71-0022	LF		CALTRANS 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	25.94	
50 89 87 71-0023	LF		CALTRANS 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	38.85	
50 89 87 71-0024	LF		CALTRANS 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	52.33	
50 89 87 71-0025	LF		CALTRANS 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	64.89	
50 89 87 71-0026	LF		CALTRANS 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	84.92	
50 89 87 71-0027	LF		CALTRANS 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	101.85	
50 89 87 71-0028	LF		CALTRANS 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	116.58	
50 89 87 71-0029	LF		CALTRANS 710448 12" CEMENTITIOUS PIPELINER.....	75.72	
50 89 87 71-0030	LF		CALTRANS 710450 15" CEMENTITIOUS PIPELINER.....	82.55	
50 89 87 71-0031	LF		CALTRANS 710452 18" CEMENTITIOUS PIPELINER.....	86.98	
50 89 87 71-0032	LF		CALTRANS 710454 21" CEMENTITIOUS PIPELINER.....	92.46	
50 89 87 71-0033	LF		CALTRANS 710456 24" CEMENTITIOUS PIPELINER.....	97.87	
50 89 87 71-0034	LF		CALTRANS 710458 27" CEMENTITIOUS PIPELINER.....	101.78	
50 89 87 71-0035	LF		CALTRANS 710460 30" CEMENTITIOUS PIPELINER.....	105.56	
50 89 87 71-0036	LF		CALTRANS 710462 36" CEMENTITIOUS PIPELINER.....	103.58	
50 89 87 71-0037	LF		CALTRANS 710478 36" WELDED STEEL PIPELINER.....	613.20	
50 89 87 71-0038	LF		CALTRANS 710480 42" WELDED STEEL PIPELINER.....	708.01	
50 89 87 71-0039	LF		CALTRANS 710482 48" WELDED STEEL PIPELINER.....	805.28	
50 89 87 71-0040	LF		CALTRANS 710484 54" WELDED STEEL PIPELINER.....	978.52	
50 89 87 71-0041	LF		CALTRANS 710486 60" WELDED STEEL PIPELINER.....	1,060.13	
50 89 87 71-0042	LF		CALTRANS 710488 66" WELDED STEEL PIPELINER.....	1,158.52	
50 89 87 71-0043	LF		CALTRANS 710490 72" WELDED STEEL PIPELINER.....	1,377.16	
50 89 87 71-0044	LF		CALTRANS 710491 78" WELDED STEEL PIPELINER.....	1,455.08	
50 89 87 71-0045	LF		CALTRANS 710492 84" WELDED STEEL PIPELINER.....	1,541.91	
50 89 87 71-0046	LF		CALTRANS 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29").....	265.03	
50 89 87 71-0047	LF		CALTRANS 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33").....	329.48	
50 89 87 71-0048	LF		CALTRANS 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38").....	407.38	
50 89 87 71-0049	LF		CALTRANS 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43").....	488.66	
50 89 87 71-0050	LF		CALTRANS 710522 83" X 57" WELDED STEEL PIPELINER (ARCH).....	1,534.30	
50 89 87 71-0051	LF		CALTRANS 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5).....	55.10	
50 89 87 71-0052	LF		CALTRANS 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5).....	69.26	
50 89 87 71-0053	LF		CALTRANS 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5).....	84.96	
50 89 87 71-0054	LF		CALTRANS 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5).....	98.00	
50 89 87 71-0055	LF		CALTRANS 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5).....	112.14	
50 89 87 71-0056	LF		CALTRANS 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5).....	127.99	
50 89 87 71-0057	LF		CALTRANS 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5).....	144.38	
50 89 87 71-0058	LF		CALTRANS 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5).....	167.20	
50 89 87 71-0059	LF		CALTRANS 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5).....	191.16	
50 89 87 71-0060	LF		CALTRANS 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5).....	211.27	
50 89 87 71-0061	LF		CALTRANS 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5).....	231.40	
50 89 87 71-0062	LF		CALTRANS 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5).....	264.47	
50 89 87 71-0063	LF		CALTRANS 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5).....	297.54	
50 89 87 71-0064	LF		CALTRANS 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5).....	382.73	
50 89 87 71-0065	LF		CALTRANS 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5).....	466.80	
50 89 87 71-0066	LF		CALTRANS 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5).....	492.96	
50 89 87 71-0067	LF		CALTRANS 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5).....	617.87	
50 89 87 71-0068	LF		CALTRANS 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26).....	65.70	
50 89 87 71-0069	LF		CALTRANS 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26).....	82.59	
50 89 87 71-0070	LF		CALTRANS 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26).....	101.59	
50 89 87 71-0071	LF		CALTRANS 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26).....	117.29	
50 89 87 71-0072	LF		CALTRANS 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26).....	134.36	
50 89 87 71-0073	LF		CALTRANS 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26).....	153.54	
50 89 87 71-0074	LF		CALTRANS 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26).....	173.39	
50 89 87 71-0075	LF		CALTRANS 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26).....	201.22	
50 89 87 71-0076	LF		CALTRANS 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26).....	230.45	
50 89 87 71-0077	LF		CALTRANS 710766 HDPE PLASTIC PIPELINER (34" OD SDR 26).....	254.92	
50 89 87 71-0078	LF		CALTRANS 710768 HDPE PLASTIC PIPELINER (36" OD SDR 26).....	279.41	
50 89 87 71-0079	LF		CALTRANS 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26).....	319.95	
50 89 87 71-0080	LF		CALTRANS 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26).....	360.50	
50 89 87 71-0081	LF		CALTRANS 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26).....	465.65	
50 89 87 71-0082	LF		CALTRANS 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26).....	569.43	
50 89 87 71-0083	LF		CALTRANS 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26).....	601.40	
50 89 87 71-0084	LF		CALTRANS 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26).....	755.35	
50 89 87 71-0085	LF		CALTRANS 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21).....	79.38	
50 89 87 71-0086	LF		CALTRANS 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21).....	99.81	
50 89 87 71-0087	LF		CALTRANS 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21).....	123.08	
50 89 87 71-0088	LF		CALTRANS 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21).....	142.21	
50 89 87 71-0089	LF		CALTRANS 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21).....	163.05	
50 89 87 71-0090	LF		CALTRANS 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21).....	186.54	
50 89 87 71-0091	LF		CALTRANS 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21).....	210.86	
50 89 87 71-0092	LF		CALTRANS 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21).....	245.16	
50 89 87 71-0093	LF		CALTRANS 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21).....	281.21	
50 89 87 71-0094	LF		CALTRANS 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21).....	311.31	
50 89 87 71-0095	LF		CALTRANS 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21).....	341.43	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0096 LF CALTRANS 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21).....	391.62	
50 89 87 71-0097 LF CALTRANS 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21).....	441.81	
50 89 87 71-0098 LF CALTRANS 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21).....	572.76	
50 89 87 71-0099 LF CALTRANS 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21).....	702.00	
50 89 87 71-0100 LF CALTRANS 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21).....	741.47	
50 89 87 71-0101 LF CALTRANS 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21).....	932.93	
50 89 88 CALTRANS DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 88)		
50 89 88 73 CONCRETE CURBS AND SIDEWALKS (50 89 88)		
50 89 88 73-0001 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 18".....	27.76	
For Up To 20, Add	16.13	
For >20 To 50, Add	9.12	
For >50 To 100, Add	3.50	
For >500 To 1,000, Deduct	-3.50	
For >1,000, Deduct	-5.95	
50 89 88 73-0002 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 24".....	32.17	
For Up To 20, Add	18.07	
For >20 To 50, Add	10.20	
For >50 To 100, Add	3.94	
For >500 To 1,000, Deduct	-3.94	
For >1,000, Deduct	-6.71	
50 89 88 73-0003 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 18".....	29.73	
For Up To 20, Add	16.60	
For >20 To 50, Add	9.37	
For >50 To 100, Add	3.62	
For >500 To 1,000, Deduct	-3.62	
For >1,000, Deduct	-6.17	
50 89 88 73-0004 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 24".....	34.88	
For Up To 20, Add	18.62	
For >20 To 50, Add	10.47	
For >50 To 100, Add	4.07	
For >500 To 1,000, Deduct	-4.07	
For >1,000, Deduct	-6.98	
50 89 88 73-0005 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 36".....	48.83	
For Up To 20, Add	25.48	
For >20 To 50, Add	14.31	
For >50 To 100, Add	5.58	
For >500 To 1,000, Deduct	-5.58	
For >1,000, Deduct	-9.60	
50 89 88 73-0006 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 24".....	43.22	
For Up To 20, Add	21.73	
For >20 To 50, Add	12.18	
For >50 To 100, Add	4.78	
For >500 To 1,000, Deduct	-4.78	
For >1,000, Deduct	-8.25	
50 89 88 73-0007 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 36".....	61.25	
For Up To 20, Add	30.10	
For >20 To 50, Add	16.84	
For >50 To 100, Add	6.63	
For >500 To 1,000, Deduct	-6.63	
For >1,000, Deduct	-11.48	
50 89 88 73-0008 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 18".....	36.81	
For Up To 20, Add	24.82	
For >20 To 50, Add	13.78	
For >50 To 100, Add	5.52	
For >500 To 1,000, Deduct	-4.58	
For >1,000, Deduct	-7.79	
50 89 88 73-0009 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 24".....	44.72	
For Up To 20, Add	30.14	
For >20 To 50, Add	16.72	
For >50 To 100, Add	6.71	
For >500 To 1,000, Deduct	-5.54	
For >1,000, Deduct	-9.43	
50 89 88 73-0010 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 30".....	58.37	
For Up To 20, Add	39.36	
For >20 To 50, Add	21.85	
For >50 To 100, Add	8.76	
For >500 To 1,000, Deduct	-7.26	
For >1,000, Deduct	-12.34	
50 89 88 73-0011 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 36".....	61.60	
For Up To 20, Add	41.50	
For >20 To 50, Add	23.02	
For >50 To 100, Add	9.24	
For >500 To 1,000, Deduct	-7.62	
For >1,000, Deduct	-12.98	
50 89 88 73-0012 SF CALTRANS 730070 DETECTABLE WARNING SURFACE.....	49.46	
50 89 88 73-0013 CY CALTRANS 731502 MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION).....	250.70	
For Up To 20, Add	12.28	
For >20 To 50, Add	4.61	
For >100 To 200, Deduct	-5.01	
For >200 To 400, Deduct	-10.03	
For >400, Deduct	-15.04	



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CALTRANS Custom Standards And Assemblies		50 89
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
50 89 88 73-0014	SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 4".....	9.85		
	For Up To 100, Add	4.10		
	For >100 To 500, Add	1.15		
	For >1,000 To 5,000, Deduct	-0.66		
	For >5,000, Deduct	-1.48		
50 89 88 73-0015	SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 6".....	11.85		
	For Up To 100, Add	4.73		
	For >100 To 500, Add	1.30		
	For >1,000 To 5,000, Deduct	-0.71		
	For >5,000, Deduct	-1.65		
50 89 88 73-0016	LF CALTRANS 731700 REMOVE CURB	11.27		
50 89 88 73-0017	LF CALTRANS 731710 REMOVE CONCRETE CURB (LF)	17.46		
	For Up To 20, Add	12.22		
	For >20 To 50, Add	6.98		
	For >50 To 100, Add	2.62		
	For >500 To 1,000, Deduct	-2.62		
	For >1,000, Deduct	-4.37		
50 89 88 73-0018	SY CALTRANS 731780 REMOVE CONCRETE SIDEWALK (SQYD)	106.65		
	For Up To 100, Add	42.54		
	For >100 To 500, Add	11.68		
	For >1,000 To 5,000, Deduct	-6.35		
	For >5,000, Deduct	-14.86		
50 89 88 73-0019	LF CALTRANS 731840 REMOVE CONCRETE (CURB AND GUTTER)	28.63		
	For Up To 20, Add	20.04		
	For >20 To 50, Add	11.45		
	For >50 To 100, Add	4.29		
	For >500 To 1,000, Deduct	-4.29		
	For >1,000, Deduct	-7.16		
50 89 88 78 INCIDENTAL CONSTRUCTION (50 89 88)				
50 89 88 78-0001	EA CALTRANS 780210 SURVEY MONUMENT (TYPE A)	517.63		
50 89 88 78-0002	EA CALTRANS 780250 ADJUST MONUMENT COVER TO GRADE	206.22		
50 89 88 78-0003	SF CALTRANS 780433 PAINT CURB (2-COAT).....	5.23		
50 89 88 78-0004	SF CALTRANS 780460 ANTI-GRAFFITI COATING	1.59		
	For Up To 100, Add	0.95		
	For >100 To 250, Add	0.46		
	For >250 To 500, Add	0.20		
50 89 88 78-0005	EA CALTRANS 780500 PARKING BUMPER (PRECAST CONCRETE)	55.30		19.75
50 89 88 80 FENCES (50 89 88)				
Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRAN Standard.				
50 89 88 80-0001	LF CALTRANS 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST)	11.56		
50 89 88 80-0002	LF CALTRANS 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST)	12.26		
50 89 88 80-0003	LF CALTRANS 800007 FENCE (TYPE BW, 5-STRAND, METAL POST)	13.67		
50 89 88 80-0004	LF CALTRANS 800008 FENCE (TYPE BW, 4-STRAND, METAL POST)	12.67		
50 89 88 80-0005	LF CALTRANS 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST)	10.84		
50 89 88 80-0006	LF CALTRANS 800016 FENCE (TYPE BW, 6-STRAND, METAL POST)	14.38		
50 89 88 80-0007	LF CALTRANS 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6))	6.76		
50 89 88 80-0008	LF CALTRANS 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD)	38.39		
	For Up To 100, Add	7.34		
	For >100 To 250, Add	2.71		
	For >2,500 To 5,000, Deduct	-1.36		
	For >5,000, Deduct	-2.71		
50 89 88 80-0009	LF CALTRANS 800310 CHAIN LINK FENCE (TYPE CL-3.5)	37.21		
	For Up To 100, Add	7.14		
	For >100 To 250, Add	2.64		
	For >2,500 To 5,000, Deduct	-1.32		
	For >5,000, Deduct	-2.64		
50 89 88 80-0010	LF CALTRANS 800320 CHAIN LINK FENCE (TYPE CL-4)	38.44		
	For Up To 100, Add	7.35		
	For >100 To 250, Add	2.71		
	For >2,500 To 5,000, Deduct	-1.36		
	For >5,000, Deduct	-2.71		
50 89 88 80-0011	LF CALTRANS 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)	39.82		
	For Up To 100, Add	7.56		
	For >100 To 250, Add	2.78		
	For >2,500 To 5,000, Deduct	-1.39		
	For >5,000, Deduct	-2.78		
50 89 88 80-0012	LF CALTRANS 800340 CHAIN LINK FENCE (TYPE CL-5)	41.31		
	For Up To 100, Add	7.83		
	For >100 To 250, Add	2.88		
	For >2,500 To 5,000, Deduct	-1.44		
	For >5,000, Deduct	-2.88		
50 89 88 80-0013	LF CALTRANS 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD)	43.05		
	For Up To 100, Add	8.09		
	For >100 To 250, Add	2.97		
	For >2,500 To 5,000, Deduct	-1.48		
	For >5,000, Deduct	-2.97		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0014 LF CALTRANS 800360 CHAIN LINK FENCE (TYPE CL-6)	44.75	
For Up To 100, Add	8.45	
For >100 To 250, Add	3.11	
For >2,500 To 5,000, Deduct	-1.55	
For >5,000, Deduct	-3.11	
50 89 88 80-0015 LF CALTRANS 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD)	48.29	
For Up To 100, Add	8.98	
For >100 To 250, Add	3.28	
For >2,500 To 5,000, Deduct	-1.64	
For >5,000, Deduct	-3.28	
50 89 88 80-0016 LF CALTRANS 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM)	45.56	
For Up To 100, Add	8.57	
For >100 To 250, Add	3.15	
For >2,500 To 5,000, Deduct	-1.57	
For >5,000, Deduct	-3.15	
50 89 88 80-0017 LF CALTRANS 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED)	94.72	
For Up To 100, Add	16.38	
For >100 To 250, Add	5.82	
For >2,500 To 5,000, Deduct	-2.91	
For >5,000, Deduct	-5.82	
50 89 88 80-0018 LF CALTRANS 800400 CHAIN LINK FENCE (TYPE CL-8)	52.62	
For Up To 100, Add	9.82	
For >100 To 250, Add	3.59	
For >2,500 To 5,000, Deduct	-1.80	
For >5,000, Deduct	-3.59	
50 89 88 80-0019 EA CALTRANS 802100 4' CHAIN LINK GATE (TYPE CL-4)	432.30	
50 89 88 80-0020 EA CALTRANS 802110 5' CHAIN LINK GATE (TYPE CL-4)	512.45	
50 89 88 80-0021 EA CALTRANS 802120 6' CHAIN LINK GATE (TYPE CL-4)	602.50	
50 89 88 80-0022 EA CALTRANS 802180 12' CHAIN LINK GATE (TYPE CL-4)	1,467.78	
50 89 88 80-0023 EA CALTRANS 802340 8' CHAIN LINK GATE (TYPE CL-5)	915.25	
50 89 88 80-0024 EA CALTRANS 802400 14' CHAIN LINK GATE (TYPE CL-5)	2,080.91	
50 89 88 80-0025 EA CALTRANS 802420 16' CHAIN LINK GATE (TYPE CL-5)	2,399.01	
50 89 88 80-0026 EA CALTRANS 802440 18' CHAIN LINK GATE (TYPE CL-5)	2,682.15	
50 89 88 80-0027 EA CALTRANS 802500 3' CHAIN LINK GATE (TYPE CL-6)	439.69	
50 89 88 80-0028 EA CALTRANS 802501 4' CHAIN LINK GATE (TYPE CL-6)	559.86	
50 89 88 80-0029 EA CALTRANS 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD)	262.61	
50 89 88 80-0030 EA CALTRANS 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)	567.75	
50 89 88 80-0031 EA CALTRANS 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED)	590.28	
50 89 88 80-0032 EA CALTRANS 802510 5' CHAIN LINK GATE (TYPE CL-6)	656.53	
50 89 88 80-0033 EA CALTRANS 802520 6' CHAIN LINK GATE (TYPE CL-6)	761.93	
50 89 88 80-0034 EA CALTRANS 802540 8' CHAIN LINK GATE (TYPE CL-6)	977.62	
50 89 88 80-0035 EA CALTRANS 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)	986.44	
50 89 88 80-0036 EA CALTRANS 802550 9' CHAIN LINK GATE (TYPE CL-6)	1,083.71	
50 89 88 80-0037 EA CALTRANS 802560 10' CHAIN LINK GATE (TYPE CL-6)	1,613.13	
50 89 88 80-0038 EA CALTRANS 802580 12' CHAIN LINK GATE (TYPE CL-6)	1,915.34	
50 89 88 80-0039 EA CALTRANS 802601 14' CHAIN LINK GATE (TYPE CL-6)	2,270.91	
50 89 88 80-0040 EA CALTRANS 802620 16' CHAIN LINK GATE (TYPE CL-6)	2,577.88	
50 89 88 80-0041 EA CALTRANS 802640 18' CHAIN LINK GATE (TYPE CL-6)	2,893.28	
50 89 88 80-0042 EA CALTRANS 802660 20' CHAIN LINK GATE (TYPE CL-6)	3,212.63	
50 89 88 80-0043 EA CALTRANS 802670 24' CHAIN LINK GATE (TYPE CL-6)	3,860.40	
50 89 88 80-0044 EA CALTRANS 802840 18' CHAIN LINK GATE (TYPE CL-7)	3,052.41	
50 89 88 80-0045 LF CALTRANS 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM)	53.43	
For Up To 100, Add	9.94	
For >100 To 250, Add	3.63	
For >2,500 To 5,000, Deduct	-1.82	
For >5,000, Deduct	-3.63	
50 89 88 80-0046 EA CALTRANS 802901 4' CHAIN LINK GATE (TYPE CL-8)	692.21	
50 89 88 80-0047 EA CALTRANS 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM)	700.10	
50 89 88 80-0048 EA CALTRANS 802920 6' CHAIN LINK GATE (TYPE CL-8)	927.74	
50 89 88 80-0049 EA CALTRANS 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM)	1,194.57	
50 89 88 80-0050 EA CALTRANS 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL-CLAD)	1,464.46	
50 89 88 80-0051 LF CALTRANS 803050 REMOVE CHAIN LINK FENCE	5.87	
For Up To 100, Add	1.47	
For >100 To 250, Add	0.59	
For >2,500 To 5,000, Deduct	-0.29	
For >5,000, Deduct	-0.59	
50 89 88 80-0052 EA CALTRANS 803060 REMOVE GATE	259.85	
50 89 88 80-0053 EA CALTRANS 803160 RESET GATE	1,262.07	
50 89 88 80-0054 LF CALTRANS 803180 RELOCATE CHAIN LINK FENCE	26.94	

50 89 89 CALTRANS DIVISION IX - TRAFFIC CONTROL DEVICES (50 89 80)**50 89 89 81 MISCELLANEOUS TRAFFIC CONTROL DEVICES (50 89 89)**

50 89 89 81-0001 EA CALTRANS 810120 REMOVE PAVEMENT MARKER	2.39	
For >100, Deduct	-0.24	
50 89 89 81-0002 EA CALTRANS 810220 PAVEMENT MARKER (NON-REFLECTIVE)	4.70	2.39
For >100, Deduct	-0.47	
For >100, Deduct	-0.47	
50 89 89 81-0003 EA CALTRANS 810230 PAVEMENT MARKER (RETROREFLECTIVE)	5.34	2.39
For >100, Deduct	-0.53	
For >100, Deduct	-0.53	
50 89 89 81-0004 EA CALTRANS 810250 PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	64.91	28.38



Custom Standards And Assemblies			50
CALTRANS Custom Standards And Assemblies			50 89
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 82 SIGNS AND MARKERS (50 89 89)		
50 89 89 82-0001 EA CALTRANS 820110 MILEPOST MARKER	167.11	
50 89 89 82-0002 SF CALTRANS 820750 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	15.61	33.52
50 89 89 82-0003 SF CALTRANS 820760 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	16.24	21.70
50 89 89 83 RAILINGS AND BARRIERS (50 89 89)		
50 89 89 83-0001 LF CALTRANS 832006 MIDWEST GUARDRAIL SYSTEM (STEEL POST)	44.88	9.48
50 89 89 83-0002 LF CALTRANS 832007 MIDWEST GUARDRAIL SYSTEM (WOOD POST)	91.93	14.64
50 89 89 83-0003 LF CALTRANS 839303 SINGLE THRIE BEAM BARRIER (STEEL POST)	64.36	2.61
50 89 89 83-0004 LF CALTRANS 839752 REMOVE GUARDRAIL	9.48	
50 89 89 84 MARKINGS (50 89 89)		
50 89 89 84-0001 LF CALTRANS 840505 6" THERMOPLASTIC TRAFFIC STRIPE	1.89	
For Up To 5,000 LF, Add	0.38	
For >25,000 LF, Deduct	-0.28	
50 89 89 84-0002 LF CALTRANS 840506 8" THERMOPLASTIC TRAFFIC STRIPE	2.51	
For Up To 5,000 LF, Add	0.50	
For >25,000 LF, Deduct	-0.38	
50 89 89 84-0003 LF CALTRANS 840507 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4)	1.12	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.17	
50 89 89 84-0004 LF CALTRANS 840508 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	0.98	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
50 89 89 84-0005 SF CALTRANS 840515 THERMOPLASTIC PAVEMENT MARKING	8.72	
50 89 89 84-0006 SF CALTRANS 840519 THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	8.72	
50 89 89 84-0007 LF CALTRANS 840522 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1)	0.64	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
50 89 89 84-0008 LF CALTRANS 840528 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	0.74	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
50 89 89 84-0009 LF CALTRANS 840529 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	0.87	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
50 89 89 84-0010 LF CALTRANS 840530 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	0.99	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
50 89 89 84-0011 LF CALTRANS 840531 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12)	1.38	
For Up To 5,000 LF, Add	0.28	
For >25,000 LF, Deduct	-0.21	
50 89 89 84-0012 LF CALTRANS 840550 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	1.15	
For Up To 5,000 LF, Add	0.23	
For >25,000 LF, Deduct	-0.17	
50 89 89 84-0013 LF CALTRANS 840583 6" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.72	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
50 89 89 84-0014 LF CALTRANS 840584 8" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.87	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
50 89 89 84-0015 LF CALTRANS 840610 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3)	0.49	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.07	
50 89 89 84-0016 LF CALTRANS 840612 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 6-1)	0.44	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
50 89 89 84-0017 LF CALTRANS 840614 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3)	0.49	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.07	
50 89 89 84-0018 LF CALTRANS 840616 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12)	0.39	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
50 89 89 84-0019 LF CALTRANS 840618 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 17-7)	0.49	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.07	
50 89 89 84-0020 LF CALTRANS 840620 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 18-12)	0.56	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
50 89 89 84-0021 LF CALTRANS 840622 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 8-4)	0.49	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.07	
50 89 89 84-0022 LF CALTRANS 840624 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12)	0.61	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
50 89 89 84-0023 SF CALTRANS 840637 TWO-COMPONENT PAINT PAVEMENT MARKING	7.21	
50 89 89 84-0024 SF CALTRANS 840651 PAINTED STALL LINES AND PAVEMENT MARKINGS	5.87	
50 89 89 84-0025 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 4" Wide	0.31	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0026	LF		CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 6" Wide	0.39	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
50 89 89 84-0027	LF		CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 8" Wide	0.49	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.07	
50 89 89 84-0028	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 4" Wide	0.59	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
50 89 89 84-0029	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 6" Wide	0.75	
			For Up To 5,000 LF, Add	0.15	
			For >25,000 LF, Deduct	-0.11	
50 89 89 84-0030	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 8" Wide	0.98	
			For Up To 5,000 LF, Add	0.20	
			For >25,000 LF, Deduct	-0.15	
50 89 89 84-0031	SF		CALTRANS 840665 PAINT PAVEMENT MARKING (1-COAT)	5.89	
50 89 89 84-0032	SF		CALTRANS 840666 PAINT PAVEMENT MARKING (2-COAT)	8.96	
50 89 89 84-0033	LF		CALTRANS 846020 REMOVE PAINTED TRAFFIC STRIPE	1.97	
			For Up To 250, Add	0.99	
			For >250 To 1,000, Add	0.49	
			For >5,000 To 10,000, Deduct	-0.30	
			For >10,000 To 25,000, Deduct	-0.49	
			For >25,000 To 50,000, Deduct	-0.69	
			For >50,000, Deduct	-0.79	
50 89 89 84-0034	SF		CALTRANS 846025 REMOVE PAINTED PAVEMENT MARKING	3.39	
			For Up To 250, Add	1.70	
			For >250 To 1,000, Add	0.85	
			For >5,000 To 10,000, Deduct	-0.51	
			For >10,000 To 25,000, Deduct	-0.85	
			For >25,000 To 50,000, Deduct	-1.19	
			For >50,000, Deduct	-1.36	
50 89 89 84-0035	LF		CALTRANS 846030 REMOVE THERMOPLASTIC TRAFFIC STRIPE	2.98	
			For Up To 250, Add	1.49	
			For >250 To 1,000, Add	0.75	
			For >5,000 To 10,000, Deduct	-0.45	
			For >10,000 To 25,000, Deduct	-0.75	
			For >25,000 To 50,000, Deduct	-1.04	
			For >50,000, Deduct	-1.19	
50 89 89 84-0036	SF		CALTRANS 846035 REMOVE THERMOPLASTIC PAVEMENT MARKING	4.32	
			For Up To 250, Add	2.16	
			For >250 To 1,000, Add	1.08	
			For >5,000 To 10,000, Deduct	-0.65	
			For >10,000 To 25,000, Deduct	-1.08	
			For >25,000 To 50,000, Deduct	-1.51	
			For >50,000, Deduct	-1.73	

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