

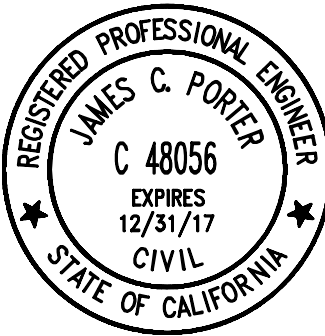
SAN MATEO COUNTY
CALIFORNIA

COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT

IN UNINCORPORATED SAN MATEO COUNTY

TOTAL PROJECT PROMENADE LENGTH APPROXIMATELY 1,000 FEET

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS
DATED MAY 2006 AND ADOPTED BY SAN MATEO COUNTY, NOVEMBER 14, 2006, BY RESOLUTION NO. 068389



APPROVED: _____
DATE: _____

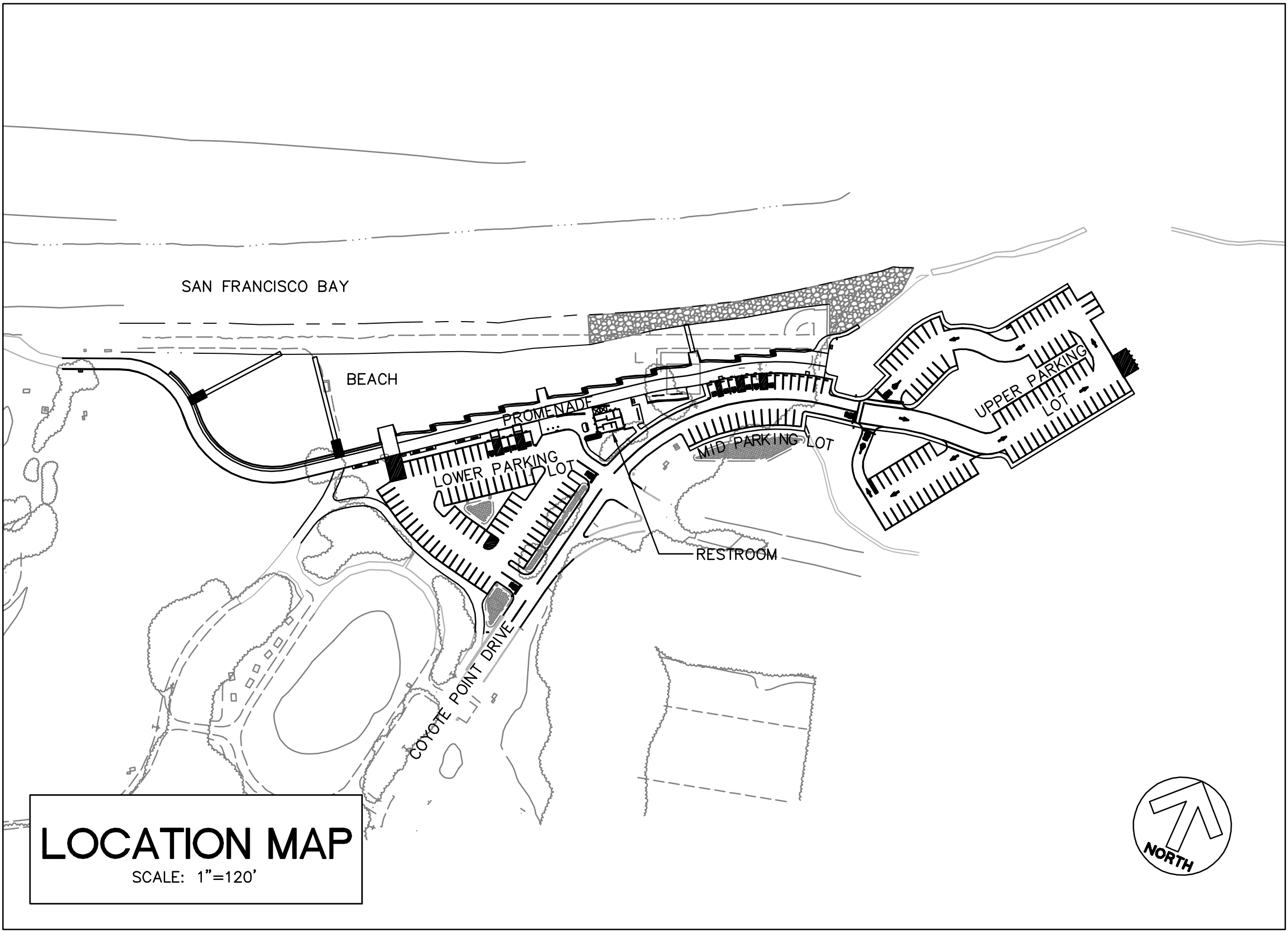
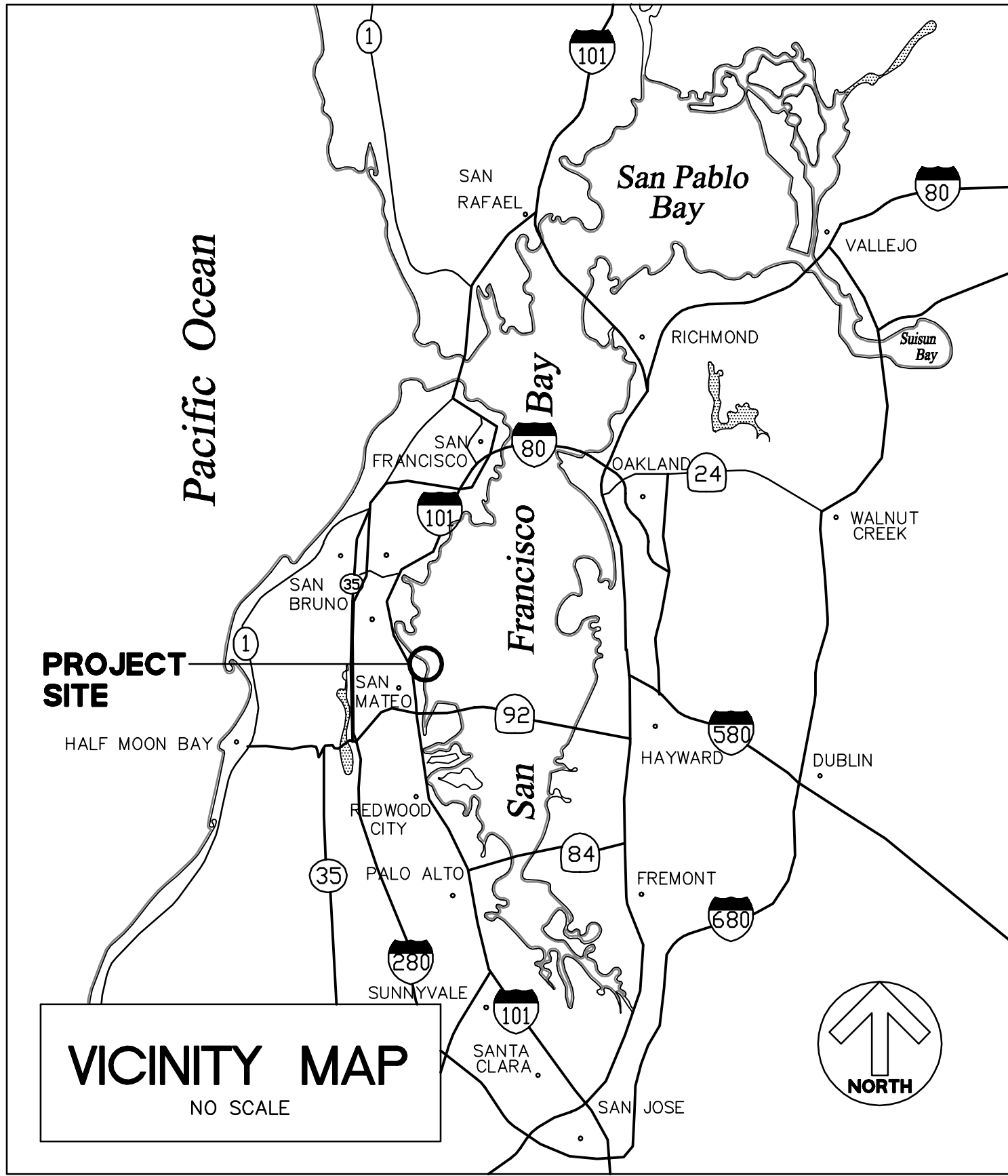
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____

MARLENE FINLEY, DIRECTOR OF PARKS

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ENGINEER'S STATEMENT
THIS PROJECT SITE IMPROVEMENT PLANS HAS BEEN PREPARED
UNDER MY DIRECTION.

ROLAND N.V. HAGA, VICE-PRESIDENT
BKF ENGINEERS
P.E. #C043971 / EXPIRES 6-11-2017

DATE: _____

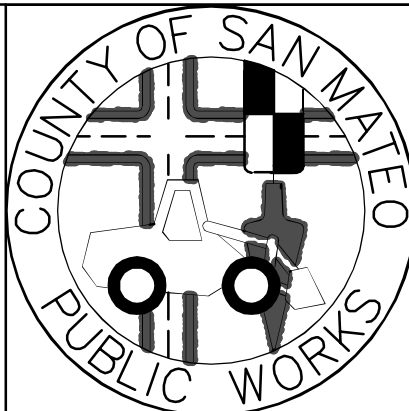
APPROVED DATE: _____

JONATHAN TANG, PROJECT MANAGER
BKF ENGINEERS
P.E. #C67726 / EXPIRES 6-30-2017



Bkf
ENGINEERS / SURVEYORS / PLANNERS

255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: MD	COYOTE POINT RECREATION AREA	SCALE: AS SHOWN
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: AG	TITLE SHEET	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4
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PROJECT DESCRIPTION:

THE PROPOSED COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT.

PHYSICAL DESCRIPTION OF SITE:

THE COYOTE POINT RECREATION AREA (COYOTE POINT) IS LOCATED ALONG 1,800 FEET OF SAN FRANCISCO BAY SHORELINE FROM THE EASTERN SIDE OF THE WESTERN PROMENADE PROJECT, TO THE COYOTE POINT HEADLAND, IN THE UNINCORPORATED AREAS OF THE COUNTY OF SAN MATEO.

LOCATION:

COYOTE POINT RECREATION AREA, UNINCORPORATED SAN MATEO COUNTY.

UTILITIES:

STORM DRAIN: COUNTY
WATER: COUNTY
SANITARY SEWER: COUNTY
GAS/ELECTRIC: PG&E

EXISTING TOPOGRAPHY

THE EXISTING TOPOGRAPHY IS BASED ON TOPOGRAPHY SURVEY PERFORMED BY BKF DATED SEPTEMBER 2015.

REFERENCES

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS DATED MAY 2006 AND ADOPTED BY SAN MATEO COUNTY, NOVEMBER 14, 2006, BY RESOLUTION NO. 068389

PROJECT NOTES:

1. CIVIL ENGINEER
- BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
TEL 650.482.6300
2. LANDSCAPE ARCHITECT
- MIG|TRA
800 HEARST AVENUE
BERKELEY, CA 94710
TEL 510.845.8750
3. ENVIRONMENTAL
- MIG|TRA
800 HEARST AVENUE
BERKELEY, CA 94710
TEL 510.845.8750
4. SHORELINE PROTECTION
- MOFFATT & NICHOL
2185 N. CALIFORNIA BOULEVARD, SUITE 500
WALNUT CREEK, CA 94596
TEL 925.944.5411
5. ELECTRICAL ENGINEER
- MTH ENGINEERS
3350 SCOTT BOULEVARD, #11
SANTA CLARA, CA 95054
TEL 408.986.8558
6. COUNTY
- COUNTY OF SAN MATEO
555 COUNTY CENTER, 5TH FLOOR
REDWOOD CITY, CA 94063
TEL 650.363.4100
7. THE FOLLOWING NOTES ARE ESTABLISHED MERELY TO GUIDE THE CONTRACTOR AS TO THE GENERAL ITEMS OF WORK INVOLVED AND ARE NOT INTENDED TO COVER COMPLETE SCOPE OF WORK. CONTRACTOR SHALL COMPLETE ALL WORK AS PER CONTRACT DOCUMENTS.
8. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
9. ALL MATERIALS, WORK APPURTENANCES SHALL CONFORM WITH THESE PLANS, THE PROJECT SPECIFICATIONS AND THE LATEST ADOPTED VERSION OF SAN MATEO COUNTY STANDARD DETAILS.
- 10.THE CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE RULES AND REGULATIONS ESTABLISHED BY CAL-OSHA AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK.
- 11.THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS OR MONUMENTS WITHOUT THE CONSENT OF THE COUNTY. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 12.THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING ROADWAYS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC. AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- 13.THE LOCATIONS AND TYPES OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON INFORMATION FURNISHED BY SERVICING AGENCIES AND FIELD SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE POSITION OF AND PROVIDE PROTECTION FOR SUCH UTILITIES AND STRUCTURES, WHETHER SHOWN ON THE PLAN OR NOT.
- 14.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
- 15.THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES DONE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
- 16.ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT WRITTEN APPROVAL OF THE ENGINEER SHALL BE AT THE CONTRACTOR'S OWN RISK.
- 17.PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN.
- 18.ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITY CROSSINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES. CONTACT USA AT (800) 227-2600 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.
- 19.CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES WITHIN THE PROJECT LIMITS, CONSISTING OF ROAD RIGHT-OF-WAY, UTILITY EASEMENTS, AND/OR PROJECT CONFORMS, AS SHOWN ON THE PLANS.

PROJECT NOTES (CONTINUED):

- 20.THE CONTRACTOR SHALL RESTORE ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED WALLS, FENCES, SERVICES, UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, DUE TO CONTRACTOR'S WORK. SEPARATE PAYMENT FOR RESTORATION OF EXISTING IMPROVEMENTS TO THEIR ORIGINAL CONDITION WILL NOT BE MADE. COMPENSATION FOR THIS TASK SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS CONTRACT ITEMS OF WORK INVOLVED.
- 21.ALL PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE COUNTY ENGINEER.
- 22.THE CONTRACTOR SHALL GIVE THE COUNTY ENGINEER TWO WORKING DAYS ADVANCE NOTICE FOR INSPECTION.
- 23.VEGETATION AND IMPROVEMENTS SHALL BE REMOVED ONLY WHEN DIRECTED IN WRITING BY THE ENGINEER. NO TREES, VEGETATION, OR IMPROVEMENTS (INCLUDING FENCES) SHALL BE REMOVED WITHOUT PRIOR WRITTEN CONSENT AND APPROVAL OF THE ENGINEER.
- 24.CONTINUOUS DUST CONTROL SHALL BE PROVIDED AS REQUIRED BY SECTION 17 "DEVELOP AND APPLY WATER," OF THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER.
- 25.THE CONTRACTOR SHALL FURNISH AND IMPLEMENT A WATER POLLUTION CONTROL PROGRAM FOR ALL PHASES OF WORK IN ACCORDANCE WITH SECTION 11-1, "WATER POLLUTION CONTROL," OF THE SPECIAL PROVISIONS.
- 26.THE CONTRACTOR SHALL FURNISH AND IMPLEMENT A TRAFFIC CONTROL PLAN FOR ALL PHASES OF WORK IN ACCORDANCE WITH SECTION 12, "MAINTAINING TRAFFIC," OF THE SPECIAL PROVISIONS.
- 27.NO TRENCHES OR HOLES SHALL BE LEFT OPEN OVERNIGHT, USE STEEL PLATING OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES OVERNIGHT, OR AS DIRECTED BY ENGINEER.
- 28.STAGING AREAS FOR EQUIPMENT AND MATERIALS STORAGE SHALL BE LOCATED IN PUBLIC ROAD RIGHT-OF-WAY WITH SAID LOCATION SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 29.ALL REVISIONS TO THIS PLAN MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY COUNTY ENGINEER PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.

GENERAL CONSTRUCTION NOTES:

IN ACCORDANCE WITH THE NPDES PERMIT COMPLIANCE CHECKLIST FOR THE COUNTY OF SAN MATEO, THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING:

1. STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
2. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASHWATER OR SEDIMENTS AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
3. USE SEDIMENT CONTROL OR FILTRATION TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
4. AVOID CLEANING, FUELING OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
5. DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES, AND DRAINAGE COURSES WITH FIELD MARKERS, OR OTHER DELINEATOR, AS APPROVED BY THE ENGINEER.
6. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
7. PERFORM CLEARING AND EARTH MOVING ACTIVITIES ONLY DURING DRY WEATHER.
8. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
9. AVOID TRACKING DIRT OR OTHER MATERIALS OFF-SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING METHODS.

BASIS OF BEARINGS:

ALL BEARINGS AND DISTANCES DERIVED FROM POINTS SHOWN HERON ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83), CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS 83), EPOCH 1991.35. DISTANCES DERIVED ARE GRID DISTANCES. TO CONVERT TO GROUND DISTANCES, MULTIPLY THE EXPRESSED DISTANCE BY 1.0000667.

PRIMARY CALTRANS D.O.T. CONTROL STATIONS USED:

D 55
SB 13
D 58
D 510
SB 0
SB 12

VERTICAL DATUM:

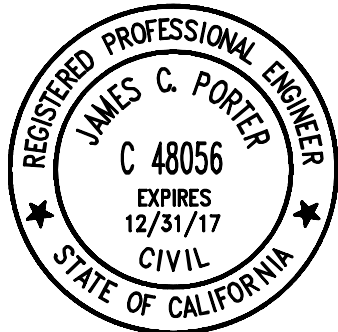
ALL ELEVATIONS SHOWN HEREON ARE BASED UPON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).

ABBREVIATIONS:

SYMBOL	DESCRIPTION
⊙	AT
#	NUMBER
6" T	6" DIAMETER TREE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
APPROX	APPROXIMATE
BLDG	BUILDING
BOT	BOTTOM
BW	BACK OF WALK
BWF	BARB WIRE FENCE
C&G	CURB AND GUTTER
CB	CATCH BASIN
CCP	CONCRETE CEMENT PIPE
CD	CURB DRAIN
CI	CURB INLET
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
COR	CORNER
CP	CONCRETE PAD
DI	DROP INLET
DW	DOMESTIC WATER
DW, D/W, DWY	DRIVEWAY
E, ELEC	ELECTRIC
(E), EX, EXIST	EXISTING
EASE	EASEMENT
EB	ELECTRIC BOX
EG	EXISTING GROUND
EL, ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ER	ELECTROLIER
ETW	EDGE OF TRAVELED WAY
FC	FACE OF CURB
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISHED SURFACE
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HC/HCR	HANDICAP RAMP
HP	HIGH POINT
INV	INVERT
JP	JOINT POLE
JT	JOINT TRENCH
LF	LINEAR FOOT
LG	LIP OF GUTTER
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MH	MANHOLE
MON	MONUMENT
(N)	NEW
NO	NUMBER
NTS	NOT TO SCALE
OH, O/H	OVER HEAD

LEGEND:

	PROPOSED	EXISTING
BOUNDARY		---
STORM DRAIN LINE		---12" SD---
SANITARY SEWER LINE		---6" SS---
WATER LINE		---8"W---
IRRIGATION WATER LINE		---IRR---
MANHOLE		◯MH
INLET		
VALVE		
CATCH BASIN		≡CB
WOODEN PILING		⊠
ELECTRICAL EQUIPMENT		◯ELEC
SPOT ELEVATION		×101
CLEANOUT		◯
ELECTRICAL		—E—
ELECTROLIER		☆
JOINT POLE		⊖
SIGN		—
FENCE		—x—x—x—x—x—x—
TREE		



APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

SYMBOL	DESCRIPTION
PAV	PAVEMENT
P/L	PROPERTY LINE
PR, PROP	PROPOSED
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RET	RETURN
RIM	RIM ELEVATION
R/W, R-O-W	RIGHT OF WAY
S	SLOPE
SD	STORM DRAIN
SDAD	STORM DRAIN AREA DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCI	STORM DRAIN CURB INLET
SDDI	STORM DRAIN DROP INLET
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
SL	STREET LIGHT
SLB/SLPB	STREET LIGHT BOX
SQFT.	SQUARE FEET
SS	SANITARY SEWER
SSAD	SANITARY SEWER AREA DRAIN
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
SW, S/W	SIDEWALK
T, TRANS	TRANSFORMER
TOP OF CURB	TOP OF CURB
T, TEL, TELE	TELEPHONE
TS	TOP OF GRATE
TSB/TSPB	TRAFFIC SIGNAL
TW	TRAFFIC SIGNAL BOX
TYP	TOP OF WALL
UB	TYPICAL
W	UTILITY BOX
WL	WATER
WM	WATER LINE
WV	WATER METER
W/	WATER VALVE WITH

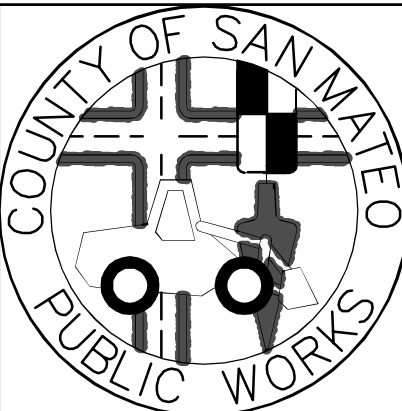


Know what's below.
Call before you dig.

APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

ENGINEERS / SURVEYORS / PLANNERS

255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

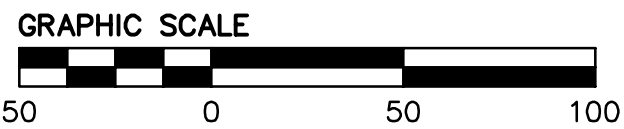
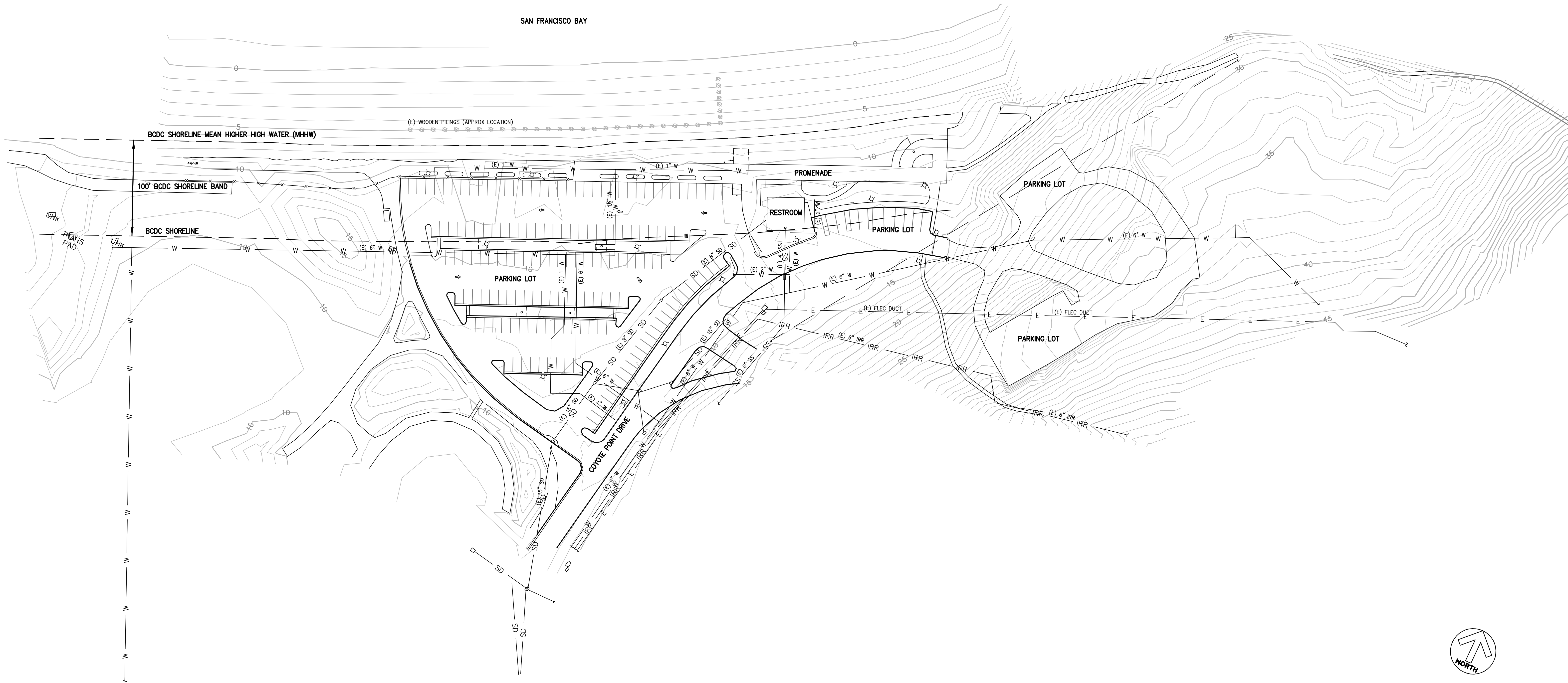


DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: AS SHOWN
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	NOTES, LEGEND AND ABBREVIATIONS		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	
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		SHEET 2 OF 58	



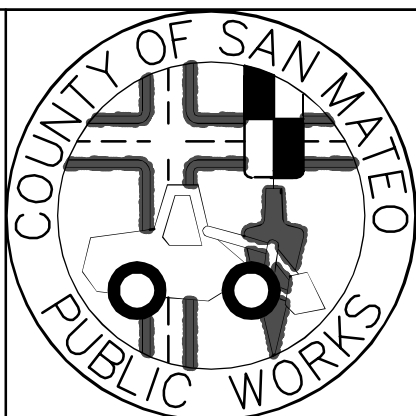
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JONATHAN TANG, PROJECT MANAGER	
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BKF
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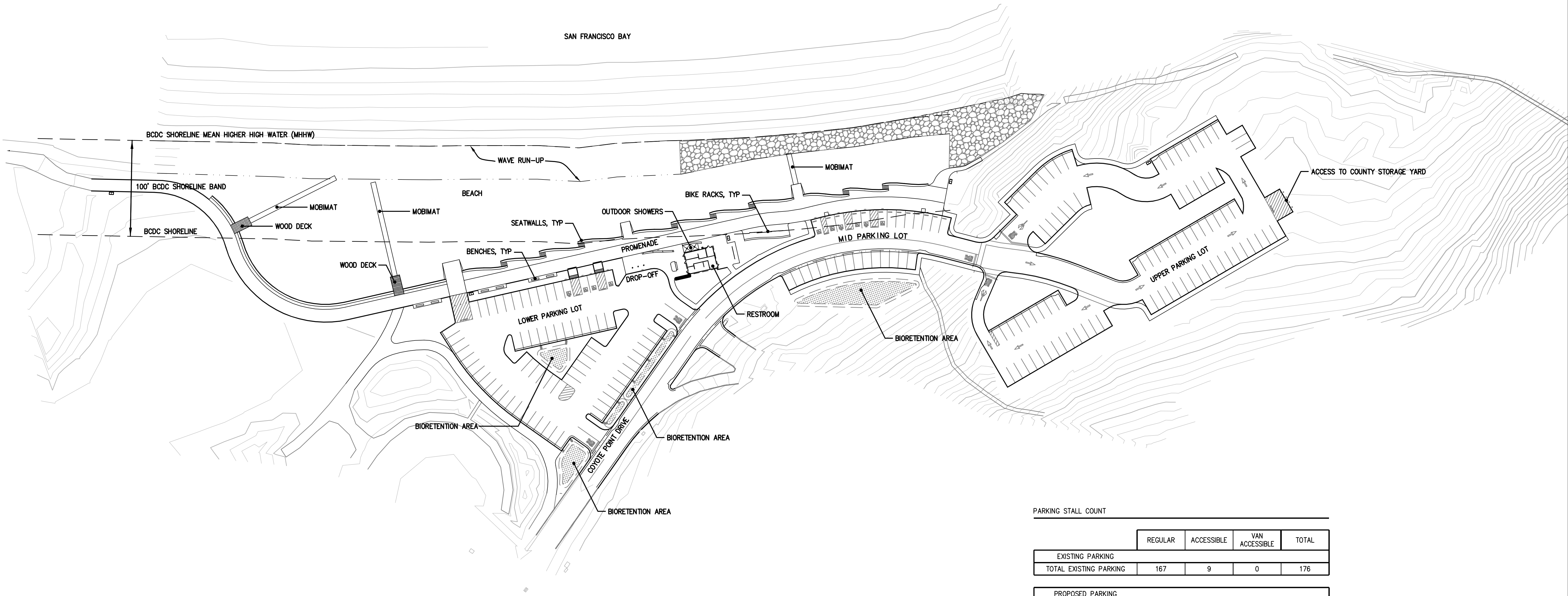


DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: 1"=50'
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	EXISTING CONDITIONS PLAN		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
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		EX-1 SHEET 3 OF 58	



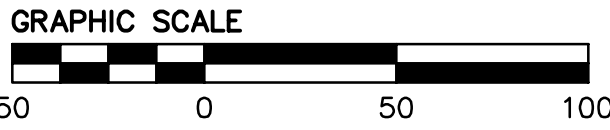
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DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



PARKING STALL COUNT				
	REGULAR	ACCESSIBLE	VAN ACCESSIBLE	TOTAL
EXISTING PARKING				
TOTAL EXISTING PARKING	167	9	0	176
PROPOSED PARKING				
LOWER PARKING LOT	67	3	1	71
MID (RESTROOM) PARKING LOT	22	4	2	28
UPPER PARKING LOT	89	0	0	89
TOTAL PROPOSED PARKING	178	7	3	188

- NOTES:
1. THE TOTAL NUMBER OF PROPOSED ACCESSIBLE PARKING STALLS MEETS AND EXCEEDS THE MINIMUM REQUIRED PER THE 2013 CALIFORNIA BUILDING CODE.
 2. THE TOTAL NUMBER OF PROPOSED VAN ACCESSIBLE PARKING STALLS MEETS AND EXCEEDS THE MINIMUM REQUIRED PER THE 2013 CALIFORNIA BUILDING CODE.



APPROVED DATE:

JONATHAN TANG, PROJECT MANAGER

BKF ENGINEERS

P.E. #C67726 / EXPIRES 6-30-2017

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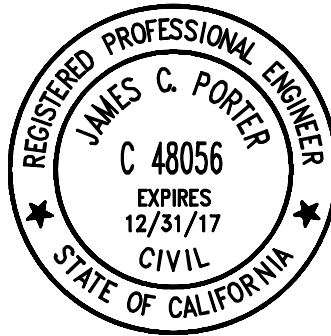
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CHECKED BY: JT		
DRAWN BY: AG		
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	DATE: 9/9/2016 FILE NO.: E4948
REVISION	DATE	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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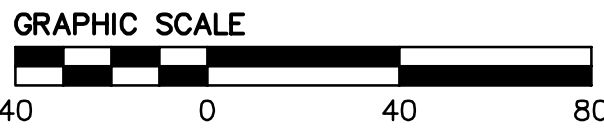
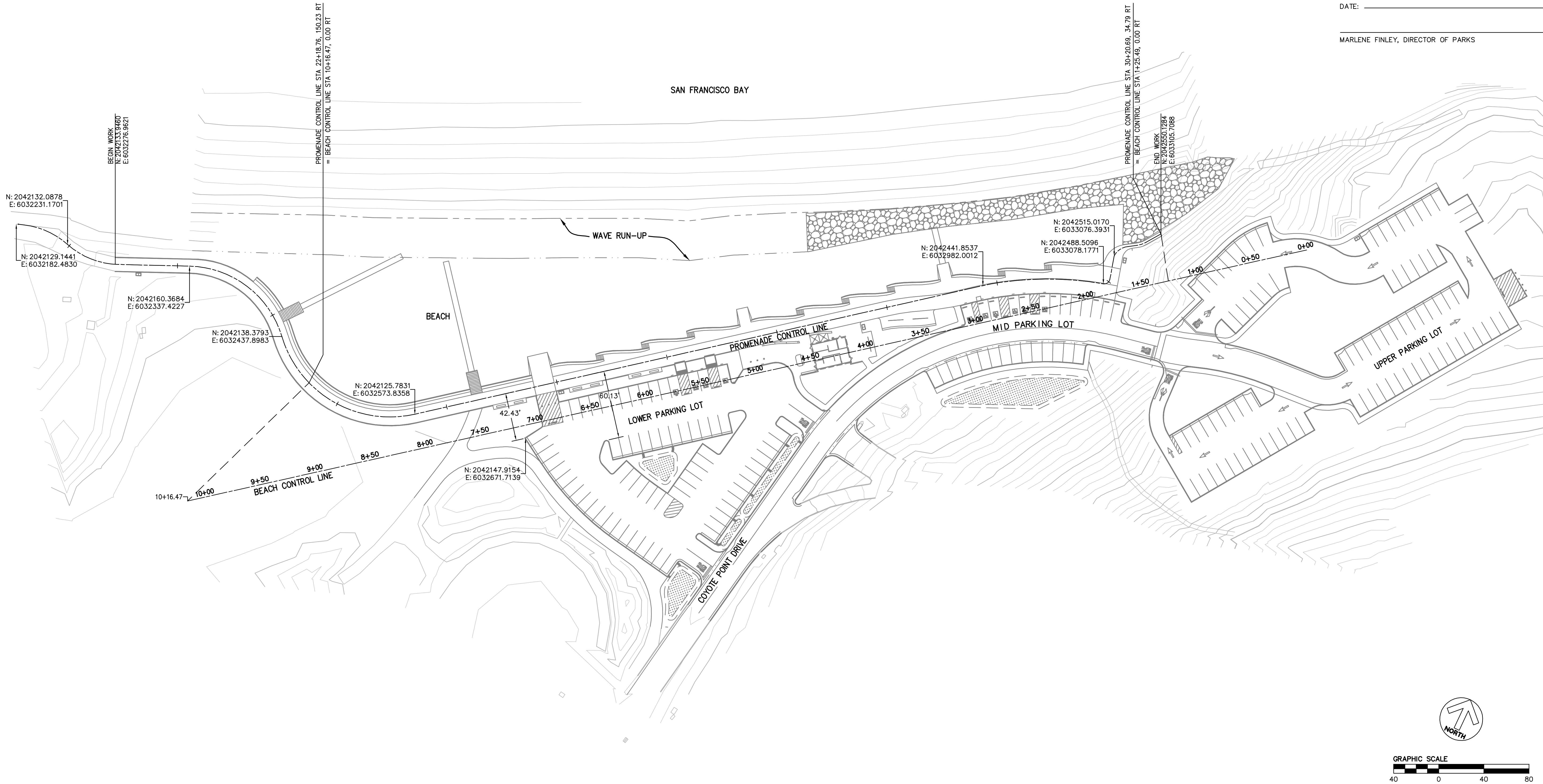
OP-1

SHEET 4 OF 58



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R. C. E. # 48056 / EXPIRES 12-31-2017

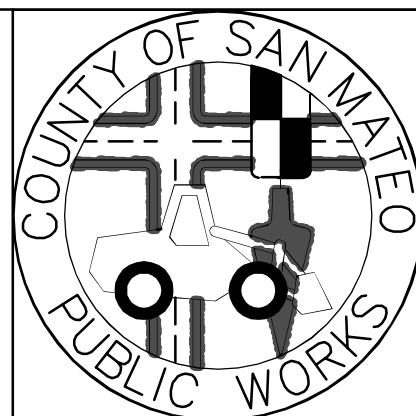
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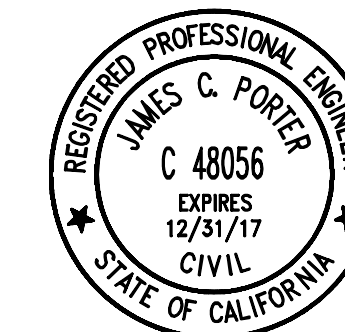
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JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	



BKF
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



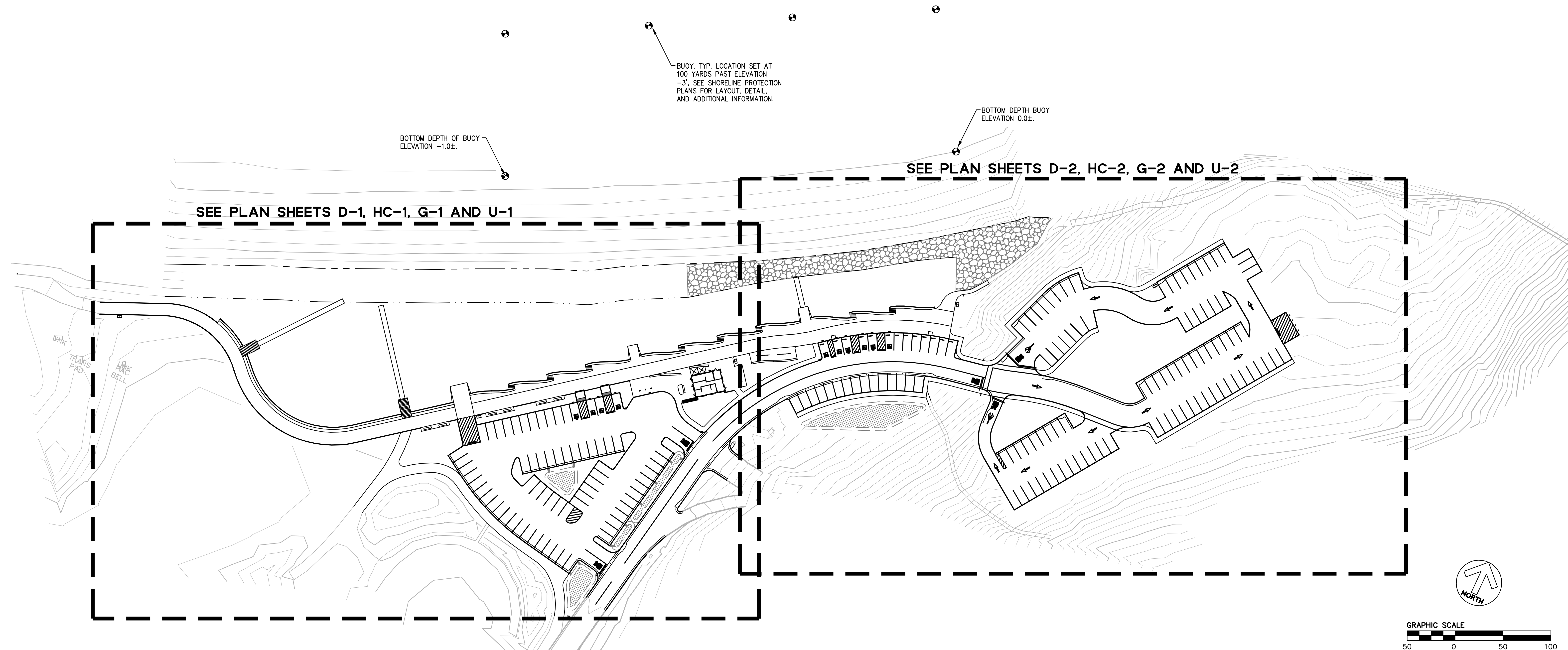
DESIGNED BY: MD	COYOTE POINT RECREATION AREA	SCALE: 1"=50'
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: AG	CONTROL LINE PLAN	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4
		OP-2 SHEET 5 OF 58



APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

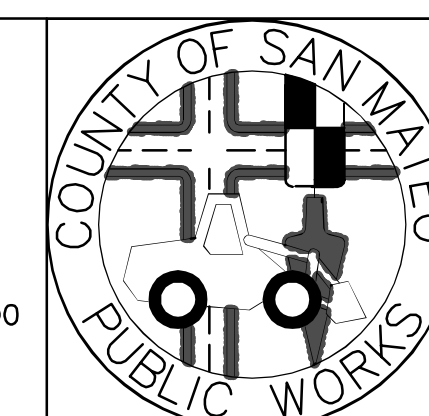
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

SAN FRANCISCO BAY



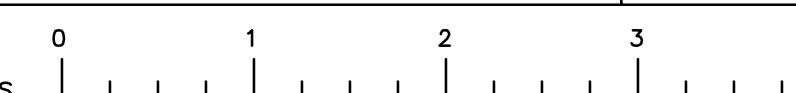
APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

BKF
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
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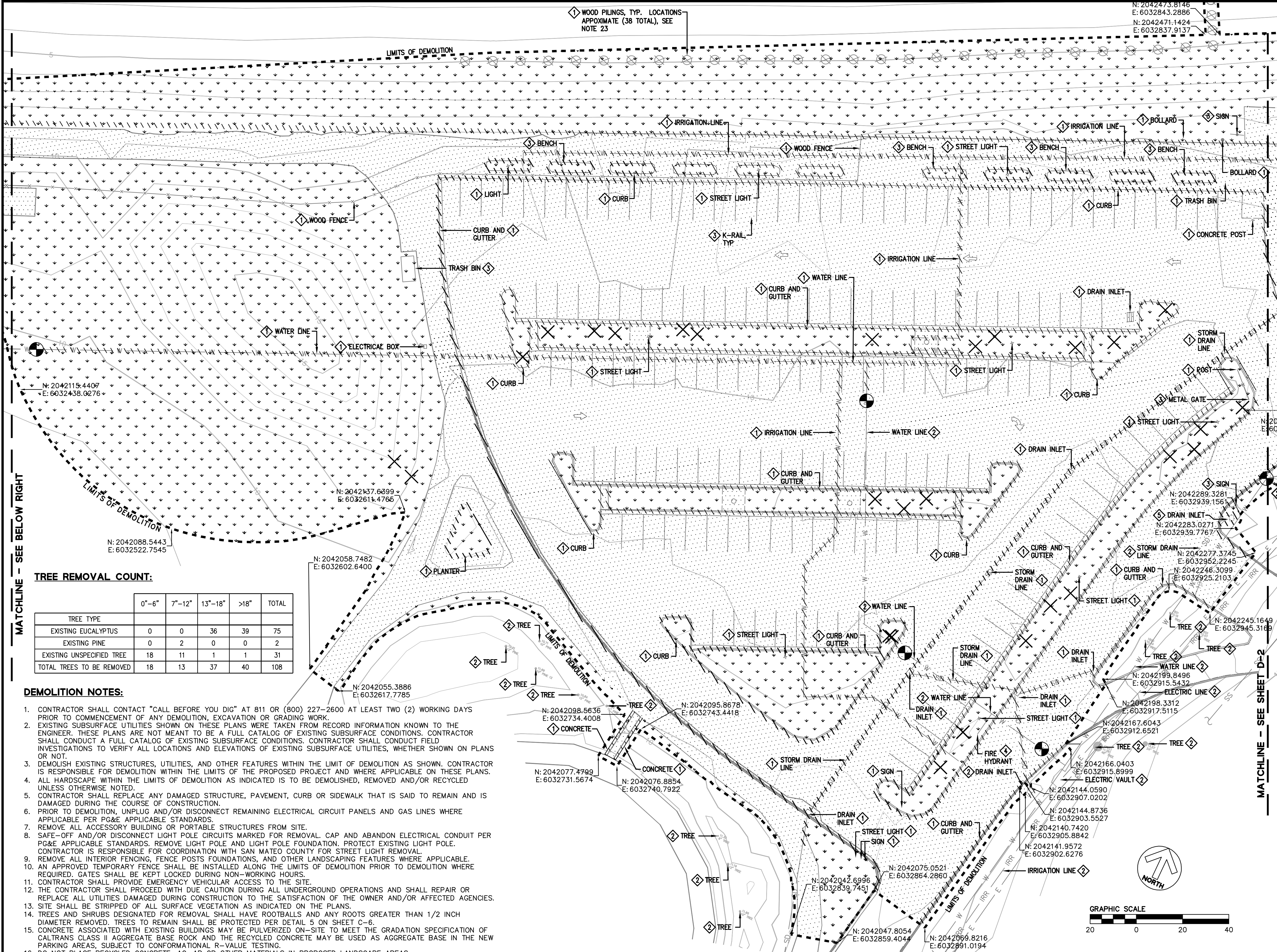


DESIGNED BY: MD	COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT KEYMAP	SCALE: 1"=50'
CHECKED BY: JT		DATE: 9/9/2016
DRAWN BY: AG		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE	OP-3 SHEET 6 OF 58

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



\\s01\150141_Coyote Point Eastern Promenade\DWG\SHEETS\100X\07 D-1.dwg
DATE: 09-09-16
DRAWING NAME:
PLOT TIME:



TREE REMOVAL COUNT:

TREE TYPE	0"-6"	7"-12"	13"-18"	>18"	TOTAL
EXISTING EUCALYPTUS	0	0	36	39	75
EXISTING PINE	0	2	0	0	2
EXISTING UNSPECIFIED TREE	18	11	1	1	31
TOTAL TREES TO BE REMOVED	18	13	37	40	108

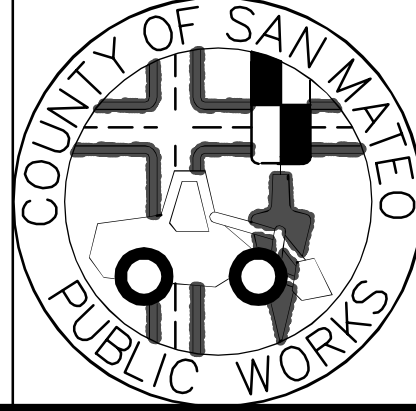
DEMOLITION NOTES:

- CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 OR (800) 227-2600 AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, EXCAVATION OR GRADING WORK.
- EXISTING SUBSURFACE UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM RECORD INFORMATION KNOWN TO THE ENGINEER. THESE PLANS ARE NOT MEANT TO BE A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONTRACTOR SHALL CONDUCT A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS TO VERIFY ALL LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE UTILITIES, WHETHER SHOWN ON PLANS OR NOT.
- DEMOLISH EXISTING STRUCTURES, UTILITIES, AND OTHER FEATURES WITHIN THE LIMIT OF DEMOLITION AS SHOWN. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION WITHIN THE LIMITS OF THE PROPOSED PROJECT AND WHERE APPLICABLE ON THESE PLANS.
- ALL HARDSCAPE WITHIN THE LIMITS OF DEMOLITION AS INDICATED IS TO BE DEMOLISHED, REMOVED AND/OR RECYCLED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REPLACE ANY DAMAGED STRUCTURE, PAVEMENT, CURB OR SIDEWALK THAT IS SAID TO REMAIN AND IS DAMAGED DURING THE COURSE OF CONSTRUCTION.
- PRIOR TO DEMOLITION, UNPLUG AND/OR DISCONNECT REMAINING ELECTRICAL CIRCUIT PANELS AND GAS LINES WHERE APPLICABLE PER PG&E APPLICABLE STANDARDS.
- REMOVE ALL ACCESSORY BUILDING OR PORTABLE STRUCTURES FROM SITE.
- SAFE-OFF AND/OR DISCONNECT LIGHT POLE CIRCUITS MARKED FOR REMOVAL. CAP AND ABANDON ELECTRICAL CONDUIT PER PG&E APPLICABLE STANDARDS. REMOVE LIGHT POLE AND LIGHT POLE FOUNDATION. PROTECT EXISTING LIGHT POLE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH SAN MATEO COUNTY FOR STREET LIGHT REMOVAL.
- REMOVE ALL INTERIOR FENCING, FENCE POSTS FOUNDATIONS, AND OTHER LANDSCAPING FEATURES WHERE APPLICABLE.
- AN APPROVED TEMPORARY FENCE SHALL BE INSTALLED ALONG THE LIMITS OF DEMOLITION PRIOR TO DEMOLITION WHERE REQUIRED. GATES SHALL BE KEPT LOOKED DURING NON-WORKING HOURS.
- CONTRACTOR SHALL PROVIDE EMERGENCY VEHICULAR ACCESS TO THE SITE.
- THE CONTRACTOR SHALL PROCEED WITH DUE CAUTION DURING ALL UNDERGROUND OPERATIONS AND SHALL REPAIR OR REPLACE ALL UTILITIES DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE OWNER AND/OR AFFECTED AGENCIES.
- SITE SHALL BE STRIPPED OF ALL SURFACE VEGETATION AS INDICATED ON THE PLANS.
- TREES AND SHRUBS DESIGNATED FOR REMOVAL SHALL HAVE ROOTBALLS AND ANY ROOTS GREATER THAN 1/2 INCH DIAMETER REMOVED. TREES TO REMAIN SHALL BE PROTECTED PER DETAIL 5 ON SHEET C-6.
- CONCRETE ASSOCIATED WITH EXISTING BUILDINGS MAY BE PULVERIZED ON-SITE TO MEET THE GRADATION SPECIFICATION OF CALTRANS CLASS II AGGREGATE BASE ROCK AND THE RECYCLED CONCRETE MAY BE USED AS AGGREGATE BASE IN THE NEW PARKING AREAS, SUBJECT TO CONFORMATIONAL R-VALUE TESTING.
- DO NOT PLACE RECYCLED CONCRETE, AC, AB OR OTHER MATERIALS IN PROPOSED LANDSCAPE AREAS.
- CONTRACTOR SHALL PROTECT ALL TREES NOT INDICATED TO BE REMOVED. NOTIFY THE ENGINEER AND COUNTY OF ANY CONDITIONS WHERE GRADE AT EXISTING TREES NOT INDICATED TO BE REMOVED WILL DIFFER FROM EXISTING BY MORE THAN 18 INCHES.
- CONTRACTOR TO VERIFY WATER LINE LOCATION AND IF ACTIVE PRIOR TO REMOVAL. IF WATER LINE IS ACTIVE, CONTRACTOR TO CONTACT THE ENGINEER FOR FURTHER DIRECTION.
- CONTRACTOR TO COORDINATE WITH COUNTY FOR EXTENTS OF FENCE AND K-RAIL REMOVAL.
- LIGHTS SHOWN TO BE REMOVED SHALL BE SALVAGED AND RETURNED TO THE COUNTY.
- PEDESTRIANS TO BE REROUTED OUTSIDE AND AROUND CONSTRUCTION WORK AREA. CONTRACTOR TO COORDINATE WITH COUNTY.
- SEE IRRIGATION PLANS FOR IRRIGATION LINE REMOVAL, CAPPING AND CONNECTIONS.
- EXISTING WOOD PILINGS TO BE CUT 3 FEET BELOW EXISTING GROUND DURING LOW TIDE.
- BOTTOM DEPTH OF FIRST BUOYS ARE AT ELEVATION 0.0±.

APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	



255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: MD	JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
CHECKED BY: JT		
DRAWN BY: AG		
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		
0 1 2 3 4		
D-1 SHEET 7 OF 58		



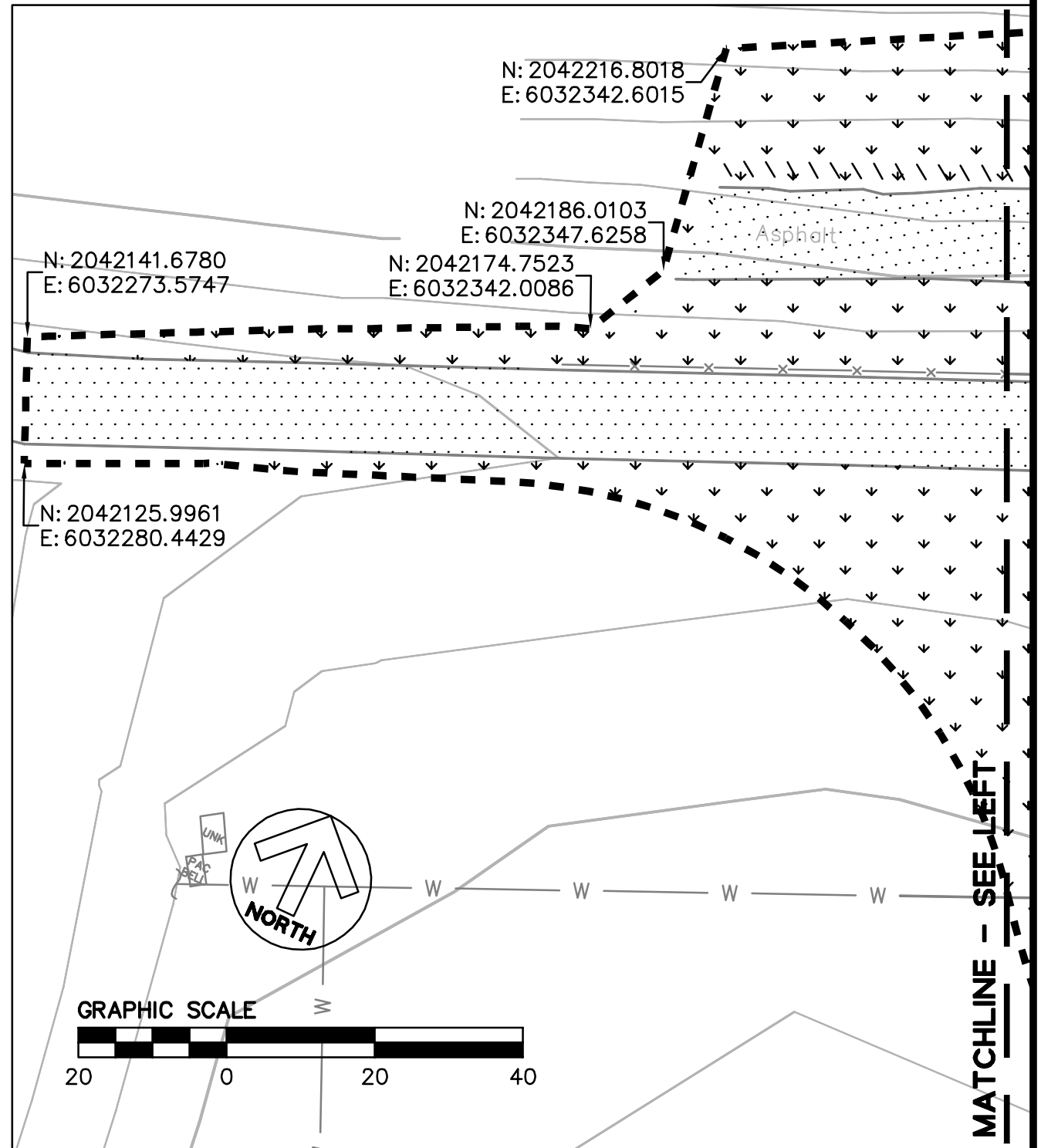
APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

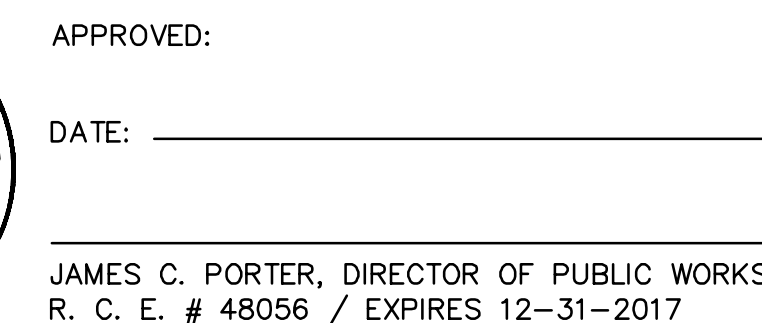
DEMOLITION SYMBOLS:

- 1 TO BE REMOVED.
- 2 TO REMAIN, PROTECT IN PLACE.
- 3 TO BE REMOVED AND SALVAGED. ITEMS TO BE STORED AT LOCATION AND UNDER DIRECTION OF THE COUNTY.
- 4 TO BE RELOCATED. SEE PLANS FOR LOCATION.
- 5 ADJUST TO GRADE.
- UTILITY POTHOLE LOCATION

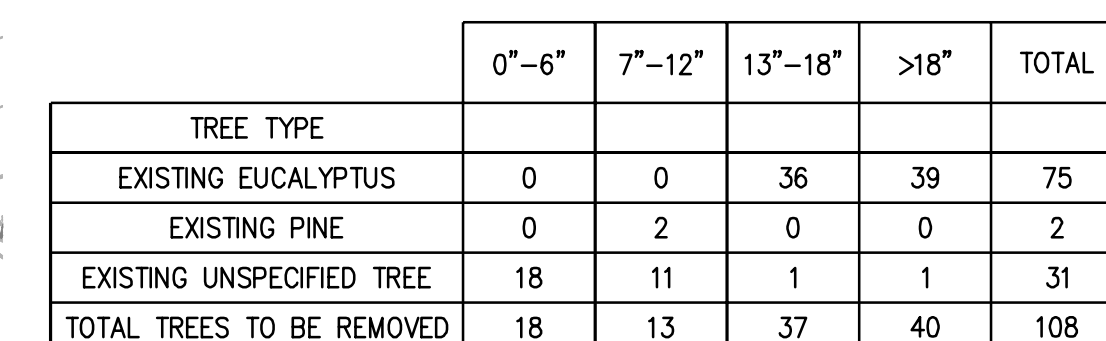
DEMOLITION LEGEND:

- HARDSCAPE TO BE DEMOLISHED AND REMOVED (INCLUDING AC PAVEMENT, AB, SIDEWALK, MISC. CONCRETE; 1.5'±)
- LANDSCAPE TO BE DEMOLISHED AND REMOVED (INCLUDING SAND, BARK, SHRUB, MISC. VEGETATION)
- BUILDING TO BE DEMOLISHED
- EXISTING UTILITY TO BE DEMOLISHED AND REMOVED
- EXISTING CURB TO BE DEMOLISHED AND REMOVED
- LIMITS OF DEMOLITION
- TREE TO BE REMOVED, CONFIRM WITH COUNTY AND ENGINEER PRIOR TO REMOVAL



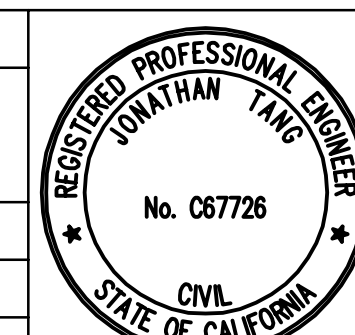


MARLENE FINLEY, DIRECTOR OF PARKS

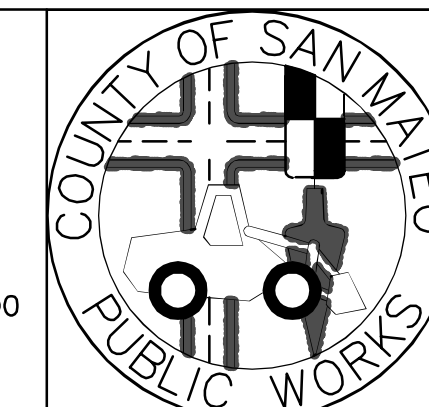



1. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 OR (800) 227-2600 AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, EXCAVATION OR GRADING WORK.
2. EXISTING SUBSURFACE UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM RECORD INFORMATION KNOWN TO THE ENGINEER. THESE PLANS ARE NOT MEANT TO BE A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONTRACTOR SHALL CONDUCT A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS TO VERIFY ALL LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE UTILITIES, WHETHER SHOWN ON PLANS OR NOT.
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4. ALL HARDSCAPE WITHIN THE LIMITS OF DEMOLITION AS INDICATED IS TO BE DEMOLISHED, REMOVED AND/OR RECYCLED UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL REPLACE ANY DAMAGED STRUCTURE, PAVEMENT, CURB OR SIDEWALK THAT IS SAID TO REMAIN AND IS DAMAGED DURING THE COURSE OF CONSTRUCTION.
6. PRIOR TO DEMOLITION, UNPLUG AND/OR DISCONNECT REMAINING ELECTRICAL CIRCUIT PANELS AND GAS LINES WHERE APPLICABLE PER PG&E APPLICABLE STANDARDS.
7. REMOVE ALL ACCESSORY BUILDING OR PORTABLE STRUCTURES FROM SITE.
8. SAFE-OFF AND/OR DISCONNECT LIGHT POLE CIRCUITS MARKED FOR REMOVAL. CAP AND ABANDON ELECTRICAL CONDUIT PER PG&E APPLICABLE STANDARDS. REMOVE LIGHT POLE AND LIGHT POLE FOUNDATION. PROTECT EXISTING LIGHT POLE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH SAN MATEO COUNTY FOR STREET LIGHT REMOVAL.
9. REMOVE ALL INTERIOR FENCING, FENCE POSTS FOUNDATIONS, AND OTHER LANDSCAPING FEATURES WHERE APPLICABLE.
10. AN APPROVED TEMPORARY FENCE SHALL BE INSTALLED ALONG THE LIMITS OF DEMOLITION PRIOR TO DEMOLITION WHERE REQUIRED. GATES SHALL BE KEPT LOCKED DURING NOISE MAKING WORK.
11. CONTRACTOR SHALL PROVIDE EMERGENCY VEHICULAR ACCESS TO THE SITE.
12. THE CONTRACTOR SHALL PROCEED WITH DUE CAUTION DURING ALL UNDERGROUND OPERATIONS AND SHALL REPAIR OR REPLACE ALL UTILITIES DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE OWNER AND/OR AFFECTED AGENCIES.
13. SITE SHALL BE STRIPPED OF ALL SURFACE VEGETATION AS INDICATED ON THE PLANS.
14. TREES AND SHRUBS DESIGNATED FOR REMOVAL SHALL HAVE ROOTBALLS AND ANY ROOTS GREATER THAN 1/2 INCH DIAMETER REMOVED. TREES TO REMAIN SHALL BE PROTECTED PER DETAIL 5 ON SHEET C-6.
15. CONCRETE ASSOCIATED WITH EXISTING BUILDINGS MAY BE PULVERIZED ON-SITE TO MEET THE GRADATION SPECIFICATION OF CALTRANS CLASS II AGGREGATE BASE ROCK AND THE RECYCLED CONCRETE MAY BE USED AS AGGREGATE BASE IN THE NEW PARKING AREAS, SUBJECT TO CONFORMATIONAL R-VALUE TESTING.
16. TOP OF IN PLACE RECYCLED CONCRETE, AG, AB OR OTHER MATERIAL 2 IN PROPOSED LANDSCAPE AREAS.
17. CONTRACTOR SHALL PROTECT ALL TREES NOT INDICATED TO BE REMOVED. NOTIFY THE ENGINEER AND COUNTY OF ANY CONDITIONS WHERE GRADE AT EXISTING TREES NOT INDICATED TO BE REMOVED WILL DIFFER FROM EXISTING BY MORE THAN 18 INCHES.
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22. SEE IRRIGATION PLANS FOR IRRIGATION LINE REMOVAL, CAPPING AND CONNECTIONS.
23. EXISTING WOOD PILINGS TO BE CUT 3 FEET BELOW EXISTING GROUND DURING LOW TIDE.
24. BOTTOM DEPTH OF FIRST BUOYS ARE AT ELEVATION 0.0+.

APPROVED DATE:
JONATHAN TANG, PROJECT MANAGER
BKF ENGINEERS
P.E. #C67726 / EXPIRES 6-30-2017



255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



		DESIGNED BY: MD	COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT DEMOLITION PLAN	SCALE: 1" = 20'
		CHECKED BY: JT		DATE: 9/9/2016
		DRAWN BY: AG		FILE NO.: E4948
	REVISION DATE	JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

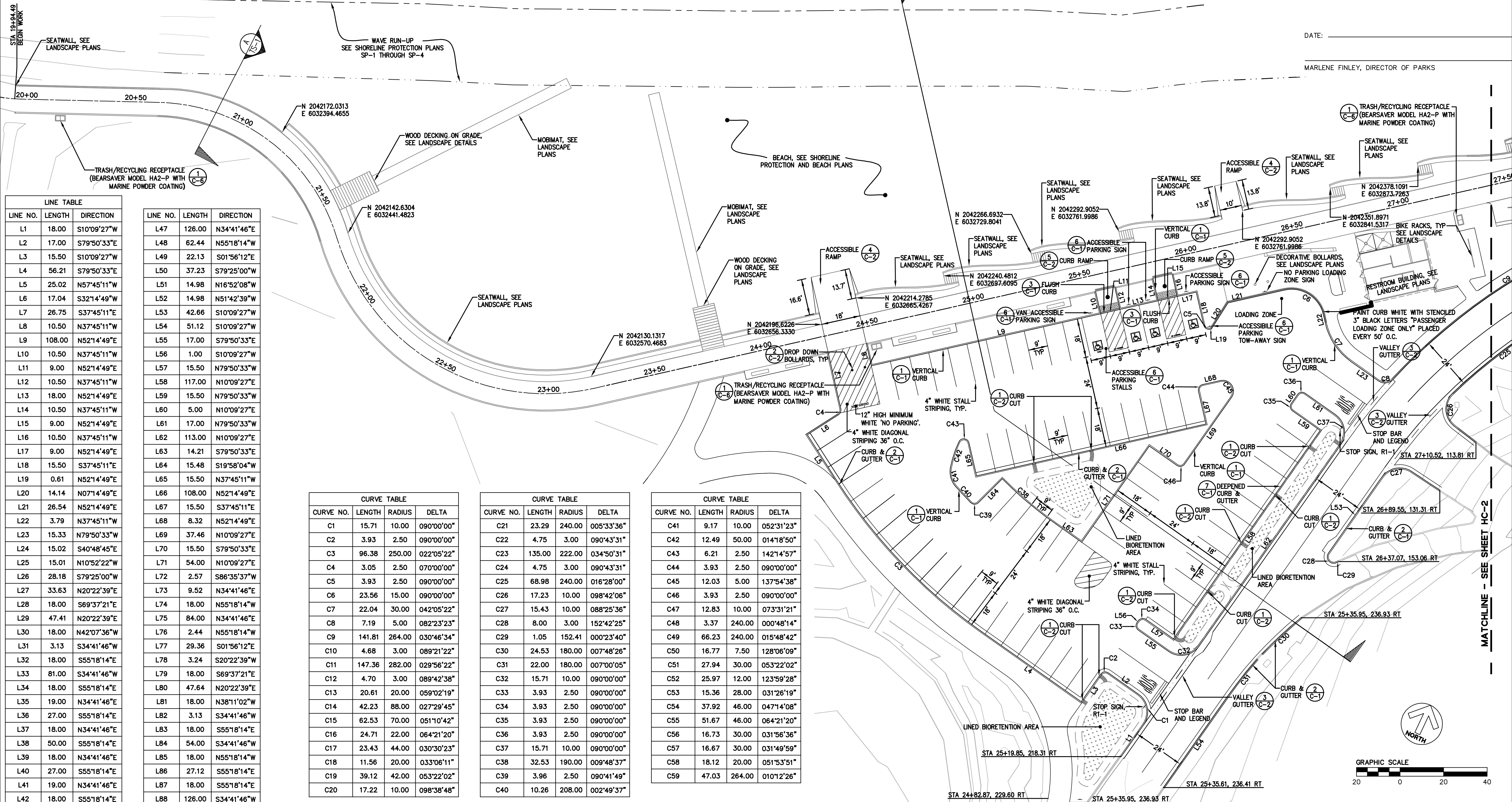
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D-2
SHEET 8 OF 58

DRAWING NAME: J:\2015\150141_Coyote Point Eastern Promenade\ENG\SHEETS\100%\08 D-2.dwg



APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017
MARLENE FINLEY, DIRECTOR OF PARKS



LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L1	18.00	S10°09'27"W
L2	17.00	S79°50'33"E
L3	15.50	S10°09'27"W
L4	56.21	S79°50'33"E
L5	25.02	N57°45'11"W
L6	17.04	S32°14'49"W
L7	26.75	S37°45'11"E
L8	10.50	N37°45'11"W
L9	108.00	N52°14'49"E
L10	10.50	N37°45'11"W
L11	9.00	N52°14'49"E
L12	10.50	N37°45'11"W
L13	18.00	N52°14'49"E
L14	10.50	N37°45'11"W
L15	9.00	N52°14'49"E
L16	10.50	N37°45'11"W
L17	9.00	N52°14'49"E
L18	15.50	S37°45'11"E
L19	0.61	N52°14'49"E
L20	14.14	N07°14'49"E
L21	26.54	N52°14'49"E
L22	3.79	N37°45'11"W
L23	15.33	N79°50'33"W
L24	15.02	S40°48'45"E
L25	15.01	N10°52'22"W
L26	28.18	S79°25'00"W
L27	33.63	N20°22'39"E
L28	18.00	S69°37'21"E
L29	47.41	N20°22'39"E
L30	18.00	N42°07'36"W
L31	3.13	S34°41'46"W
L32	18.00	S55°18'14"E
L33	81.00	S34°41'46"W
L34	18.00	S55°18'14"E
L35	19.00	N34°41'46"E
L36	27.00	S55°18'14"E
L37	18.00	N34°41'46"E
L38	50.00	S55°18'14"E
L39	18.00	N34°41'46"E
L40	27.00	S55°18'14"E
L41	19.00	N34°41'46"E
L42	18.00	S55°18'14"E
L43	162.00	S34°41'46"W
L44	18.05	S55°18'14"E
L45	8.36	S34°41'46"W
L46	18.00	N55°18'14"W

LINE NO.	LENGTH	DIRECTION
L47	126.00	N34°41'46"E
L48	62.44	N55°18'14"W
L49	22.13	S01°56'12"E
L50	37.23	S79°25'00"W
L51	14.98	N16°52'08"W
L52	14.98	N51°42'39"W
L53	42.66	S10°09'27"W
L54	51.12	S10°09'27"W
L55	17.00	S79°50'33"E
L56	1.00	S10°09'27"W
L57	15.50	N79°50'33"W
L58	117.00	N10°09'27"E
L59	15.50	N79°50'33"W
L60	5.00	N10°09'27"E
L61	17.00	N79°50'33"W
L62	113.00	N10°09'27"E
L63	14.21	S79°50'33"E
L64	15.48	S19°58'04"W
L65	15.50	N37°45'11"W
L66	108.00	N52°14'49"E
L67	15.50	S37°45'11"E
L68	8.32	N52°14'49"E
L69	37.46	N10°09'27"E
L70	15.50	S79°50'33"E
L71	54.00	N10°09'27"E
L72	2.57	S86°35'37"W
L73	9.52	N34°41'46"E
L74	18.00	N55°18'14"W
L75	84.00	N34°41'46"E
L76	2.44	N55°18'14"W
L77	29.36	S01°56'12"E
L78	3.24	S20°22'39"W
L79	18.00	S69°37'21"E
L80	47.64	N20°22'39"E
L81	18.00	N38°11'02"W
L82	3.13	S34°41'46"W
L83	18.00	S55°18'14"E
L84	54.00	S34°41'46"W
L85	18.00	N55°18'14"W
L86	27.12	S55°18'14"E
L87	18.00	S55°18'14"E
L88	126.00	S34°41'46"W
L89	18.00	S55°18'14"E
L90	7.01	S34°41'46"W
L91	40.27	N86°35'37"E

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C1	15.71	10.00	090°00'00"
C2	3.93	2.50	090°00'00"
C3	96.38	250.00	022°05'22"
C4	3.05	2.50	070°00'00"
C5	3.93	2.50	090°00'00"
C6	23.56	15.00	090°00'00"
C7	22.04	30.00	042°05'22"
C8	7.19	5.00	082°23'23"
C9	141.81	264.00	030°46'34"
C10	4.68	3.00	089°21'22"
C11	147.36	282.00	029°56'22"
C12	4.70	3.00	089°42'38"
C13	20.61	20.00	059°02'19"
C14	42.23	88.00	027°29'45"
C15	62.53	70.00	051°10'42"
C16	24.71	22.00	064°21'20"
C17	23.43	44.00	030°30'23"
C18	11.56	20.00	033°08'11"
C19	39.12	42.00	053°22'02"
C20	17.22	10.00	098°38'48"

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C21	23.29	240.00	005°33'36"
C22	4.75	3.00	090°43'31"
C23	135.00	222.00	034°50'31"
C24	4.75	3.00	090°43'31"
C25	68.98	240.00	016°28'00"
C26	17.23	10.00	098°42'06"
C27	15.43	10.00	088°25'36"
C28	8.00	3.00	152°42'25"
C29	1.05	152.41	000°23'40"
C30	24.53	180.00	007°48'26"
C31	22.00	180.00	007°00'05"
C32	15.71	10.00	090°00'00"
C33	3.93	2.50	090°00'00"
C34	3.93	2.50	090°00'00"
C35	3.93	2.50	090°00'00"
C36	3.93	2.50	090°00'00"
C37	15.71	10.00	090°00'00"
C38	32.53	190.00	009°48'37"
C39	3.96	2.50	090°41'49"
C40	10.26	208.00	002°49'37"

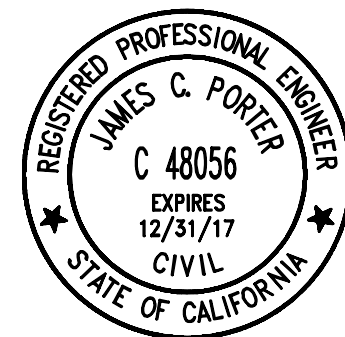
CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C41	9.17	10.00	052°31'23"
C42	12.49	50.00	014°18'50"
C43	6.21	2.50	142°14'57"
C44	3.93	2.50	090°00'00"
C45	12.03	5.00	137°54'38"
C46	3.93	2.50	090°00'00"
C47	12.83	10.00	073°31'21"
C48	3.37	240.00	000°48'14"
C49	66.23	240.00	015°48'42"
C50	16.77	7.50	128°06'09"
C51	27.94	30.00	053°22'02"
C52	25.97	12.00	123°59'28"
C53	15.36	28.00	031°26'19"
C54	37.92	46.00	047°14'08"
C55	51.67	46.00	064°21'20"
C56	16.73	30.00	031°56'36"
C57	16.67	30.00	031°49'59"
C58	18.12	20.00	051°53'51"
C59	47.03	264.00	010°12'26"

NOTES:

- ALL SIGNS AND SIGN CODE REFERENCES SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CALTRANS STANDARDS, 2010 EDITION.

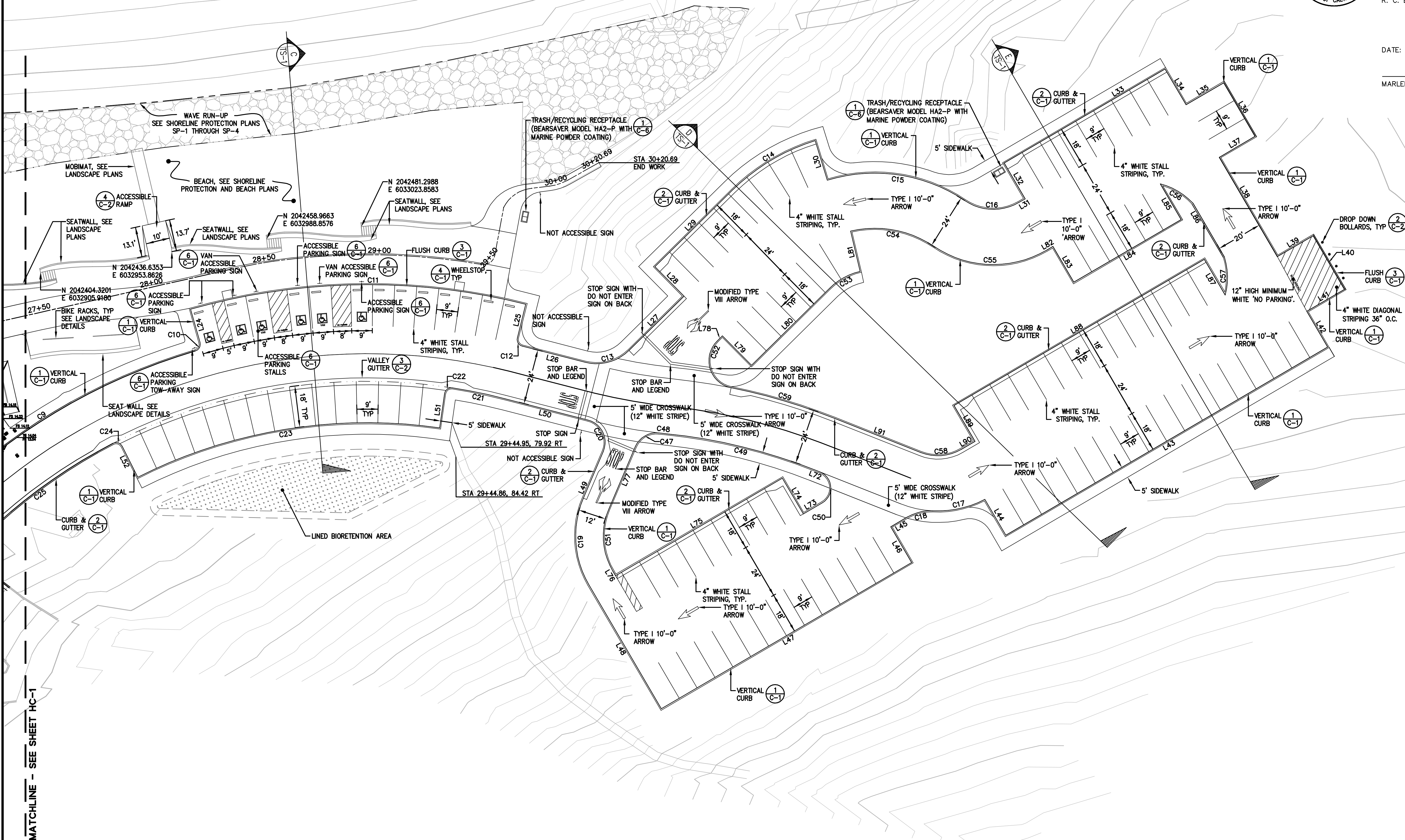
APPROVED DATE: _____	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

	DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: 1"=20'
	CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
	DRAWN BY: AG	HORIZONTAL CONTROL PLAN		FILE NO.: E4948
REVISION	DATE	JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4		H-1 SHEET 9 OF 58



APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

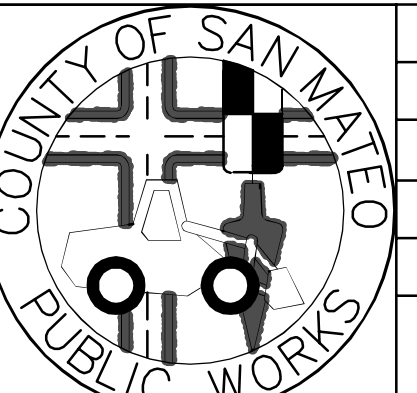
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



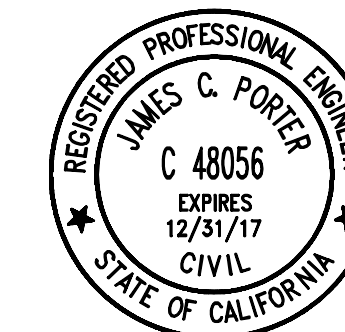
APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	



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ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

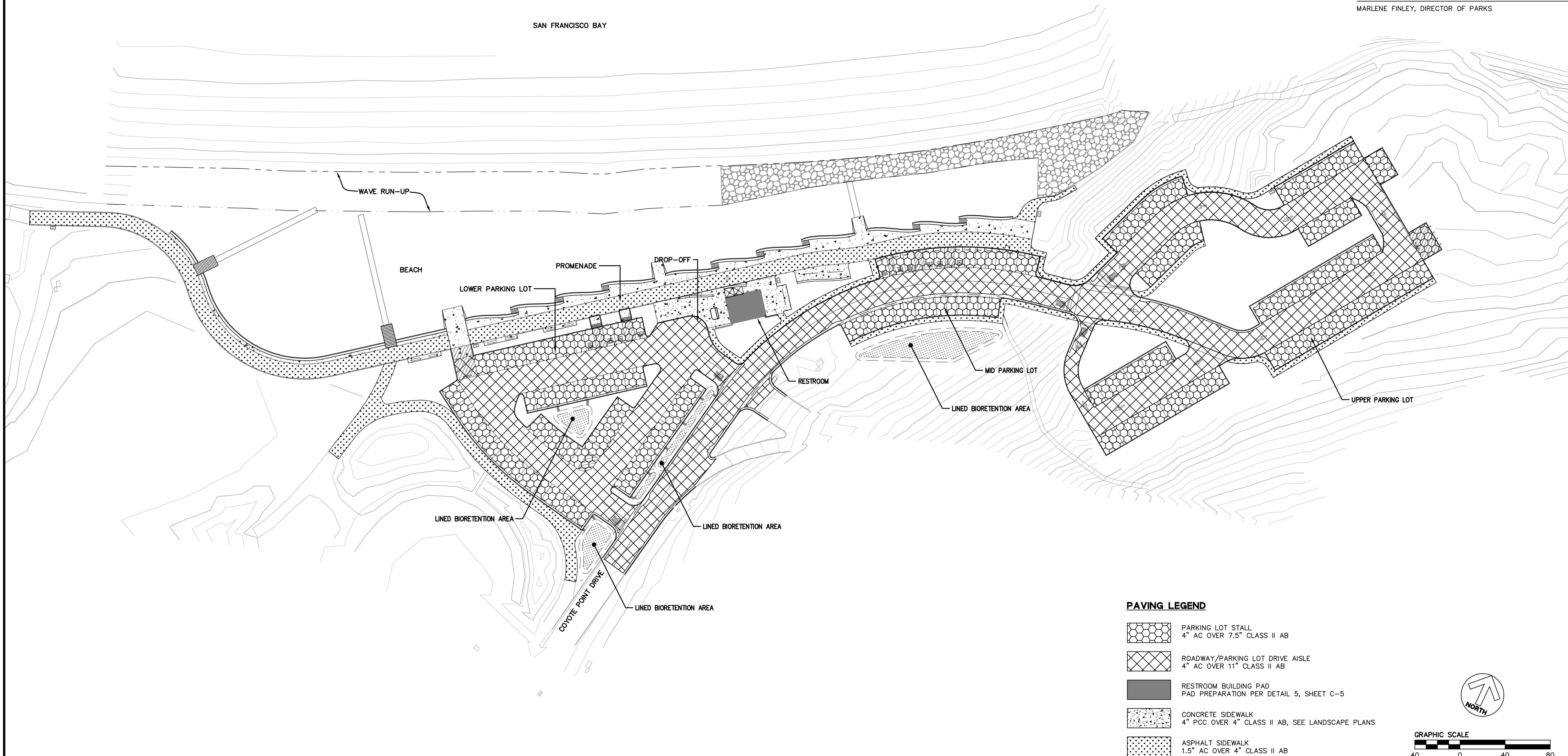


DESIGNED BY: MD	COYOTE POINT RECREATION AREA	SCALE: 1"=20'
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: AG	HORIZONTAL CONTROL PLAN	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4
		HC-2
		SHEET 10 OF 58



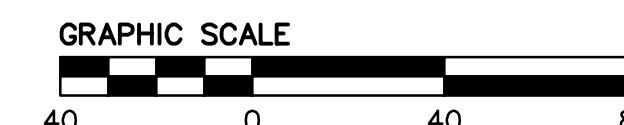
APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



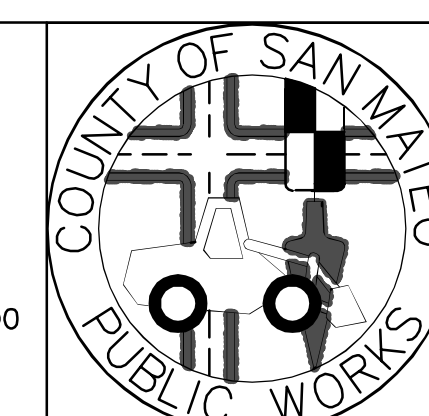
PAVING LEGEND

- PARKING LOT STALL
4" AC OVER 7.5" CLASS II AB
- ROADWAY/PARKING LOT DRIVE AISLE
4" AC OVER 11" CLASS II AB
- RESTROOM BUILDING PAD
PAD PREPARATION PER DETAIL 5, SHEET C-5
- CONCRETE SIDEWALK
4" PCC OVER 4" CLASS II AB, SEE LANDSCAPE PLANS
- ASPHALT SIDEWALK
1.5" AC OVER 4" CLASS II AB

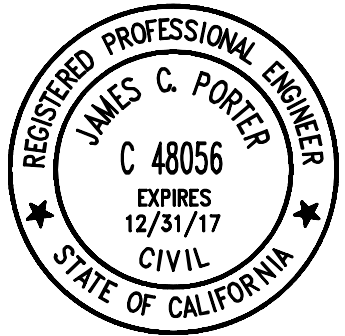


APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

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255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

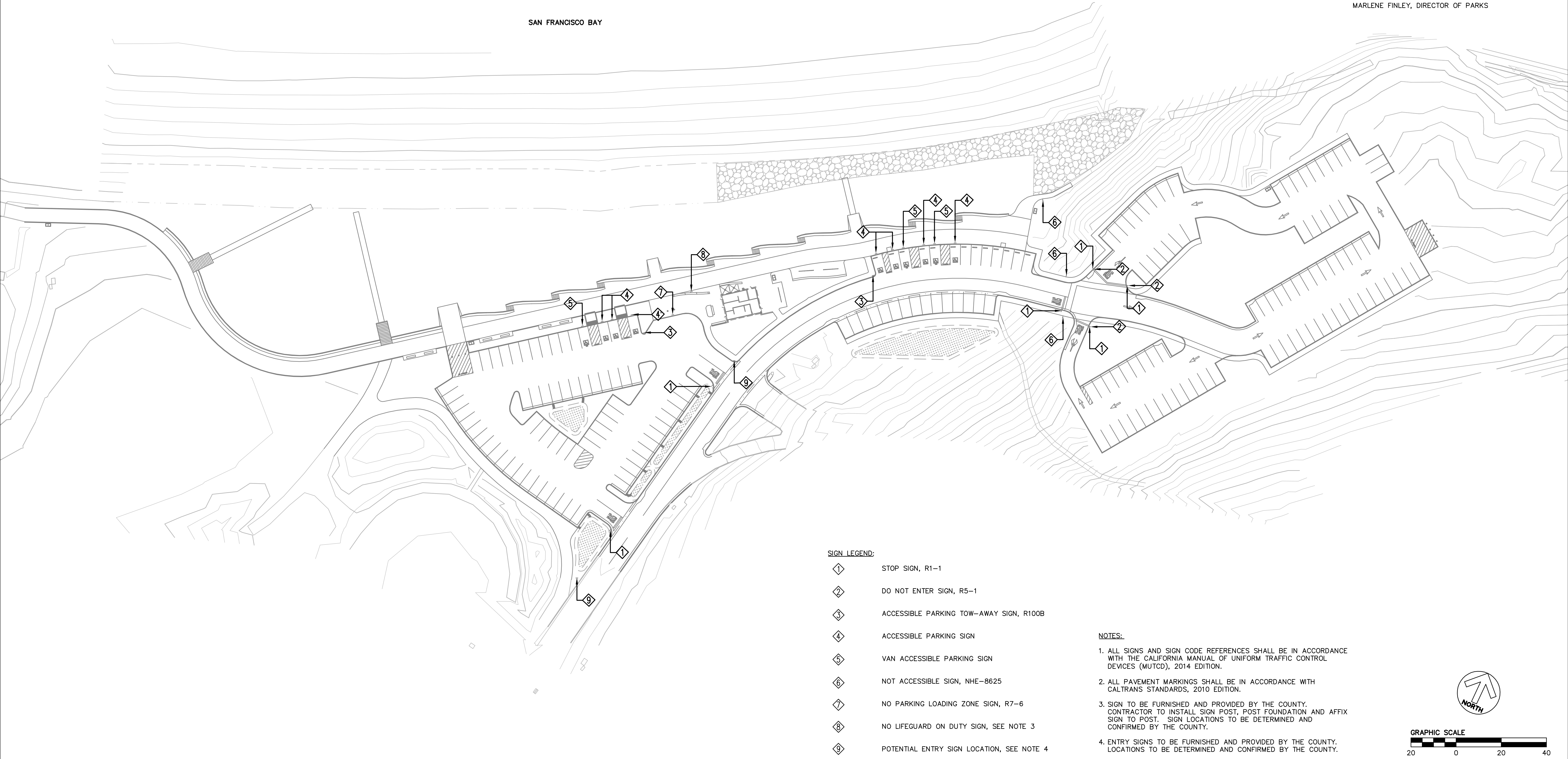


DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: 1"=40'
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	PAVING PLAN		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	
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		PV-1 SHEET 11 OF 58	



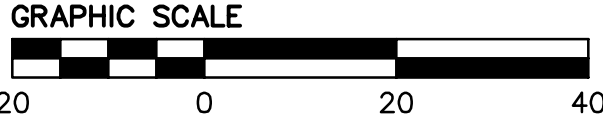
APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



- SIGN LEGEND:**
- ① STOP SIGN, R1-1
 - ② DO NOT ENTER SIGN, R5-1
 - ③ ACCESSIBLE PARKING TOW-AWAY SIGN, R100B
 - ④ ACCESSIBLE PARKING SIGN
 - ⑤ VAN ACCESSIBLE PARKING SIGN
 - ⑥ NOT ACCESSIBLE SIGN, NHE-8625
 - ⑦ NO PARKING LOADING ZONE SIGN, R7-6
 - ⑧ NO LIFEGUARD ON DUTY SIGN, SEE NOTE 3
 - ⑨ POTENTIAL ENTRY SIGN LOCATION, SEE NOTE 4

- NOTES:**
1. ALL SIGNS AND SIGN CODE REFERENCES SHALL BE IN ACCORDANCE WITH THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
 2. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CALTRANS STANDARDS, 2010 EDITION.
 3. SIGN TO BE FURNISHED AND PROVIDED BY THE COUNTY. CONTRACTOR TO INSTALL SIGN POST, POST FOUNDATION AND AFFIX SIGN TO POST. SIGN LOCATIONS TO BE DETERMINED AND CONFIRMED BY THE COUNTY.
 4. ENTRY SIGNS TO BE FURNISHED AND PROVIDED BY THE COUNTY. LOCATIONS TO BE DETERMINED AND CONFIRMED BY THE COUNTY.

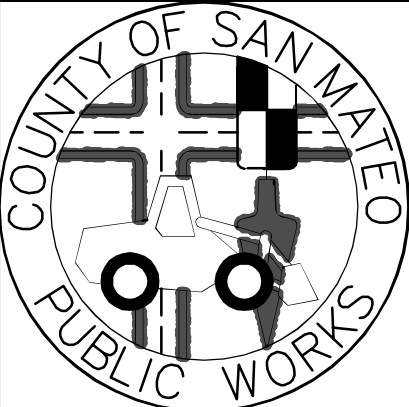


APPROVED DATE: _____	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

REGISTERED PROFESSIONAL ENGINEER
JONATHAN TANG
No. C67726
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS / SURVEYORS / PLANNERS

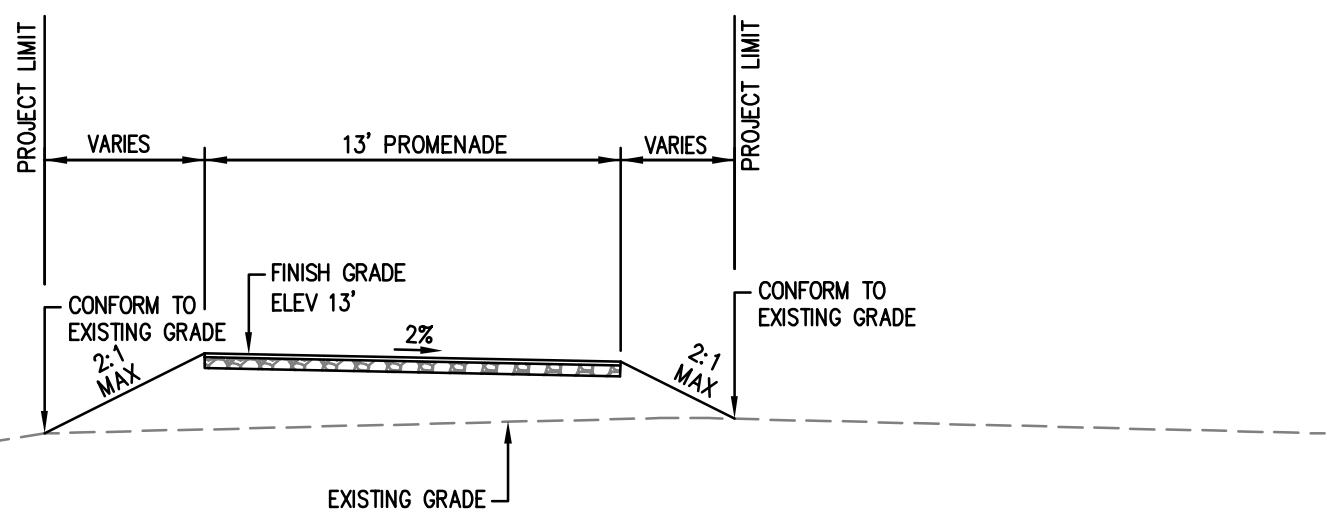
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



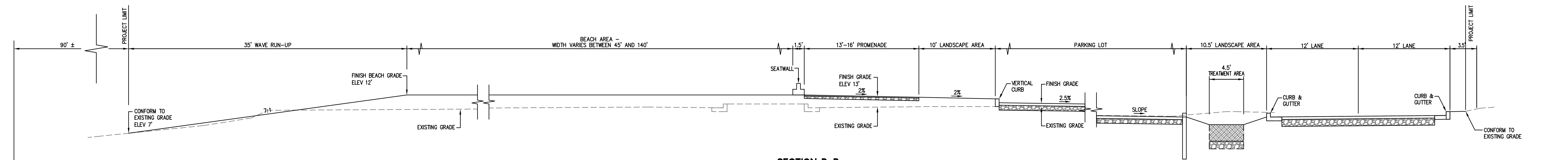
DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: 1"=40'
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	SIGNAGE PLAN		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	
		0 1 2 3 4	
		SHEET 12 OF 58	



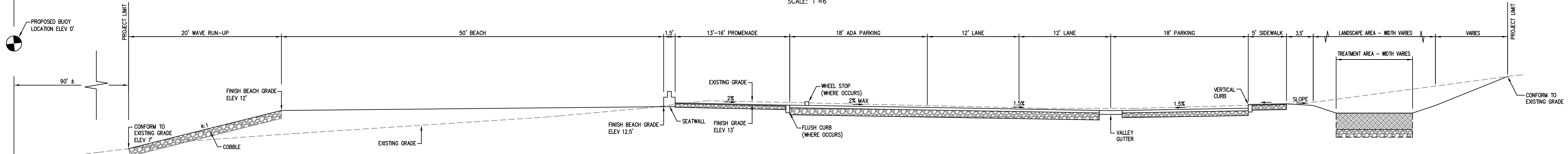
APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



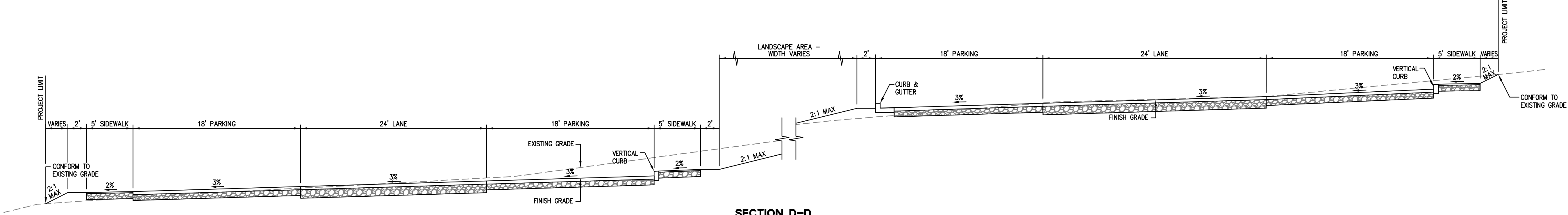
SECTION A-A
SCALE: 1"=6'



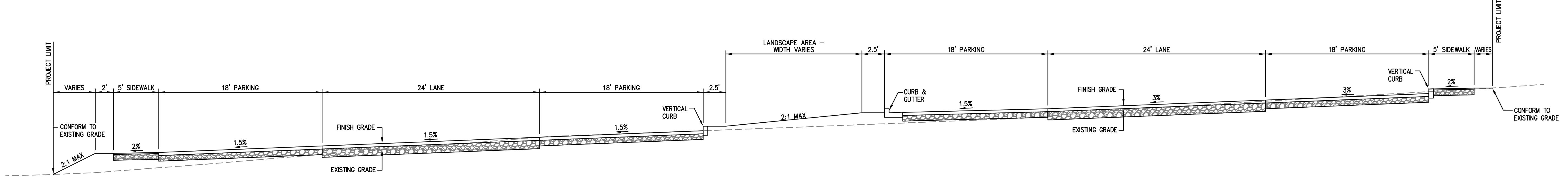
SECTION B-B
SCALE: 1"=6'



SECTION C-C
SCALE: 1"=6'



SECTION D-D
SCALE: 1"=6'

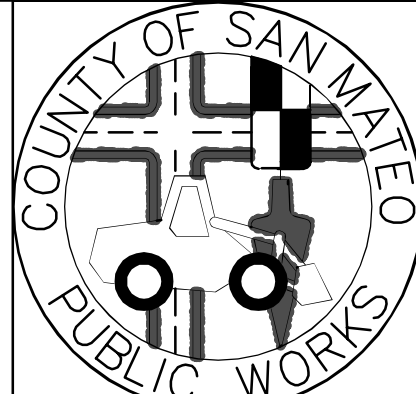


SECTION E-E
SCALE: 1"=6'

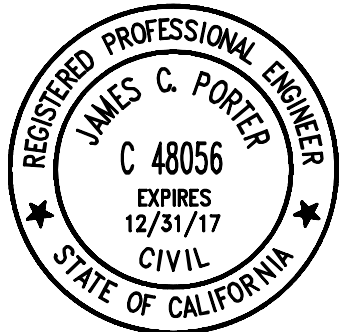
APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	



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255 SHORELINE DRIVE, SUITE 200
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(650) 482-6300



DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: AS SHOWN
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	TYPICAL CROSS SECTIONS		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE		
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		T8-1 SHEET 13 OF 58	



APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

SITE ROUGH GRADING EARTHWORK QUANTITIES:

CUT: 14,000 CY
FILL: 7,600 CY
NET: 6,400 CY EXPORT

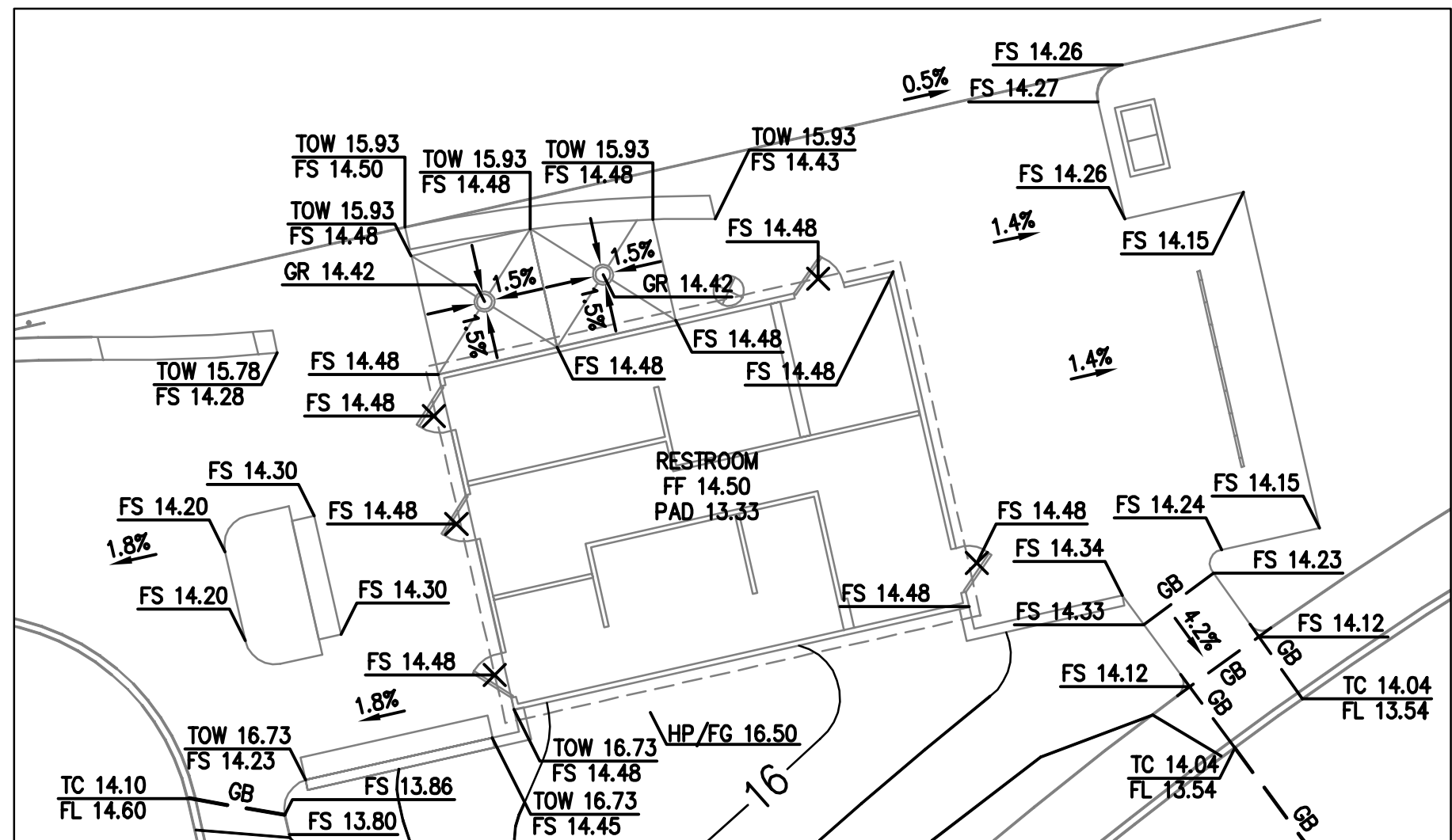
BEACH SAND: 10,300 CY IMPORT

EARTHWORK NOTE:

THE EARTHWORK QUANTITIES SHOWN ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:

- EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SITE STRIPPINGS.
- EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE/SWELLING FACTORS.
- EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.
- EARTHWORK QUANTITIES ACCOUNT FOR ASSUMED 6" RESTROOM PAD SECTION.
- EARTHWORK QUANTITIES DO NOT ACCOUNT FOR BUILDING FOOTING SPOILS.
- EARTHWORK QUANTITIES ACCOUNT FOR AN ASSUMED 15" EXCAVATION DEPTH FOR LANDSCAPING PLANTING SOILS.
- EARTHWORK QUANTITIES DO NOT ACCOUNT FOR TOPSOIL OR BIORETENTION/FLOW-THROUGH PLANTER MATERIAL.
- EARTHWORK QUANTITIES ACCOUNT FOR 30" DEPTH AT STORMWATER TREATMENT AREAS
- EARTHWORK QUANTITIES ACCOUNT FOR THE FOLLOWING PAVEMENT SECTIONS:
 - PARKING LOT STALL (11.5' SECTION) 4" AC OVER 7.5" AB
 - ROADWAY (15' SECTION) 4" AC OVER 11" AB
 - CONCRETE SIDEWALK (9' SECTION) 5" CONCRETE OVER 4" AB
 - ASPHALT SIDEWALK (5.5' SECTION) 1.5" AC OVER 4" AB
- EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SOIL STABILIZATION FACTORS.
- EARTHWORK QUANTITIES DO NOT ACCOUNT FOR OVEREXCAVATION.
- BEACH SAND QUANTITY INCLUDES 3' DEPTH OF BEACH SAND.

ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND INDEPENDENT CALCULATIONS.

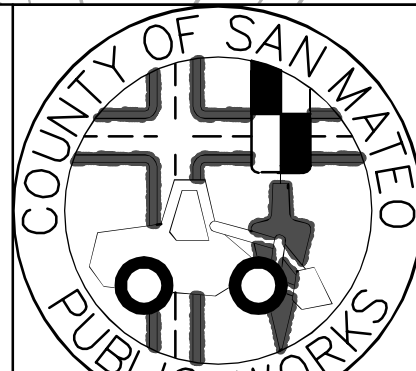


RESTROOM ENLARGEMENT PLAN
SCALE: 1"=10'

APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

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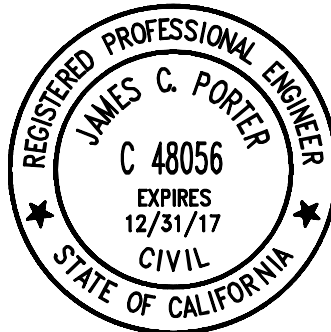
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: 1"=20'
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	GRADING AND DRAINAGE PLAN		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	G-1 SHEET 14 OF 58	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES





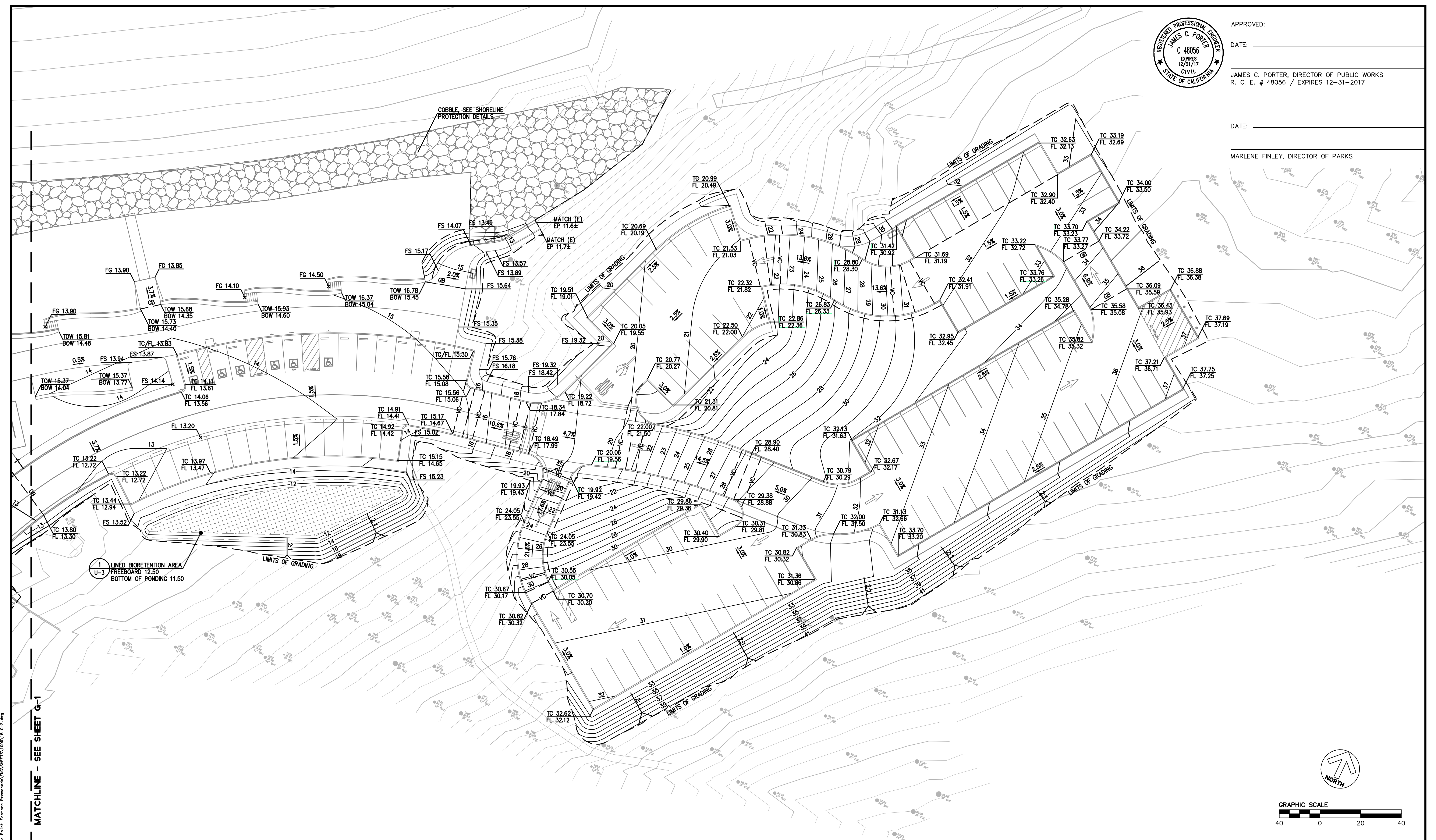
APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

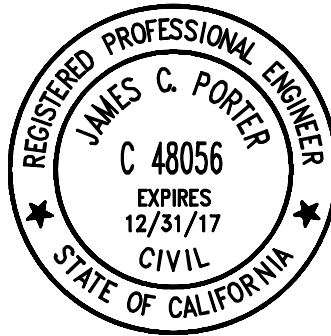


APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

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ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

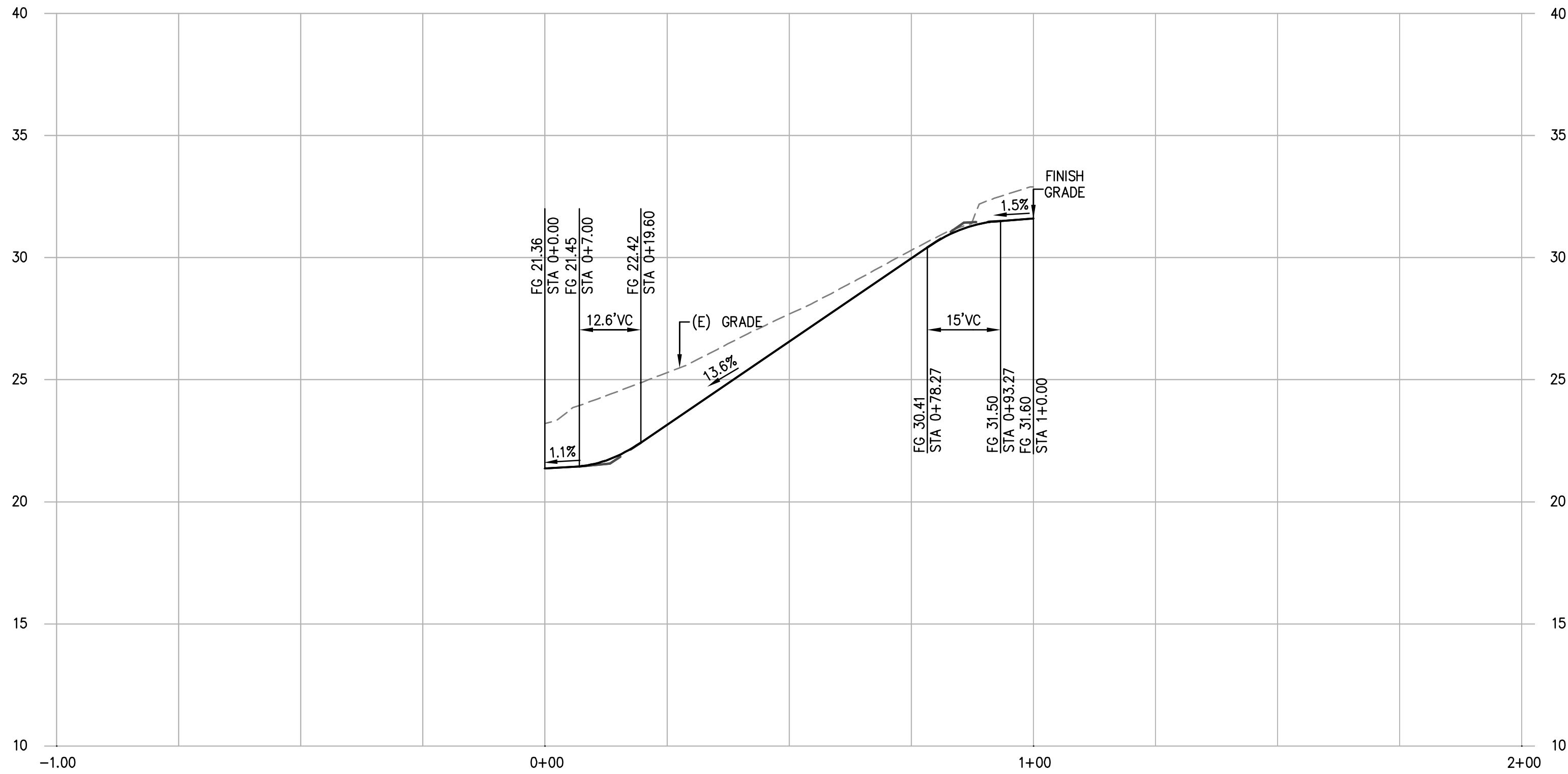
DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: 1"=20'
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	GRADING AND DRAINAGE PLAN		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		G-2 SHEET 15 OF 58
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	

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DRAWING NAME:
PLOT TIME:

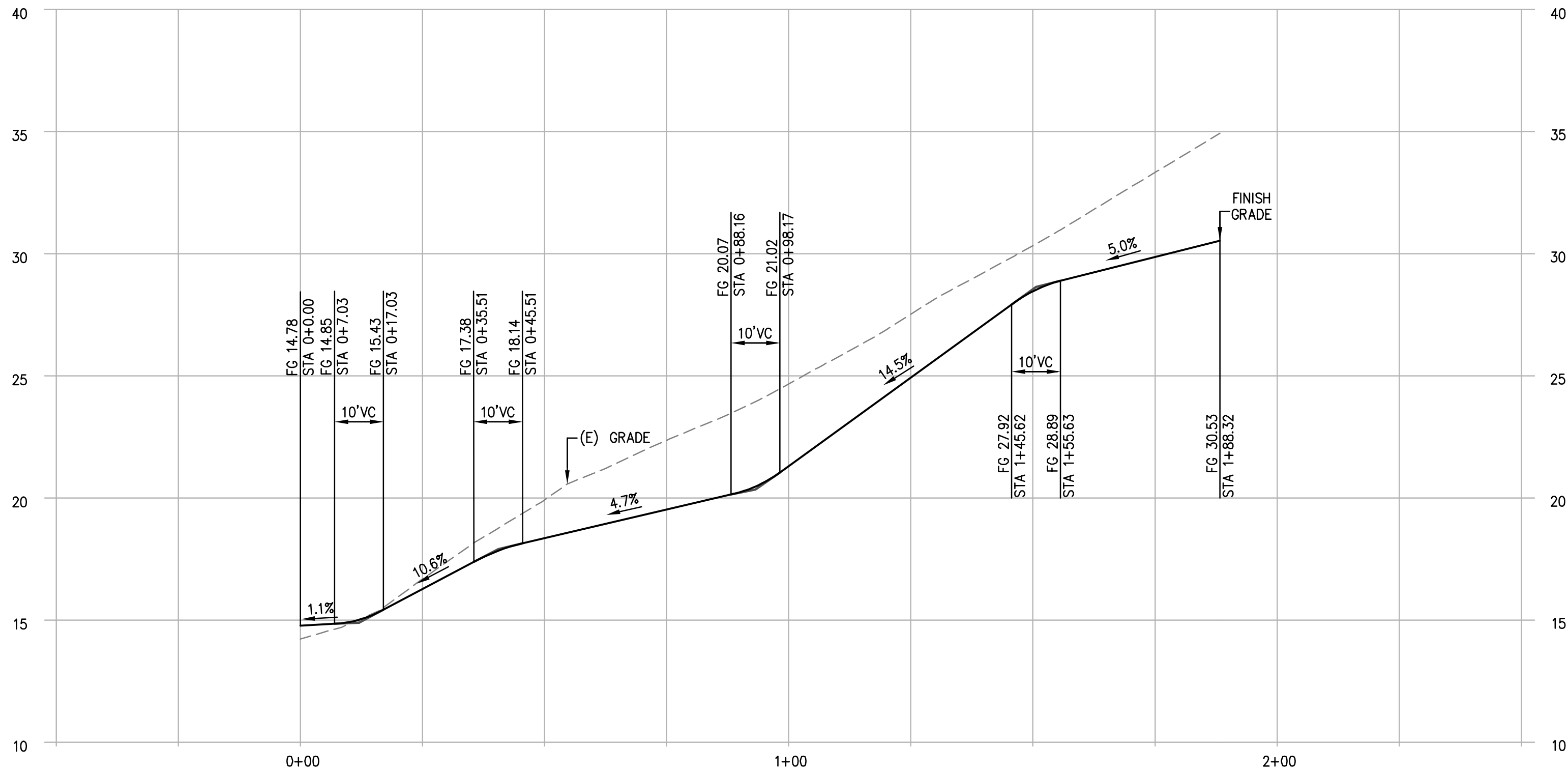


APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

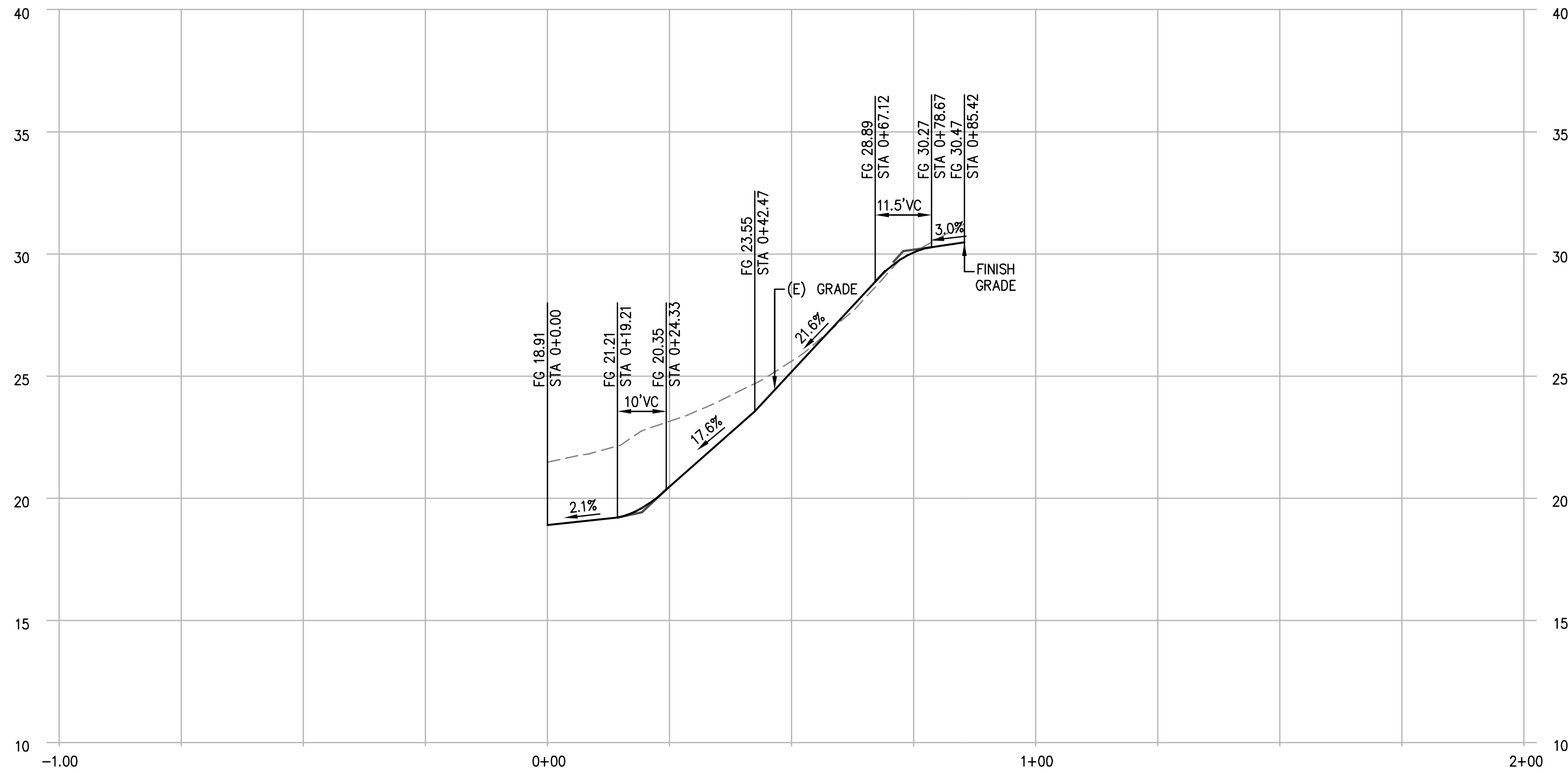
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



VERTICAL CURVE PROFILE
SCALE: 1"=20' HOR.
1"=4' VERT.



VERTICAL CURVE PROFILE
SCALE: 1"=20' HOR.
1"=4' VERT.

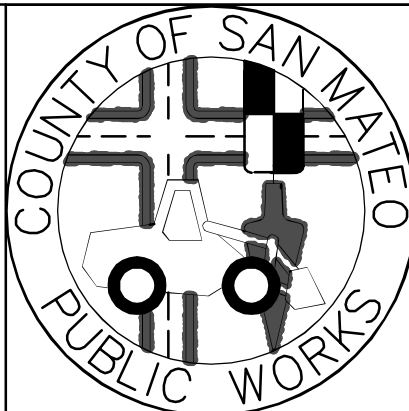


VERTICAL CURVE PROFILE
SCALE: 1"=20' HOR.
1"=4' VERT.



APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

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255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: MD	COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT VERTICAL CURVE PROFILES		SCALE: 1"=20'
CHECKED BY: JT			DATE: 9/9/2016
DRAWN BY: AG			FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		VC-1
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	
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		SHEET 16 OF 58	



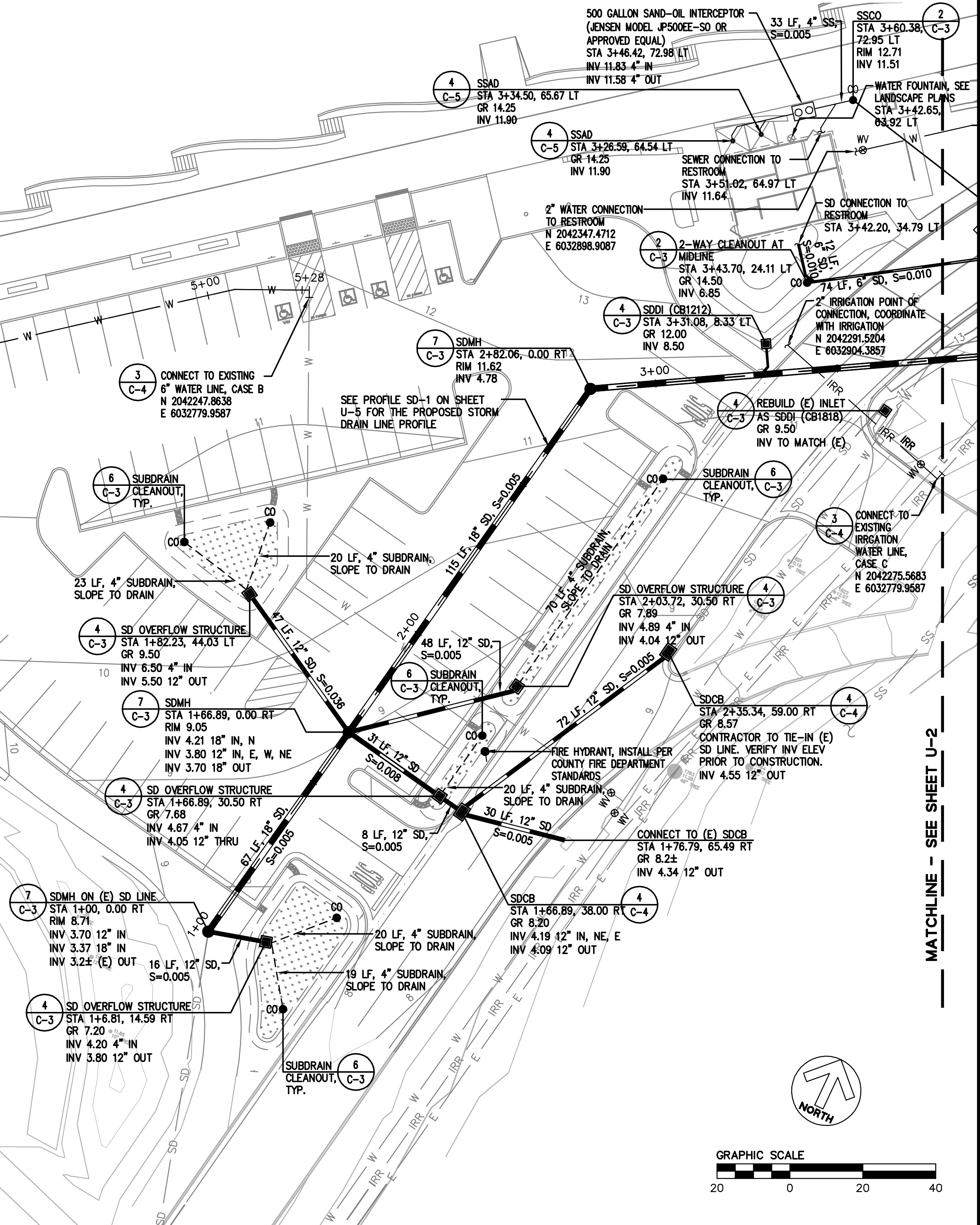
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JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017
DATE: _____

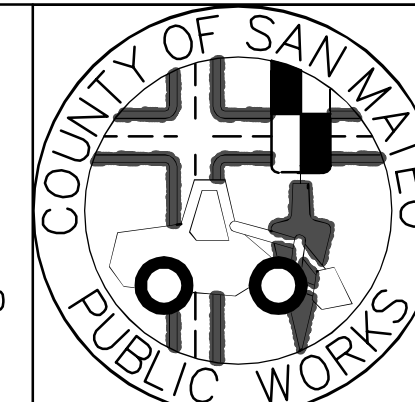
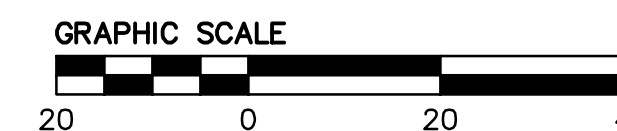
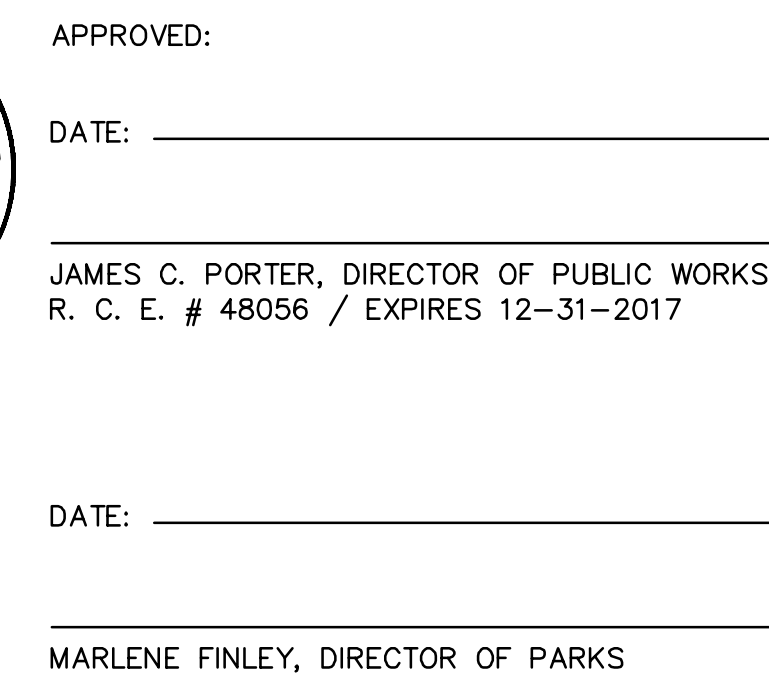
MARLENE FINLEY, DIRECTOR OF PARKS

UTILITY NOTES

1. ALL CATCH BASINS, MANHOLES, AREA DRAINS, ETC. SHALL BE POSITIONED FLUSH WITH THE ADJACENT FINISHED GRADE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS NECESSARY TO CATCH BASINS, MANHOLES, AREA DRAINS, ETC., AS REQUIRED TO ACHIEVE THIS CONDITION.
2. ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES.
3. THRUST BLOCKS FOR WATER MAINS SHALL BE INSTALLED PER SAN MATEO COUNTY STANDARDS. MINIMUM OF 4 FOOT OF COVER SHALL BE MAINTAINED OVER WATER LINE.
4. MAINTAIN 12 INCHES CLEAR SEPARATION BETWEEN ALL UTILITIES.
5. ALL HARDSCAPE INLET COVERS SHALL BE ADA APPROVED.
6. ALL PROPOSED FIRE HYDRANTS SHALL BE INSTALLED PER COUNTY FIRE DEPARTMENT STANDARDS.

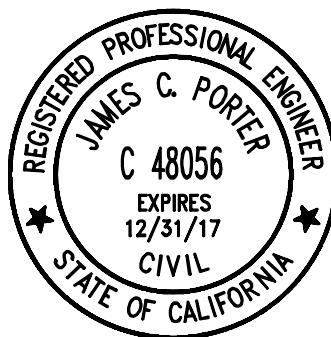
SEE PROFILE WD-1 ON SHEET U-4 FOR THE PROPOSED WATER LINE PROFILE





FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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DRAWING NAME:
DATE PLOTTED:
PLOT TIME:



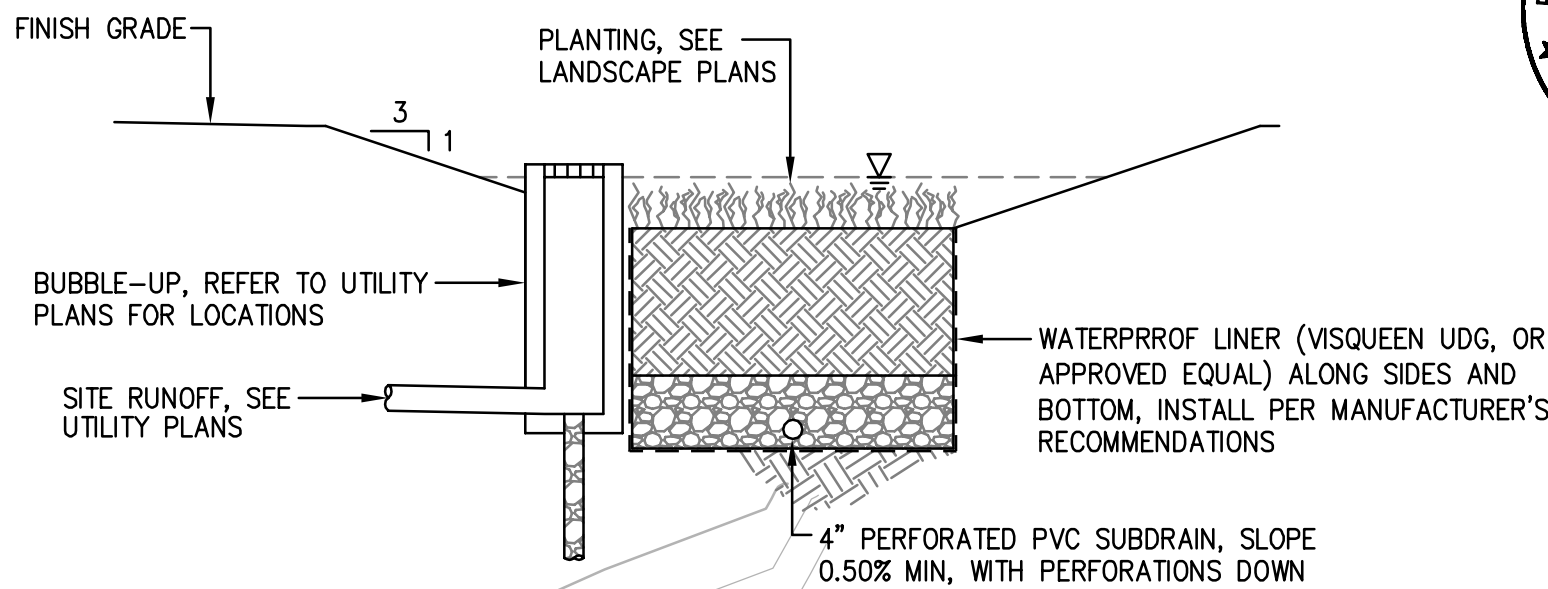
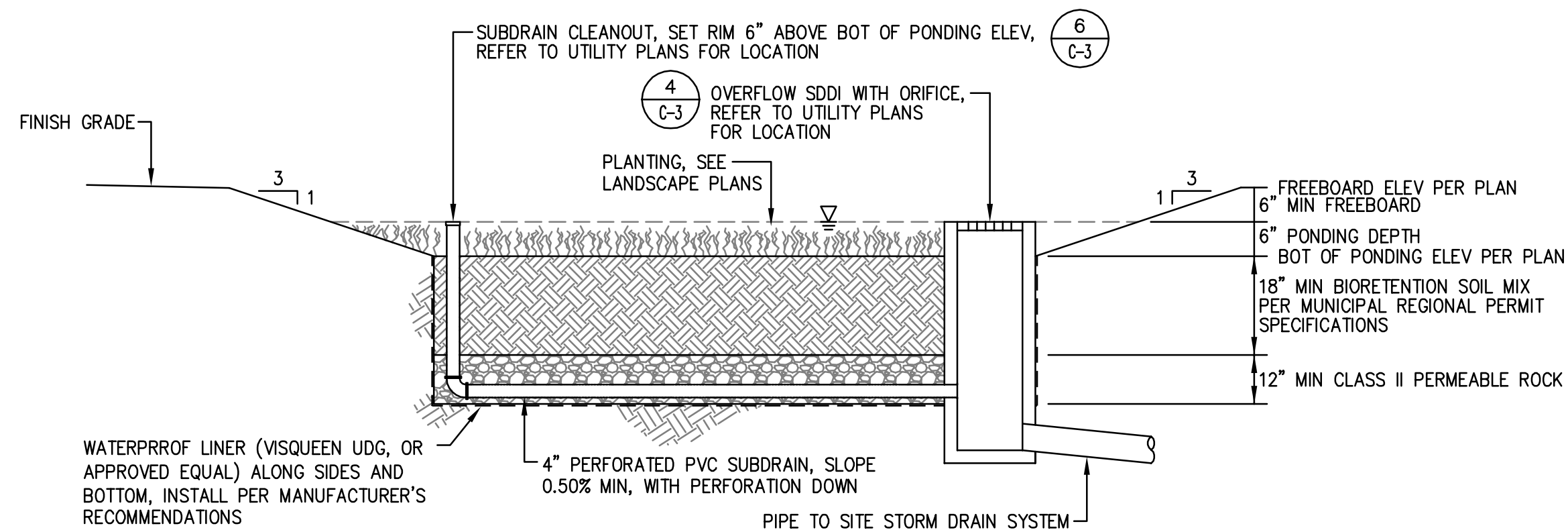
APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

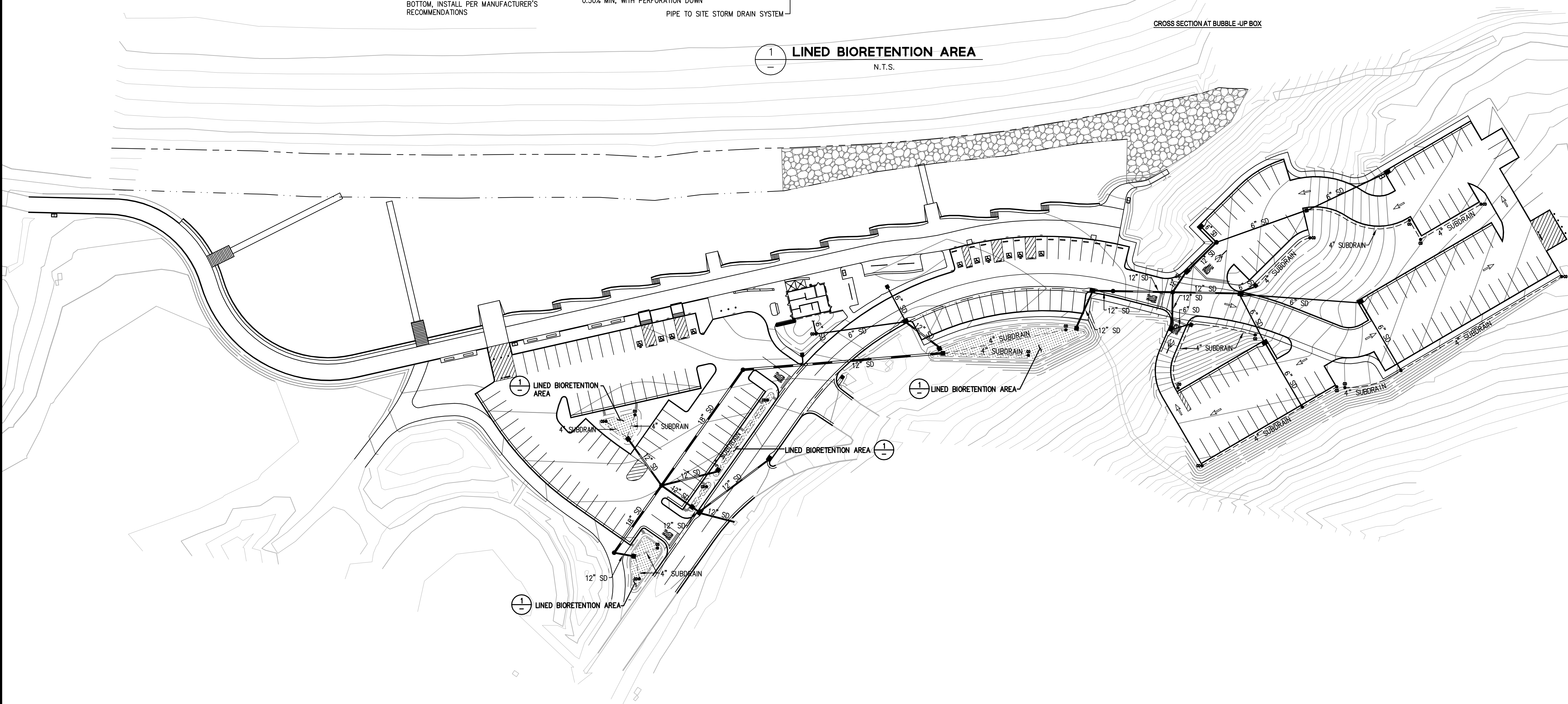
DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

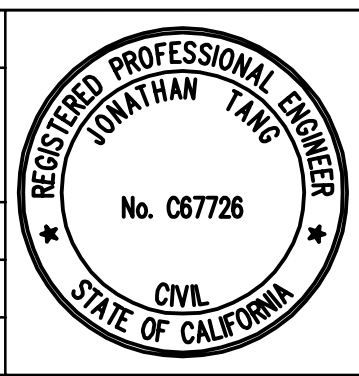


CROSS SECTION AT BUBBLE-UP BOX

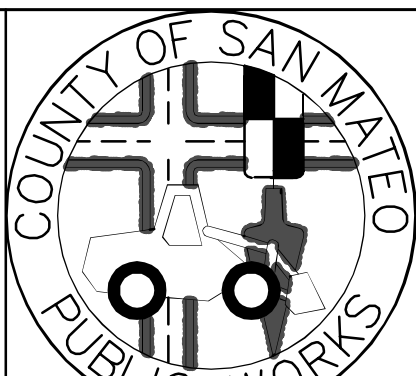
1 LINED BIORETENTION AREA
N.T.S.



APPROVED DATE:
JONATHAN TANG, PROJECT MANAGER
BKF ENGINEERS
P.E. #C67726 / EXPIRES 6-30-2017



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ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: MD	COYOTE POINT RECREATION AREA	SCALE: 1"=40'
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: AG	STORMWATER MANAGEMENT PLAN	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4
		U-3 SHEET 19 OF 58



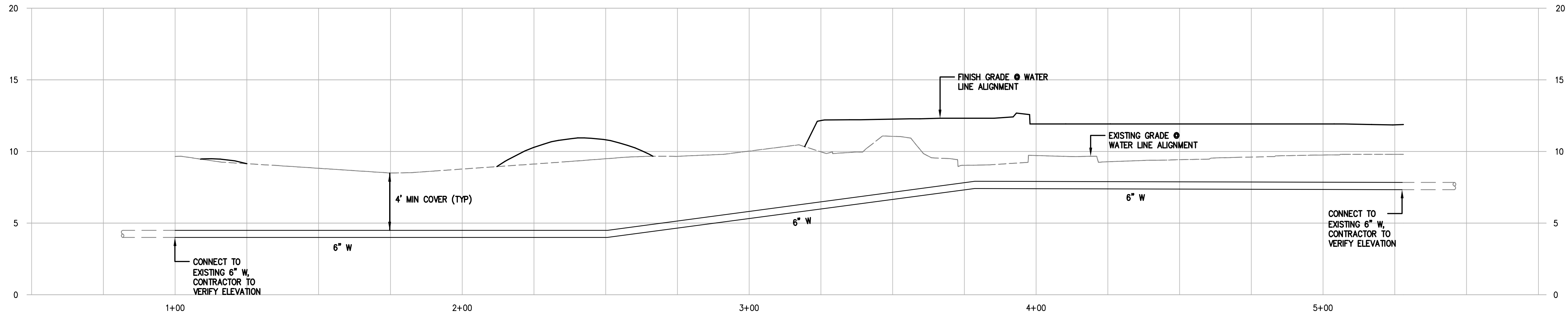
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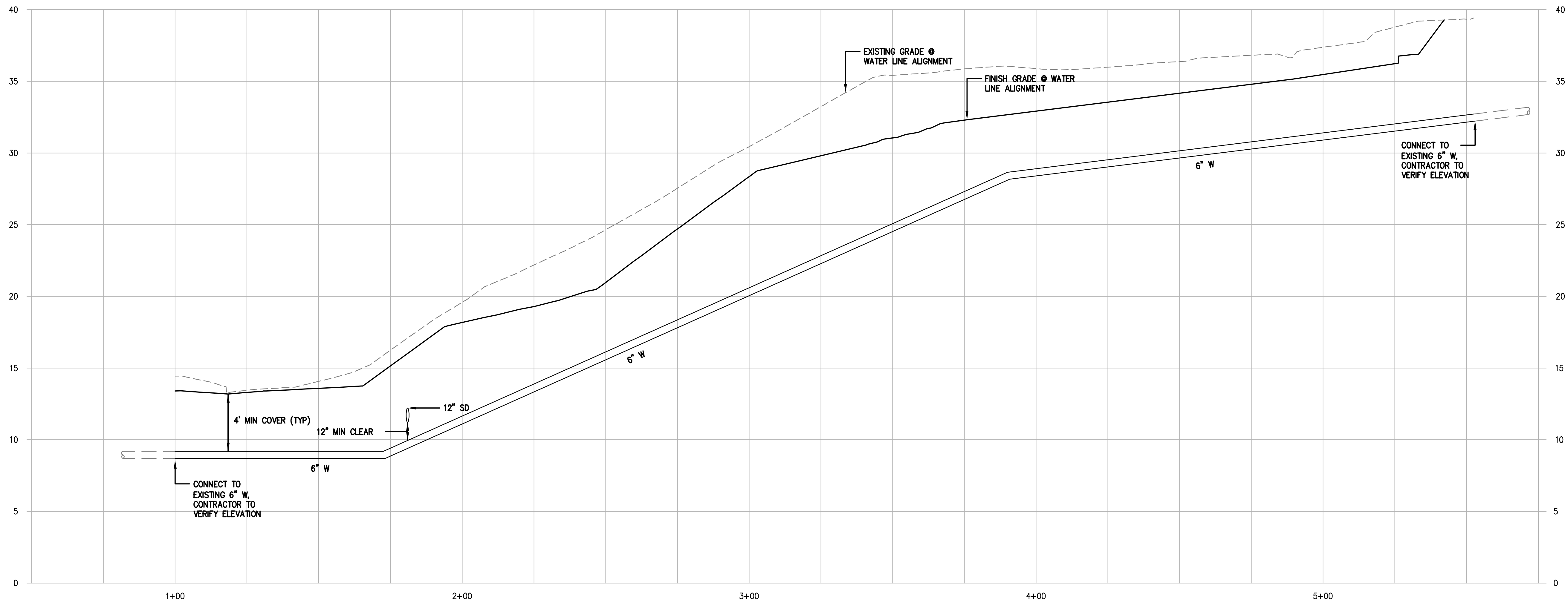
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

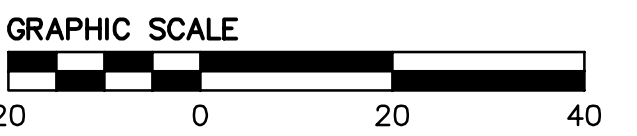
MARLENE FINLEY, DIRECTOR OF PARKS



PROFILE WD-1
SCALE: 1"=20' HOR.
1"=4' VERT.



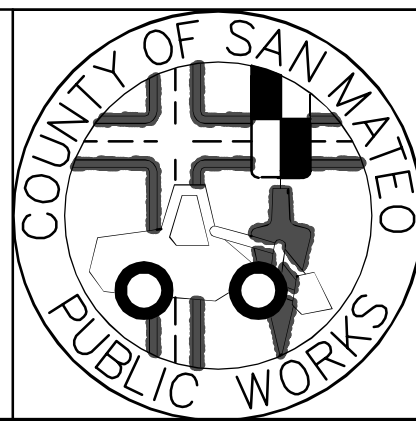
PROFILE WD-2
SCALE: 1"=20' HOR.
1"=4' VERT.



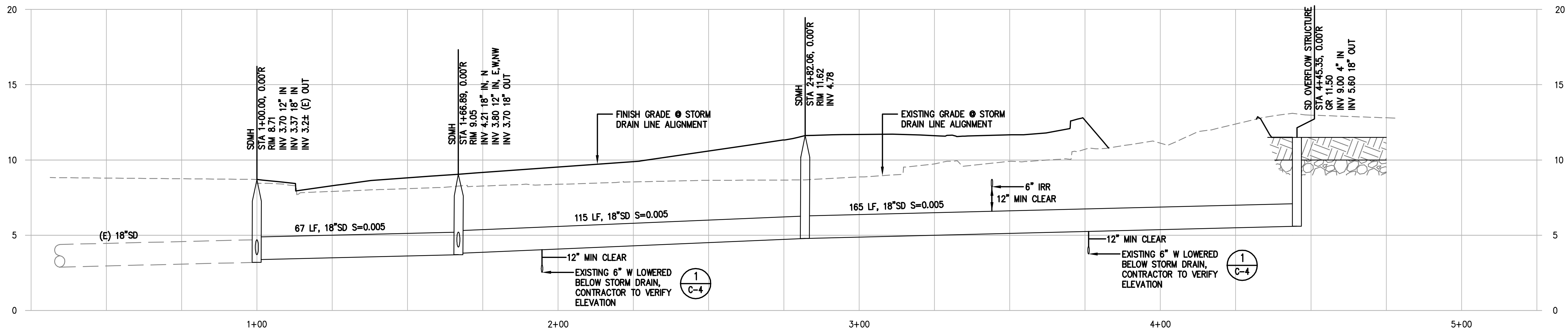
APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
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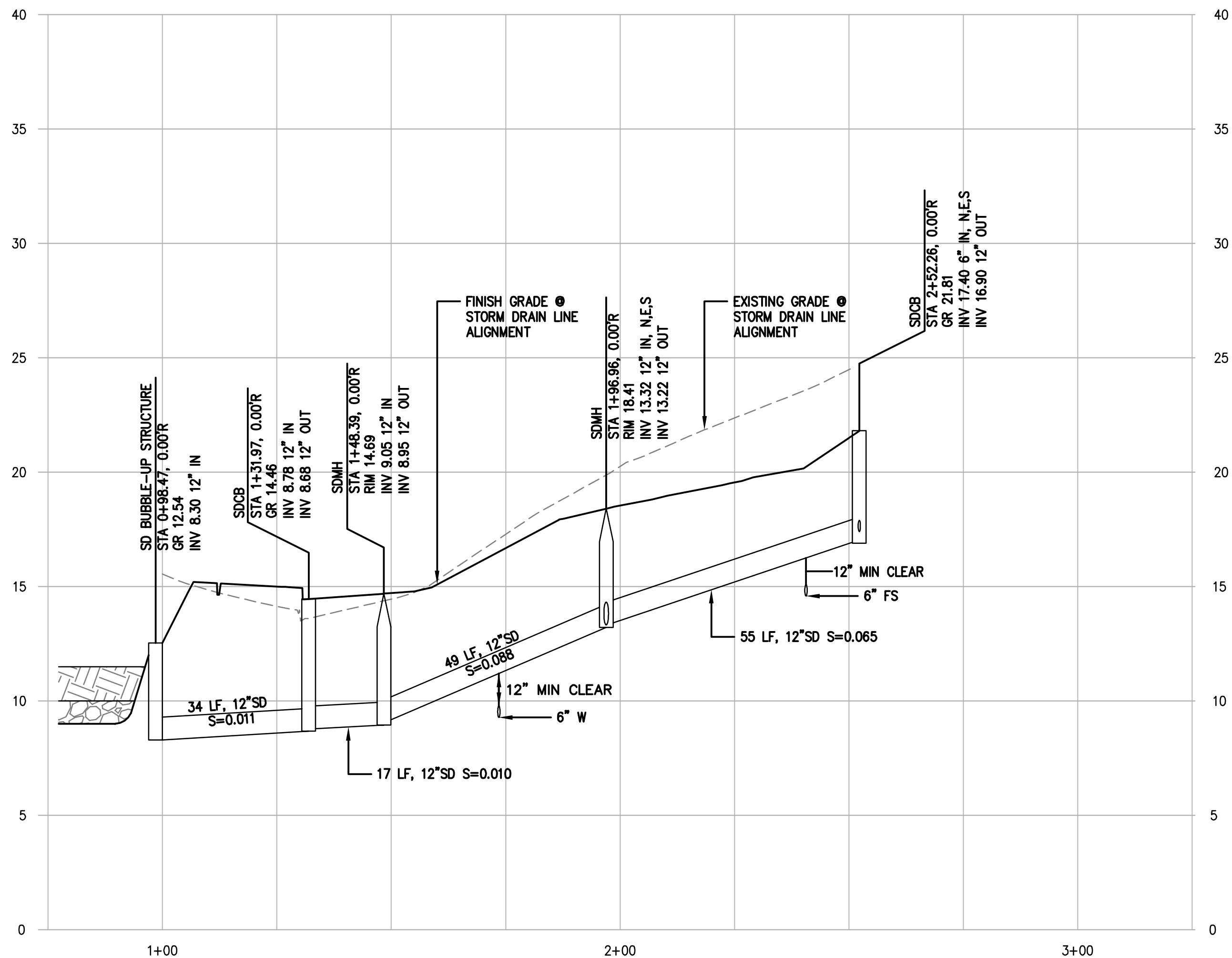
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255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



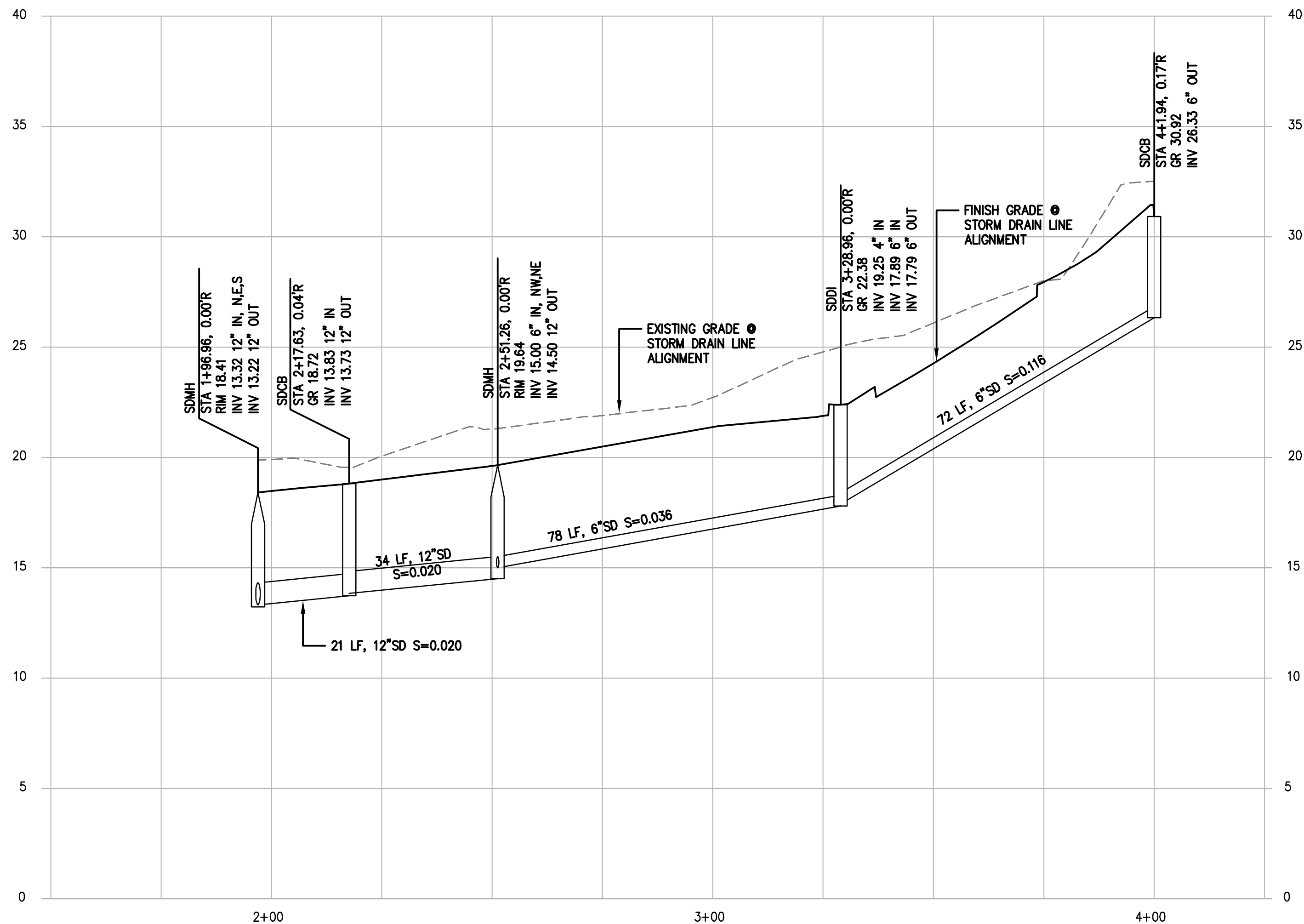
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CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: TT	UTILITY PROFILES	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
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SHEET 20 OF 58		



PROFILE SD-1
SCALE: 1"=20' HOR.
1"=4' VERT.



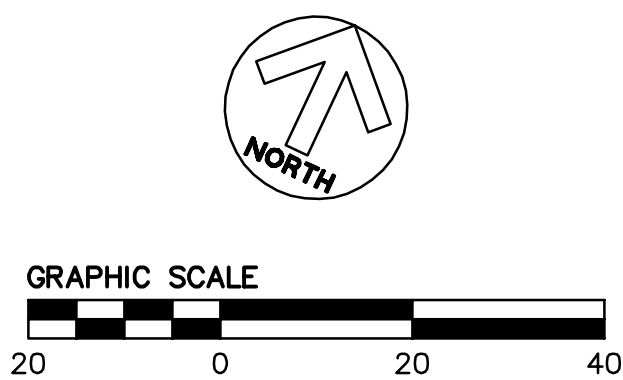
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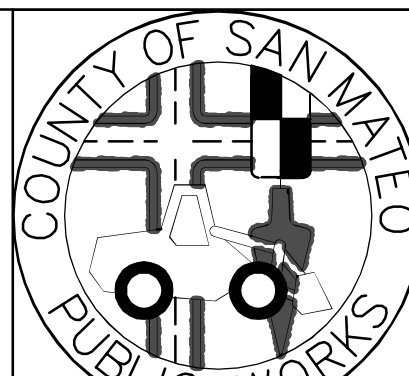


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DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



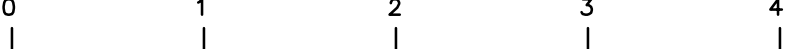
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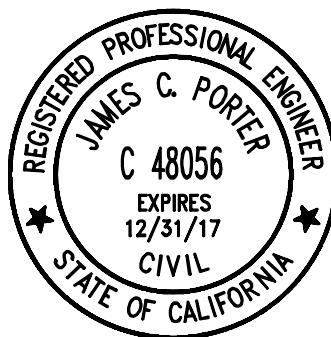
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DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: AS SHOWN
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: TT	UTILITY PROFILES		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		U-5 SHEET 21 OF 58

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES





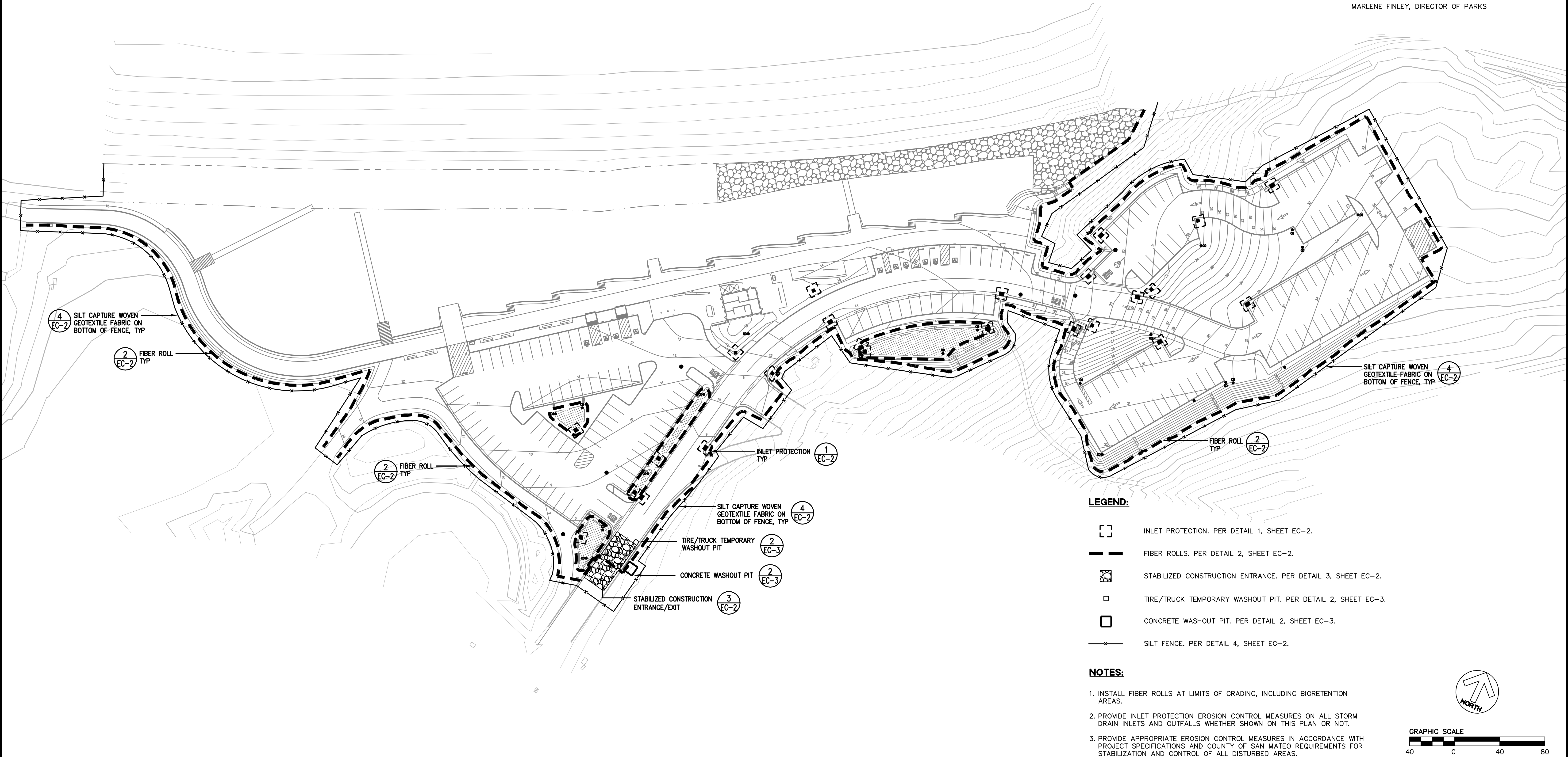
APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

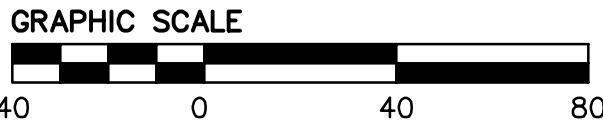


LEGEND:

- [Symbol] INLET PROTECTION. PER DETAIL 1, SHEET EC-2.
- [Symbol] FIBER ROLLS. PER DETAIL 2, SHEET EC-2.
- [Symbol] STABILIZED CONSTRUCTION ENTRANCE. PER DETAIL 3, SHEET EC-2.
- [Symbol] TIRE/TRUCK TEMPORARY WASHOUT PIT. PER DETAIL 2, SHEET EC-3.
- [Symbol] CONCRETE WASHOUT PIT. PER DETAIL 2, SHEET EC-3.
- [Symbol] SILT FENCE. PER DETAIL 4, SHEET EC-2.

NOTES:

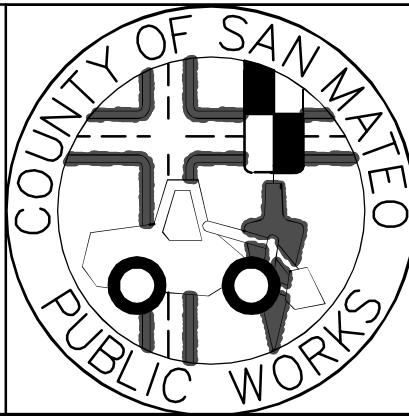
1. INSTALL FIBER ROLLS AT LIMITS OF GRADING, INCLUDING BIORETENTION AREAS.
2. PROVIDE INLET PROTECTION EROSION CONTROL MEASURES ON ALL STORM DRAIN INLETS AND OUTFALLS WHETHER SHOWN ON THIS PLAN OR NOT.
3. PROVIDE APPROPRIATE EROSION CONTROL MEASURES IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND COUNTY OF SAN MATEO REQUIREMENTS FOR STABILIZATION AND CONTROL OF ALL DISTURBED AREAS.

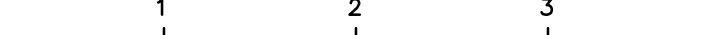


APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

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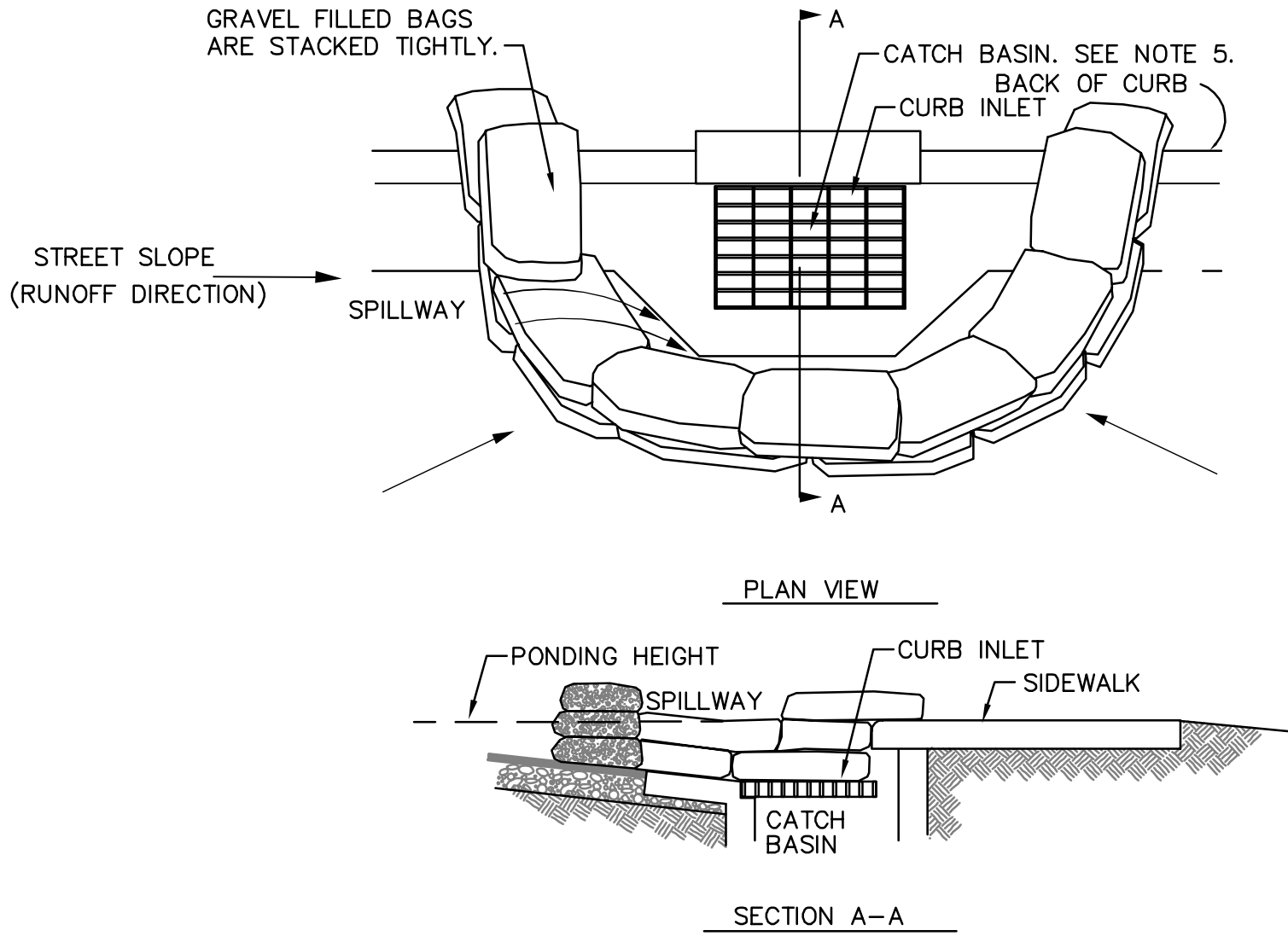
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(650) 482-6300



		DESIGNED BY: MD	COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT EROSION CONTROL PLAN	SCALE: 1"=40'
		CHECKED BY: JT		DATE: 9/9/2016
		DRAWN BY: AG		FILE NO.: E4948
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE			
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				EC-1 SHEET 22 OF 58

EROSION CONTROL NOTES:

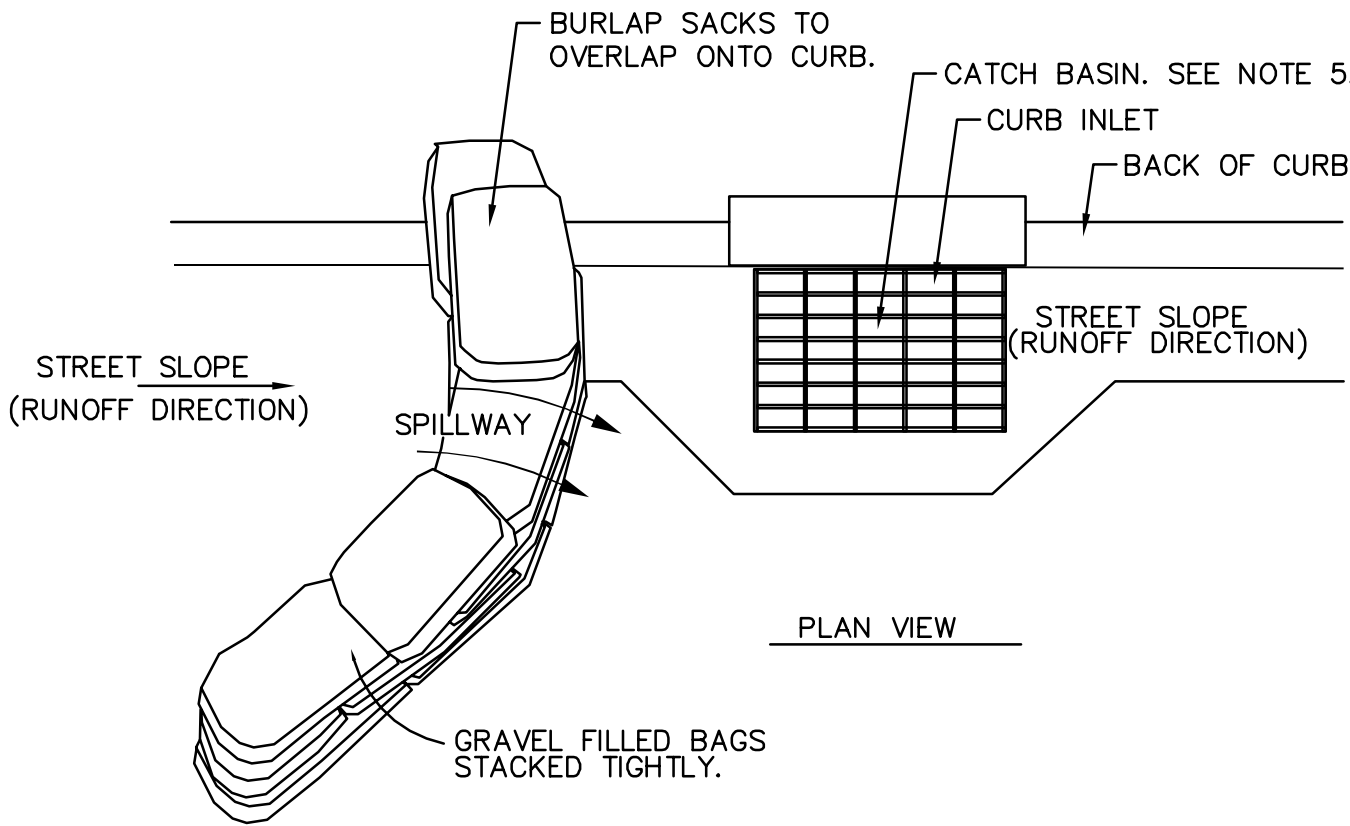
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. EROSION CONTROL PLAN AND MEASURES TO MEET COUNTY OF SAN MATEO REQUIREMENTS.
- ALTHOUGH SPECIFIC LOCATIONS FOR SEDIMENT CONTROL FACILITIES ARE SHOWN ON THESE PLANS, IT IS INTENDED THIS EROSION CONTROL PLAN BE MODIFIED WHEN NECESSARY TO MEET FIELD CONDITIONS.
- THE INTENT OF THESE PLANS IS TO PROVIDE THE INITIAL CONCEPT FOR INTERIM EROSION CONTROL. THE CONTRACTOR SHALL UPDATE THE PLANS TO REFLECT CHANGING SITE CONDITIONS. PLAN UPDATES SHALL BE BASED UPON GENERAL SURVEY DATA. EROSION CONTROL EFFECTIVENESS SHALL ALSO BE MONITORED AND THE PLANS UPGRADED AS REQUIRED TO PREVENT SIGNIFICANT QUANTITIES OF SEDIMENT FROM ENTERING THE DOWNSTREAM DRAINAGE SYSTEM.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STORM RUN OFF SEDIMENT FROM LEAVING THE SITE. FIBER ROLLS, SAND BAGS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.
- THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATE OWNED AND MAINTAINED ROAD CAUSED BY THE CONTRACTOR'S PAVING ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- BEST MANAGEMENT PRACTICES SHALL BE OPERABLE YEAR AROUND.
- DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED DAILY DURING THE RAINY SEASON. ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- APPLY WATER AS NEEDED, OR AS DIRECTED BY ENGINEER, OR APPLY NON-TOXIC SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITE.
- SWEEP (WITH WATER SWEEPERS) AS NEEDED, OR AS DIRECTED BY ENGINEER, ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- SWEEP PUBLIC STREETS ADJACENT TO CONSTRUCTION SITES DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE STREETS.
- LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE.
- INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE AS NEEDED, OR AS DIRECTED BY ENGINEER.
- INSTALL WIND BREAKS AT THE WINDWARD SIDES OF THE CONSTRUCTION AREAS.
- MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY YEAR ROUND DURING CONSTRUCTION ACTIVITIES. STABILIZING SHALL INCLUDE BOTH PROACTIVE MEASURES, SUCH AS THE PLACEMENT OF STRAW BALES OR COIR NETTING, AND PASSIVE MEASURES, SUCH AS MINIMIZING VEGETATION REMOVAL AND REVEGETATING DISTURBED AREAS WITH VEGETATION THAT IS COMPATIBLE WITH THE SURROUNDING ENVIRONMENT.
- STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
- CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING PAVEMENT CUTTING WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENTS, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
- USE SEDIMENT CONTROLS OR FILTRATION TO REMOVE SEDIMENT WHEN DEWATERING SITE AND OBTAINING ALL NECESSARY PERMITS.
- AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA WHERE WASH WATER IS CONTAINED AND TREATED.
- DELINEATE WITH FIELD MARKERS CLEARING LIMITS, SETBACKS, AND DRAINAGE COURSES.
- PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- PERFORM CLEARING AND EARTH-MOVING ACTIVITIES ONLY DURING DRY WEATHER.
- LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
- LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
- IF NO WORK HAS PROGRESSED FOR A PERIOD OF 6-WEEKS, FINAL DRAINAGE AND EROSION CONTROL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED WINTERIZATION PLAN.
- HAUL ROADS ARE CURRENTLY NOT SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE TAKEN TO MINIMIZE EROSION RELATED TO HAUL ROADS.
- THE NAME, ADDRESS, AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED TO THE COUNTY.
- SHOULD IT APPEAR THAT THE EROSION CONTROL PLAN, OR ANY OTHER MATTER THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.



NOTES:

- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
- BAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
- LEAVE ONE BAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY OVERFLOW.
- PLACE FIBER ROLLS ALONG OUTER EDGE OF GRAVEL FILLED BAGS.
- CATCH BASIN INSERTS SHALL BE PROVIDED AT ALL CATCH BASINS YEAR ROUND. INSERTS ARE NO LONGER NEEDED ONCE THE ADJACENT STREET IS PAVED AND UPSTREAM SOILS ARE STABILIZED.
- INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

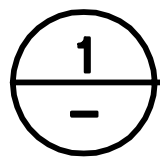
CURB INLET SEDIMENT BARRIER - SUMP



NOTES:

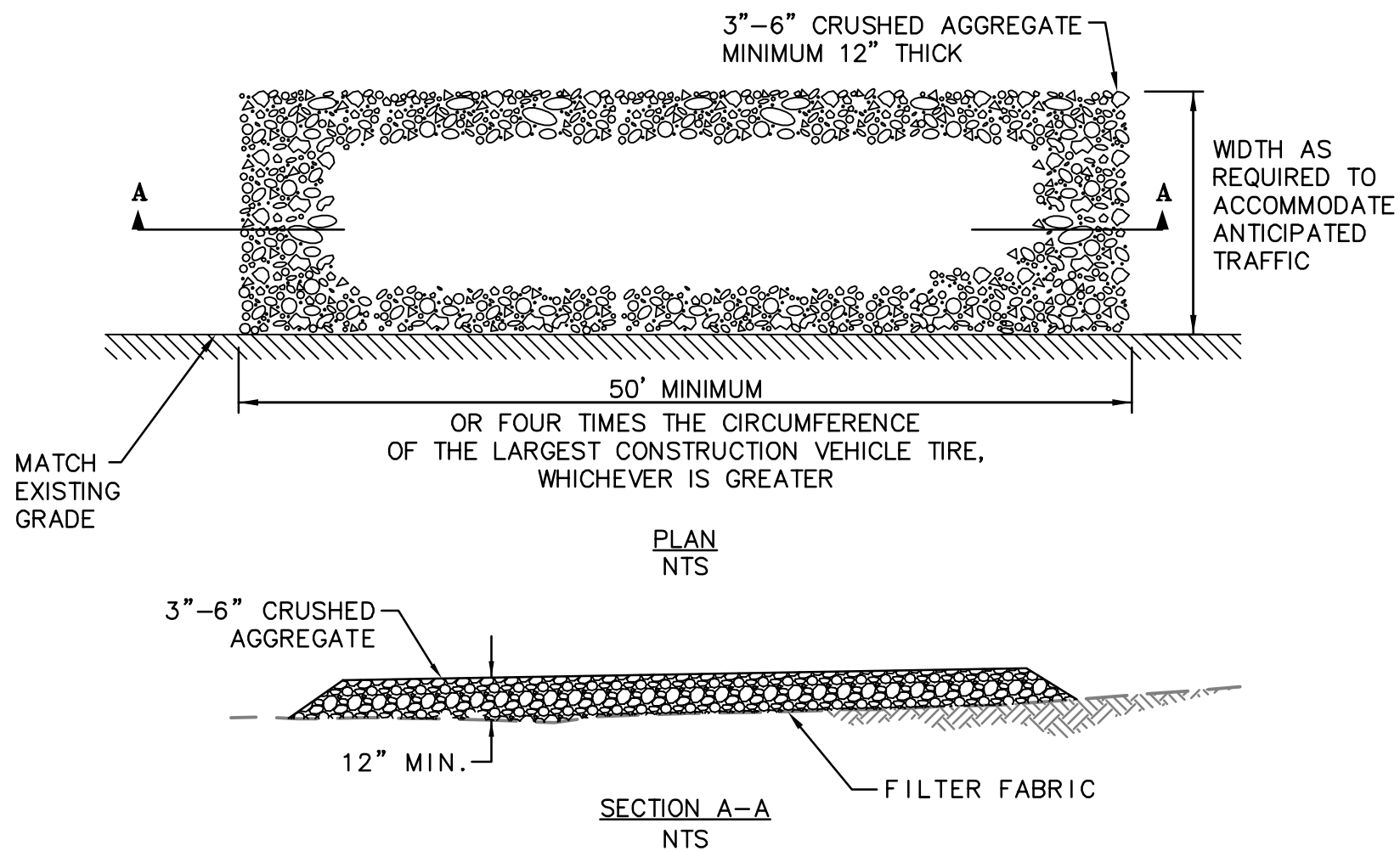
- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
- BAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
- LEAVE ONE BAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY OVERFLOW. TOP OF SPILLWAY SHALL BE LOWER THAN TOP OF CURB.
- PLACE FIBER ROLLS ALONG UPSTREAM EDGE OF GRAVEL FILLED BAGS.
- CATCH BASIN INSERTS SHALL BE PROVIDED AT ALL CATCH BASINS YEAR ROUND. INSERTS ARE NO LONGER NEEDED ONCE THE ADJACENT STREET IS PAVED AND UPSTREAM SOILS ARE STABILIZED.
- INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET SEDIMENT BARRIER - CONTINUOUS GRADE



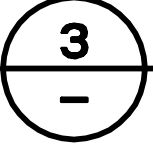
INLET PROTECTION

NTS



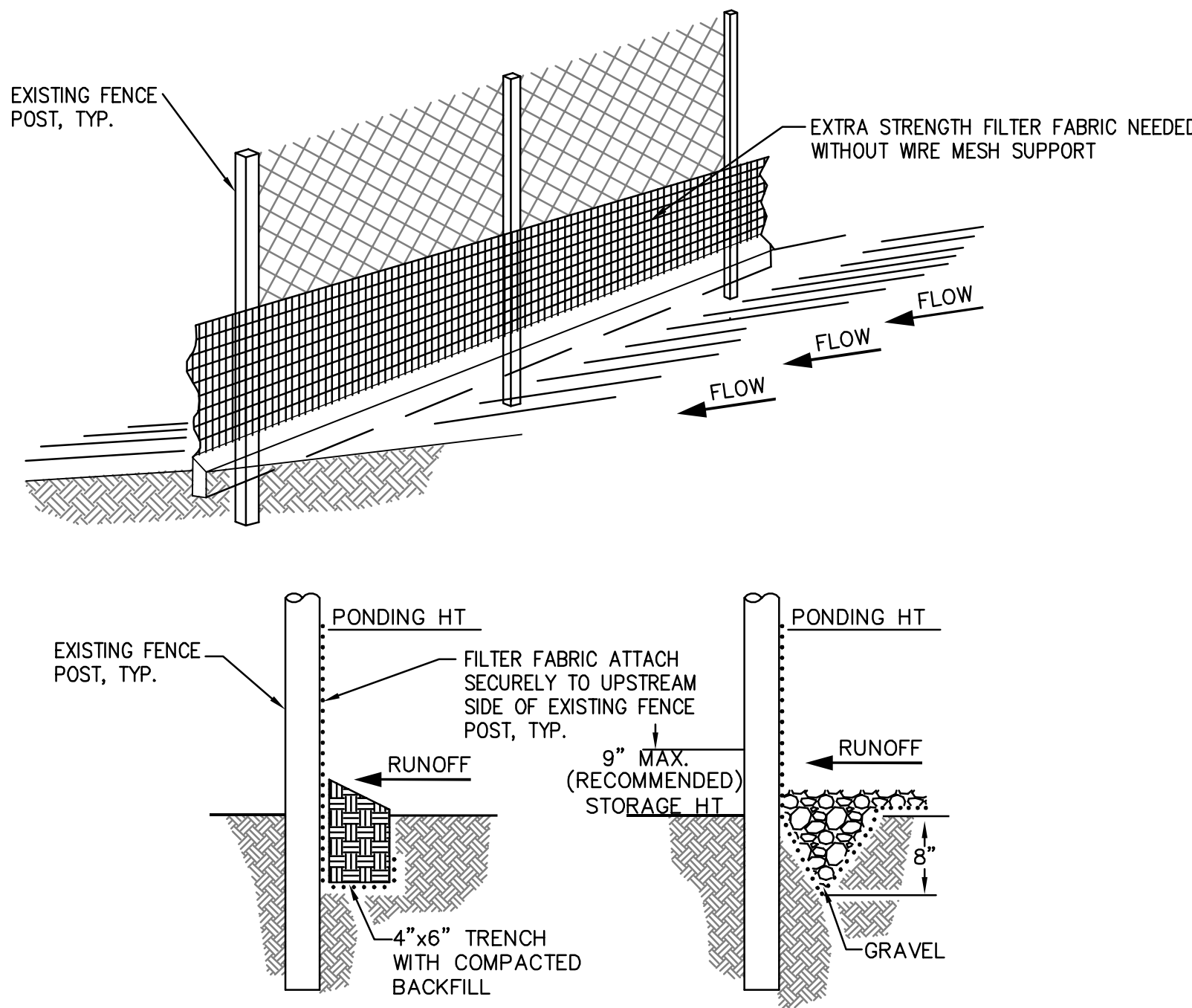
NOTES:

- ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY.
- WHEELS SHALL BE CLEAN PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER APPROVED METHODS).
- THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3" TO 6" STONE.
- THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12".
- THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- THE LENGTH OF THE PAD SHALL NOT BE LESS THAN 50'.



STABILIZED CONSTRUCTION ENTRANCE/EXIT

NTS

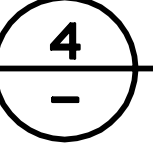


STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTES:

- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

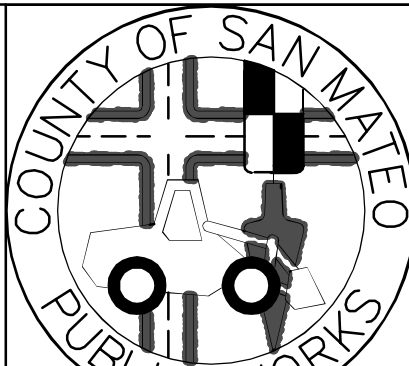


SILT FENCE

NTS

ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION WORK AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION

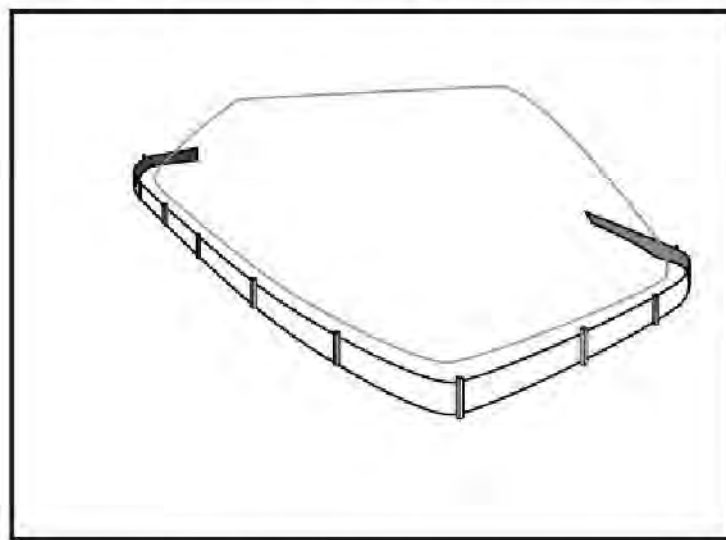
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BKF ENGINEERS
P.E. #C67726 / EXPIRES 6-30-2017



DESIGNED BY: MD	COYOTE POINT RECREATION AREA	SCALE: AS SHOWN
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: AG	EROSION CONTROL NOTES AND DETAILS	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
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		EC-2
		SHEET 23 OF 58

Stockpile Management

WM-3



Description and Purpose

Stockpile management procedures and practices are designed to reduce or eliminate air and stormwater pollution from stockpiles of soil, soil amendments, sand, paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate sub base or pre-mixed aggregate, asphalt munder (so called "cold mix" asphalt), and pressure treated wood.

Suitable Applications

Implement in all projects that stockpile soil and other loose materials.

Limitations

- Plastic sheeting as a stockpile protection is temporary and hard to manage in windy conditions. Where plastic is used, consider use of plastic tarps with nylon reinforcement which may be more durable than standard sheeting.
- Plastic sheeting can increase runoff volume due to lack of infiltration and potentially cause perimeter control failure.
- Plastic sheeting breaks down faster in sunlight.
- The use of plastic materials should be avoided when feasible and photodegradable plastics should not be used.

Implementation

Protection of stockpiles is a year-round requirement. To properly manage stockpiles:

Categories		
EC	Erosion Control	<input checked="" type="checkbox"/>
SC	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	<input checked="" type="checkbox"/>
WE	Wind Erosion Control	<input checked="" type="checkbox"/>
NS	Non-Stormwater Management Control	<input checked="" type="checkbox"/>
VM	Waste Management and Materials Pollution Control	<input checked="" type="checkbox"/>
Legend:		
<input checked="" type="checkbox"/>	Primary Category	
<input checked="" type="checkbox"/>	Secondary Category	

Targeted Constituents	
Sediment	<input checked="" type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>
Trash	<input checked="" type="checkbox"/>
Metals	<input checked="" type="checkbox"/>
Bacteria	<input checked="" type="checkbox"/>
Oil and Grease	<input checked="" type="checkbox"/>
Organics	<input checked="" type="checkbox"/>
Potential Alternatives	
None	



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Stockpile Management

WM-3

- On larger sites, a minimum of 50 ft separation from concentrated flows of stormwater, drainage courses, and inlets is recommended.
- All stockpiles are required to be protected immediately if they are not scheduled to be used within 14 days.
- Protect all stockpiles from stormwater run-on using temporary perimeter sediment barriers such as compost berms (SE-13), temporary silt dikes (SE-12), fiber rolls (SE-5), silt fences (SE-1), sandbags (SE-8), gravel bags (SE-6), or biofilter bags (SE-14). Refer to the individual fact sheet for each of these controls for installation information.
- Implement wind erosion control practices as appropriate on all stockpiled material. For specific information, see WE-1, Wind Erosion Control.
- Manage stockpiles of contaminated soil in accordance with WM-7, Contaminated Soil Management.
- Place bagged materials on pallets and under cover.
- Ensure that stockpile coverings are installed securely to protect from wind and rain.
- Some plastic covers withstand weather and sunlight better than others. Select cover materials or methods based on anticipated duration of use.

Protection of Non-Active Stockpiles

Non-active stockpiles of the identified materials should be protected further as follows:

Soil stockpiles

- Cover and protect soil stockpiles with soil stabilization measures and a temporary perimeter sediment barrier at all times.
- Consider temporary vegetation for topsoil piles that will be stockpiled for extended periods.

Stockpiles of Portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate sub base

- Provide covers and protect these stockpiles with a temporary perimeter sediment barrier at all times.

Stockpiles of "cold mix"

- Cover cold mix stockpiles and place them on plastic sheeting (or comparable material) and surround the stockpiles with a berm at all times.

Stockpiles of fly ash, stucco, hydrated lime

- Cover stockpiles of materials that may raise the pH of runoff (i.e., basic materials) with plastic and surround the stockpiles with a berm at all times.

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WM-3 - STOCKPILE MANAGEMENT

N.T.S.

Stockpile Management

WM-3

Stockpiles/Storage of wood (Pressure treated with chromated copper arsenate or ammoniacal copper zinc arsenate)

- Cover treated wood with plastic sheeting (or comparable material) and surround with a berm at all times.

Protection of Active Stockpiles

Active stockpiles of the identified materials should be protected as follows:

- All stockpiles should be covered and protected with a temporary linear sediment barrier prior to the onset of precipitation.
- Stockpiles of "cold mix" and treated wood, and basic materials should be placed on and covered with plastic sheeting or comparable material and surrounded by a berm prior to the onset of precipitation.
- The downstream perimeter of an active stockpile should be protected with a linear sediment barrier or berm and runoff should be diverted around or away from the stockpile on the upstream perimeter.

Costs

For cost information associated with stockpile protection refer to the individual erosion or sediment control BMP fact sheet considered for implementation (For example, refer to SE-1 Silt Fence for installation of silt fence around the perimeter of a stockpile.)

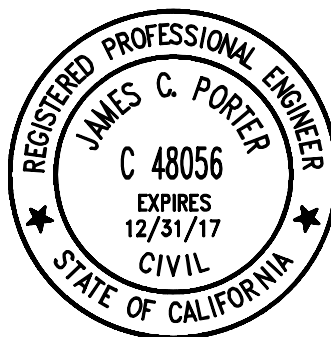
Inspection and Maintenance

- Stockpiles must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- It may be necessary to inspect stockpiles covered with plastic sheeting more frequently during certain conditions (for example, high winds or extreme heat).
- Repair and/or replace perimeter controls and covers as needed to keep them functioning properly.
- Sediment shall be removed when it reaches one-third of the barrier height.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

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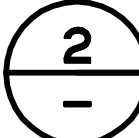
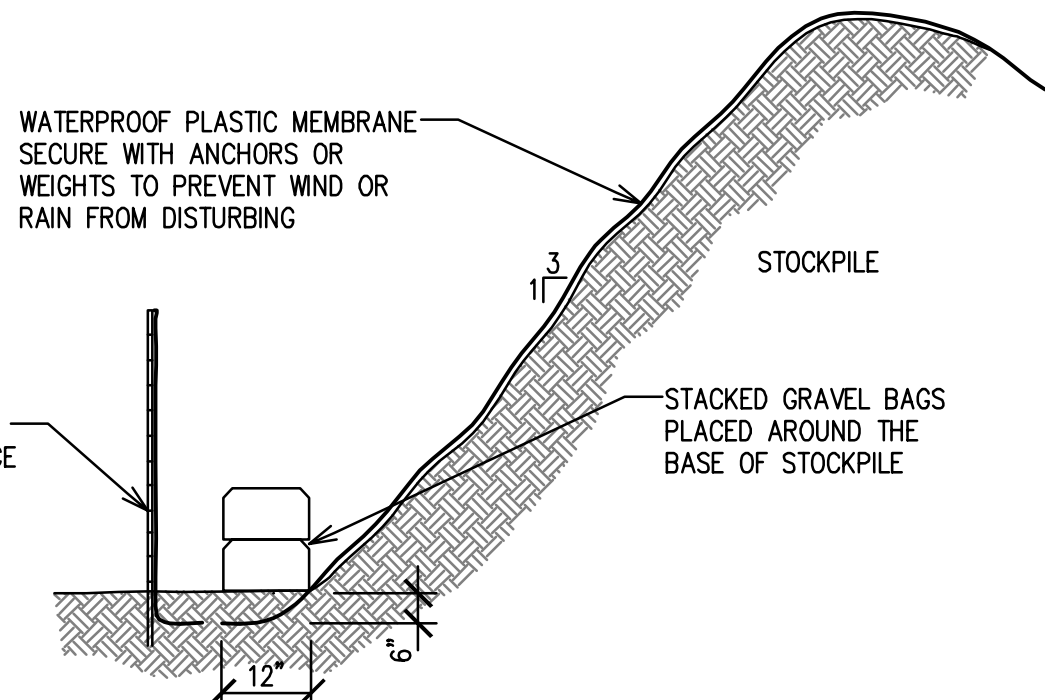
APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

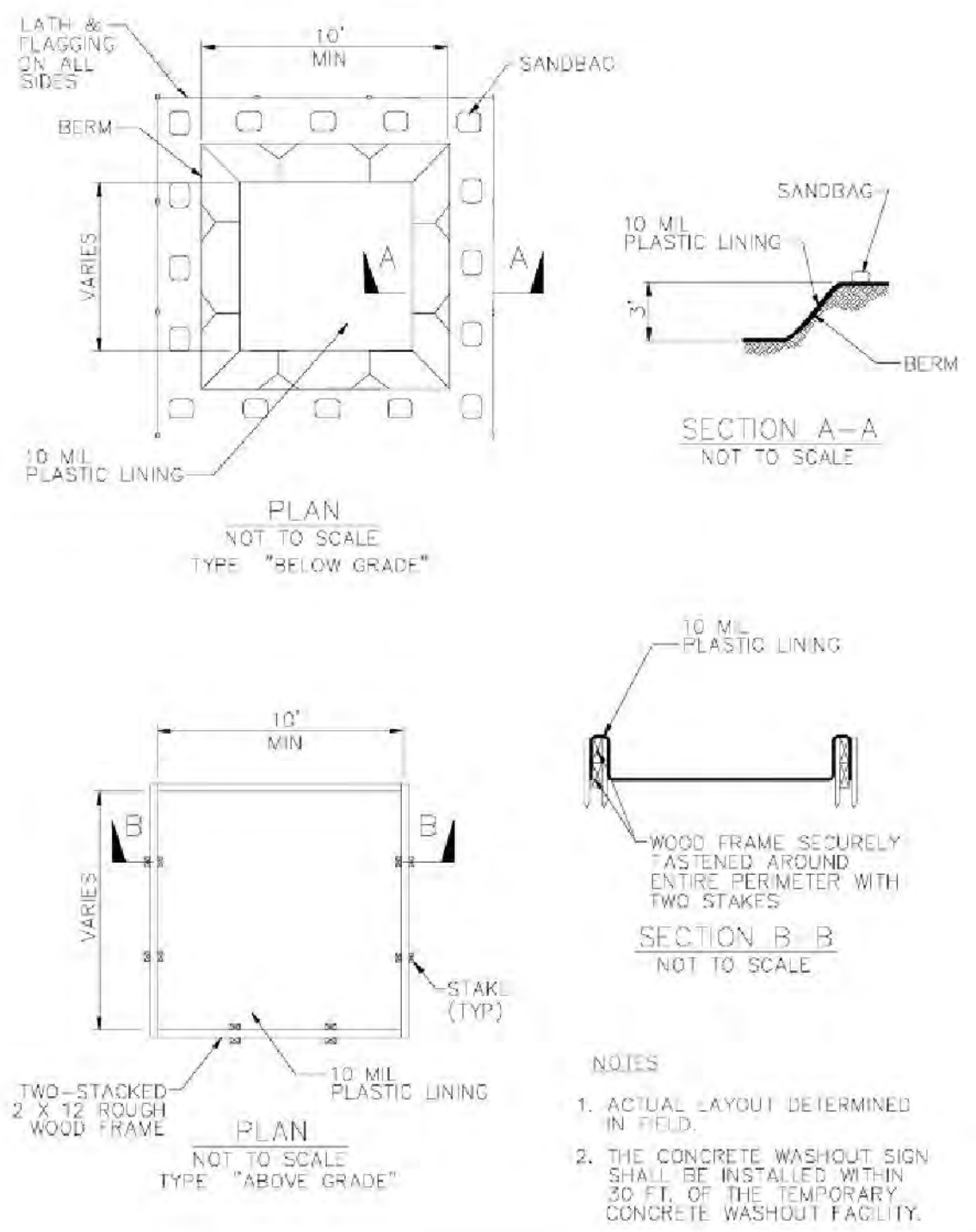


STOCKPILE COVERING

(PER CASQA STANDARD WM-3, STOCKPILE MANAGEMENT, SEE LEFT)
N.T.S.

Concrete Waste Management

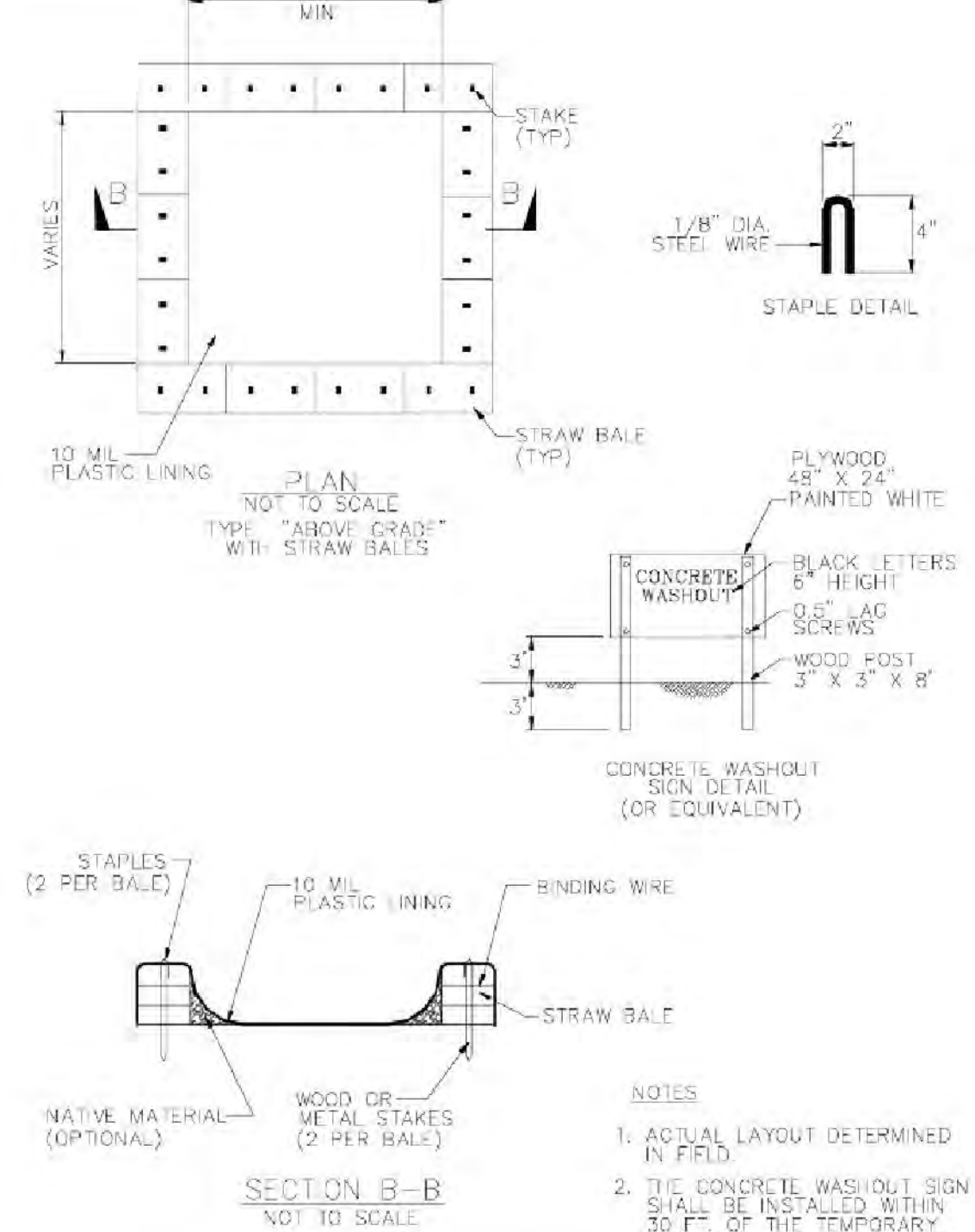
WM-8



November 2009
California Stormwater BMP Handbook
Construction
www.casqa.org

Concrete Waste Management

WM-8



November 2009
California Stormwater BMP Handbook
Construction
www.casqa.org

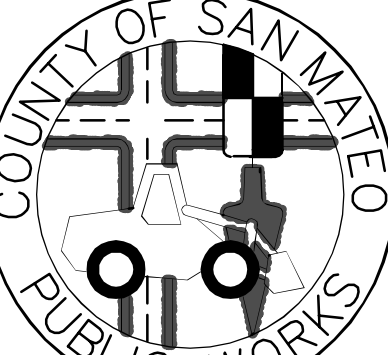
WM-8 - CONCRETE WASTE MANAGEMENT

N.T.S.

APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	



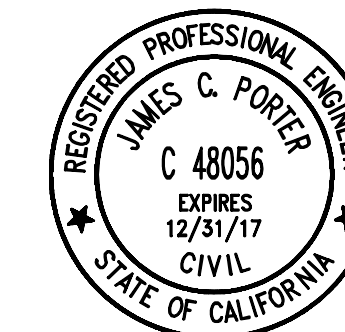
BKF
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: JT	COYOTE POINT RECREATION AREA	SCALE: AS SHOWN
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: TT	CASQA STANDARD DETAILS	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4
		EC-3
		SHEET 24 OF 58

Construction Best Management Practices (BMPs)

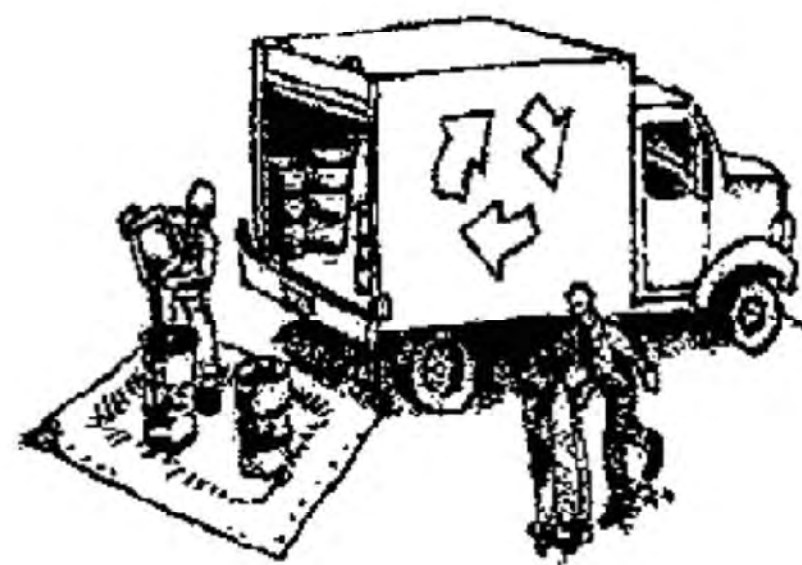
Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.



APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

Materials & Waste Management



Non-Hazardous Materials

- ❑ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ❑ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ❑ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ❑ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ❑ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ❑ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ❑ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ❑ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ❑ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ❑ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ❑ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ❑ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ❑ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



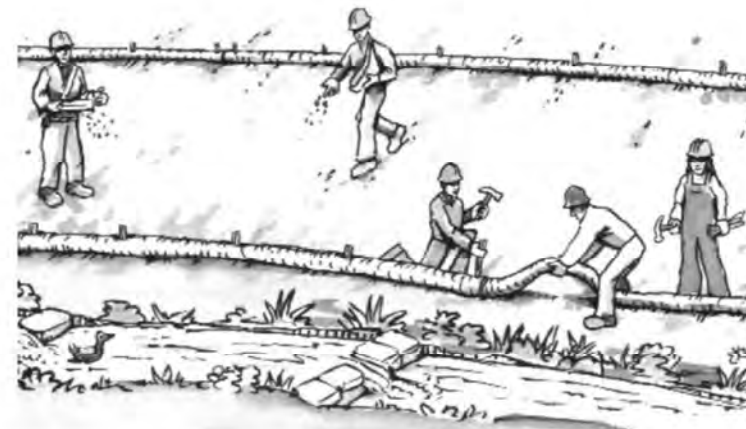
Maintenance and Parking

- ❑ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ❑ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ❑ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ❑ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ❑ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ❑ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ❑ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ❑ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ❑ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ❑ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number; 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- ❑ Schedule grading and excavation work during dry weather.
- ❑ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ❑ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ❑ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ❑ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ❑ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor.
 - Abandoned underground tanks.
 - Abandoned wells
 - Buried barrels, debris, or trash.

Paving/Asphalt Work



- ❑ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ❑ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

- ❑ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ❑ Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ❑ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



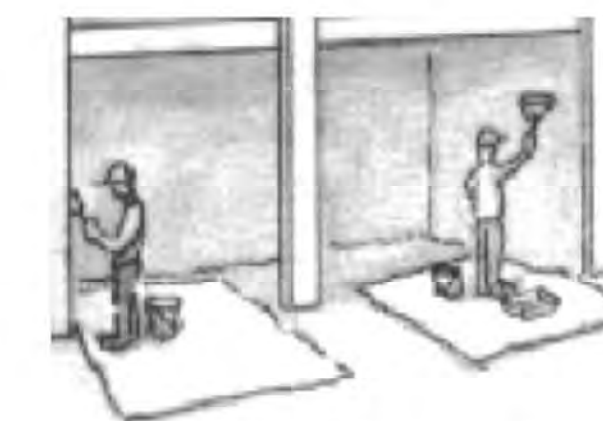
- ❑ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ❑ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ❑ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping



- ❑ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ❑ Stack bagged material on pallets and under cover.
- ❑ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

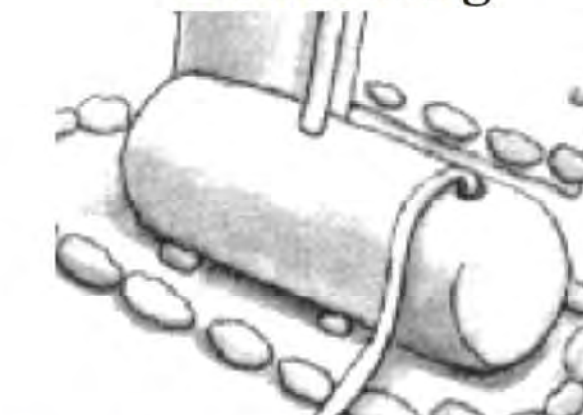
Painting & Paint Removal



Painting Cleanup and Removal

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ❑ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ❑ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ❑ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ❑ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

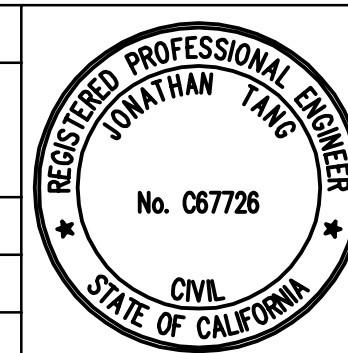
Dewatering



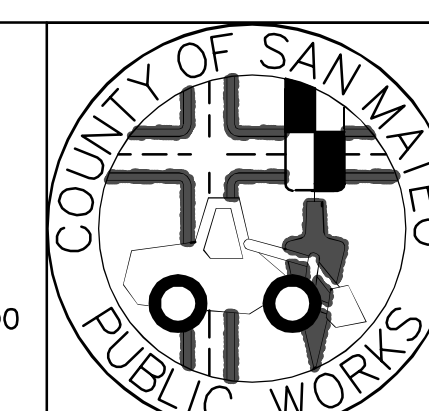
- ❑ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ❑ Divert run-on water from offsite away from all disturbed areas.
- ❑ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ❑ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Storm drain polluters may be liable for fines of up to \$10,000 per day!

APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	




ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200 REDWOOD CITY, CA 94065 (650) 482-6300



DESIGNED BY: MD	COYOTE POINT RECREATION AREA		SCALE: NONE
CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	CONSTRUCTION BEST MANAGEMENT PRACTICES		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE		
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4 SHEET 25 OF 58	



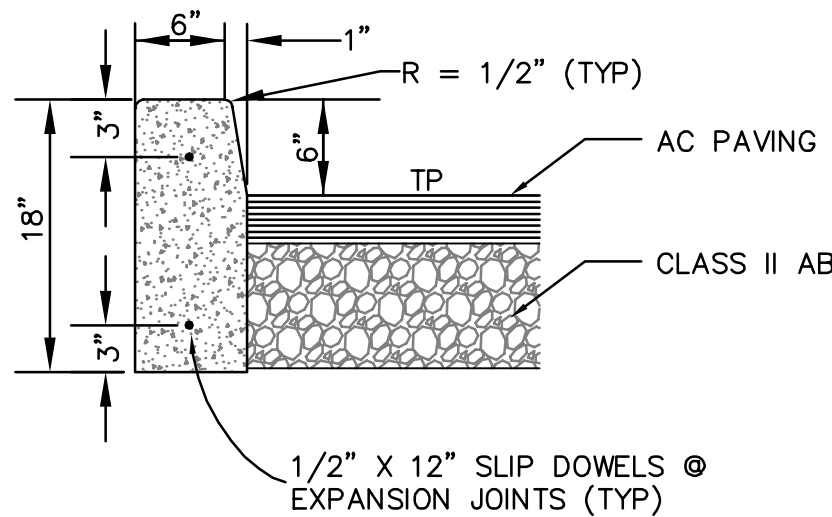
APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS



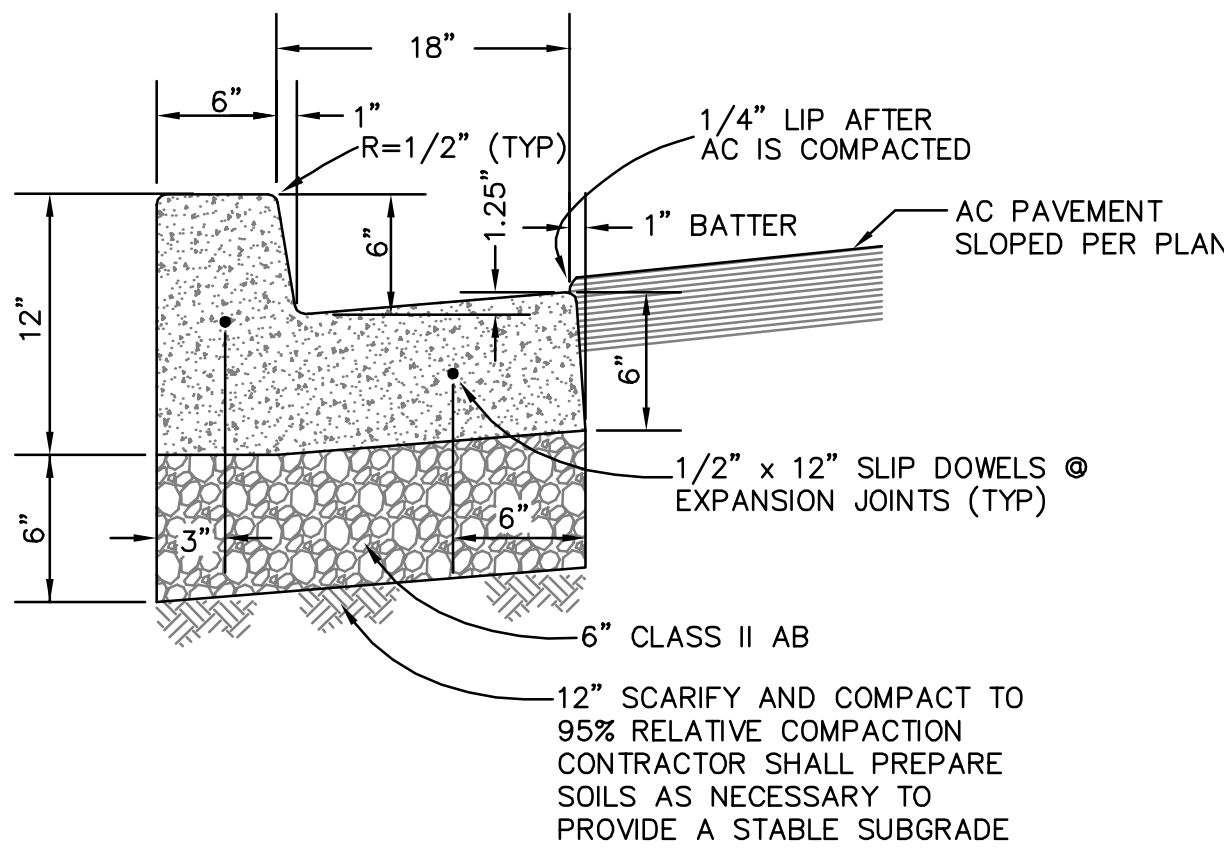
NOTE:

1. EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF 20 FEET MAXIMUM AND AT THE ENDS OF STRUCTURES, UNLESS OTHERWISE INDICATED ON THE PLANS. EXPANSION JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS.

1
-

VERTICAL CURB

NTS



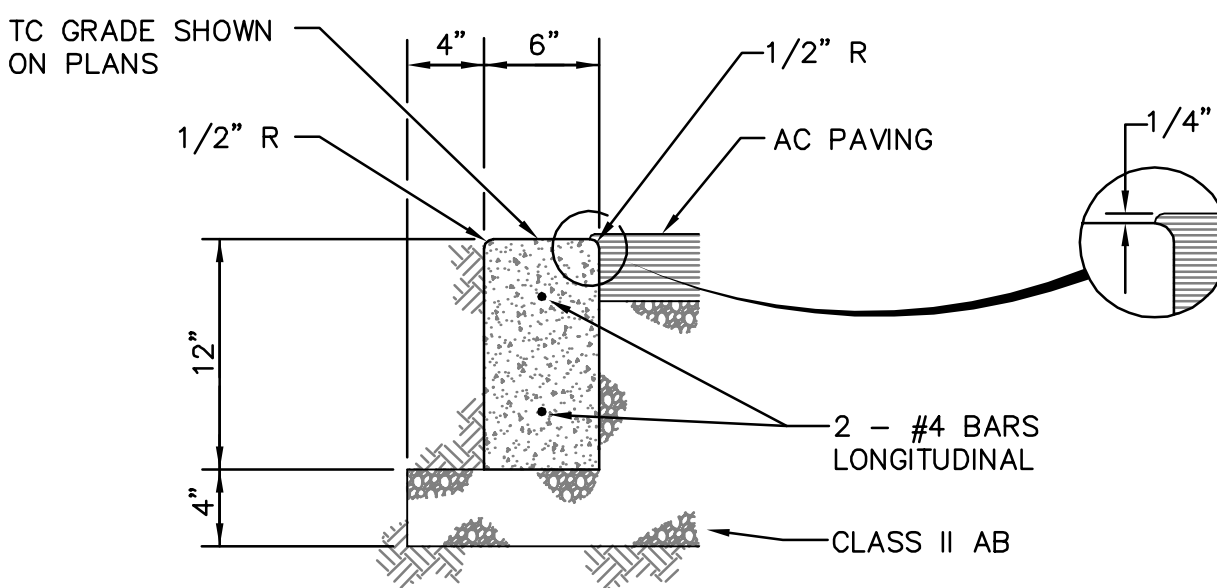
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2
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CURB & GUTTER

NTS



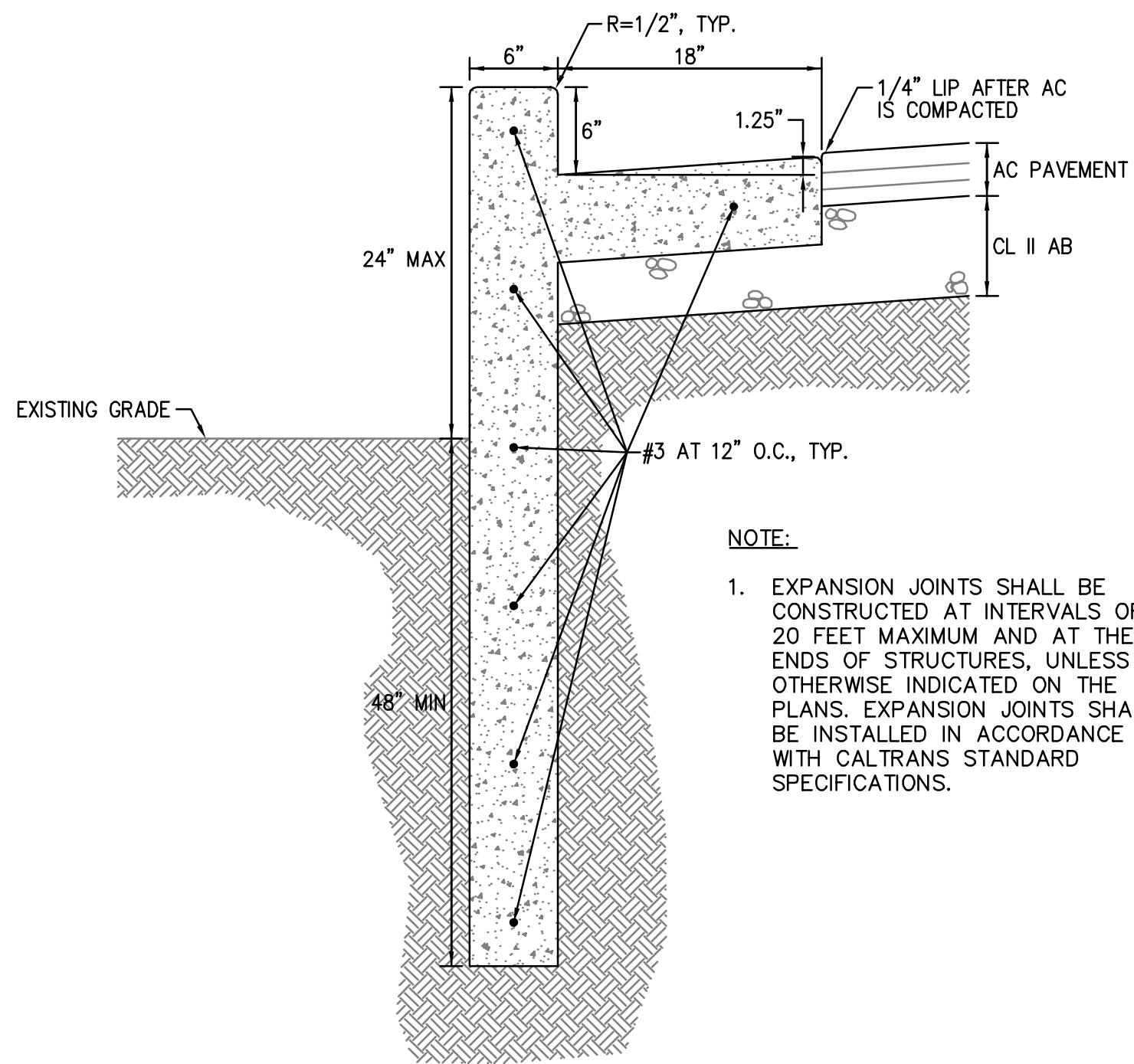
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3
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FLUSH CURB

NTS



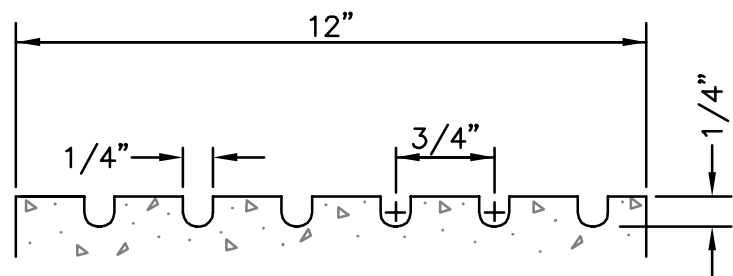
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7
-

DEEPENED CURB & GUTTER

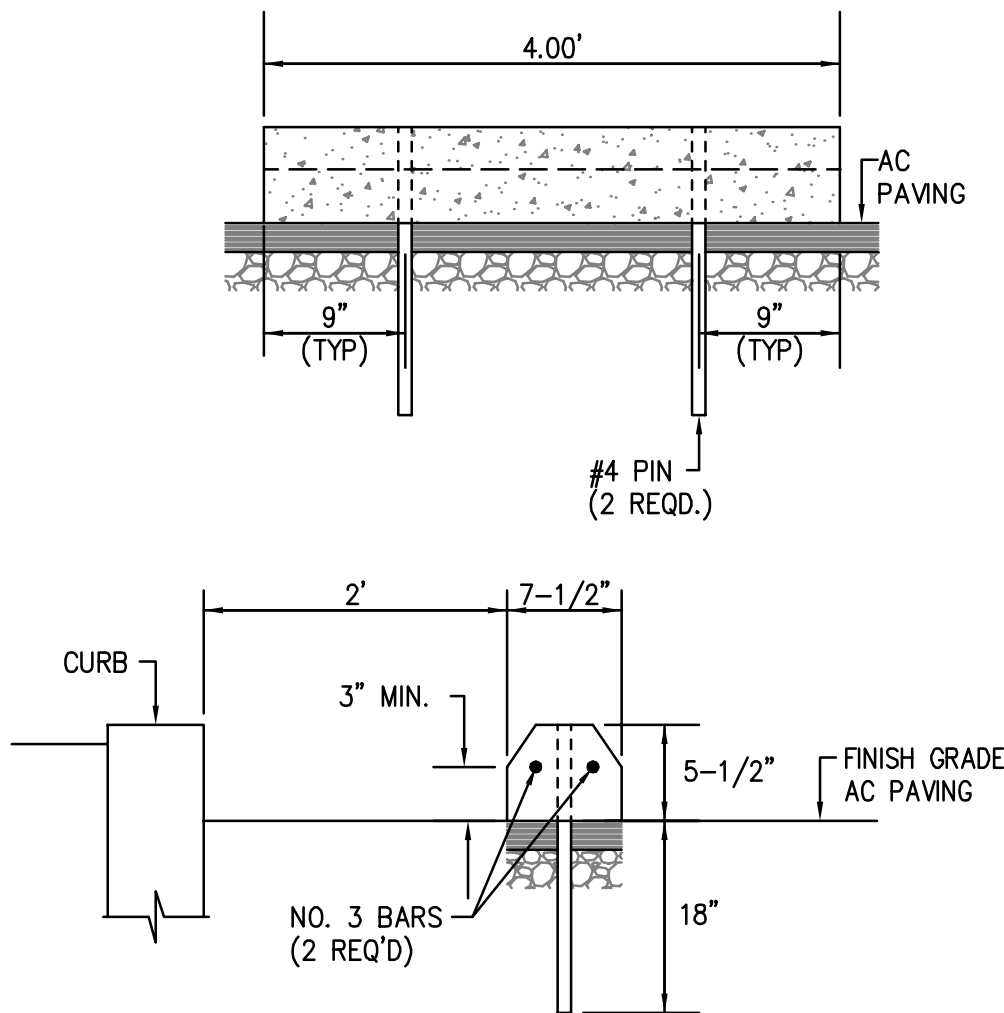
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5
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GROOVE DETAIL

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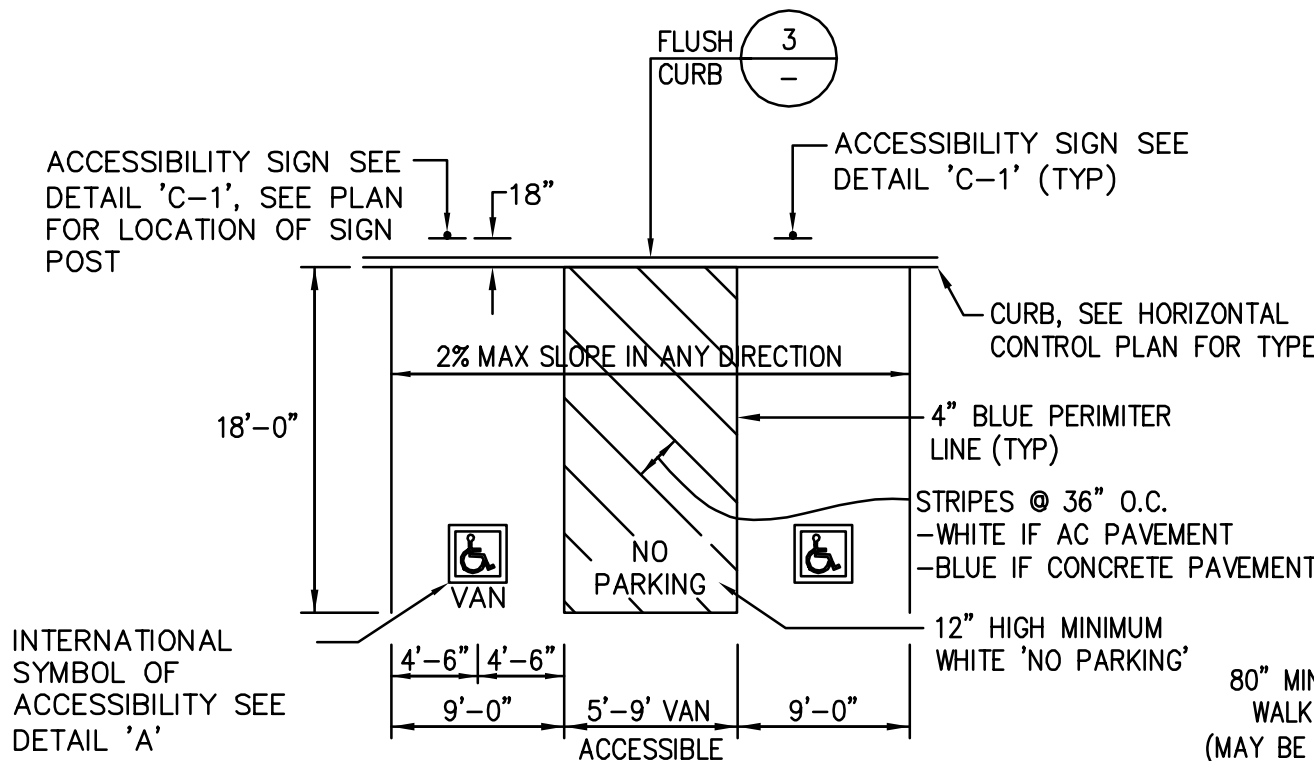
4
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WHEEL STOP

NTS

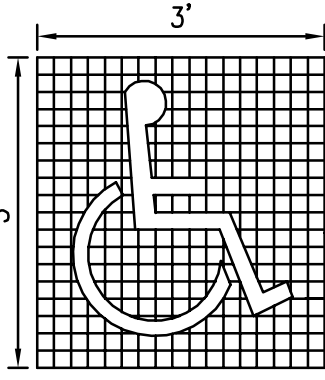
NOTES:

1. EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN AREA AND WHEN IN A PATH OF TRAVEL SHALL BE POSTED AT A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. SIGNS MAY ALSO BE CENTERED ON THE WALL AT THE INTERIOR OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 60 INCHES FROM THE PARKING SPACE FINISHED GRADE, GROUND, OR SIDEWALK.
2. AN ADDITIONAL SIGN SHALL ALSO BE POSTED IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO THE OFF-STREET PARKING FACILITY, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL NOT BE LESS THAN 17 INCHES X 22 INCHES IN SIZE, LETTERING NOT LESS THAN 1 INCH IN HEIGHT, WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING:
- "UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT - - - - - OR BY TELEPHONING - - - - -"
- CONTRACTOR SHALL COORDINATE LOCATION OF SIGN WITH COUNTY OF SAN MATEO.
3. VAN STALLS SHALL BE DESIGNATED BY AN ADDITIONAL SIGN STATING "VAN ACCESSIBLE" MOUNTED BELOW THE REFLECTORIZED SIGN.



INTERNATIONAL SYMBOL OF ACCESSIBILITY SEE DETAIL 'A'

PARKING STALLS
SEE HORIZONTAL CONTROL PLAN FOR LAYOUT

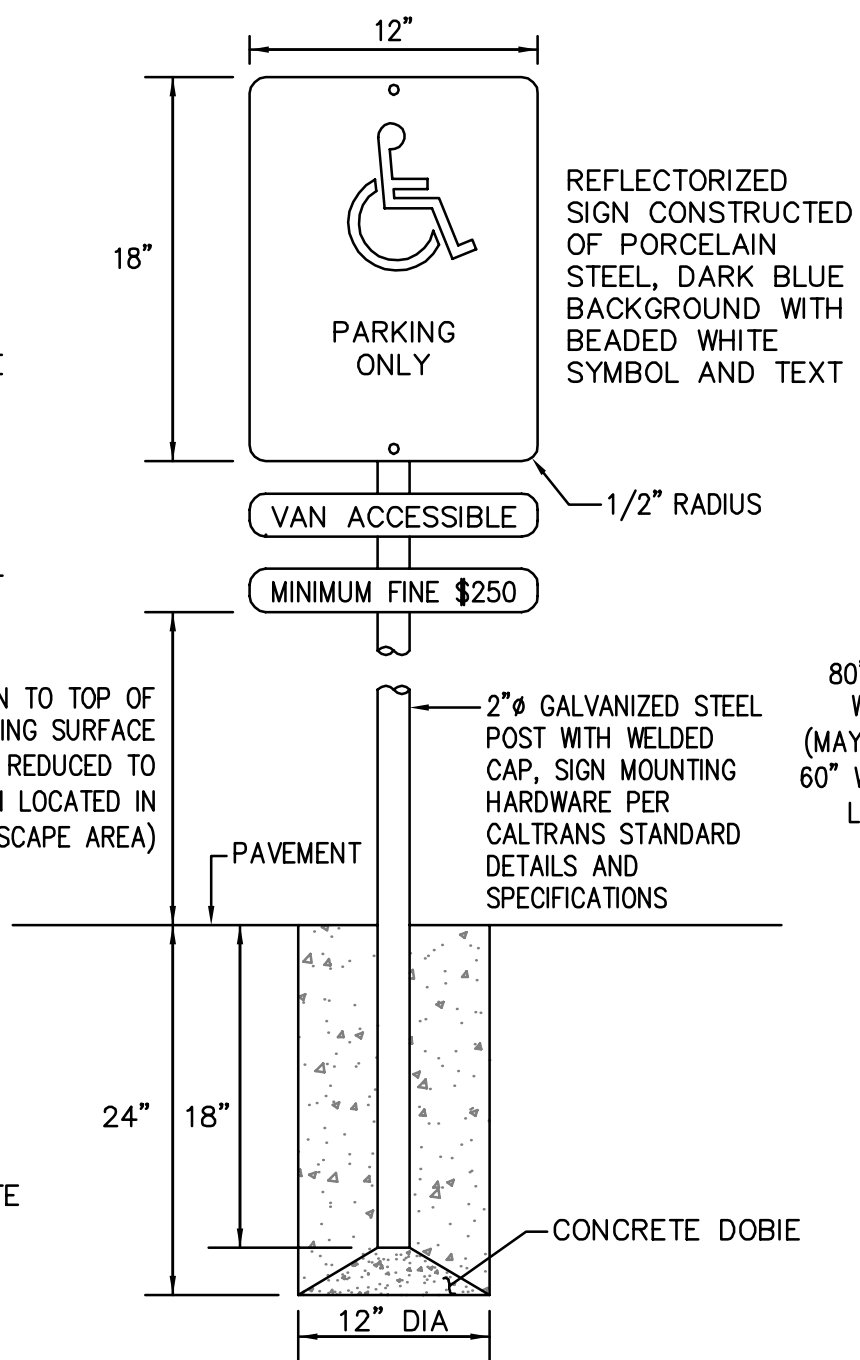


PROPORTIONS

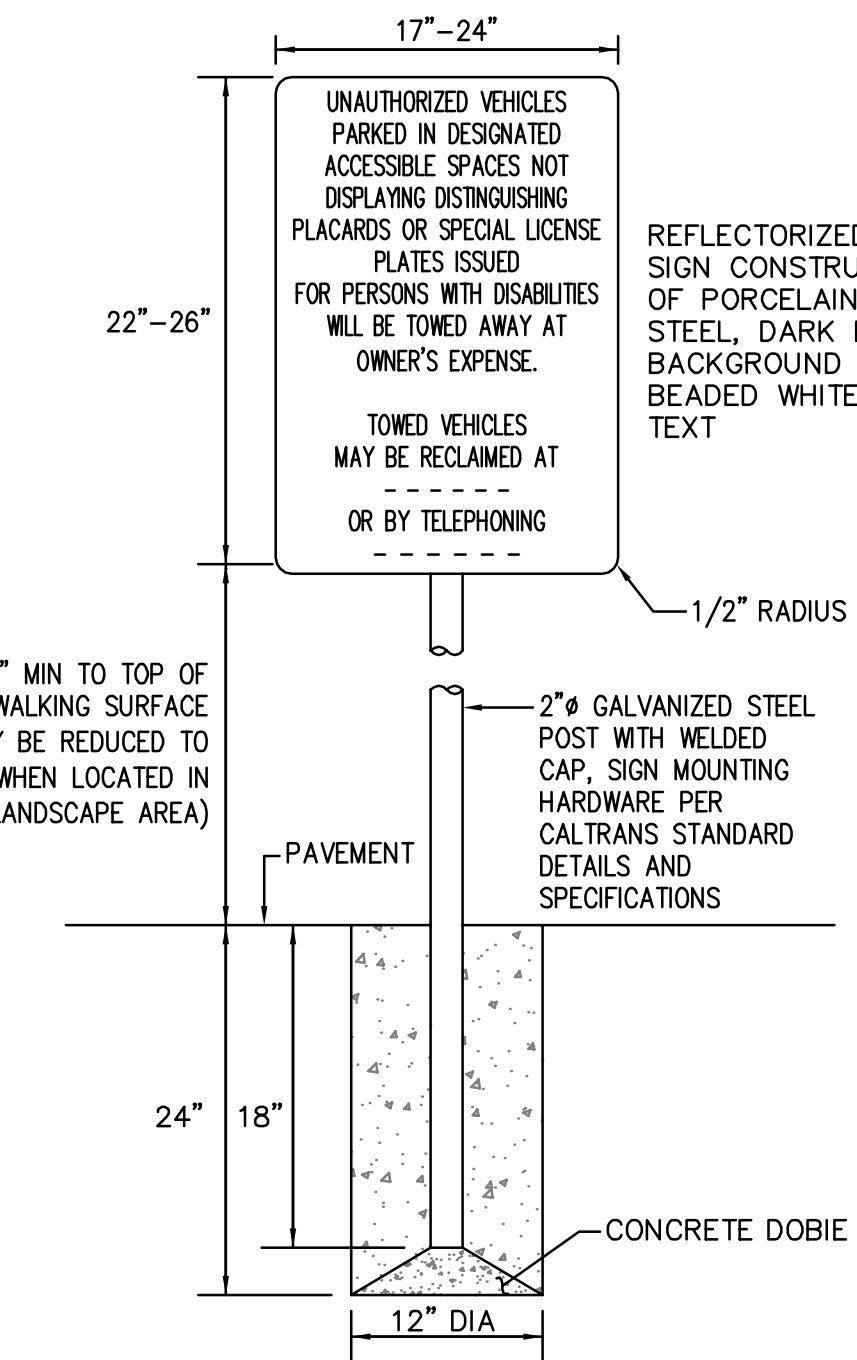


DISPLAY CONDITION

INTERNATIONAL SYMBOL OF ACCESSIBILITY
DETAIL 'A'



ACCESSIBILITY SIGN
DETAIL 'C-1'



ACCESSIBILITY TOW AWAY SIGN
DETAIL 'C-2'

6
-

ACCESSIBLE PARKING STALLS

NTS

APPROVED DATE:

JONATHAN TANG, PROJECT MANAGER

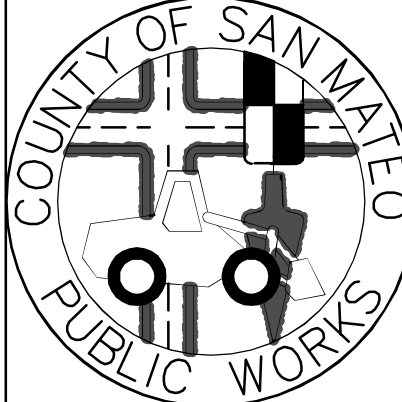
BKF ENGINEERS

P.E. #C67726 / EXPIRES 6-30-2017



BKF
ENGINEERS / SURVEYORS / PLANNERS

255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: MD
CHECKED BY: JT
DRAWN BY: AG

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY

COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT
CONSTRUCTION DETAILS

SCALE: AS SHOWN
DATE: 9/9/2016
FILE NO.: E4948

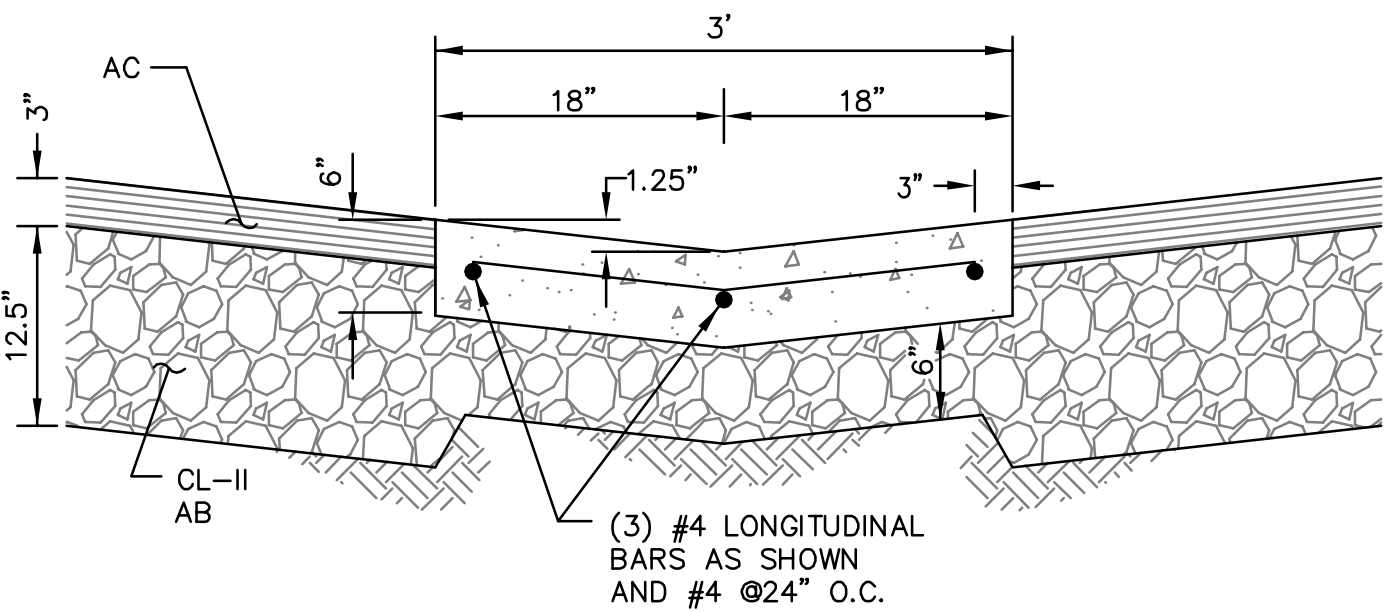
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

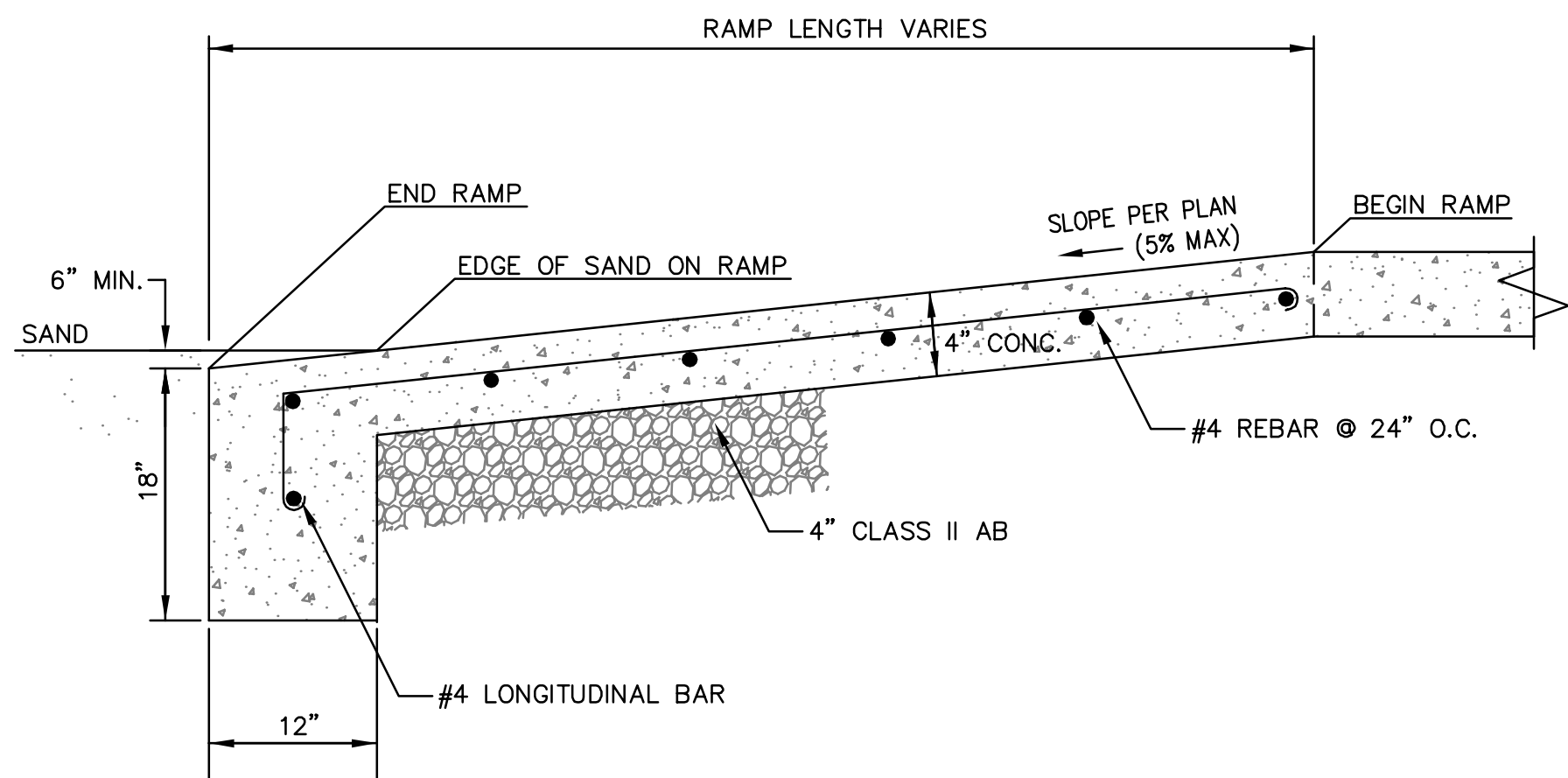
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C-1

SHEET 26 OF 58



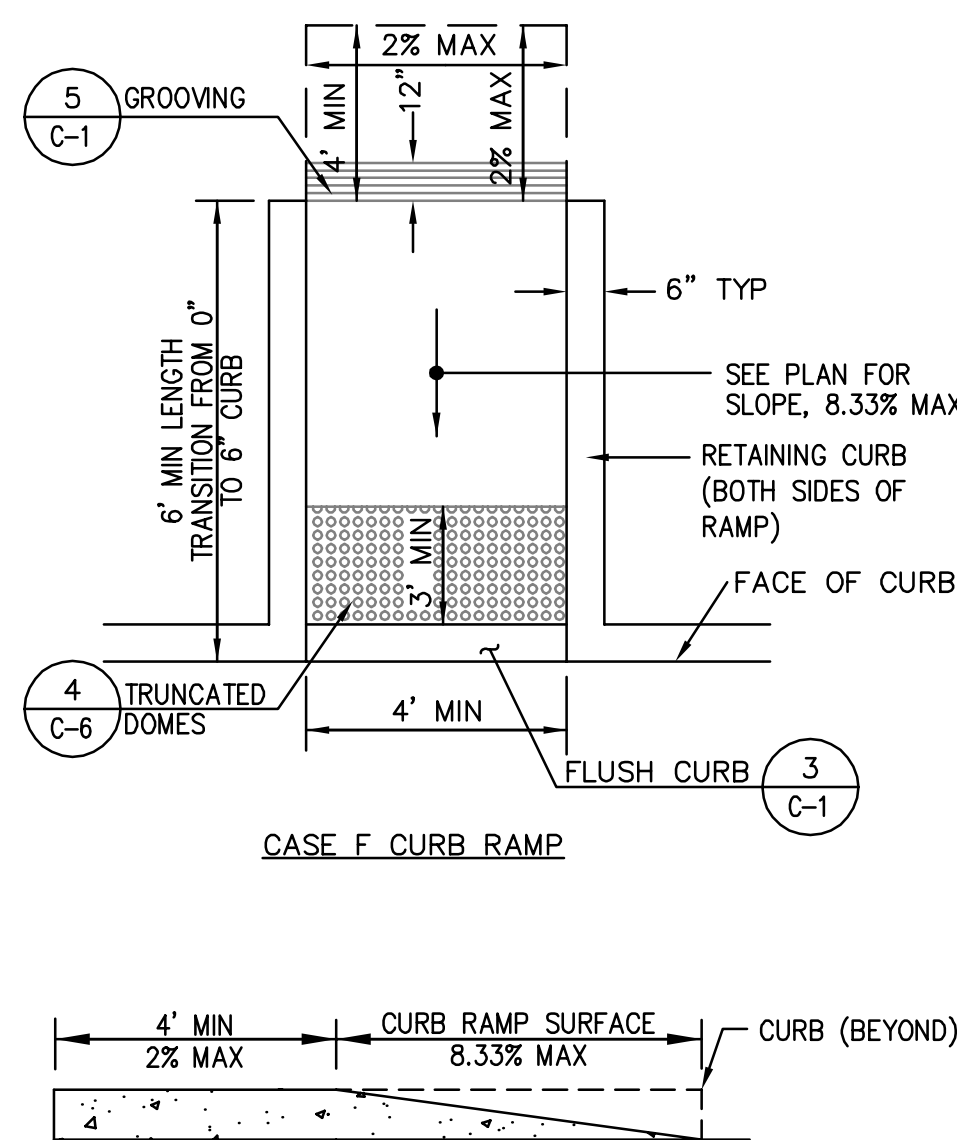
3
—
VALLEY GUTTER
NTS



4
—
ACCESSIBLE RAMP
NTS

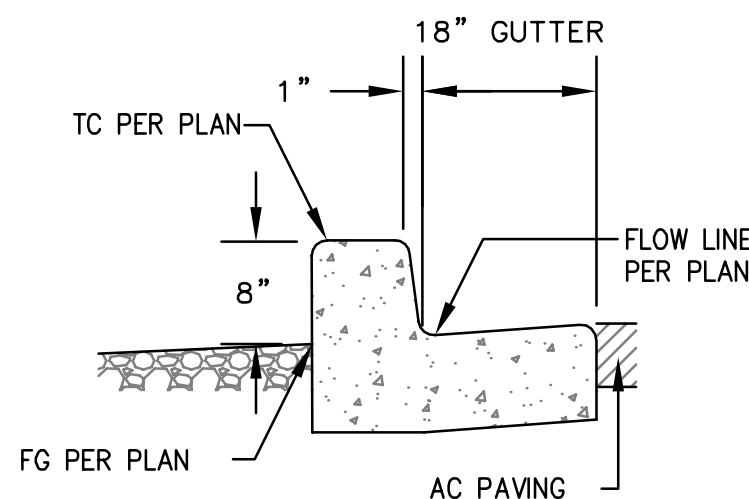
NOTES:

- A "CURB RAMP" IS DEFINED AS THE ENTIRE CONCRETE SURFACE AREA WHICH INCLUDES THE RAMP AND THE FLARED SIDES. THE "RAMP" IS DEFINED AS THE 4-FOOT WIDE MINIMUM CENTER PORTION INCLUDING THE DETECTABLE SURFACE, AND SHALL LIE IN A SLOPED PLANE OF 8.33% (1:12) MAXIMUM AND CROSS SLOPE NOT TO EXCEED 2%. THE "FLARED SIDE" IS DEFINED AS THE AREA ON EITHER SIDE OF THE RAMP AND SHALL LIE ON A SLOPED PLANE OF 10% (1:10) MAXIMUM MEASURED ALONG THE CURB. THE CURB RAMP SURFACES SHALL HAVE A SURFACE FLATNESS TOLERANCE OF 1/4" PER 10-FOOT STRAIGHT EDGE MAXIMUM.
- WHEN VERTICAL OBSTRUCTIONS ARE PRESENT NEAR THE CURB AT THE END OF THE FLARED SIDE, OR WHEN THE CURB RAMP IS DIAGONAL TO THE CURB THAT WILL RESULT IN AN EXTREMELY LONG FLARED SIDE SURFACE, THEN THE AFFECTED FLARED SIDE MAY BE CUT AND TERMINATED PERPENDICULAR TO THE CURB, PROVIDED THAT THE REQUIRED SLOPE IS ACHIEVED ON EACH OF THE RESULTING PLANES.
- A LEVEL LANDING OF 4 FEET MINIMUM DEPTH, 2% MAXIMUM CROSS SLOPE, SHALL BE PROVIDED AT THE LOWER END OF THE RAMP AND OVER THE FULL WIDTH OF THE RAMP TO ALLOW SAFE EGRESS. THE ALGEBRAIC SUM OF THE OPPOSING SLOPES BETWEEN TWO ADJACENT SURFACES SHALL NOT EXCEED 10.33%.
- THE CURB RAMP SHALL BE BOUNDED BY A 12-INCH WIDE GROOVED BORDER WITH A 1/4-INCH WIDE BY 1/4-INCH DEEP GROOVES SCORED 3/4-INCH APART EXCEPT ON THE CURB SECTION.
- THE BOTTOM OF THE RAMP SHALL BE FLUSH WITH THE LOWER LANDING (NO HALF-INCH UP).
- A LEVEL LANDING 4 FEET DEEP MINIMUM, 2% MAXIMUM CROSS SLOPE IN EACH DIRECTION, SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP TO ALLOW SAFE EGRESS FROM THE RAMP SURFACE. THE WIDTH OF THE LEVEL LANDING SHALL BE AT LEAST AS WIDE AS THE WIDTH OF THE RAMP.
- NO NEW VERTICAL OBSTRUCTIONS MAY BE LOCATED IN THE CURB RAMP OR GROOVED BORDER.
- NEW UTILITY BOXES SHALL NOT BE PLACED WITHIN THE GROOVED BORDER OR THE RAMP.
- THE SURFACE OF THE CURB RAMP AND DETECTABLE SURFACE MATERIAL SHALL BE STABLE, FIRM AND SLIP RESISTANT. THE CONCRETE CURB RAMP SURFACE SHALL BE BROOM FINISHED TRANSVERSE TO THE AXIS OF THE RAMP AND SHALL BE SLIGHTLY ROUGHER THAN THE FINISH ON THE ADJACENT SIDEWALK SURFACE. ALL CURB RAMP SURFACES SHALL BE SLIP RESISTANT, INCLUDING CONCRETE OR OTHER APPROVED SURFACE MATERIALS, AND THE DETECTABLE WARNING MATERIAL MEASURED AT THE TOP OF DOMES SURFACES AND THE SURFACE BETWEEN DOMES. SLIP RESISTANCE SHALL BE MEASURED IN ACCORDANCE WITH ASTM C1028 AND SHALL ACHIEVE A STATIC COEFFICIENT OF FRICTION OF 0.8 OR GREATER, WET OR DRY.
- THE DEPTH OF THE COMBINED CONCRETE CURB AND GUTTER SHALL BE EQUAL TO THE DEPTH OF THE EXISTING PAVEMENT STRUCTURAL SECTION OR 6 INCHES, WHICHEVER IS GREATER.
- THE RAMP CENTER LINE AND PATH OF TRAVEL MUST BE PARALLEL TO THE CROSSWALK. THE FULL WIDTH OF THE RAMP SHALL LIE WITHIN THE CROSSWALK AREA. IT IS DESIRABLE THAT THE LOCATION OF THE RAMP BE AS CLOSE AS POSSIBLE TO THE CENTER OF THE CROSSWALK.

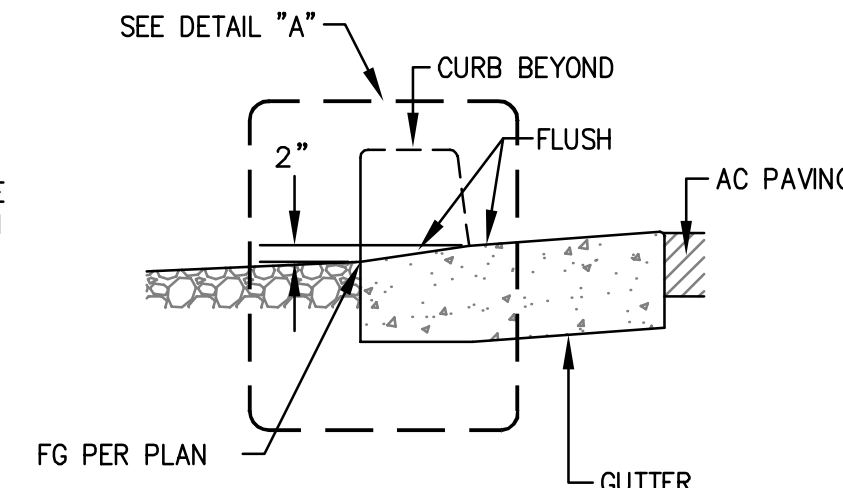


CASE F - SIDE ELEVATION

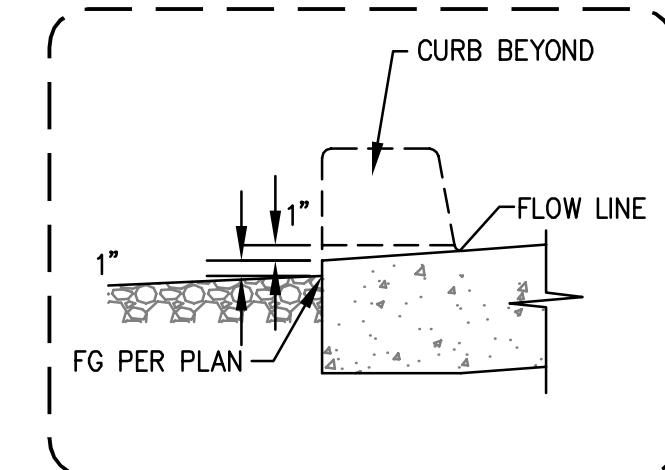
5
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CURB RAMP
NTS



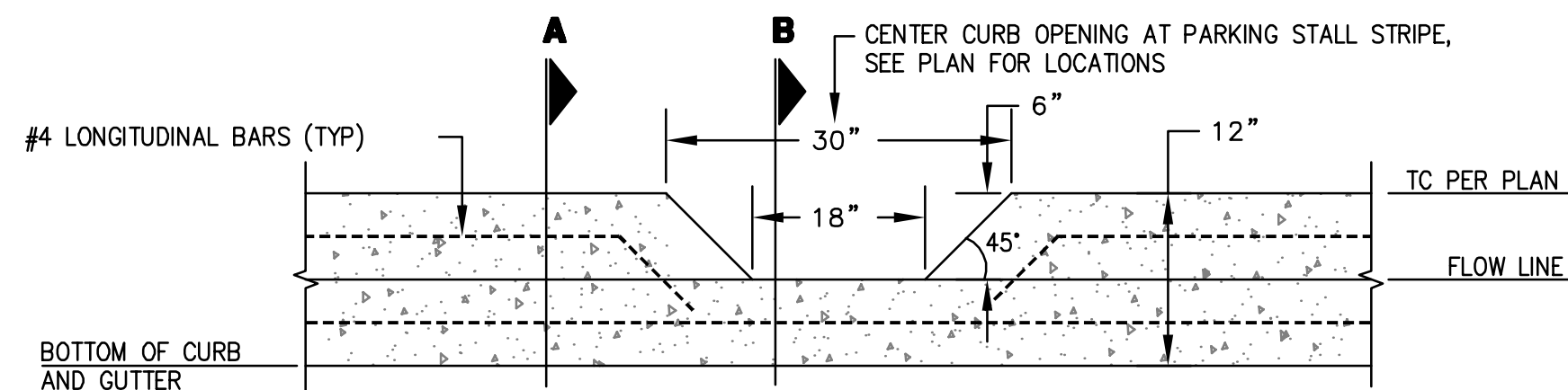
SECTION A



SECTION B



DETAIL 'A'

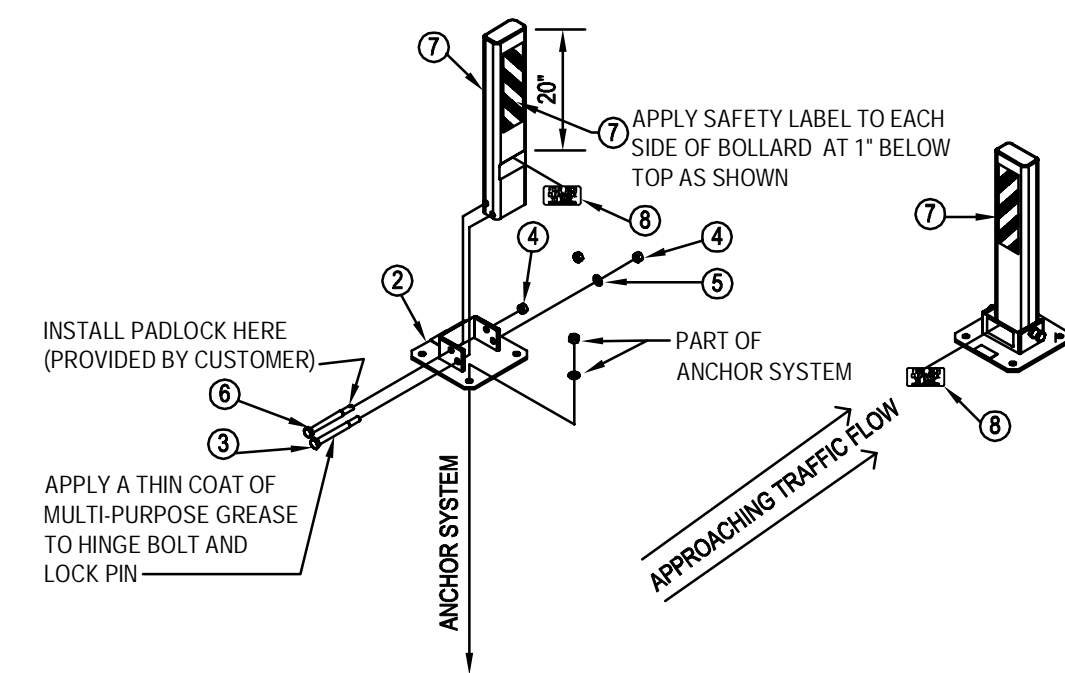


FRONT VIEW

1
—
CURB CUT
NTS



TRAFFICGUARD DIRECT, INC.
P.O. BOX 201
GENEVA, IL 30134
TOLL FREE: 1-877-727-7347
FAX: (800) 817-7194
www.trafficguard.net



ITEM	PART #	DESCRIPTION	QTY
1	1PHDHB1	1PHDHB POST	1
2	1PHDHB2	1PHDHB BASE	1
3	0010	Ø 3/4" x 8" HEX HEAD HINGE BOLT-18-8 SS	1
4	0008	Ø 3/4" HEX NUT-18-8 SS	2
5	0009	Ø 3/4" FLAT WASHER-TYPE A NARROW-18-8 SS	1
6	2007	Ø 3/4" x 8" HEX HEAD LOCKING PIN-18-8 SS	1
7	0107	SAFETY LABEL 3" x 12"	2
8	0102	FOUR INCH CLEARANCE LABEL	2

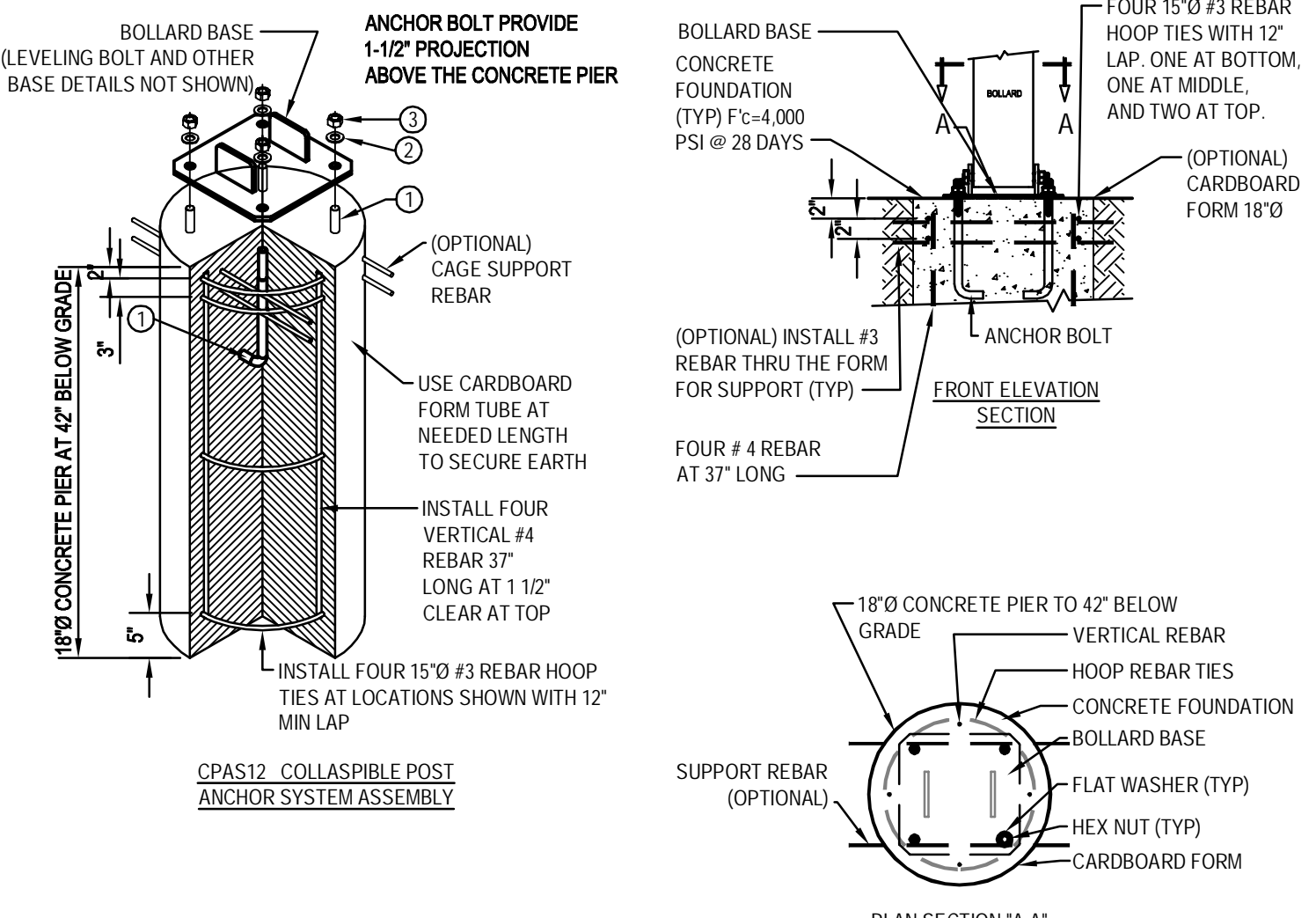
- NOTES:**
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
 - DO NOT SCALE DRAWING.
 - CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADDetails.com/info

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REVISION DATE 04/06/2016
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- LEGEND:**
- Ø 3/4" x 12" TYPE L ANCHOR BOLT-H.D.G.
 - Ø 3/4" TYPE A FLAT NARROW WASHER GALVANIZED STEEL
 - Ø 3/4" HEX NUT GALVANIZED STEEL

- NOTES:**
- THIS IS A GUIDELINE FOR ESTIMATING. SITE SPECIFIC CONDITIONS SHOULD BE VERIFIED.
 - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
 - DO NOT SCALE DRAWING.
 - CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADDetails.com/info

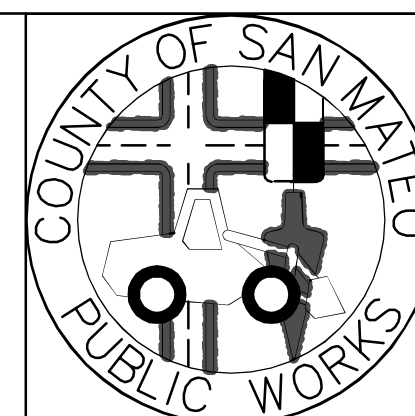
4209-002A
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REVISION DATE 04/06/2016
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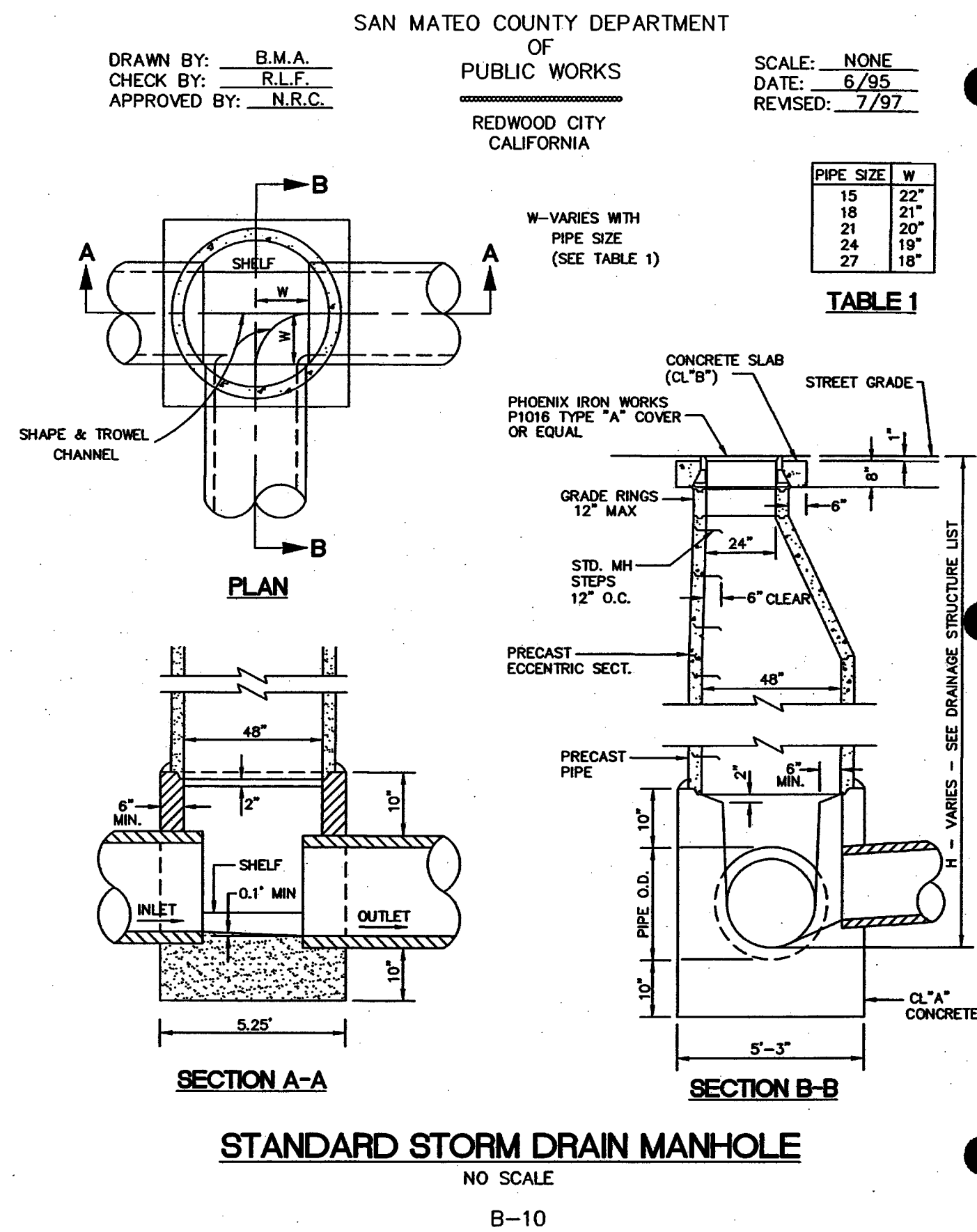
2
—
DROP-DOWN BOLLARD
NTS

APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

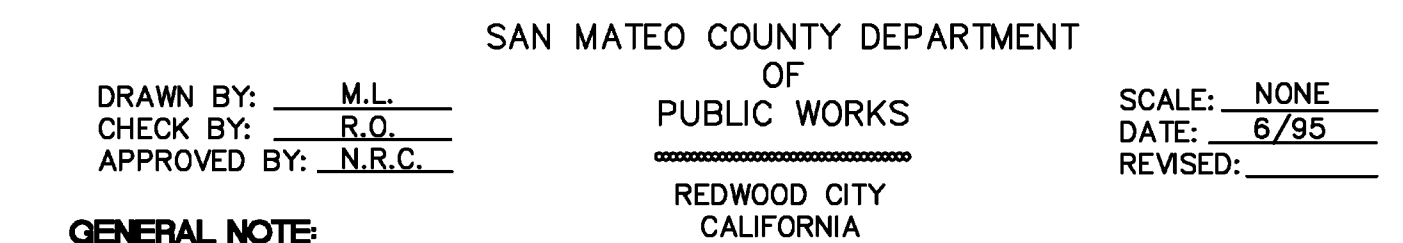
Bkf
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



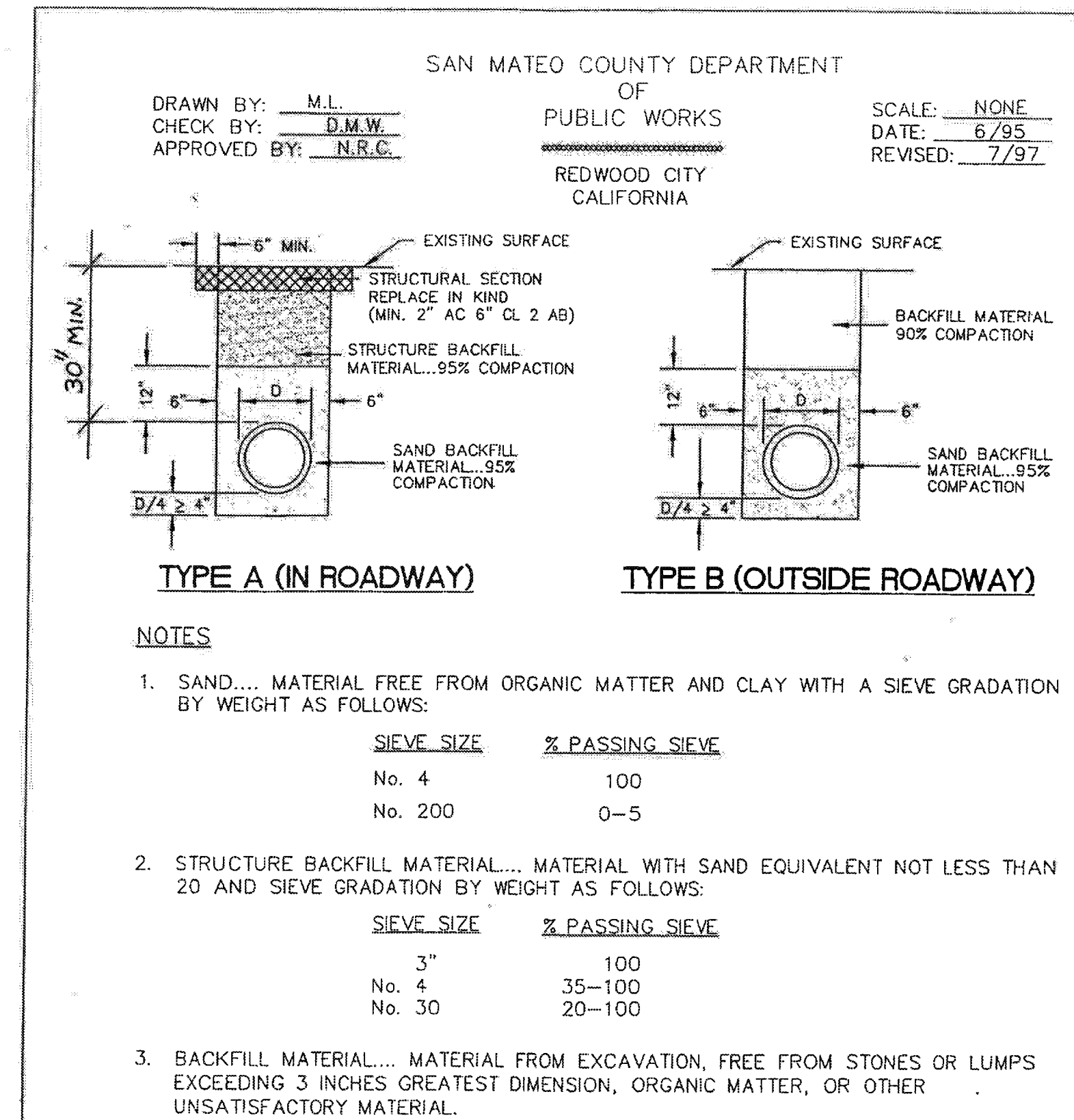
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CHECKED BY: JT	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AG	CONSTRUCTION DETAILS		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		C-2
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	
		0 1 2 3 4	
		SHEET 27 OF 58	



7
-
MANHOLE (PIPES 6" TO 21")
NTS



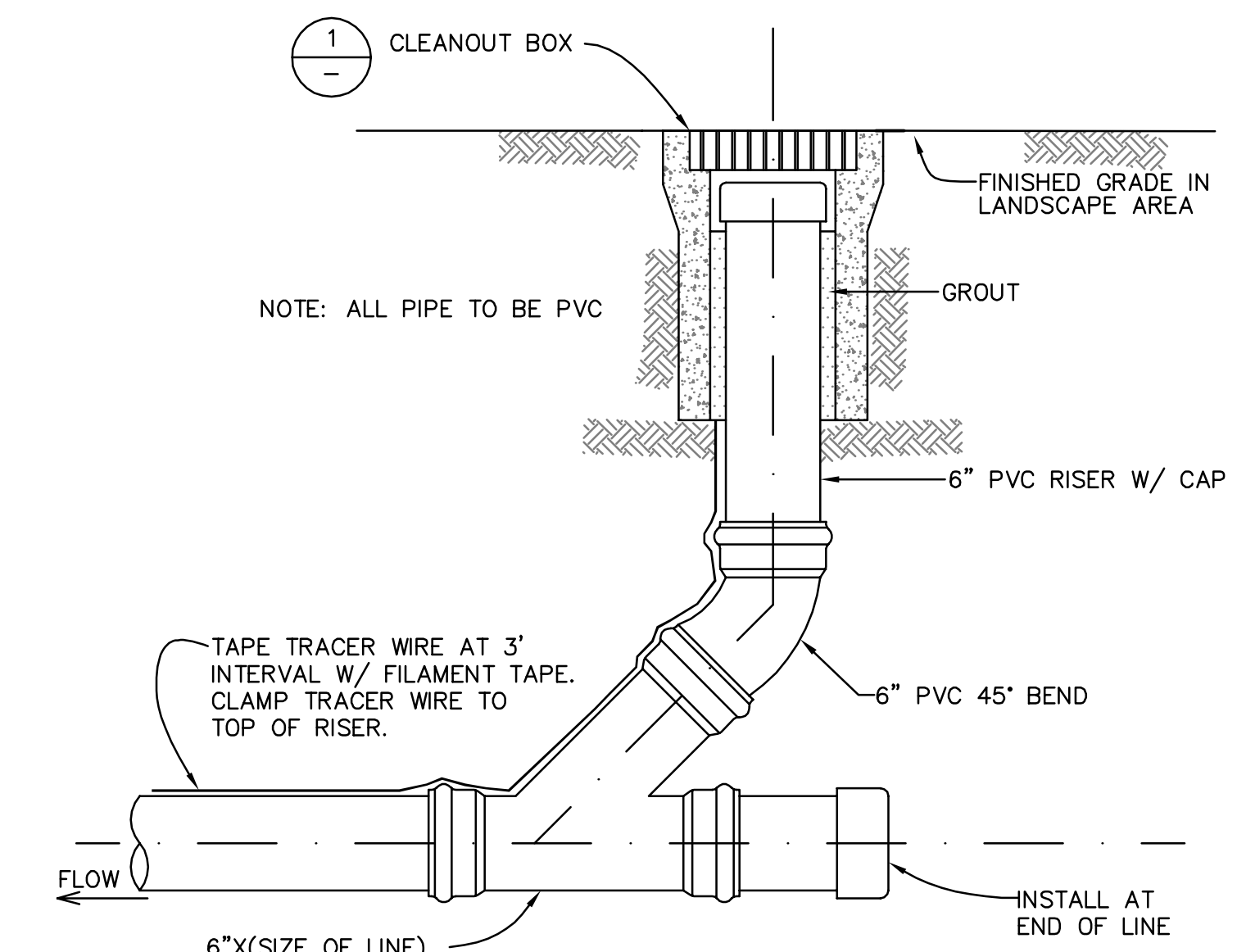
8
-
MANHOLE FRAME AND COVER
NTS



STANDARD TRENCH BACKFILL AND BEDDING DETAIL

W-10

7
-
SAN MATEO COUNTY STANDARD TRENCH BACKFILL & BEDDING DETAIL
NTS



6
-
END-OF-LINE CLEANOUT
NTS

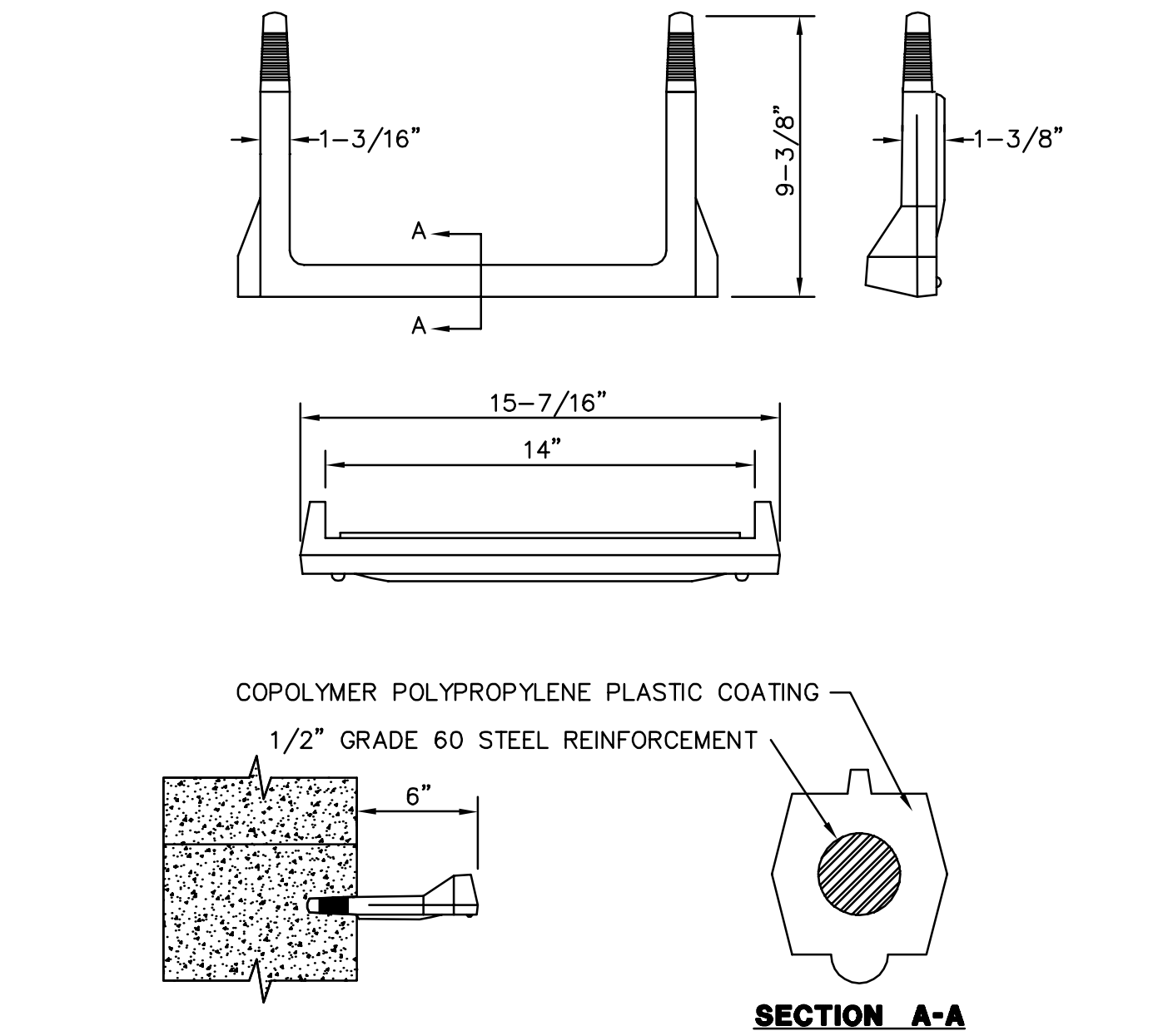
APPROVED DATE:

JONATHAN TANG, PROJECT MANAGER

BKF ENGINEERS

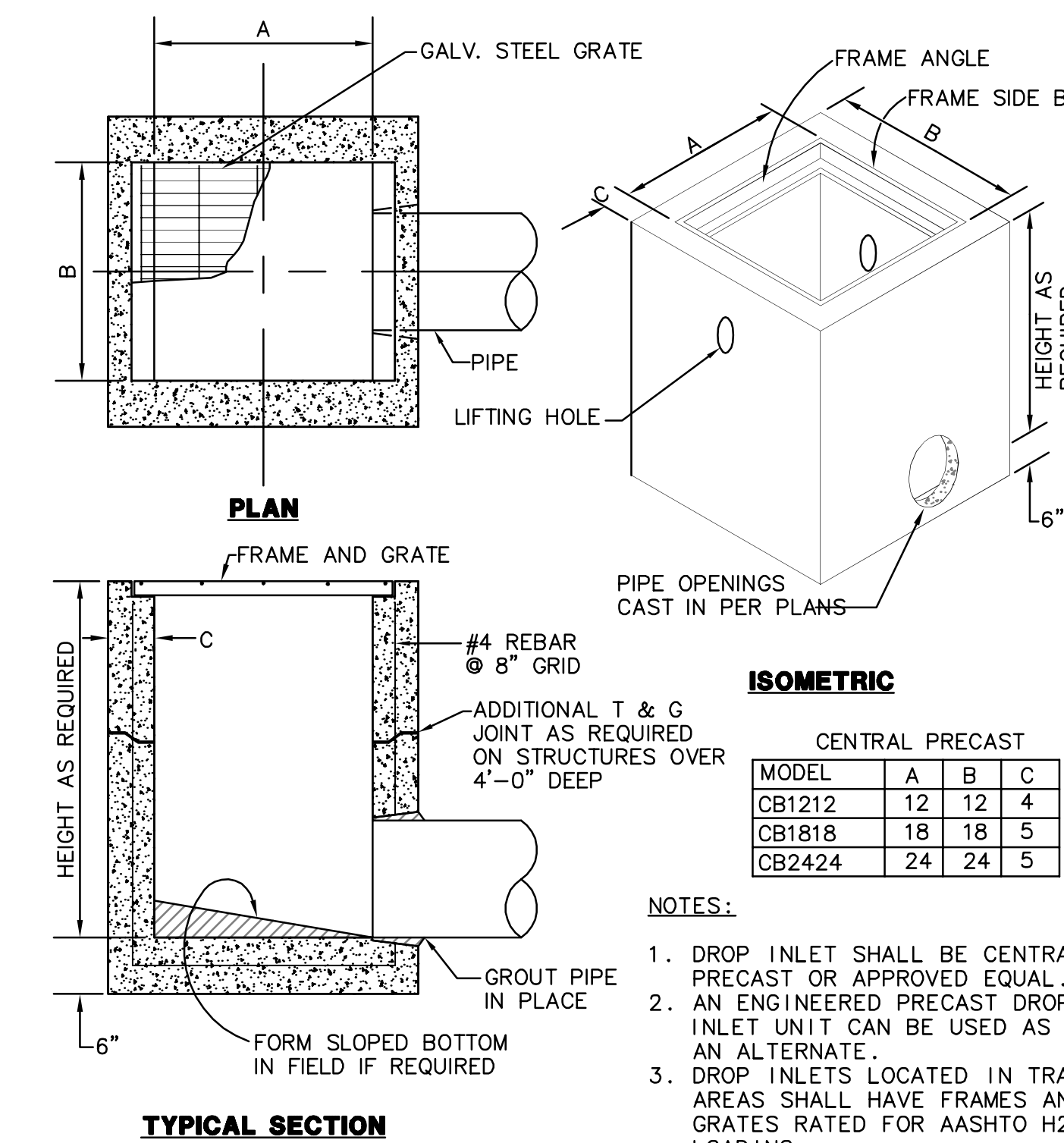
P.E. #C67726 / EXPIRES 6-30-2017

REGISTERED PROFESSIONAL ENGINEER
No. C67726
CIVIL
STATE OF CALIFORNIA



- NOTES
1. STEPS TO BE CAST IN PLACE DURING MANUFACTURE OF PRECAST PIPE RINGS.
2. INSERT STEPS THROUGH FORMWORK PRIOR TO POURING CAST-IN-PLACE STRUCTURES.
3. STEPS ARE AS MANUFACTURED BY M.A. INDUSTRIES, INC. OR EQUAL.

3
-
MANHOLE STEP FOR PRECAST MANHOLE
NTS



4
-
DROP INLET
NTS

BKF ENGINEERS / SURVEYORS / PLANNERS

255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300

COUNTY OF SAN MATEO
PUBLIC WORKS

DESIGNED BY: MD

CHECKED BY: JT

DRAWN BY: AG

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY

COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT
CONSTRUCTION DETAILS

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

SCALE: AS SHOWN

DATE: 9/9/2016

FILE NO.: E4948

REVISION

DATE

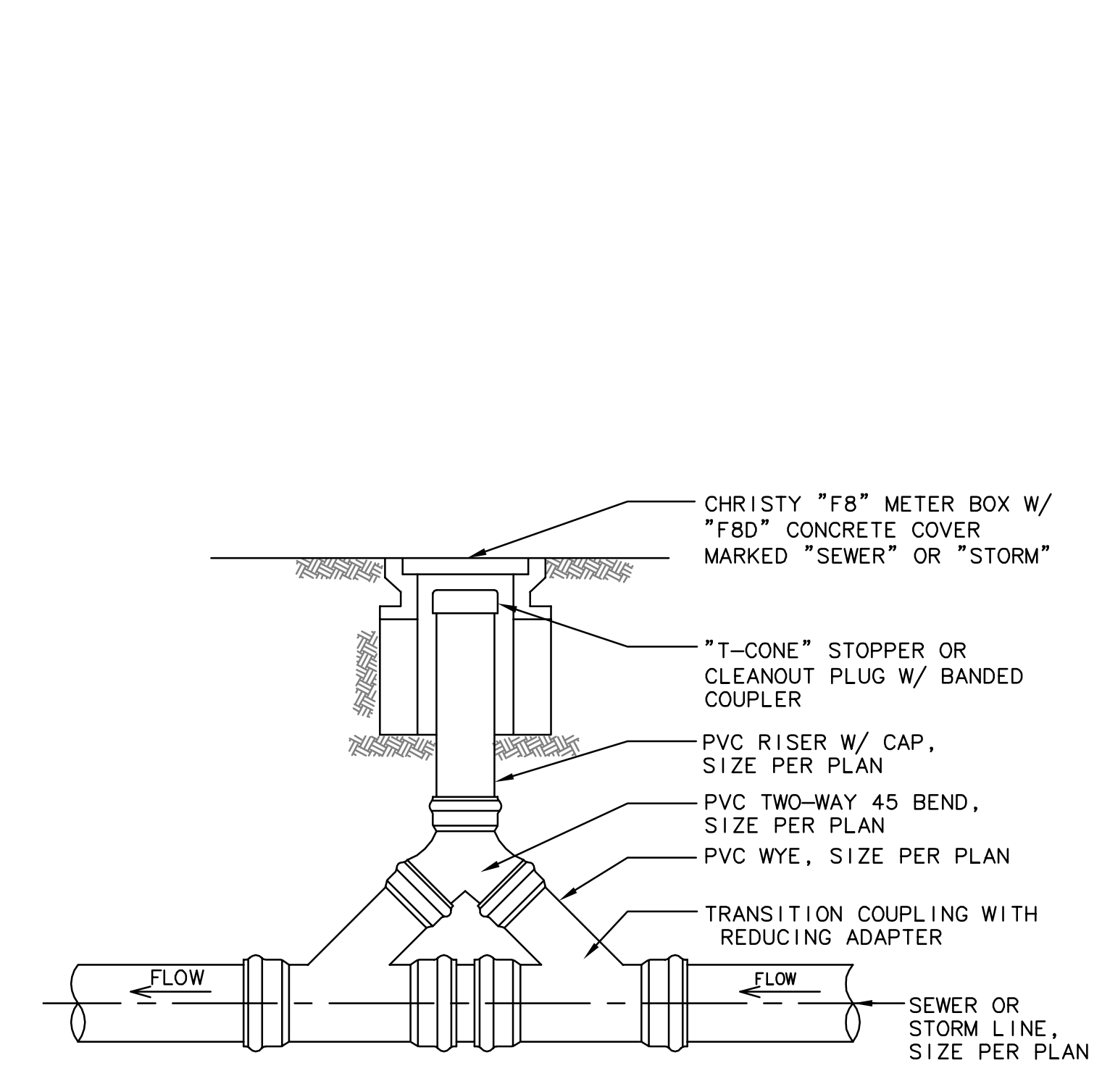
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3 4

C-3

SHEET 28 OF 58

1
-
CLEANOUT BOX
NTS



2
-
TWO-WAY CLEANOUT
NTS

CHRISTY "F8" METER BOX W/ "F8D" CONCRETE COVER MARKED "SEWER" OR "STORM"

"T-CONE" STOPPER OR CLEANOUT PLUG W/ BANDED COUPLER

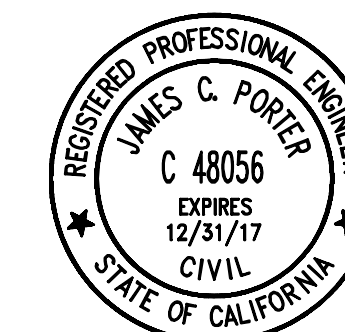
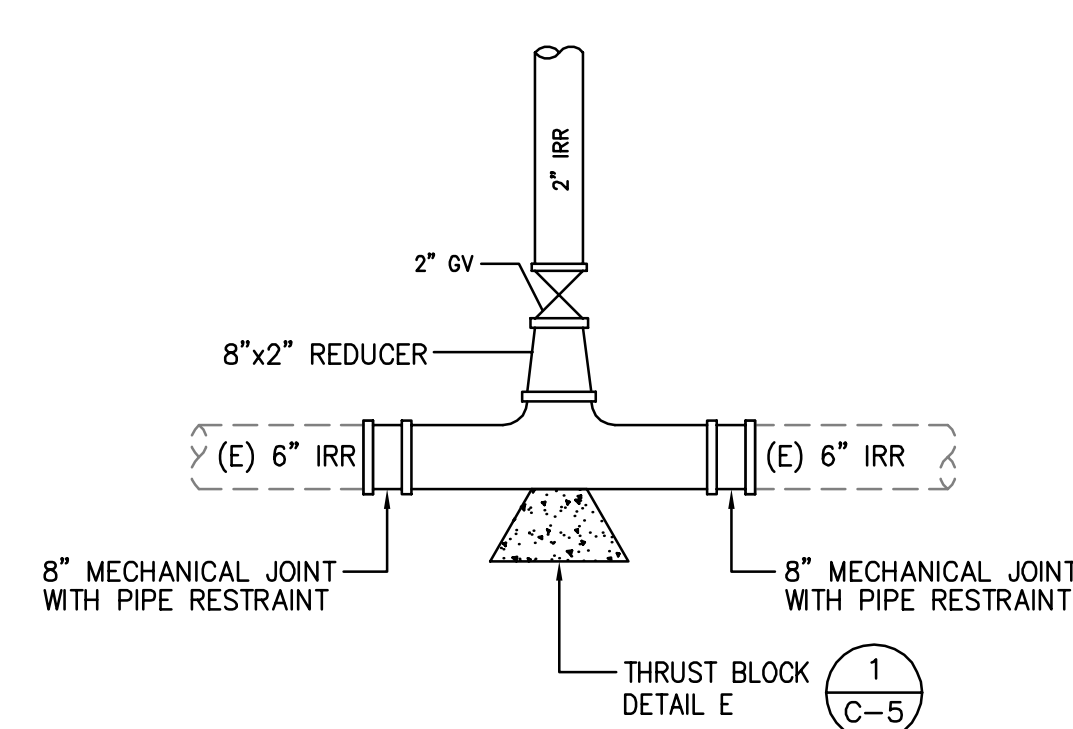
PVC RISER W/ CAP, SIZE PER PLAN

PVC TWO-WAY 45 BEND, SIZE PER PLAN

PVC WYE, SIZE PER PLAN

TRANSITION COUPLING WITH REDUCING ADAPTER

SEWER OR STORM LINE, SIZE PER PLAN



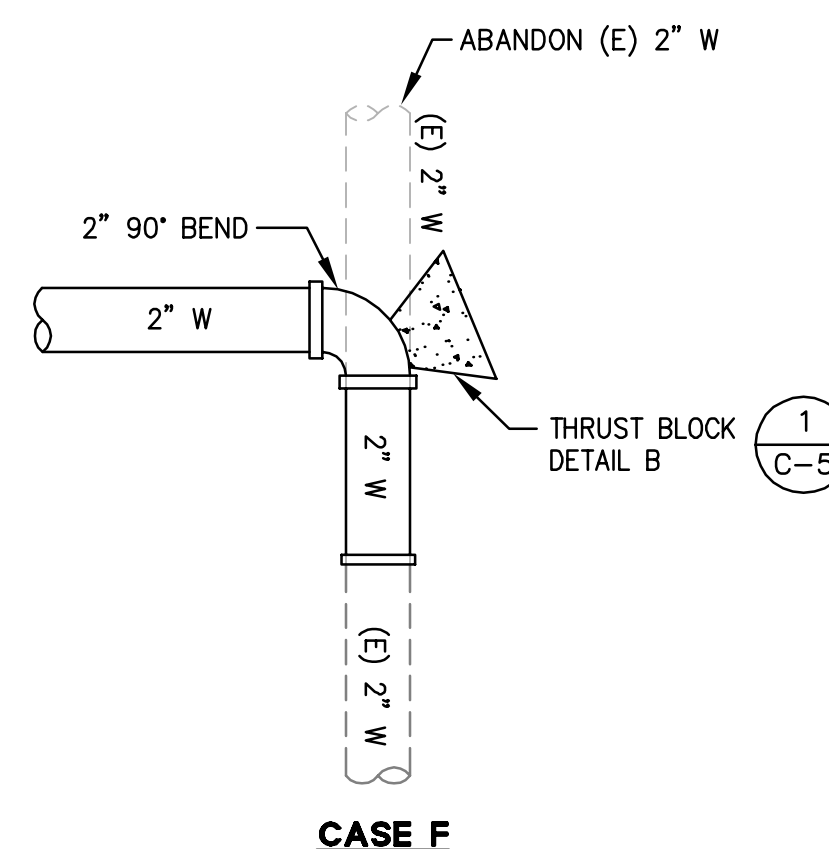
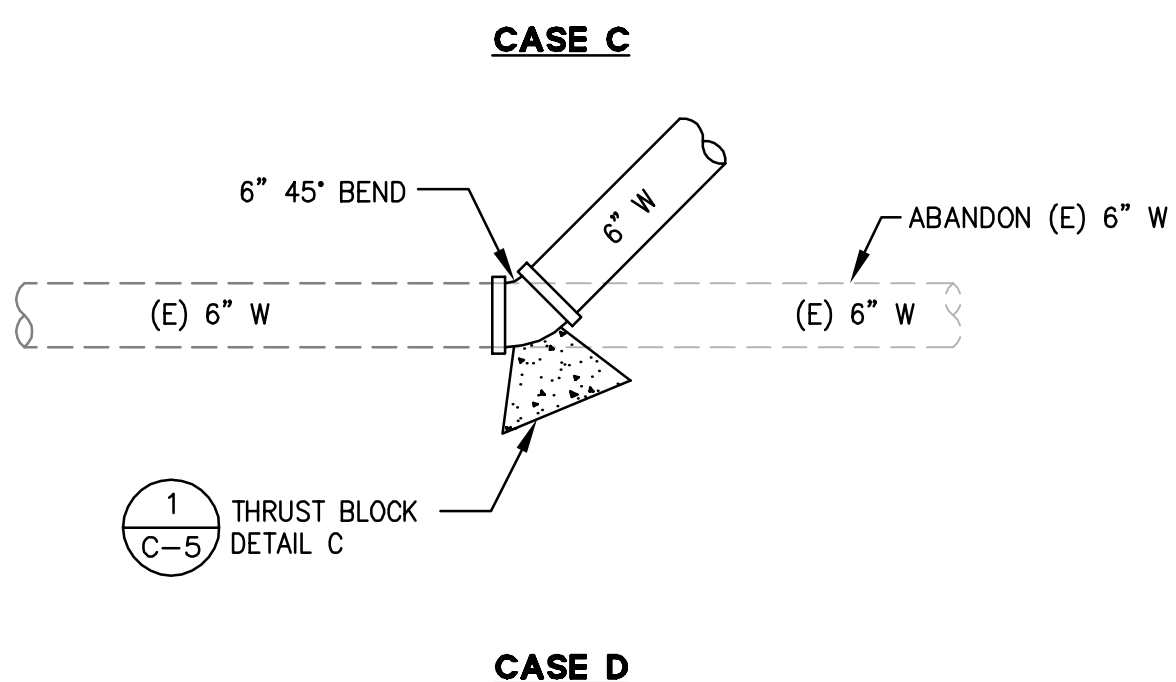
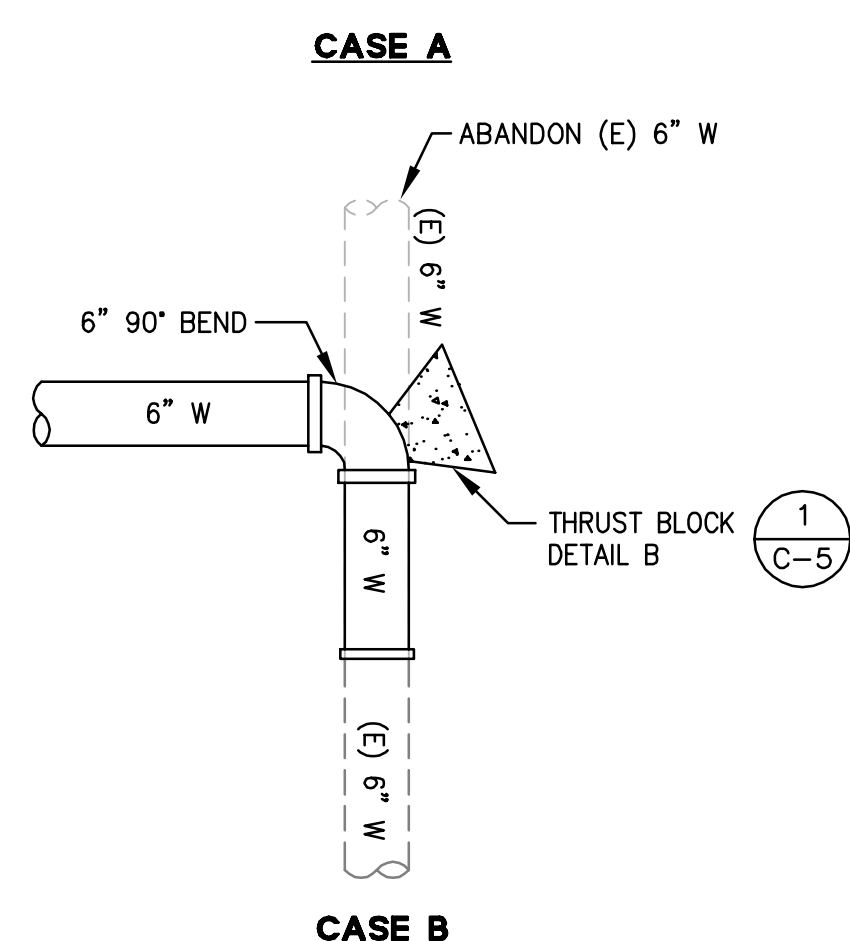
APPROVED:

DATE _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

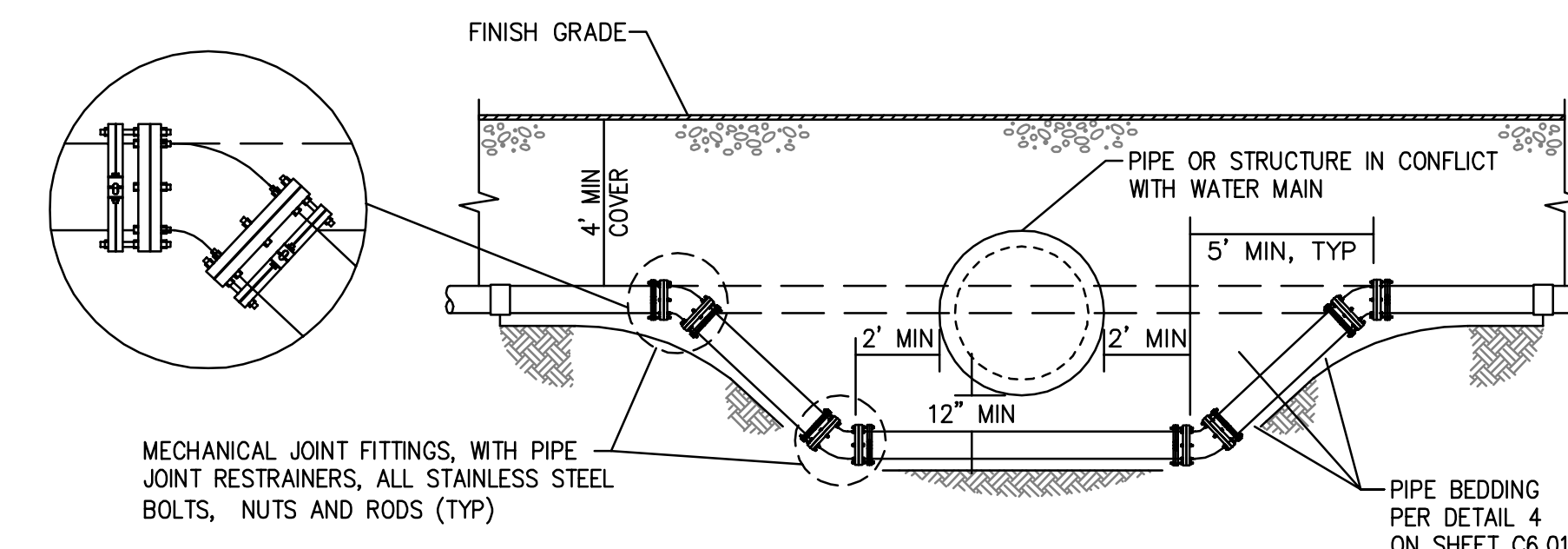
DATE _____

MARLENE FINLEY, DIRECTOR OF PARKS



NOTES:

1. CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED, SHOWN OR NOT, TO MAKE A COMPLETE WORKING SYSTEM CONNECTION.
2. CONTRACTOR SHALL VERIFY EXISTENCE OF HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN OR NOTED, AND ADJUST PIPELINE ALIGNMENT AND CONNECTIONS AS DIRECTED BY ENGINEER.
3. ALL SYSTEM CONNECTIONS SHALL BE MADE WITH COUNTY INSPECTOR PRESENT. COORDINATE WITH PARKS COUNTY STAFF FOR SHUTDOWN AND INSPECTION.
4. CONTRACTOR TO VERIFY OD AND PIPE MATERIAL OF EXIST MAIN AND INSTALL 6" TRANSITION COUPLET TO CONNECT DIFFERENT PIPE MATERIALS.
5. ALL ASBESTOS CEMENT PIPE SHALL BE PROPERLY HANDLED AND DISPOSED OF. SEE SPECIFICATIONS.



NOTES:

1. ALL BENDS SHALL BE 45 OR 22-1/2 FITTINGS, AS REQUIRED FOR PROPER HORIZONTAL SEPARATIONS.
2. PROVIDE WATER PIPE THRUST BLOCKS ACCORDING WATER LINE CONNECTION DETAILS, SHEET C-4 DETAIL 3.
3. IF WATERLINE IS UNDER SANITARY SEWER, NO JOINTS WITHIN 10' ON EITHER SIDE OF SANITARY SEWER.

3 WATER LINE CONNECTION DETAILS

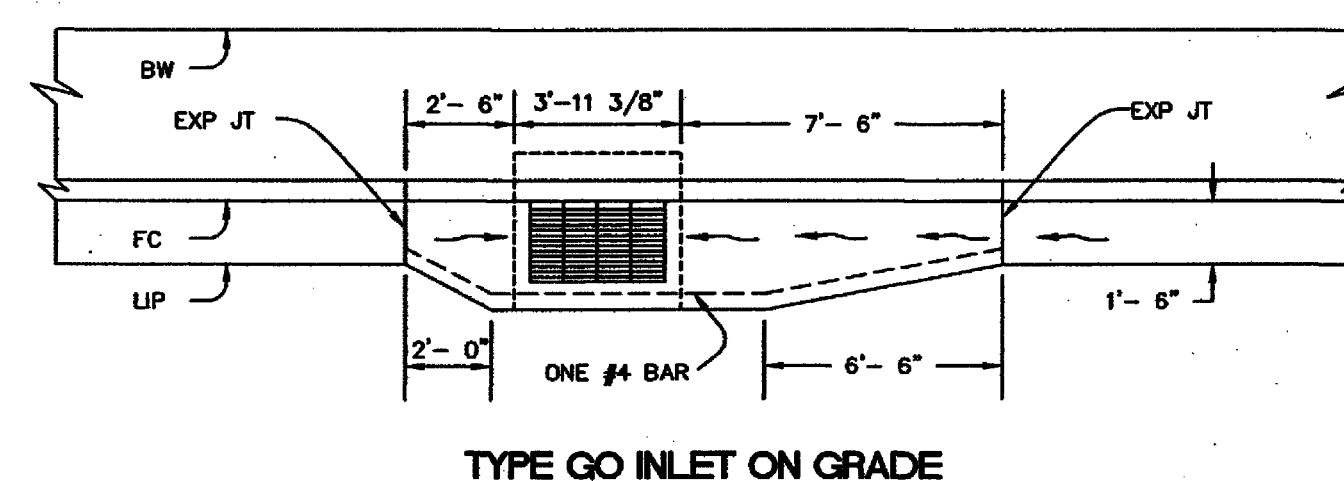
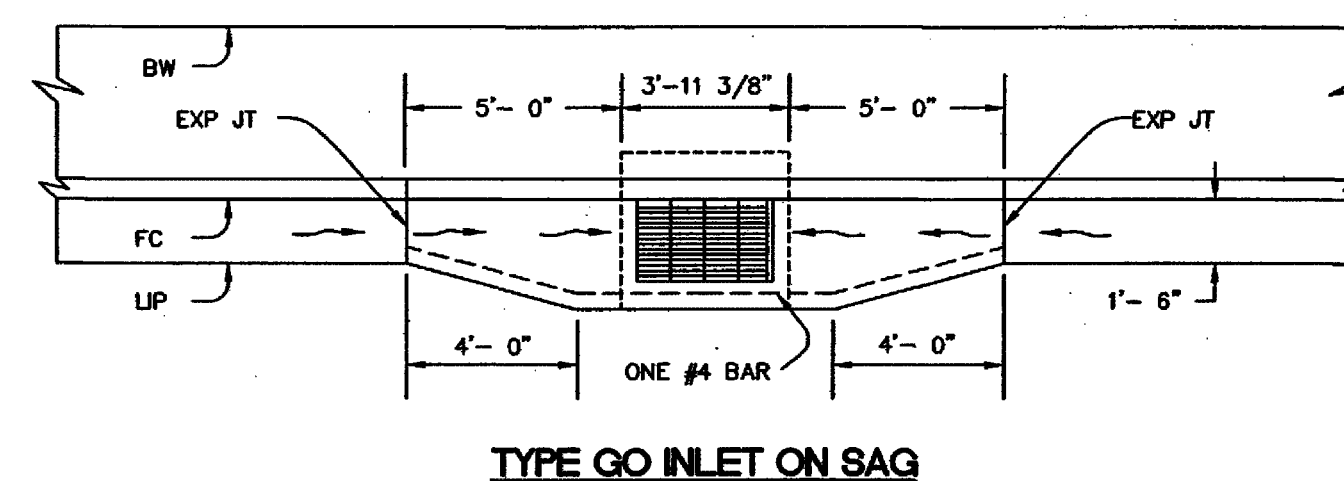
NT:

SAN MATEO COUNTY DEPARTMENT
OF
PUBLIC WORKS

REDWOOD CITY
CALIFORNIA

DRAWN BY: A.G.M.
CHECK BY: R.L.F.
APPROVED BY: N.R.C.

SCALE: NONE
DATE: 6/95
REVISED: _____

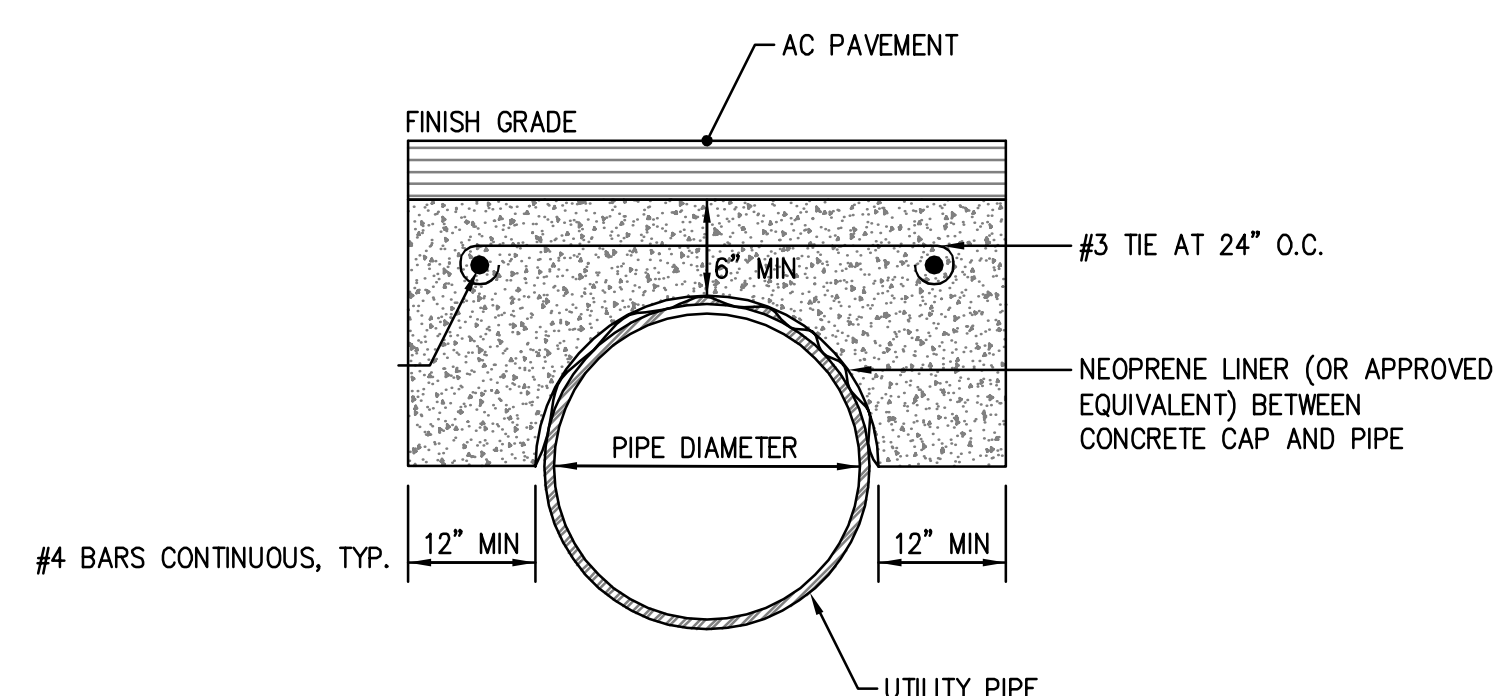


QUANTITY OF PCC FOR APRONS (CUBIC YARDS)		
INLET	ON GRADE	IN SAG
GO	0.3843	0.3880

APRON DETAILS

NO SCALE

B-1 (A)



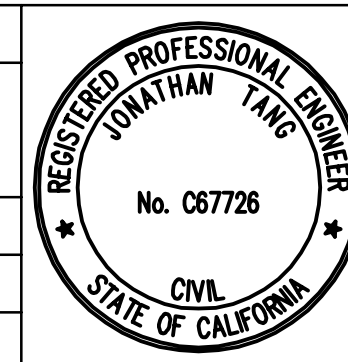
REINFORCED CONCRETE CAP

NTS

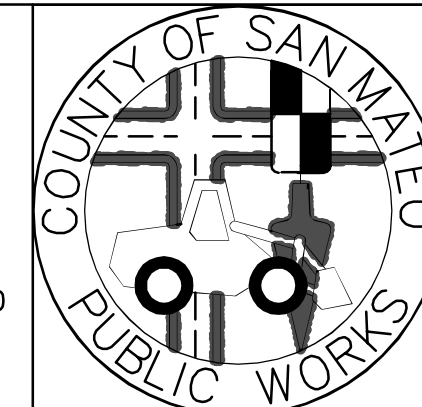
STORM DRAIN CATCH BASIN APRON DETAIL

NTS

APPROVED DATE:
JONATHAN TANG, PROJECT MANAGER
BKF ENGINEERS
P.E. #C67726 / EXPIRES 6-30-2017



255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



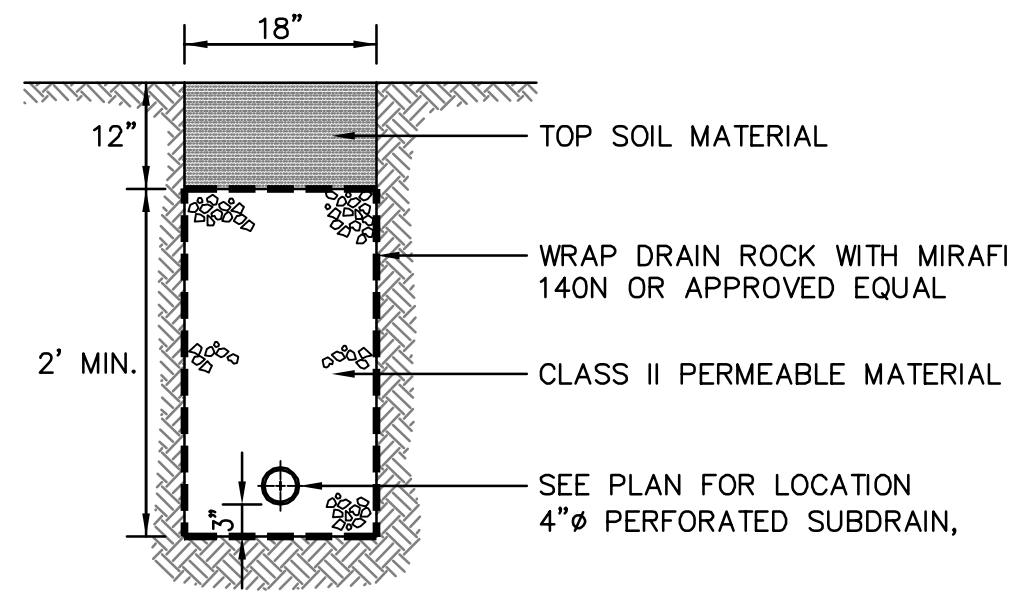
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		CHECKED BY: JT			DATE: 9/8/2016
		DRAWN BY: AG			FILE NO.: E4948
REVISION	DATE	JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY			555 COUNTY CENTER, 5TH FLOOR REDWOOD CITY, CALIFORNIA 94063
					C-4 SHEET 29 OF 58

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

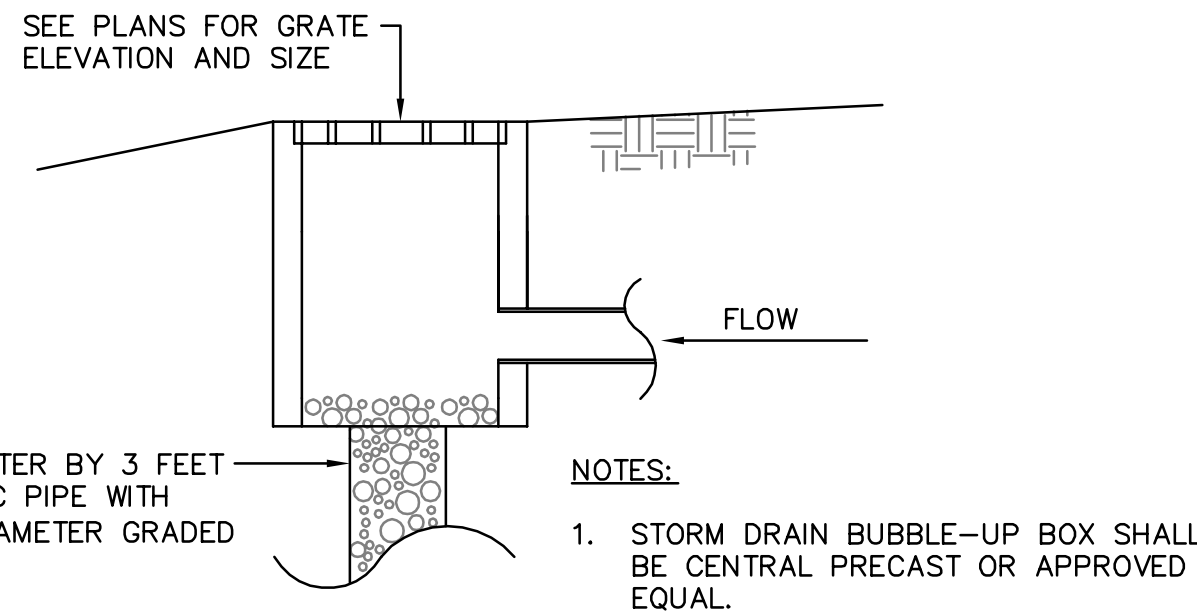
C-4

SHEET 29 OF 58

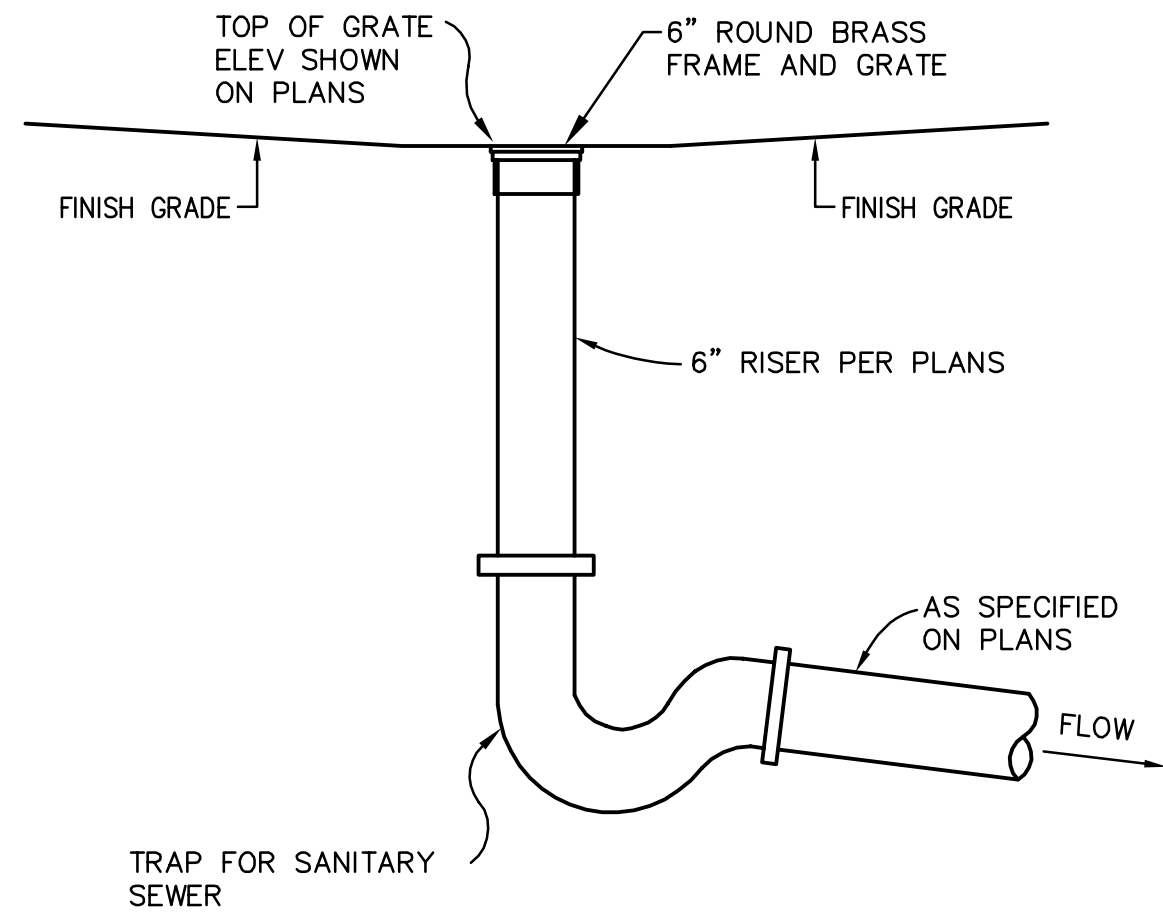
100% DESIGN SUBMITTAL - 9/9/2016



2
SUBDRAIN
NTS



3
STORM DRAIN BUBBLE-UP BOX
NTS



4
SANITARY SEWER AREA DRAIN WITH TRAP
NTS

OWNER / GENERAL CONTRACTOR AND PUBLIC RESTROOM COMPANY RESPONSIBILITIES

PRC (PUBLIC RESTROOM COMPANY)

1. PUBLIC RESTROOM COMPANY (PRC) WILL PROVIDE FULL ARCHITECTURAL PLANS AND ENGINEERING CALCULATIONS, STAMPED BY STATE GOVERNING AGENCY SUITABLE FOR GENERAL CONTRACTOR TO FILE FOR REQUIRED BUILDING PERMIT.

2. PUBLIC RESTROOM COMPANY WILL FURNISH AND INSTALL UNDERGROUND UTILITIES (UNDER SLAB) EXTENDING 6 FEET (MAX) BEYOND THE BUILDING LINE, MIN. OF 24" - MAX OF 36" BELOW GRADE.

GENERAL PAD NOTES:

1. THE DIFFERENCE IN THE ELEVATION BETWEEN THE FINISH FLOOR OF RESTROOMS AND THE SIDEWALK OUTSIDE CAN NOT BE GREATER THAN 1/4" MAX.

2. THE STRUCTURAL DESIGN DETAILS HEREIN ARE SPECIFIC TO THE BUILDING SIZE AND MODULE CONFIGURATION SHOWN ON THE FLOOR PLANS OF THESE DRAWINGS.

3. PUBLIC RESTROOM COMPANY WILL PROVIDE LOCATION OF THIS BUILDING TO MEET ALL REQUIRED PROPERTY CODE SETBACKS PER LOCAL JURISDICTION.

1. OWNER / GEN. CONTRACTOR SHALL PREPARE BUILDING PAD PER DETAILS ON THIS SHEET AND SCOPE OF WORK.

2. OWNER / GEN. CONTRACTOR SHALL ATTACH SITE PLAN TO THE PUBLIC RESTROOM COMPANY'S DEPARTMENT OF HOUSING APPROVED DOCUMENTS AND FILE BUILDING PERMIT FOR PLUMBING PERMIT/INSPECTION UNDER BUILDING SLAB

3. OWNER / GEN. CONTRACTOR TO COORDINATE SEWER INVERT WITH THE PUBLIC RESTROOM COMPANY PRIOR TO BUILDING INSTALLATION, VERIFY & COORDINATE LOCATION OF EXISTING UTILITIES INCLUDING WATER METER SIZE, TYPE, AND LOCATION OF EXITING UTILITIES COMING INTO THE BUILDING SUPPLIED BY PRC

4. OWNER / GEN. CONTRACTOR IS RESPONSIBLE FOR UTILITY CONNECTIONS AND WILL MAKE FINAL CONNECTIONS TO SEWER, WATER AND POWER.

5. OWNER / GEN. CONTRACTOR TO PREPARE SITE FOR MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1,500psf, WITH SUB-GRADE COMPACTED TO 90% M.D.D.

6. OWNER / GEN. CONTRACTOR TO SUPPLY AND STOCK PILE REQUIRED QUANTITY OF COARSE SAND WITHIN BUILDING PROXIMITY FOR USE BY PRC. (ELEVATION OF BASE TO BE DETERMINED AND VERIFIED BY THE GENERAL CONTRACTOR) PAD ELEVATION MUST BE LEVEL WITHIN 2% (±) AND COMPLY WITH ALL PERMISSIBLE CODES OF ACCESSIBILITY AND SAFETY. BEFORE BUILDING SET WET SAND FILL TO CONSOLIDATE AND / OR VIBRATE.

7. PROJECTS WITH FOOTINGS: OWNER / GEN. CONTRACTOR MUST PROVIDE SLEEVES IN FOOTINGS ACCORDING TO UTILITY LOCATION PLAN AND PAD / FOUNDATION PLAN DIRECTION.

GENERAL SITE CONDITION LIABILITY NOTE:

PUBLIC RESTROOM COMPANY (PRC) PROVIDES BUILDING PAD PLAN DRAWINGS FOR PLACEMENT OF OUR BUILDING ON SITE PADS FOR **REFERENCE ONLY**. PRC DRAWINGS DO NOT INCORPORATE SITE DESIGN FOR LOCAL CODES, SOILS CONDITIONS, FOOTING REQUIREMENTS, AND/OR ANY OTHER CONTRIBUTING SITE FACTORS UP TO AN INCLUDING HIGH WATER TABLES. IT IS THE RESPONSIBILITY OF THE OWNER OR GENERAL CONTRACTOR TO PROVIDE A PROPER SITE DESIGN TO ACCOMMODATE THE BUILDING AS WELL AS PROVIDE PROPER SITE CRITERIA SO PRC MAY MODEL SEWER, WATER, AND ELECTRICAL DESIGNS WITHIN THE BUILDING. OUR BUILDING DESIGN INCLUDES AN 8" THICK REINFORCED CONCRETE SLAB AND ASSUMES FULL SLAB BEARING ON SOILS WITH A MINIMUM OF 1500 PSF BEARING CAPACITY. OUR BUILDING DESIGNS BURCHARGE THE SOIL BENEATH THE MAT SLAB AT APPROXIMATE 208 PSF. ANY BUILDING FOUNDATION IN ADDITION TO THE INTEGRAL MAT SLAB ARE SHOWN FOR **REFERENCE ONLY** AND SHOULD BE VERIFIED BY A LICENSED SOILS ENGINEER TO CONFORM WITH REQUIRED CODES. **PRC ASSUMES NO LIABILITY FOR THE OWNER OR GENERAL CONTRACTOR ACCEPTANCE OF THESE TYPICAL DRAWINGS WITHOUT VERIFICATION BY A LICENSED SOILS / FOUNDATION ENGINEER.**

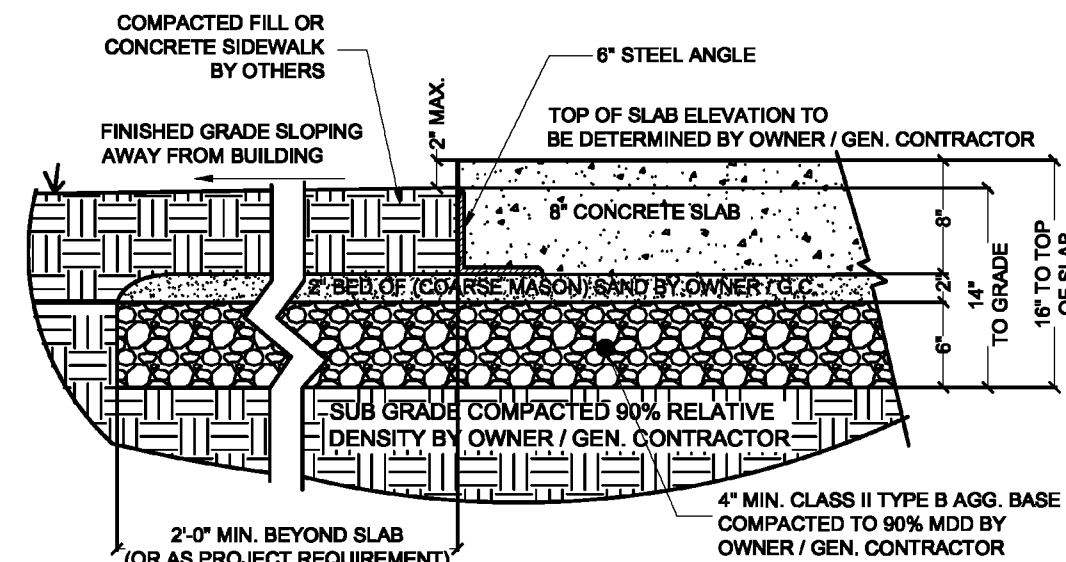


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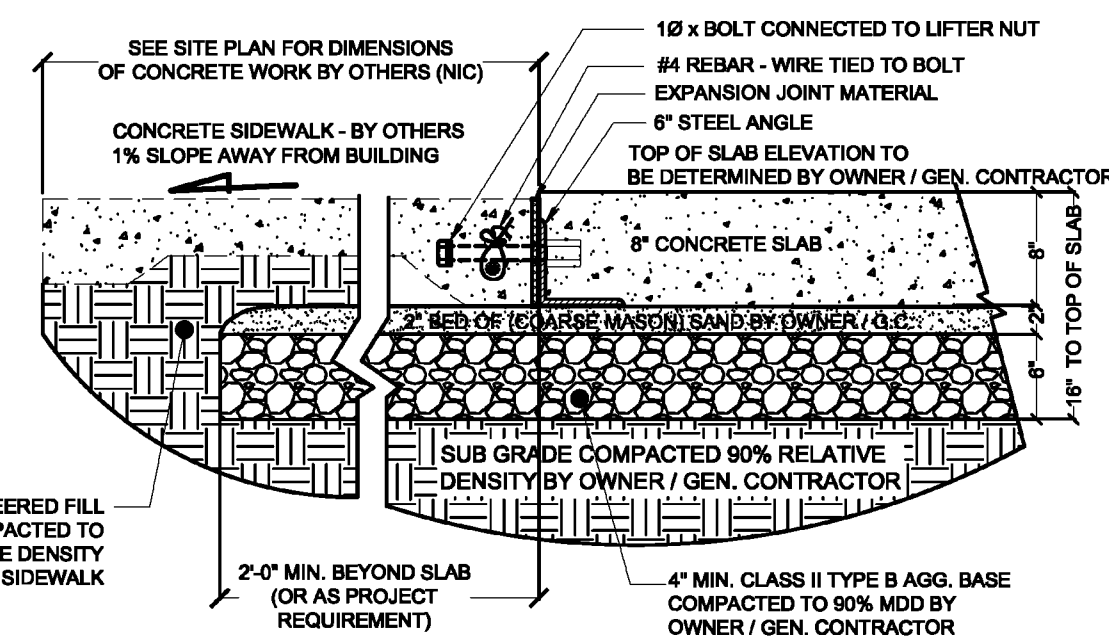
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PROJECT: **COYOTE POINT RECREATION AREA
COUNTY OF SAN MATEO , CA**

REVISION BY: REVISION DATE: REVISION #
DATE: 09-07-2016 DRAWN BY: EYE
PROJECT #: **9827**
MAXIMUM PERSON AN HOUR: **405 M**

Plt: 888-888-2060 | Fax: 888-888-4448 -NOT FOR CONSTRUCTION - PRELIMINARY DESIGN DRAWING ONLY - DO NOT SCALE, DIMENSIONS PRESIDE



SECTION DETAIL FOR " NO SIDEWALK "



SECTION DETAIL FOR " SIDEWALK "



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BUILDING TYPE: **RESTROOM / STORAGE BUILDING**
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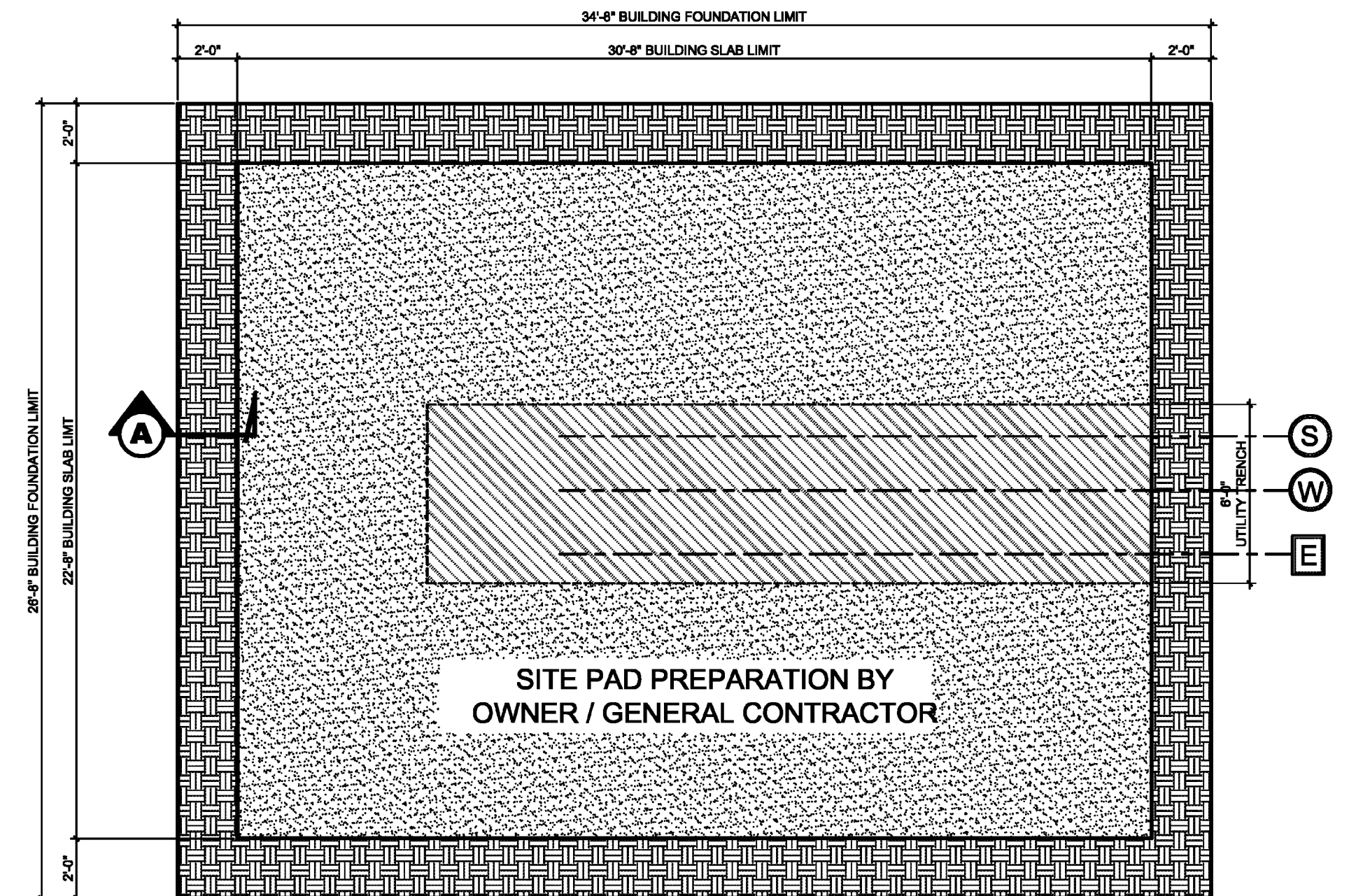
REVISION BY: REVISION DATE: REVISION #
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Plt: 888-888-2060 | Fax: 888-888-4448 -NOT FOR CONSTRUCTION - PRELIMINARY DESIGN DRAWING ONLY - DO NOT SCALE, DIMENSIONS PRESIDE

TYPICAL SUB-GRADE/ PAD SECTION DETAIL

A

SEE GENERAL SITE CONDITION LIABILITY
NOTE ON " PAD PREPARATION
RESPONSIBILITY" PAGE



PAD PREPARATION PLAN

SCALE: NOT TO SCALE

SEE GENERAL SITE CONDITION LIABILITY NOTE ON " PAD PREPARATION RESPONSIBILITY" PAGE



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BUILDING TYPE: **RESTROOM / STORAGE BUILDING**
PROJECT: **COYOTE POINT RECREATION AREA
COUNTY OF SAN MATEO , CA**

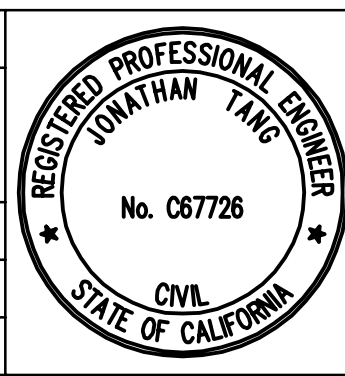
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DATE: 09-07-2016 DRAWN BY: EYE
PROJECT #: **9827**
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Plt: 888-888-2060 | Fax: 888-888-4448 -NOT FOR CONSTRUCTION - PRELIMINARY DESIGN DRAWING ONLY - DO NOT SCALE, DIMENSIONS PRESIDE

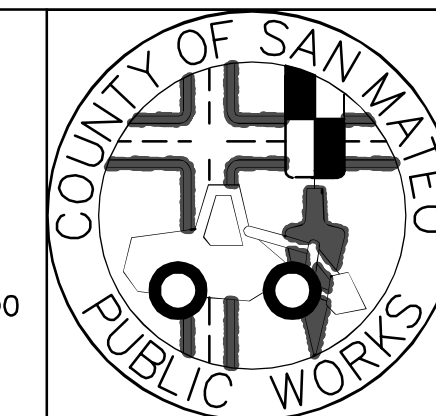
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RESTROOM PAD PREPARATION DETAIL
NTS

APPROVED DATE:

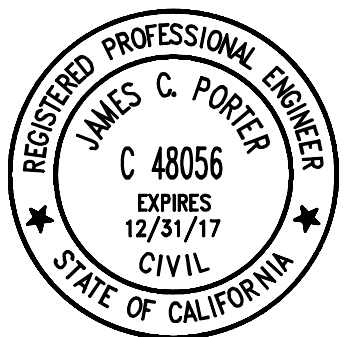
JONATHAN TANG, PROJECT MANAGER
BKF ENGINEERS
P.E. #C67726 / EXPIRES 6-30-2017



BKF
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: MD	COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT CONSTRUCTION DETAILS	SCALE: AS SHOWN
CHECKED BY: JT		DATE: 9/9/2016
DRAWN BY: AG		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		C-5 SHEET 30 OF 58



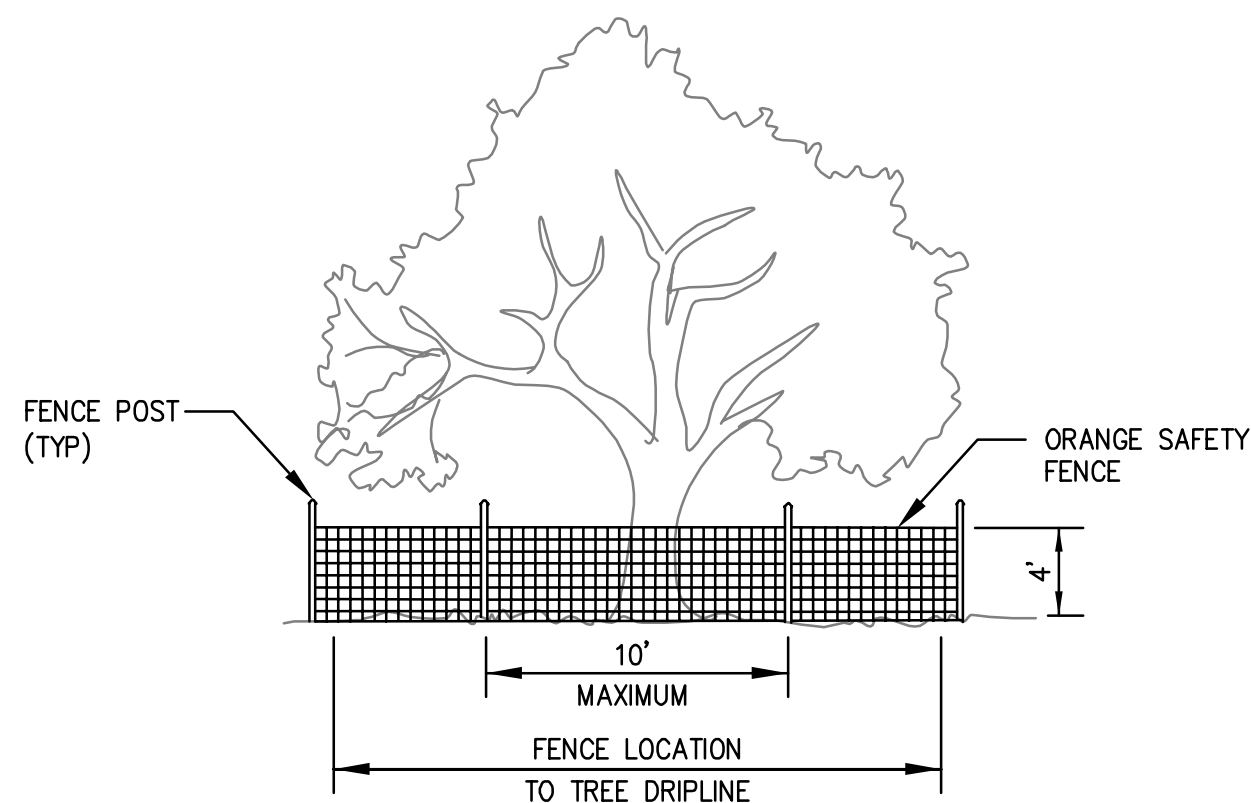
APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

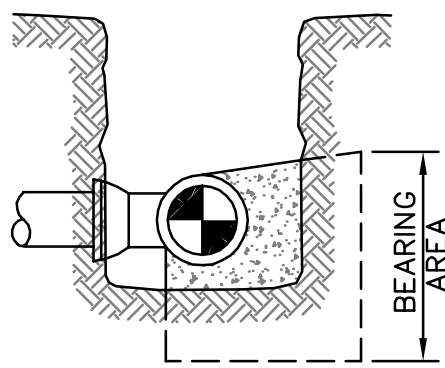
MARLENE FINLEY, DIRECTOR OF PARKS



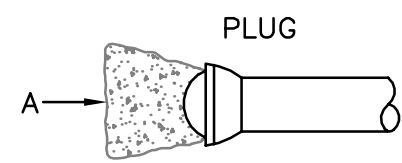
5
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TREE PROTECTION FENCE

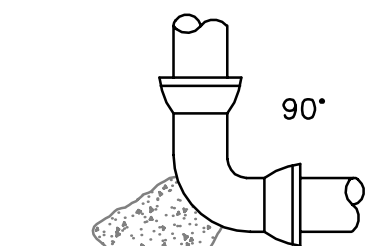
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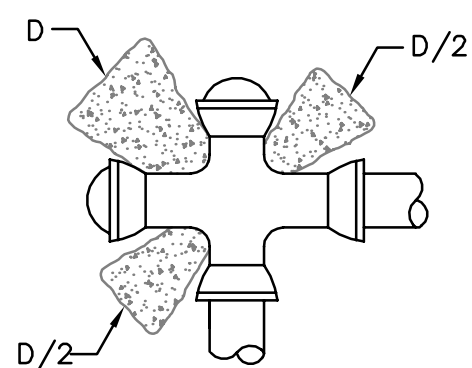
TYPICAL SECTION



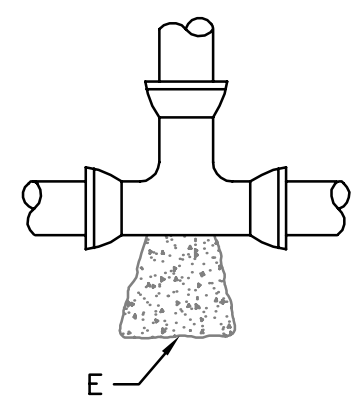
DETAIL A



DETAIL B

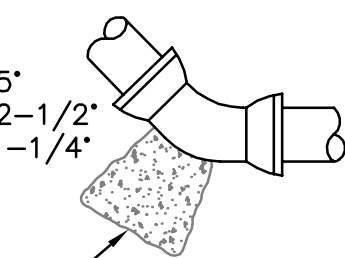


DETAIL D

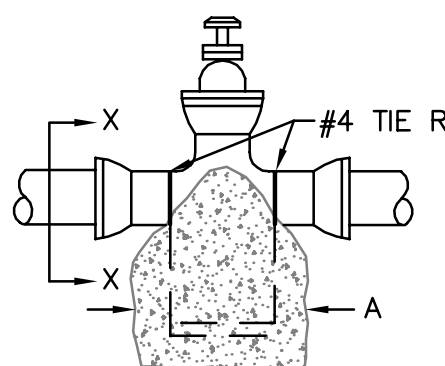


DETAIL E

C₁ = 45°
C₂ = 22-1/2°
C₃ = 11-1/4°

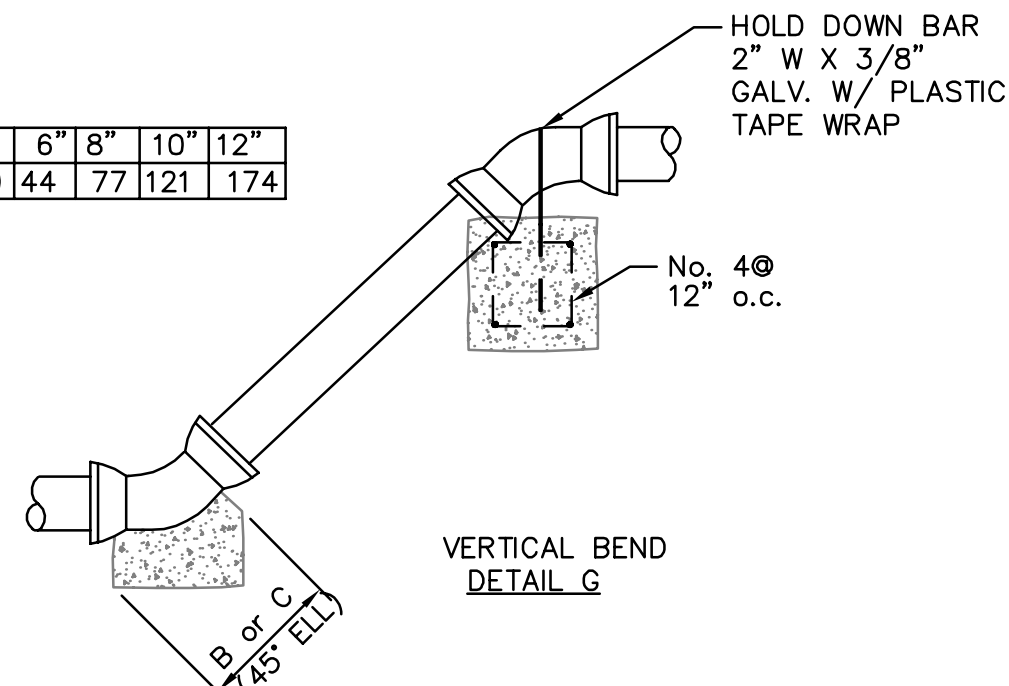


DETAIL C



SECTION X-X
DETAIL F

CU. FT. (C)	4"	6"	8"	10"	12"
	20	44	77	121	174



VERTICAL BEND
DETAIL G

REQUIRED BEARING AREAS (SQUARE FEET)							
PIPE SIZE	A	B	C1	C2	C3	D	E
4"	4.0	3.0	2.0	1.0	1.0	2.0	4.0
6"	9.0	6.0	4.0	2.0	1.0	4.0	9.0
8"	16.0	11.0	6.0	3.0	2.0	6.0	16.0
10"	24.0	17.0	10.0	5.0	3.0	10.0	24.0
12"	34.0	24.0	13.0	7.0	4.0	13.0	34.0
14"	47.0	33.0	18.0	10.0	5.0	18.0	47.0
16"	61.0	43.0	24.0	12.0	6.0	24.0	61.0
18"	77.0	54.0	30.0	15.0	7.0	30.0	77.0

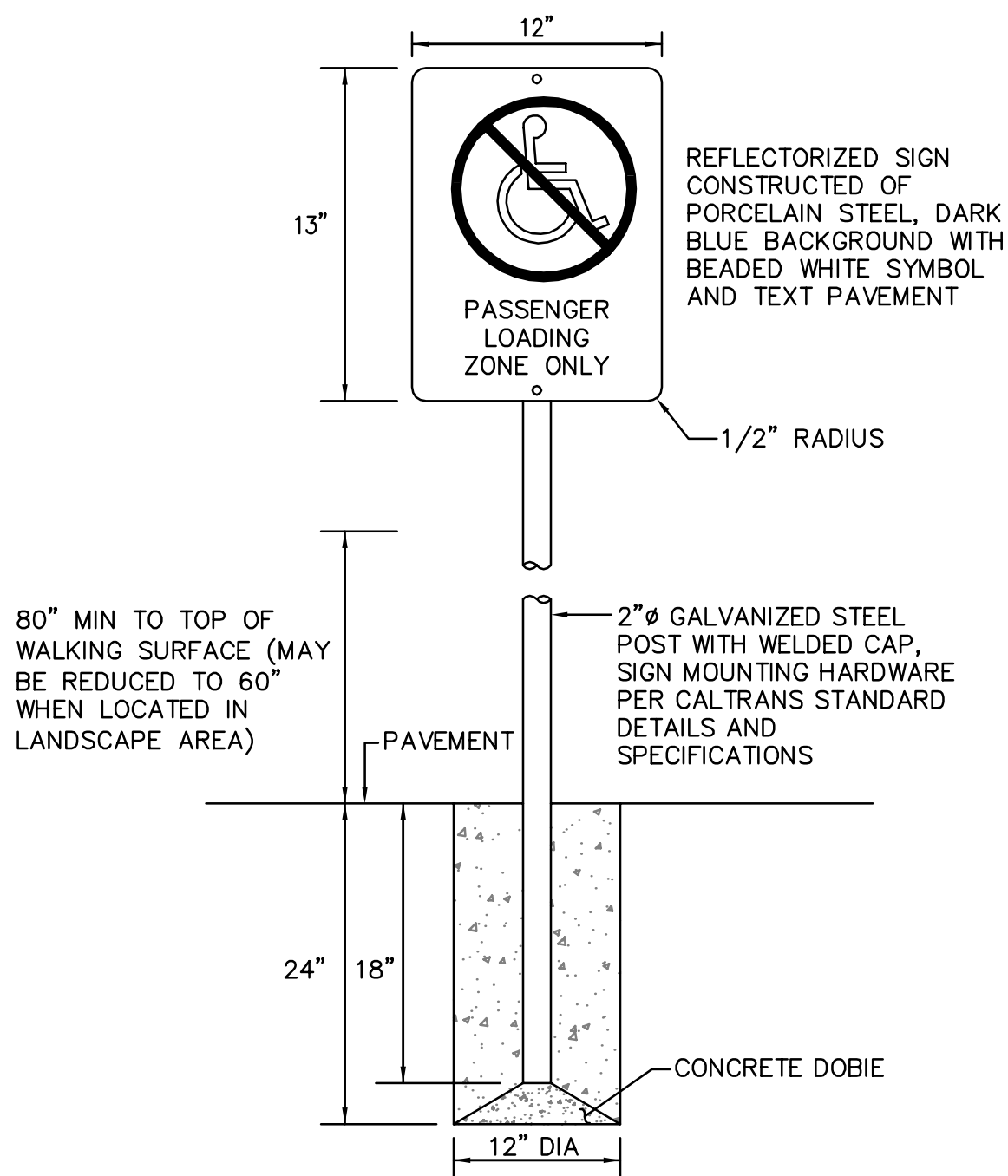
NOTES:

- CONCRETE SHALL BE PCC.
- FORM SURFACES OF CONCRETE NOT CAST AGAINST EARTH. KEEP CONCRETE OFF MECHANICAL JOINTS AND FLANGE BOLTS.
- LETTERS ON DETAILS REFER TO MINIMUM REQUIRED BEARING AREA AS INDICATED IN THE TABLE ABOVE. CALCULATION OF BEARING AREAS IS BASED ON 300 PSI WATER TEST PRESSURE AND 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE.
- THRUST BLOCKS FOR CASES NOT SHOWN SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- POUR THRUST BLOCKS AGAINST UNDISTURBED EARTH OR ENGINEERED FILL.
- THE BARS SHOWN IN DETAIL F WILL BE USED WHEN BEARING AREA IS NOT SYMMETRICAL ABOUT PIPE.
- USE DETAIL G FOR THRUST RESTRAINT OF 11-1/4° AND 22-1/2° VERTICAL BENDS. VERTICAL BENDS GREATER THAN 22-1/2° SHALL BE AS DIRECTED BY THE ENGINEER. TABLE FOR VERTICAL BENDS INDICATES VOLUME OF CONCRETE IN CUBIC FEET.

6
-

WATER MAIN THRUST BLOCK

NTS



2
-

"PASSENGER LOADING ONLY" SIGN

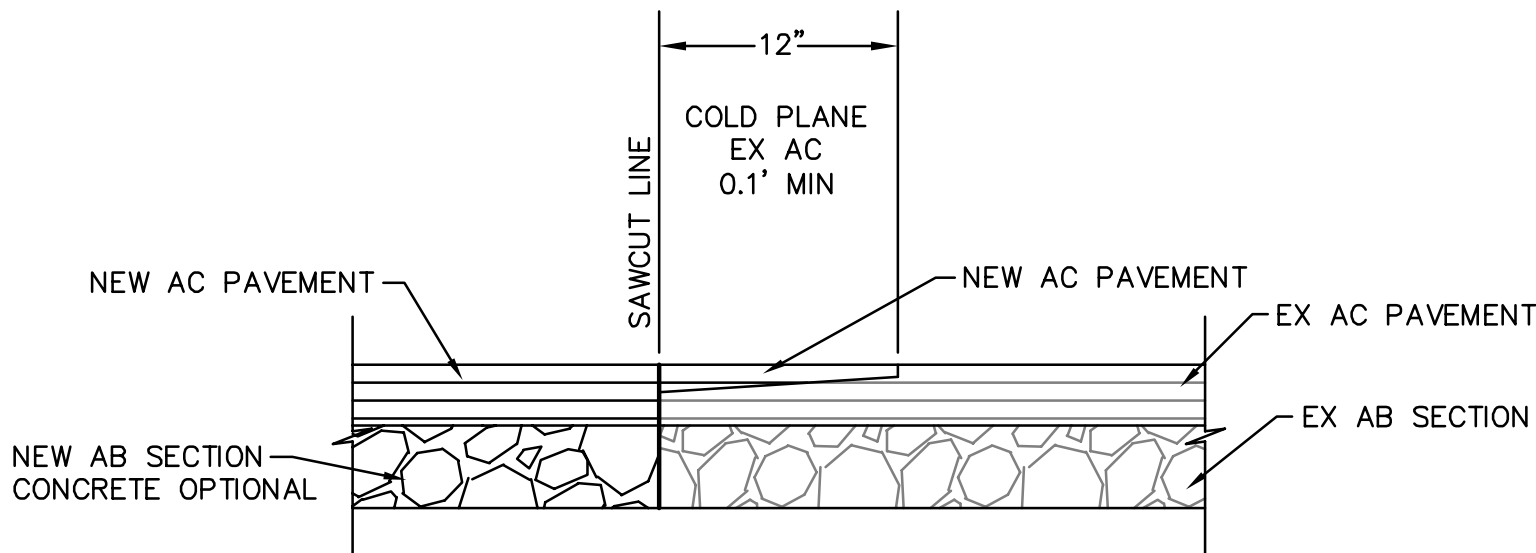
NTS



3
-

"NOT ACCESSIBLE" SIGN

NTS



4
-

PAVEMENT CONFORM

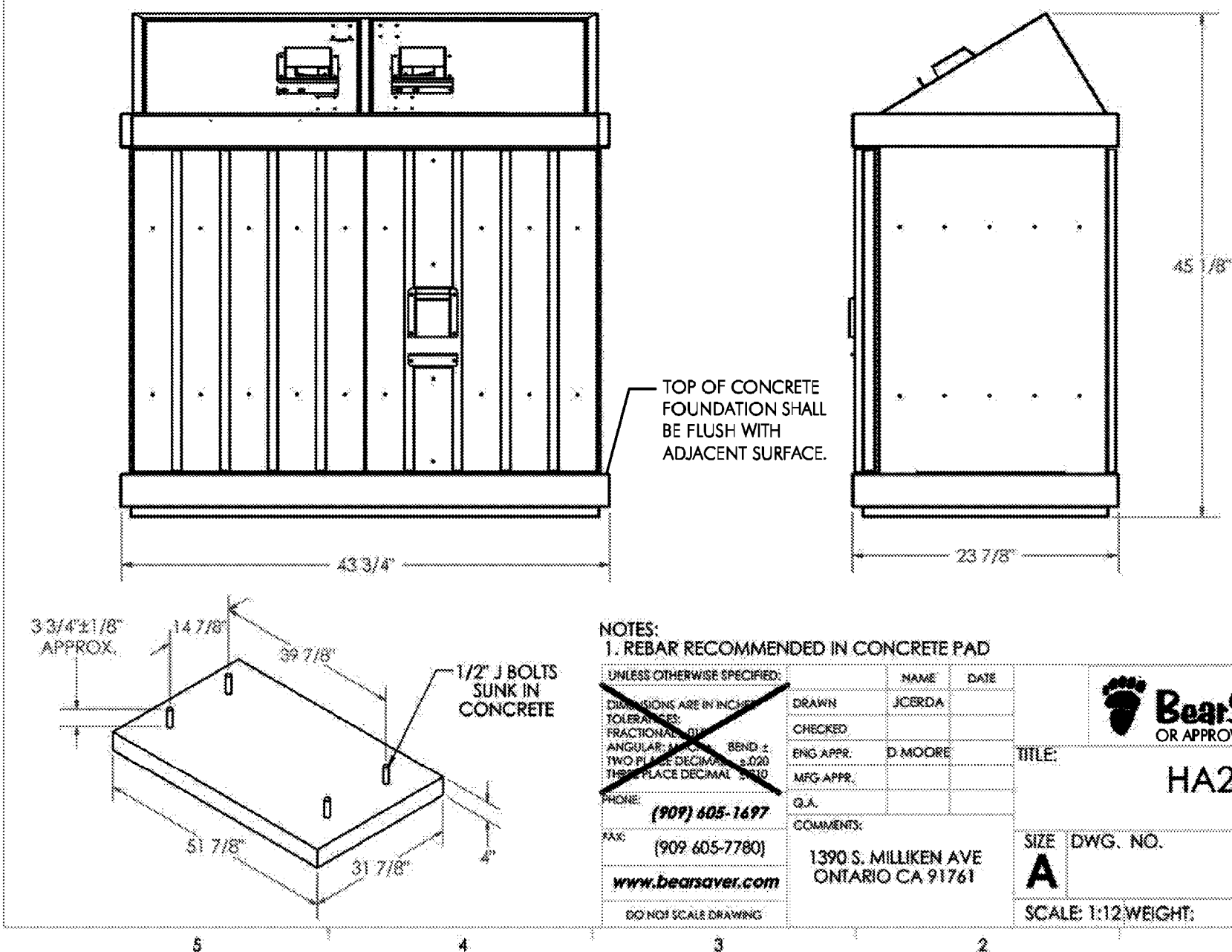
NTS

- NOTES:
- CONCRETE PAD SHALL BE CLASS 3, AND SHALL BE REINFORCED WITH #4 REBAR AT 12" ON-CENTER SPACING IN EACH DIRECTION OF PAD OR AS RECOMMENDED BY MANUFACTURER.
 - REBAR SHALL BE 3" MINIMUM FROM CONCRETE PAD SURFACE AND FROM ANY EDGE OF THE CONCRETE.
 - CONTRACTOR SHALL FURNISH AND INSTALL DECAL LABEL FOR DESIGNATING RECEPTACLES FOR TRASH AND RECYCLING. CONTRACTOR SHALL COORDINATE WITH THE COUNTY ON SELECTION OF THE DECAL LABEL FROM MANUFACTURER.
 - INSTALL CONCRETE SLAB ON 4" OF COMPACTED CLASS 2 A.B.
 - J-BOLT SHALL BE INSTALLED TO A DEPTH EQUAL TO HALF OF THE THICKNESS OF THE CONCRETE SLAB.

MANUFACTURER: BEARSAVER

MODEL: HA2-P OR APPROVED EQUIVALENT

THIS SIDE SHOWN WITH
OPTIONAL WOOD PANELING.



NOTES:

- REBAR RECOMMENDED IN CONCRETE PAD UNLESS OTHERWISE SPECIFIED.
- COVERINGS ARE IN INCHES
- | | | |
|---|----------------|--------------|
| DESIGNED BY: MD | CHECKED BY: JT | DRAWN BY: AG |
| JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY | | |
- 1390 S. MILLIKEN AVE
ONTARIO CA 91761
- SCALE: 1/2"=1'-0"



HA2

SIZE A

DWG. NO.

SCALE: 1/2"=1'-0"

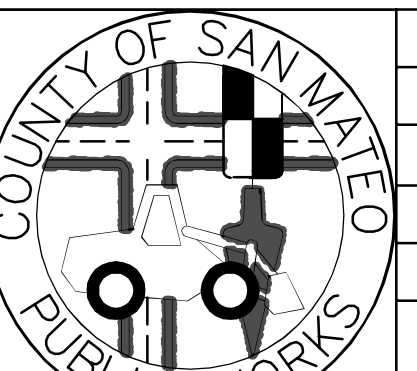
REV

SHEET 1 OF 1

APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	



BKF
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200 REDWOOD CITY, CA 94065 (650) 482-6300



DESIGNED BY: MD	CHECKED BY: JT	DRAWN BY: AG
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		
COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT CONSTRUCTION DETAILS		
555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
SCALE: AS SHOWN DATE: 9/9/2016 FILE NO.: E4948		
C-6 SHEET 31 OF 58		



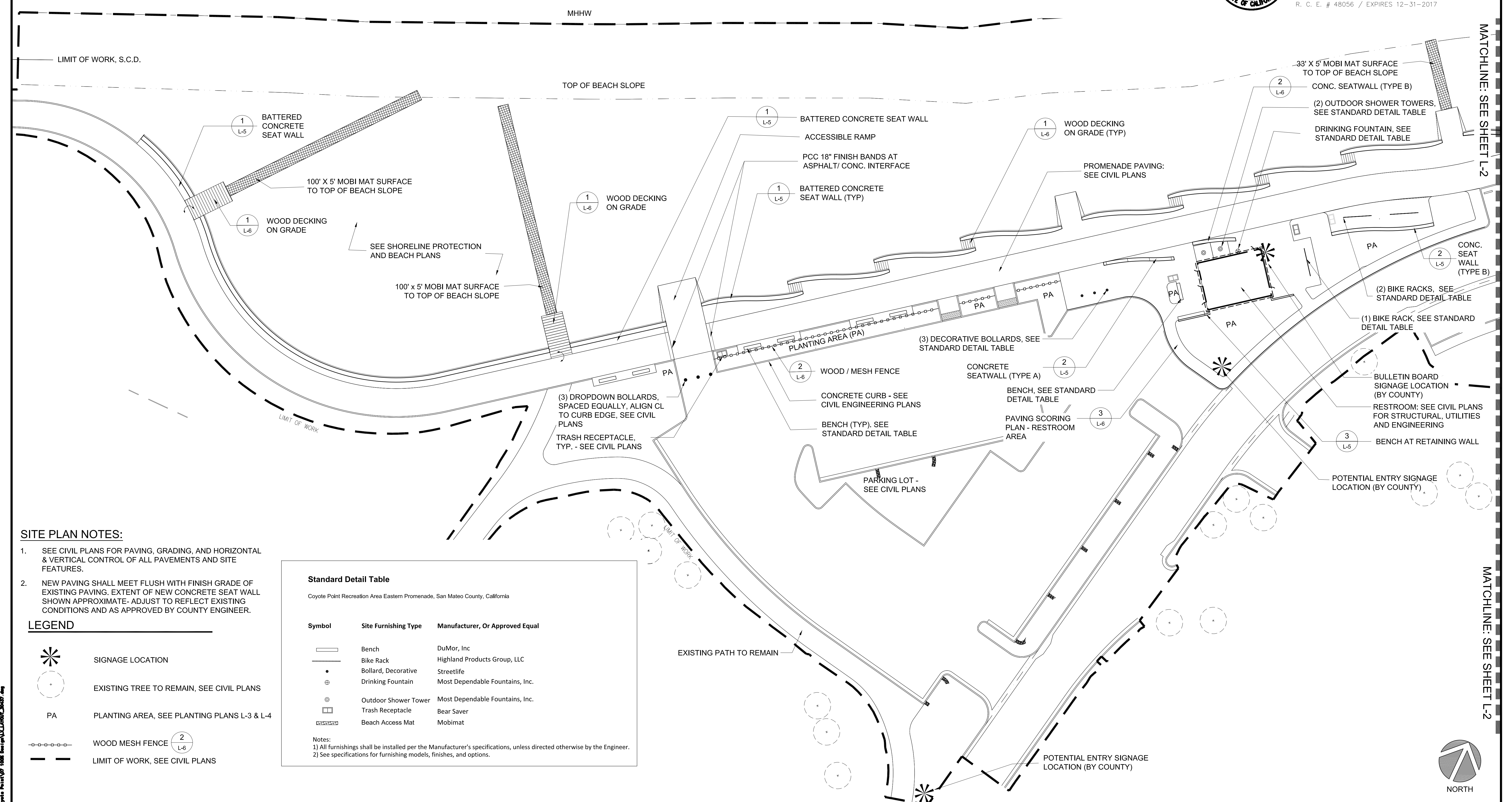
APPROVED:

DATE:

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017



SITE PLAN NOTES:

- SEE CIVIL PLANS FOR PAVING, GRADING, AND HORIZONTAL & VERTICAL CONTROL OF ALL PAVEMENTS AND SITE FEATURES.
- NEW PAVING SHALL MEET FLUSH WITH FINISH GRADE OF EXISTING PAVING. EXTENT OF NEW CONCRETE SEAT WALL SHOWN APPROXIMATE- ADJUST TO REFLECT EXISTING CONDITIONS AND AS APPROVED BY COUNTY ENGINEER.

LEGEND

- SIGNAGE LOCATION
- EXISTING TREE TO REMAIN, SEE CIVIL PLANS
- PLANTING AREA, SEE PLANTING PLANS L-3 & L-4
- WOOD MESH FENCE
- LIMIT OF WORK, SEE CIVIL PLANS

Standard Detail Table

Coyote Point Recreation Area Eastern Promenade, San Mateo County, California

Symbol	Site Furnishing Type	Manufacturer, Or Approved Equal
	Bench	DuMor, Inc
	Bike Rack	Highland Products Group, LLC
	Bollard, Decorative	Streetlife
	Drinking Fountain	Most Dependable Fountains, Inc.
	Outdoor Shower Tower	Most Dependable Fountains, Inc.
	Trash Receptacle	Bear Saver
	Beach Access Mat	Mobimat

Notes:

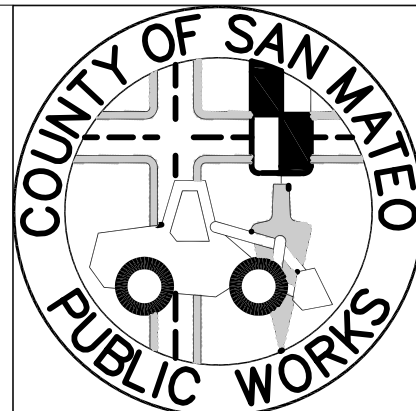
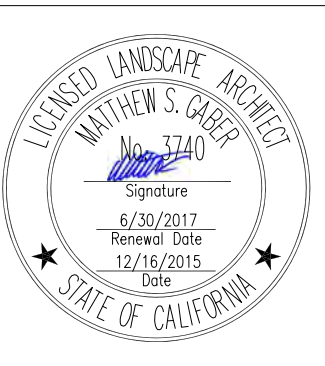
- All furnishings shall be installed per the Manufacturer's specifications, unless directed otherwise by the Engineer.
- See specifications for furnishing models, finishes, and options.

APPROVED DATE:

MATTHEW S. GABER, DIRECTOR

MIG

RLA # 3740 / EXPIRES 6-30-2017



DESIGNED BY: MG/MB	COYOTE POINT RECREATION AREA	SCALE: 1"=20'-0"
CHECKED BY: MG	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: MB	LANDSCAPE MATERIALS PLAN	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		L-1 SHEET 32 OF 58



APPROVED:

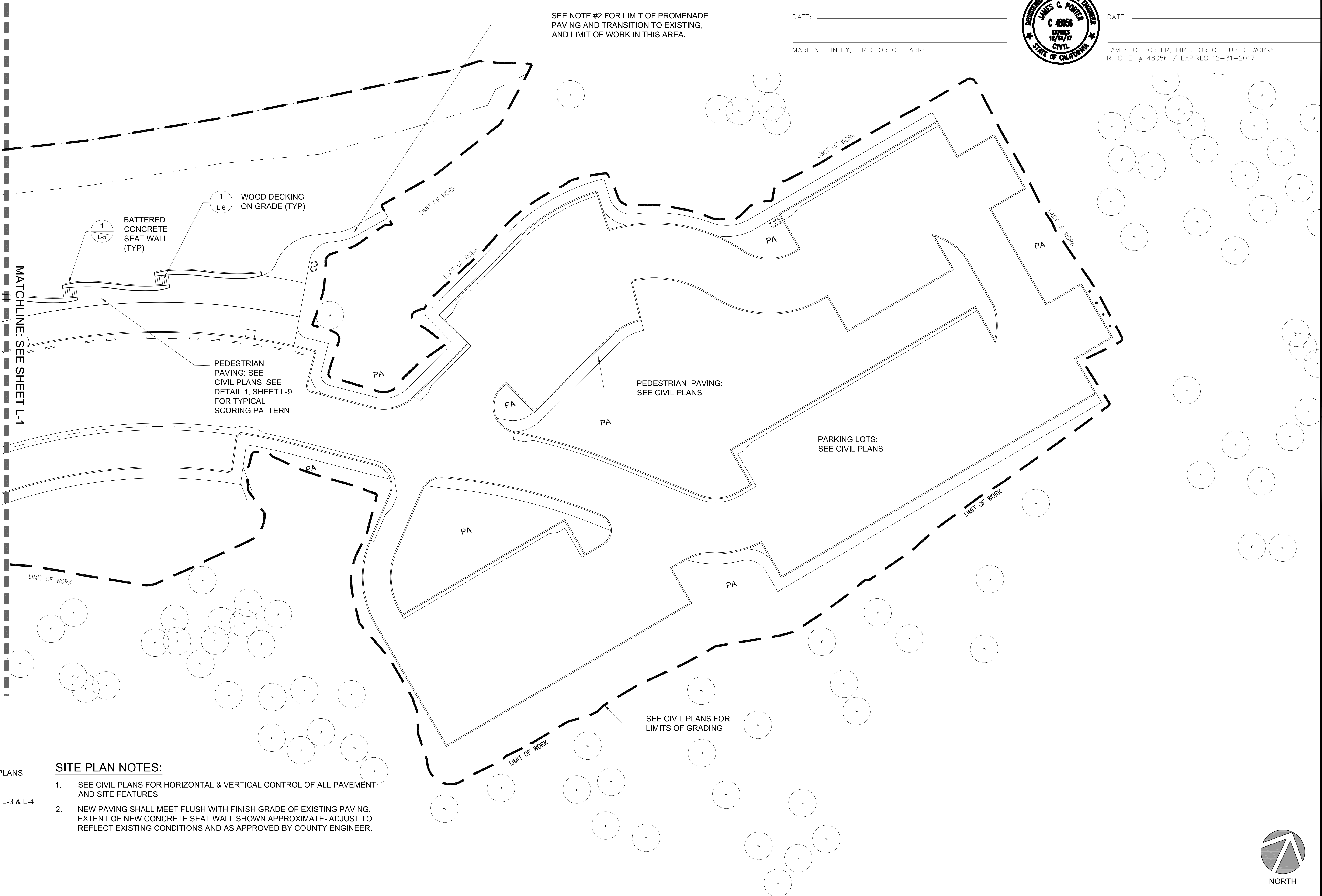
DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

SEE NOTE #2 FOR LIMIT OF PROMENADE
PAVING AND TRANSITION TO EXISTING,
AND LIMIT OF WORK IN THIS AREA.



LEGEND

- SIGNAGE LOCATION
- EXISTING TREE TO REMAIN, SEE CIVIL PLANS
- PLANTING AREA, SEE PLANTING PLANS L-3 & L-4
- WOOD MESH FENCE 2 L-6
- LIMIT OF WORK, SEE CIVIL PLANS

SITE PLAN NOTES:

- SEE CIVIL PLANS FOR HORIZONTAL & VERTICAL CONTROL OF ALL PAVEMENT AND SITE FEATURES.
- NEW PAVING SHALL MEET FLUSH WITH FINISH GRADE OF EXISTING PAVING. EXTENT OF NEW CONCRETE SEAT WALL SHOWN APPROXIMATE- ADJUST TO REFLECT EXISTING CONDITIONS AND AS APPROVED BY COUNTY ENGINEER.

APPROVED DATE:	
MATTHEW S. GABER, DIRECTOR	
MIG	
RLA # 3740 / EXPIRES 6-30-2017	

DESIGNED BY: MG/MB	COYOTE POINT RECREATION AREA		SCALE: 1"=20'-0"
CHECKED BY: MG	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: MB	LANDSCAPE MATERIALS PLAN		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		L-2 SHEET 33 OF 58
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	

PLANTING NOTES

1.

THE PLANTING PLANS INDICATE APPROXIMATE PLANTING AREAS AND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS SHOWN ON THESE PLANS.
2.

THE LOCATION OF ALL TREES ARE DIAGRAMMATIC. FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
3.

ALL TREES SHALL BE LOCATED A MINIMUM OF 5' CLEAR OF THE EDGE OF ALL PAVING AND WALLS, SIGNAGE, AND PERMANENT SITE FEATURES.
4.

REFER TO THE PLANT LIST FOR PLANT SIZES. REFER TO THE SPECIFICATIONS FOR SOIL PREPARATION, SOIL AMENDMENTS, FERTILIZER AND ADDITIONAL PLANTING REQUIREMENTS.
5.

ALL PLANTS MUST BE SOURCED FROM LOCAL NATIVE PLANT NURSERIES WITHIN SAN MATEO COUNTY.
6.

SEE CIVIL PLANS FOR EXISTING TREE PROTECTION.

NATIVE EROSION CONTROL SEED MIX

BOTANTICAL NAME	COMMON NAME	POUNDS PURE LIVE SEED / ACRE
<i>Achillea millefolium</i>	Common yarrow	1.0
<i>Bromus carinatus</i>	California Brome	10.0
<i>Elymus glaucus</i>	Blue Wildrye	8.0
<i>Eschscholzia californica</i>	California poppy	1.5
<i>Hordeum californicum</i>	California Barley	8.00
<i>Leymus triticoides</i>	Creeping Wildrye	5.00
<i>Lupinus nanus</i>	Sky lupine	4.0
<i>Sisyrinchium bellum</i>	Western blue eyed grass	3.0
<i>Vulpia microstachys</i>	Three Weeks Fescue	6.00
Total:		46.5

Note 1) See specifications for seed product and application requirements.
2) Seed Mix available from Pacific Coast Seed, 1-925-373-4417, or approved equal.

DATE: _____

MARLENE FINLEY, DIRECTOR OF PARKS



APPROVED:

DATE: _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

Plant Legend

Coyote Point Recreation Area Eastern Promenade, San Mateo County, California

Botanical Name	Common Name	Size	Spacing	Area
SHORELINE				
<i>Deschampsia cespitosa ssp holciformis</i>	Pacific hairgrass	1 GAL	2.5'	
<i>Muhlenbergia rigens</i>	deergrass	1 GAL	3.0'	
<i>Ceanothus thyrsiflorus var. repens</i>	creeping blue blossom	1 GAL	6.5'	
<i>Artemisia californica</i>	California sagebrush	5 GAL	3.5'	Accent - 20% Cover
<i>Eriogonum latifolium</i>	coastal buckwheat	5 GAL	3.5'	Accent - 20% Cover
<i>Lupinus albilfrons</i>	silver bush lupine	5 GAL	3.5'	Accent - 20% Cover
<i>Mimulus aurantiacus</i>	sticky monkey flower	5 GAL	3.5'	Accent - 20% Cover
<i>Ribes sanguineum</i>	flowering currant	6 GAL	3.5'	Accent - 20% Cover
BIOSWALES				
<i>Carex densa</i>	dense sedge	1 GAL	1.5'	Interior - 20% Cover
<i>Eleocharis macrostachya</i>	creeping spikerush	1 GAL	1.5'	Interior - 20% Cover
<i>Hordeum brachyantherum</i>	meadow barley	1 GAL	1.5'	Interior - 20% Cover
<i>Juncus phaeocephalus</i>	Brown headed rush	1 GAL	1.5'	Interior - 20% Cover
<i>Potentilla anserina</i>	Silver weed cinquefoil	1 GAL	1.5'	Interior - 10% Cover
<i>Sisyrinchium californicum</i>	California golden eyed grass	1 GAL	1.5'	Interior - 10% Cover
<i>Juncus patens</i>	blue rush	1 GAL	3.0'	Perimeter - 50% Cover
<i>Muhlenbergia rigens</i>	deergrass	1 GAL	3.0'	Perimeter - 50% Cover
BLUFFS				
<i>Frangula californica</i>	California coffeeberry	5 GAL	7.0'	Screen - 50% Cover
<i>Heteromeles arbutifolia</i>	toyon	5 GAL	7.0'	Screen - 50% Cover
<i>Hesperocyparis macrocarpa</i>	Monterey Cypress	15 GAL	AS SHOWN	

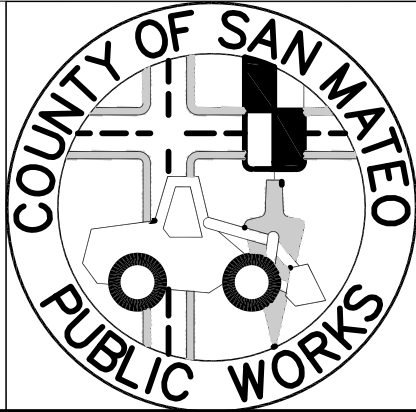
Note: Species within Accent, Interior Bioswale, Perimeter Bioswale, and Screen Planting Areas shall be installed in clumps of 2-3 plants of each species to create a natural appearance, as directed by the Landscape Architect.

LEGEND

-
- CEANOTHUS THYRSIFLORUS
-
- DESCHAMPSIA CESPITOSA SSP. HOLCIFORMUS
-
- MUHLENBERGIA RIGENS
-
- ACCENT PLANTING AREA
-
- SCREEN PLANTING AREA
-
- INTERIOR BIOSWALE PLANTING AREA
-
- PERIMETER BIOSWALE PLANTING AREA
-
- NATIVE EROSION CONTROL SEED MIX - MIX TO BE DETERMINED
-
- (E) TREE TO BE PROTECTED
-
- HESPEROCYPARIS MACROCARPA
-
- LIMIT OF WORK / GRADING - SEE CIVIL PLANS



APPROVED DATE:	
MATTHEW S. GABER, DIRECTOR	
MIG	
RLA # 3740 / EXPIRES 6-30-2017	



DESIGNED BY: MB	COYOTE POINT RECREATION AREA		SCALE: 1" = 20'-0"
CHECKED BY: MG	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: MB	PLANTING PLAN		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	
		L-3 SHEET 34 OF 58	



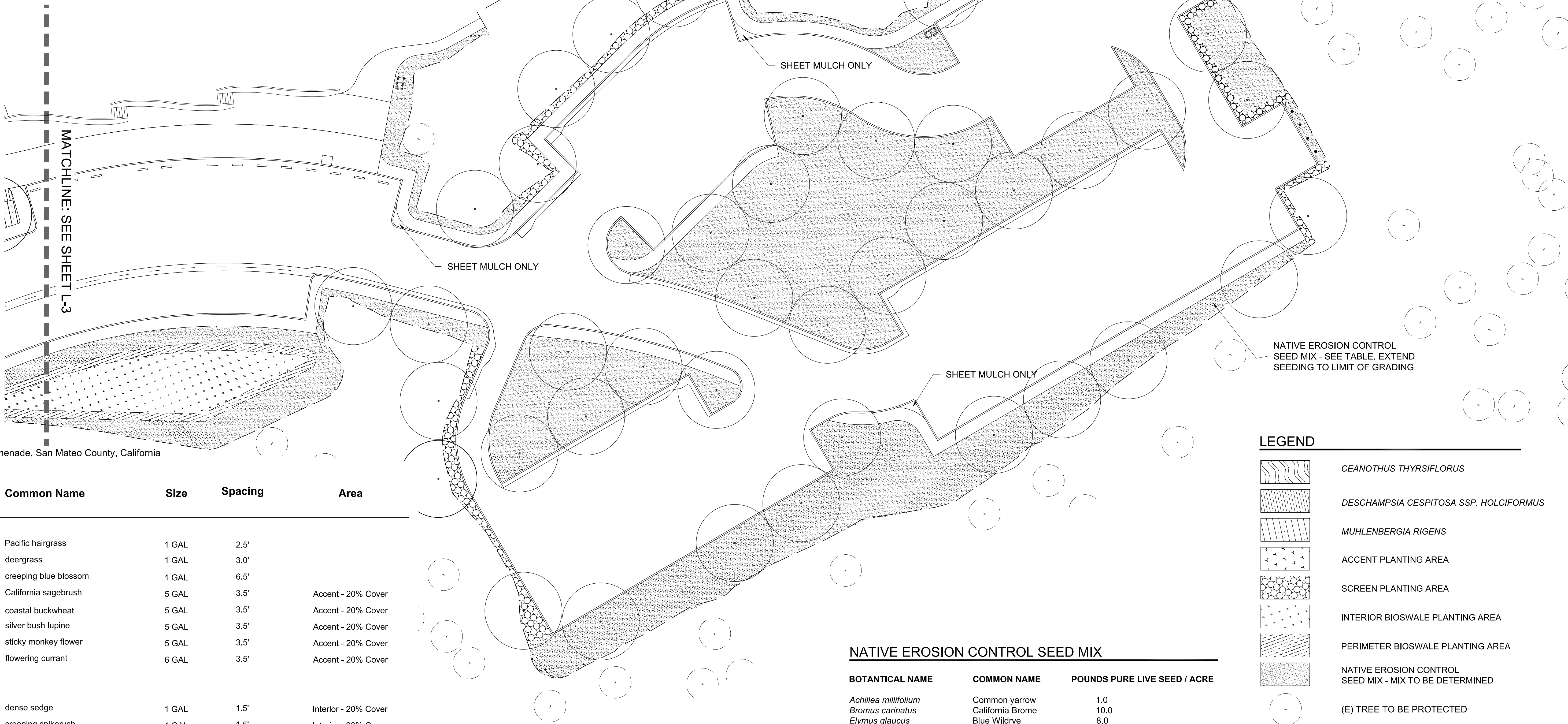
APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

PLANTING NOTES

1. THE PLANTING PLANS INDICATE APPROXIMATE PLANTING AREAS AND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS SHOWN ON THESE PLANS.
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Plant Legend

Coyote Point Recreation Area Eastern Promenade, San Mateo County, California

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Note: Species within Accent, Interior Bioswale, Perimeter Bioswale, and Screen Planting Areas shall be installed in clumps of 2-3 plants of each species to create a natural appearance, as directed by the Landscape Architect.

LEGEND

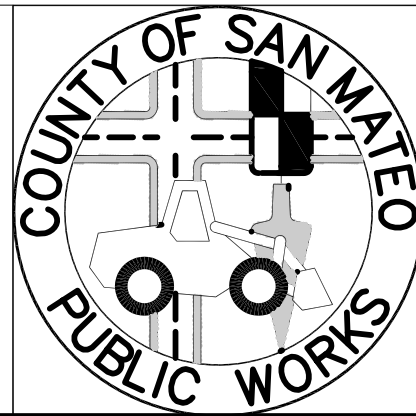
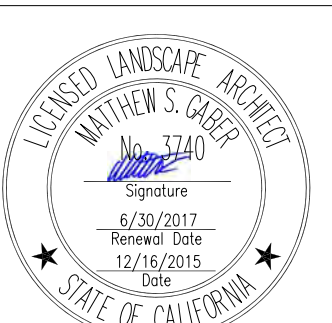
	CEANOTHUS THYRSIFLORUS
	DESCHAMPSIA CESPITOSA SSP. HOLCIFORMUS
	MUHLENBERGIA RIGENS
	ACCENT PLANTING AREA
	SCREEN PLANTING AREA
	INTERIOR BIOSWALE PLANTING AREA
	PERIMETER BIOSWALE PLANTING AREA
	NATIVE EROSION CONTROL SEED MIX - MIX TO BE DETERMINED
	(E) TREE TO BE PROTECTED
	HESPEROCYPARIS MACROCARPA
	LIMIT OF WORK / GRADING - SEE CIVIL PLANS

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<i>Sisyrinchium bellum</i>	Western blue eyed grass	3.0
<i>Vulpia microstachys</i>	Three Weeks Fescue	6.00
Total:		46.5

- Note 1) See specifications for seed product and application requirements.
2) Seed Mix available from Pacific Coast Seed, 1-925-373-4417, or approved equal.

APPROVED DATE:	
MATTHEW S. GABER, DIRECTOR	
MIG	
RLA # 3740 / EXPIRES 6-30-2017	



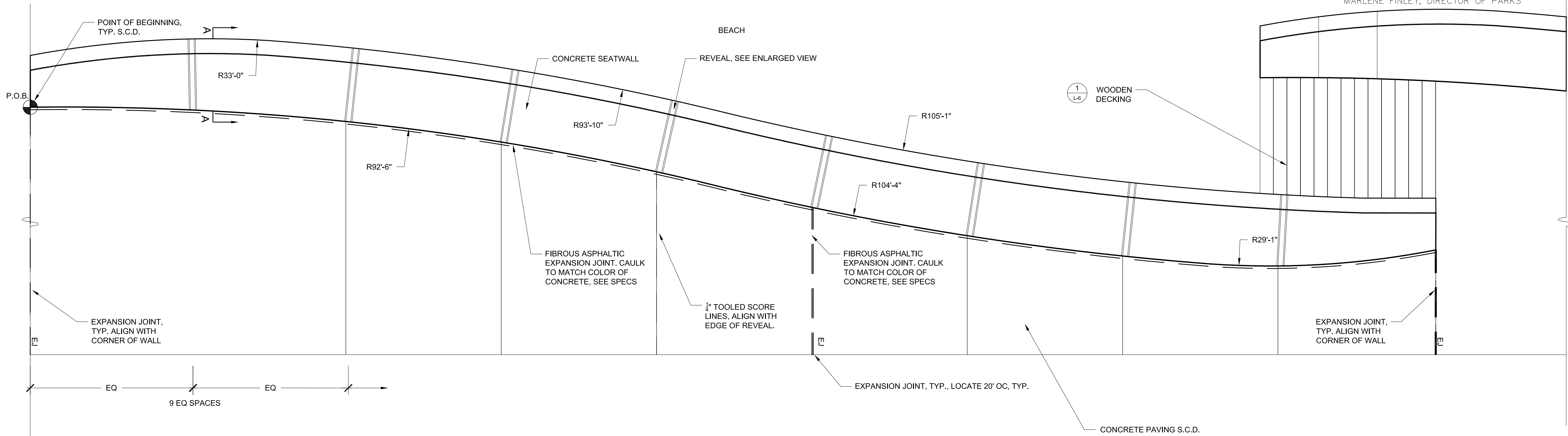
DESIGNED BY: MB	Coyote Point Recreation Area	SCALE: 1" = 20'-0"
CHECKED BY: MG	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: MB	PLANTING PLAN	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		L-4 SHEET 35 OF 58



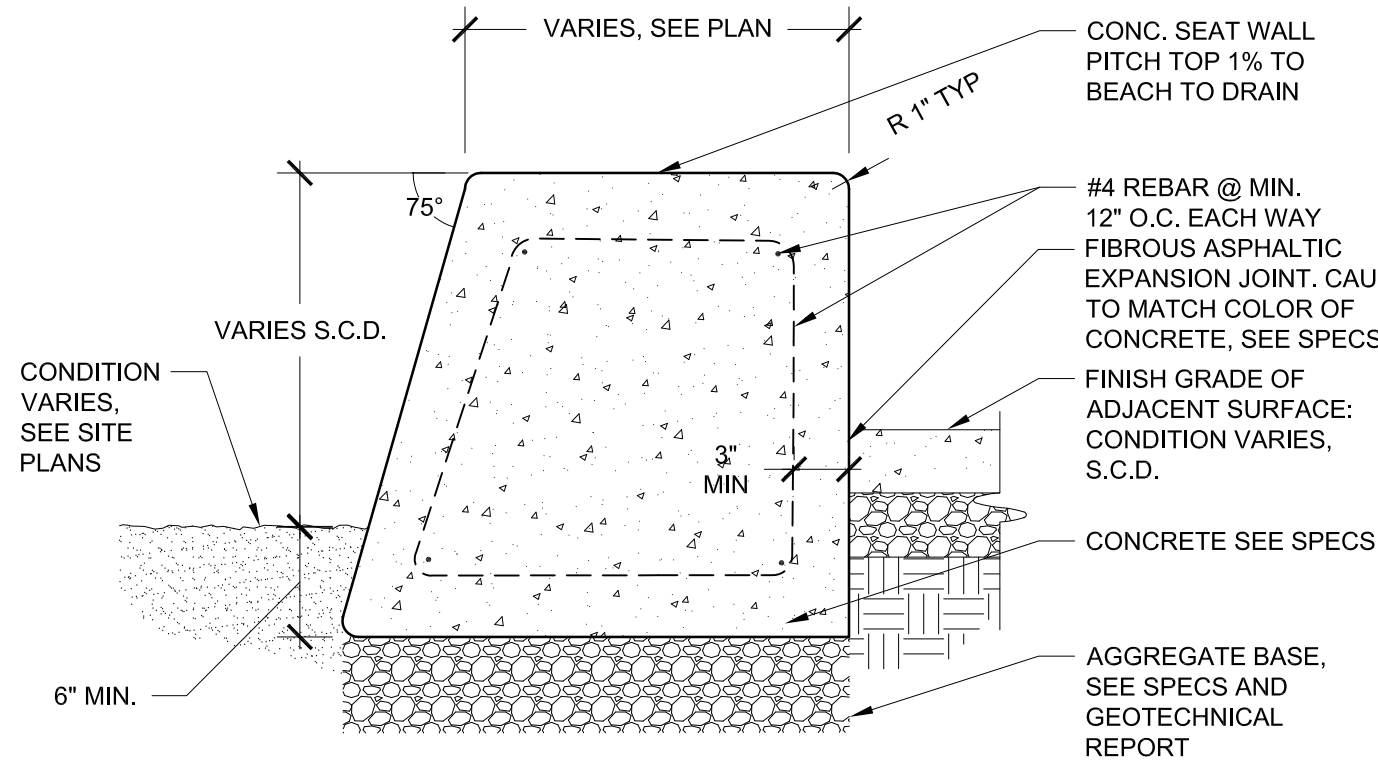
APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____

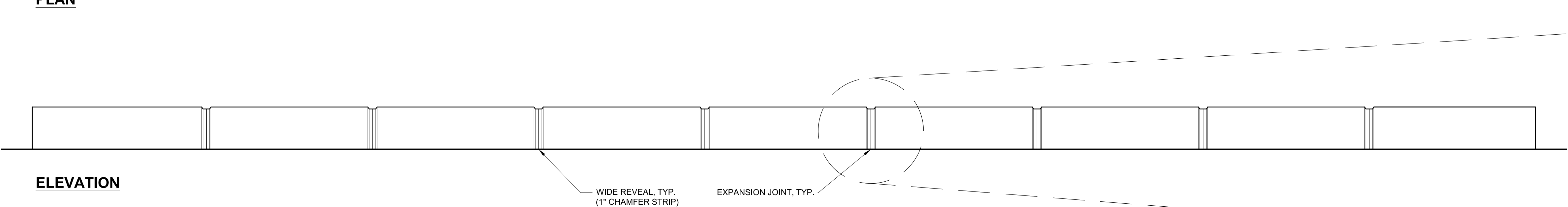
MARLENE FINLEY, DIRECTOR OF PARKS



PLAN

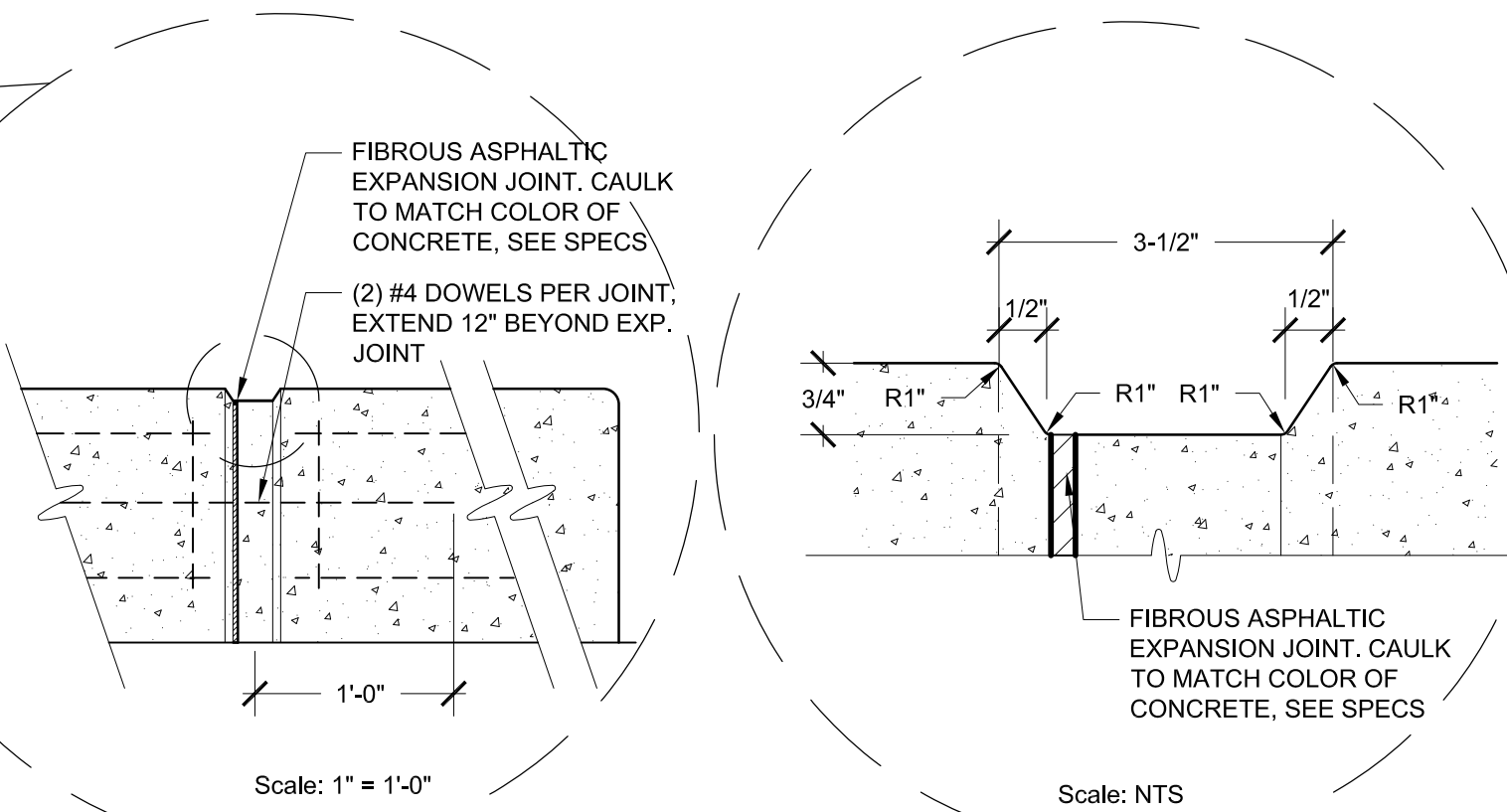


SECTION A-A
Scale: 1" = 1'-0"



ELEVATION

- NOTES:
- ALL WALLS TO RECEIVE LIGHT SANDBLAST FINISH WITH ANTI-GRAFFITI COATING, SEE SPECS.
 - FINAL WALL FOOTING DIMENSIONS TO BE DETERMINED BY ENGINEER.
 - WALL COLOR: SCOFIELD SYSTEMS CHROMIX ADMIXTURE 'SHARON SLATE' (C-31)
 - PAVING COLOR: 'LAMP BLACK' AS DIRECTED BY OWNER'S REPRESENTATIVE.

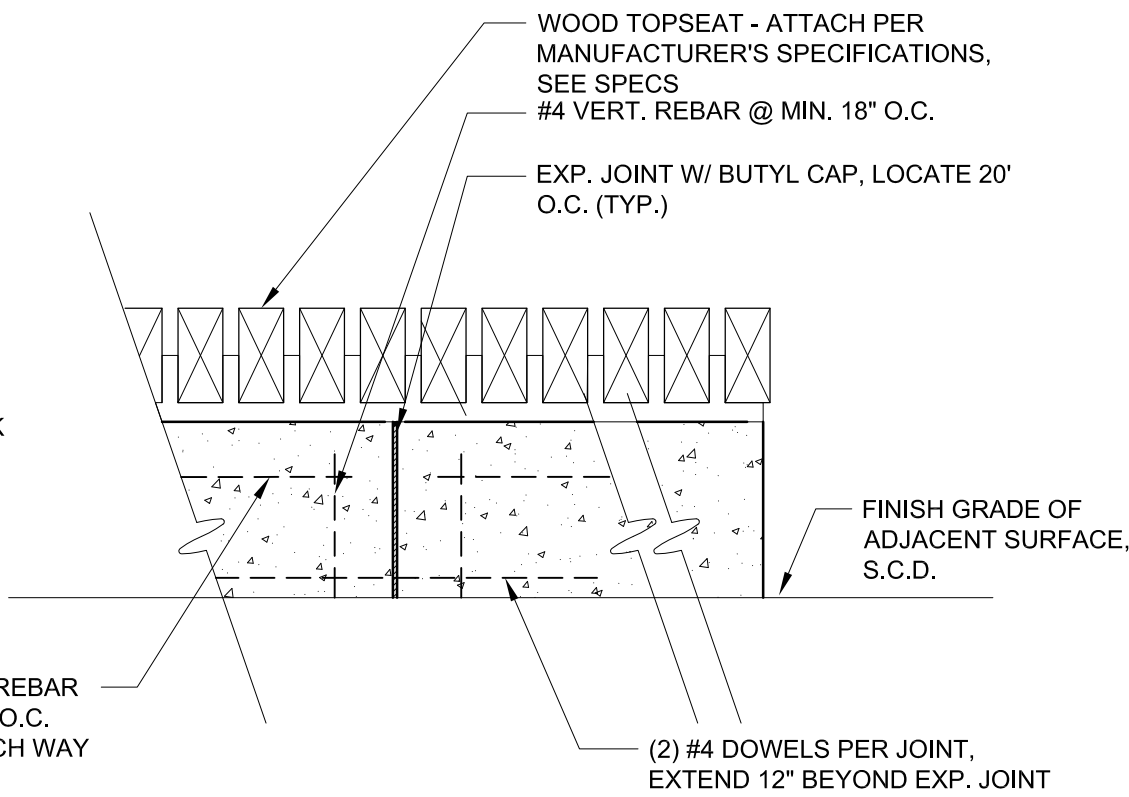
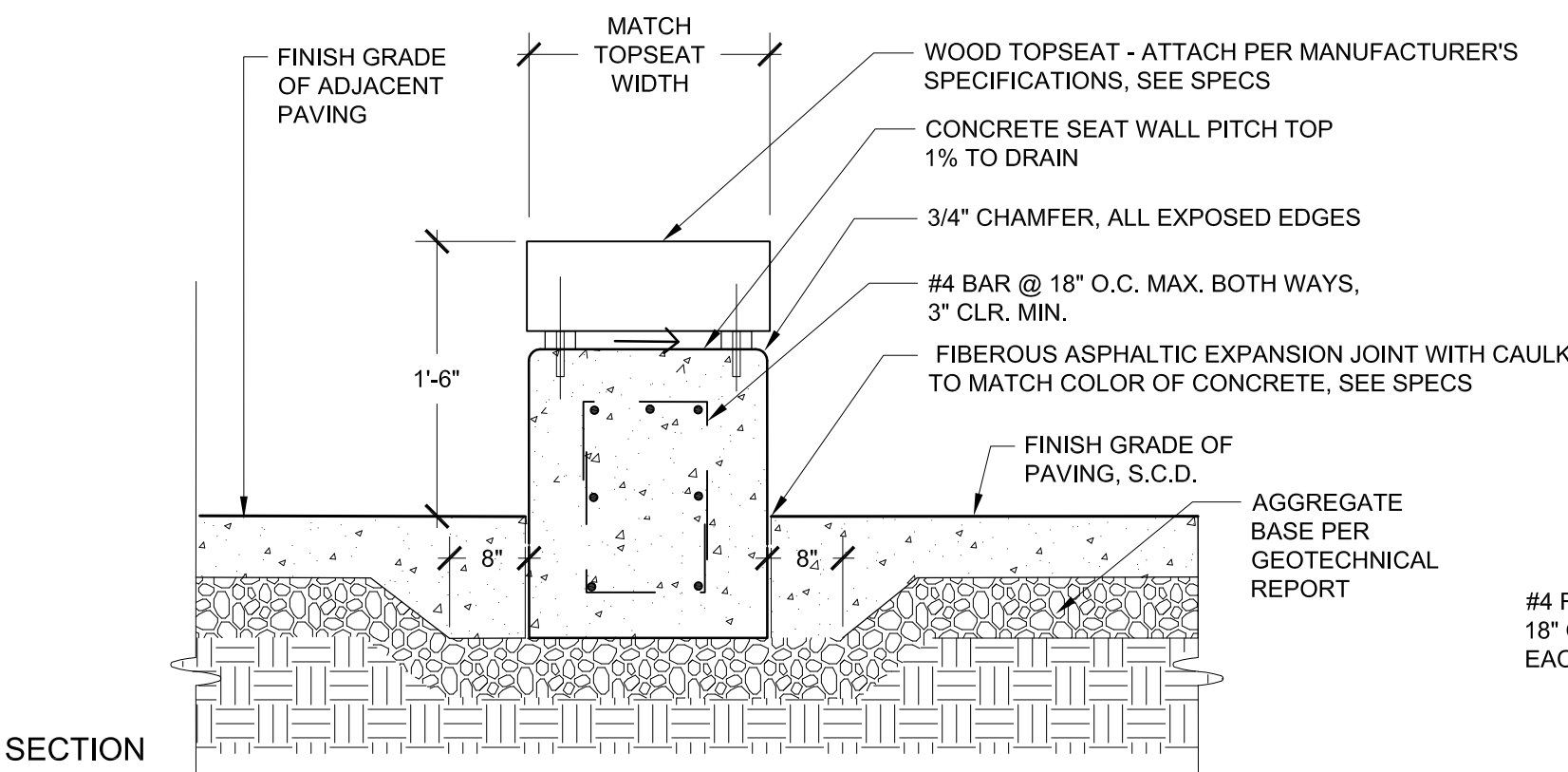
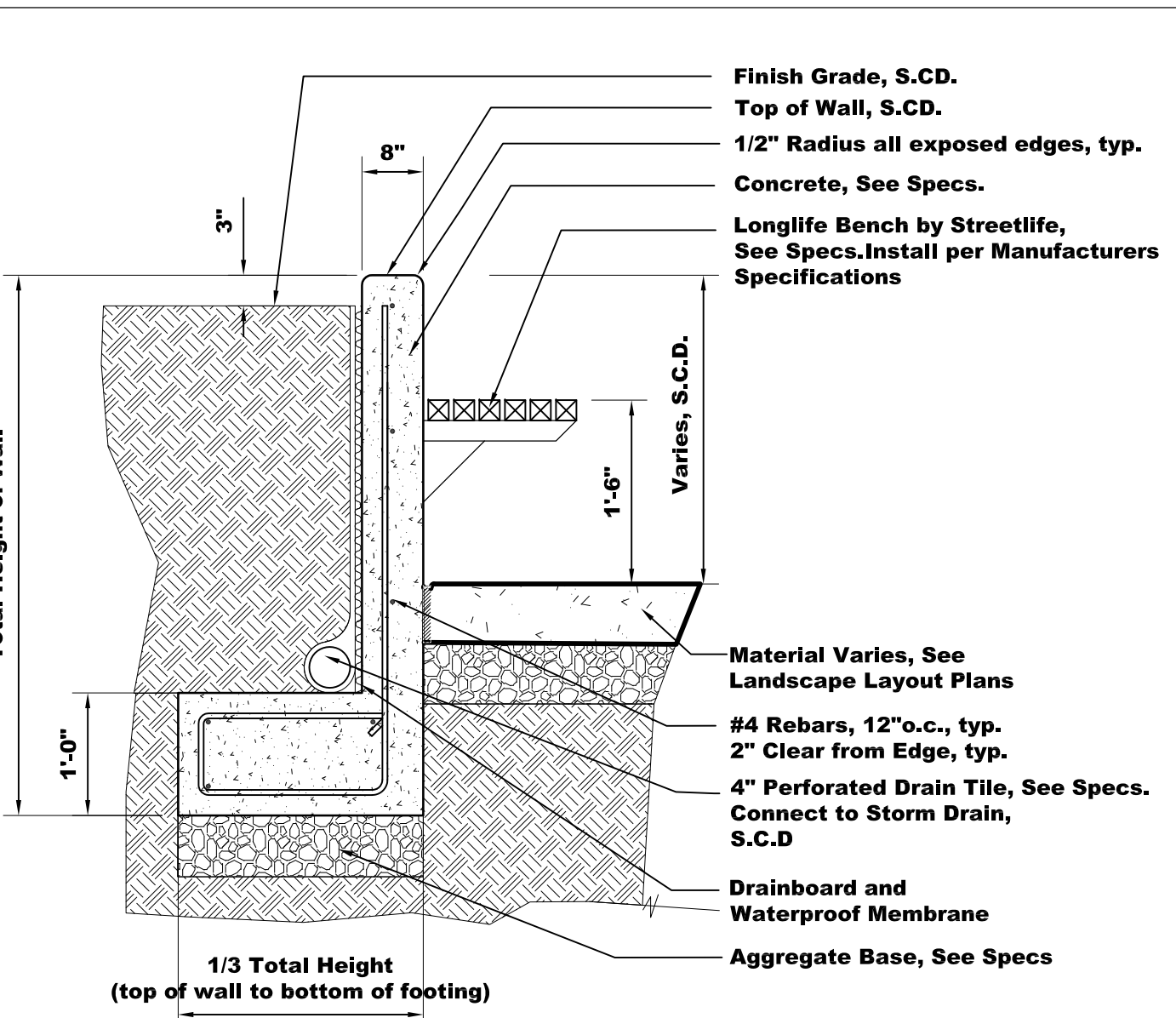


REVEAL AND EXPANSION
JOINT AT WALL
Scale: 1" = 1'-0"

ENLARGED VIEW OF REVEAL
Scale: NTS

1 BATTERED CONCRETE SEATWALL

Scale: 1/2" = 1'-0"



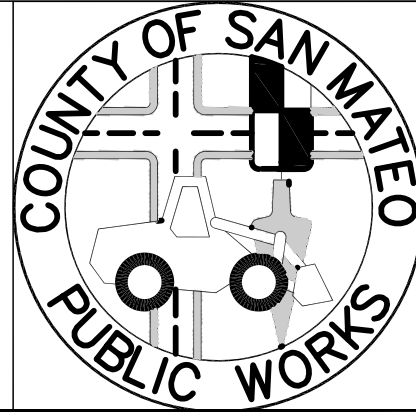
- NOTES:
- SEE SHEET L-1 FOR BENCH LOCATIONS
 - FINISH - ALL WALLS TO RECEIVE LIGHT SAND FINISH WITH ANTI-GRAFFITI COATING.
 - SCORING, JOINTS, AND LAYOUT SIMILAR TO DETAIL #1 ABOVE. CONFIRM LAYOUT WITH OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
 - 'TYPE A' CONCRETE SEATWALL SHALL INCLUDE THE WOOD TOPSEAT AS SHOWN.
 - 'TYPE B' CONCRETE SEATWALL SHALL NOT INCLUDE THE WOOD TOPSEAT. SIMILAR TO AS SHOWN, WITH TOP OF WALL AT 1'-6" ABOVE FINISH GRADE.

2 CONCRETE SEATWALL

Scale: 1/2" = 1'-0"

APPROVED DATE: _____

MATTHEW S. GABER, DIRECTOR
MIG
RLA # 3740 / EXPIRES 6-30-2017



DESIGNED BY: MG/MB
CHECKED BY: MG
DRAWN BY: AD

COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT
LANDSCAPE DETAILS

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

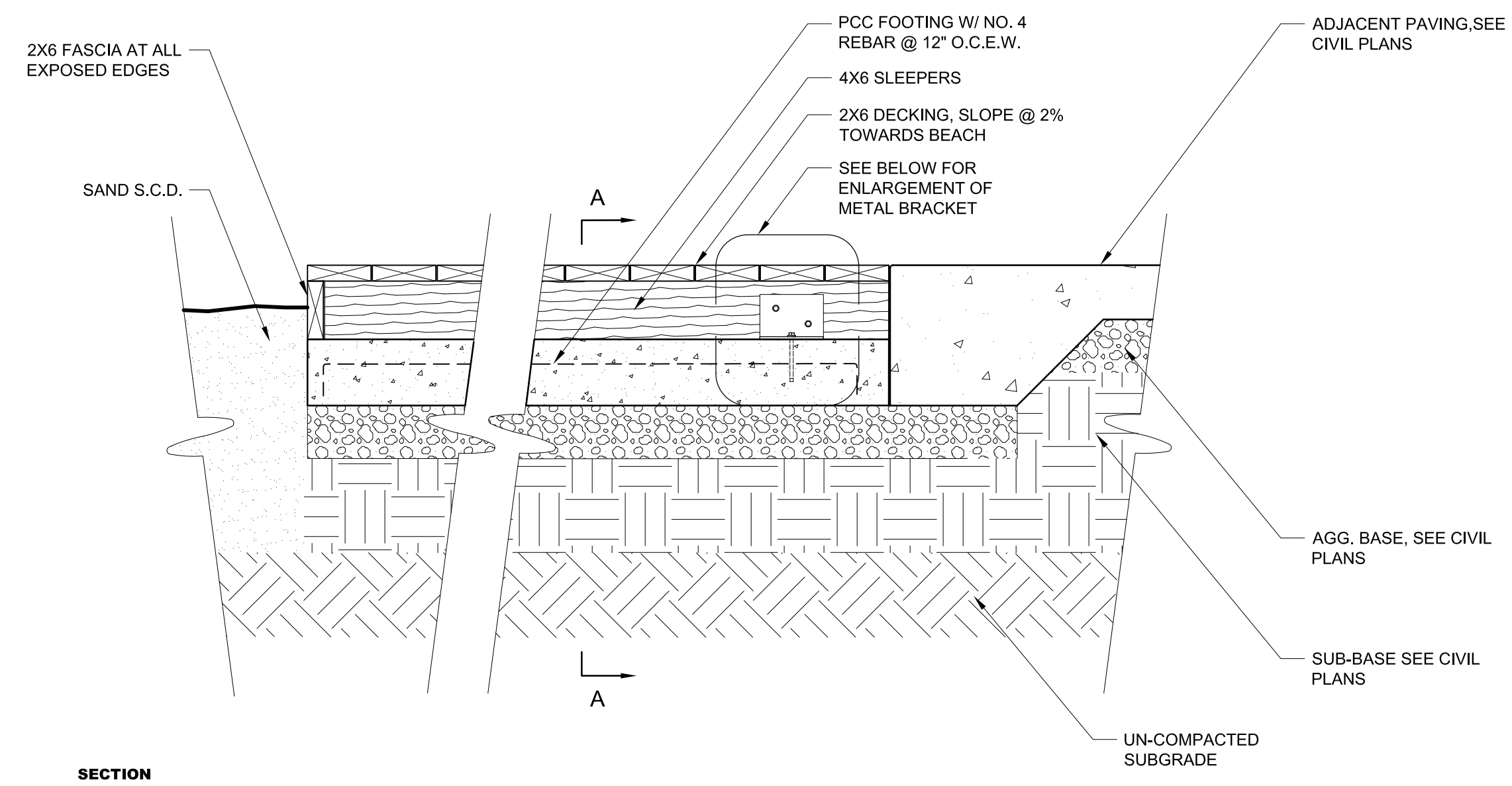
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



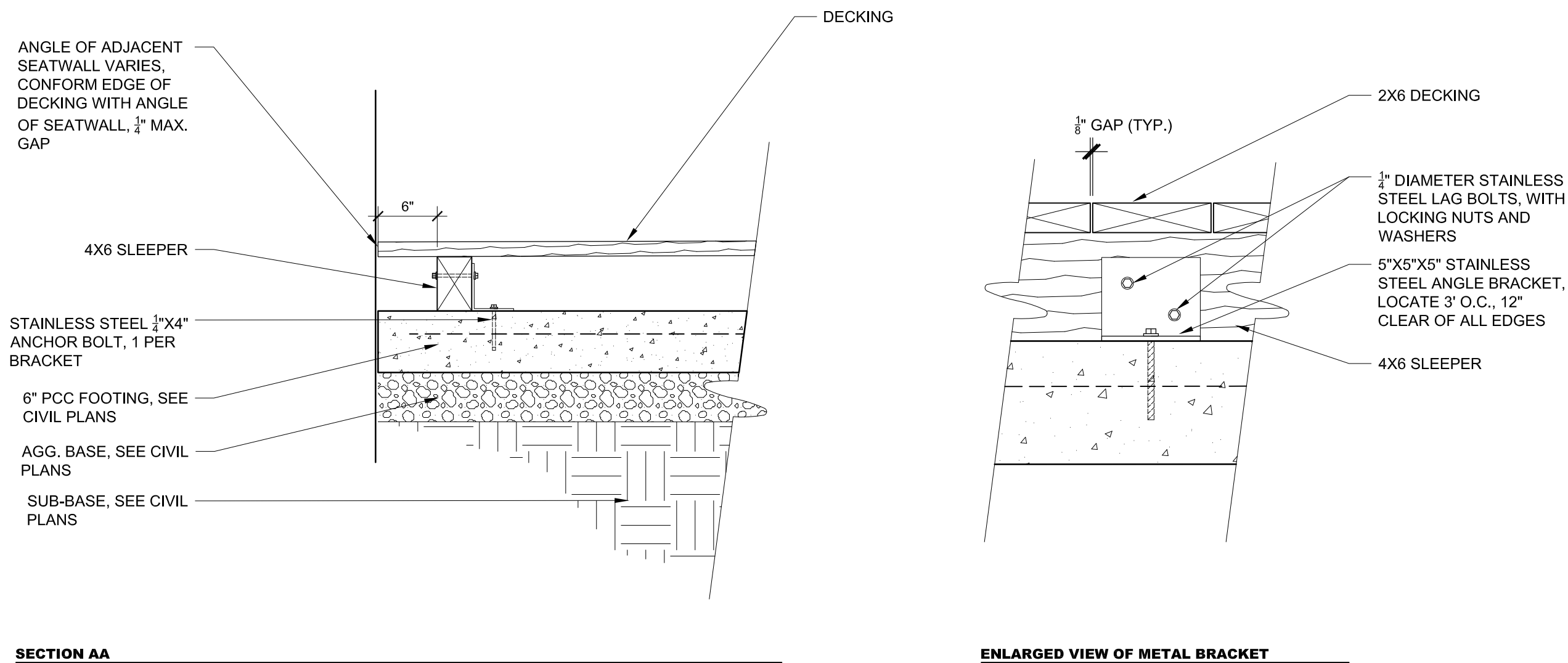
L-5

SHEET 36 OF 58

- NOTES:
1. DECKING AND FASCIAS TO BE THERMALLY MODIFIED NORTH AMERICAN HARDWOOD. SEE SPECS.
 2. WIDTH OF BOARDWALK VARIES. SEE PLAN.
 3. ALL DECKING TO BE ATTACHED WITH TAMPER PROOF STAINLESS STEEL SCREWS 1" CLEAR OF ALL EDGES.
 4. ALL SLEEPERS SHALL BE PRESSURE TREATED DOUG FIR UNLESS NOTED OTHERWISE.
 5. DECKING SHALL BE FLUSH WITH ADJACENT PAVING AND BEACH MAT SURFACING (WHERE APPLICABLE).



SECTION

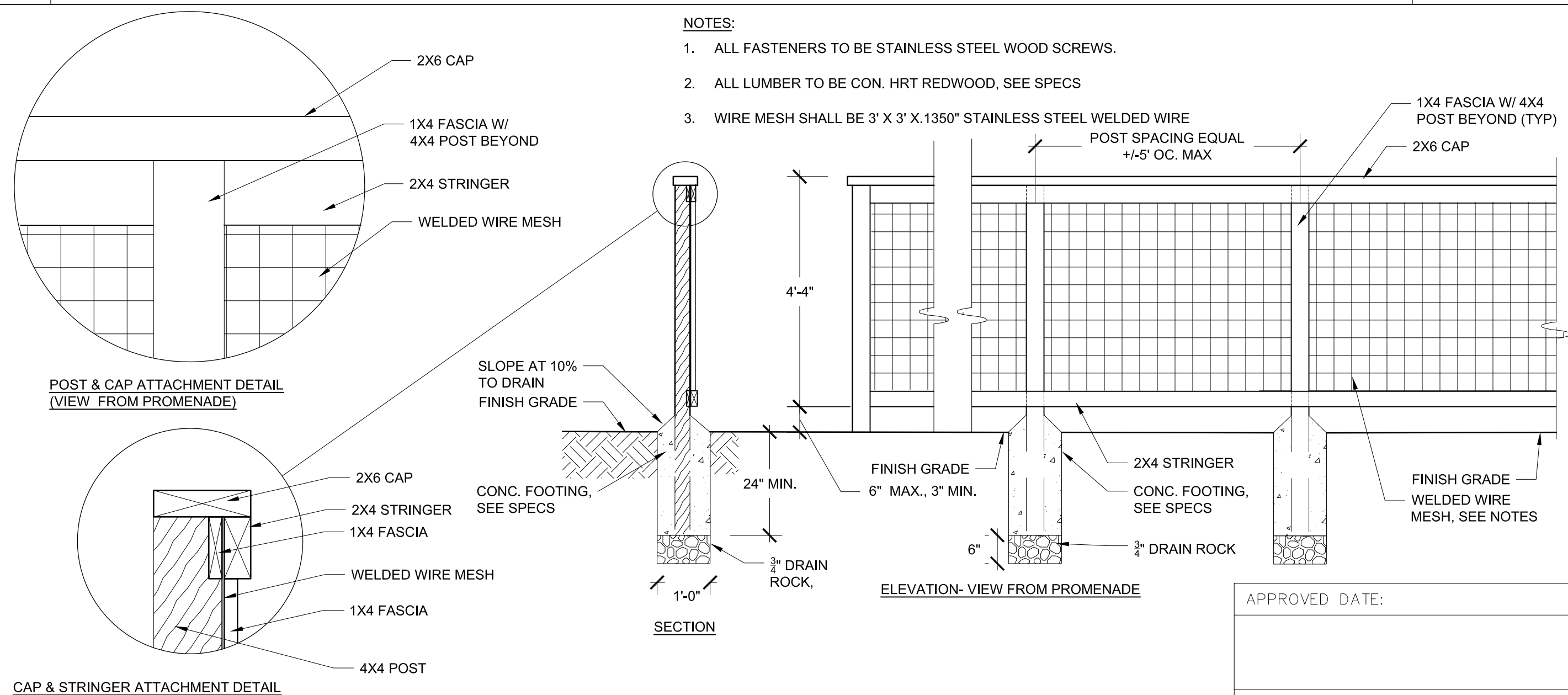


SECTION AA

ENLARGED VIEW OF METAL BRACKET
N.T.S.

1 WOODEN DECKING @ COYOTE PT

Scale: 1" = 1'-0"



ELEVATION: VIEW FROM PROMENADE

SECTION

2 WOOD & MESH FENCE

Scale: 1/2" = 1'-0"

3 PAVING SCORING PLAN - RESTROOM AREA

Scale: 1" = 10'-0"

APPROVED DATE: _____

MATTHEW S. GABER, DIRECTOR
MIG
RLA # 3740 / EXPIRES 6-30-2017

LICENSED LANDSCAPE ARCHITECT
MATTHEW S. GABER
No. 1240
Signature
6/20/2017
Expiry Date
12/16/2015
State
CALIFORNIA

MIG
400 HEARD AVENUE
BERKELEY, CA 94710
TEL: 510.862.7147
FAX: 510.862.6710
www.mig.com

COUNTY OF SAN MATEO
PUBLIC WORKS

DESIGNED BY: MG/MB
CHECKED BY: MG
DRAWN BY: AD

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY

COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT
LANDSCAPE DETAILS

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

SCALE: AS SHOWN
DATE: 9/9/2016
FILE NO.: E4948

REVISION DATE

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3 4

L-6
SHEET 37 OF 58

DATE: _____

MARLENE FINLEY, DIRECTOR OF PARKS



APPROVED:

DATE: _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017



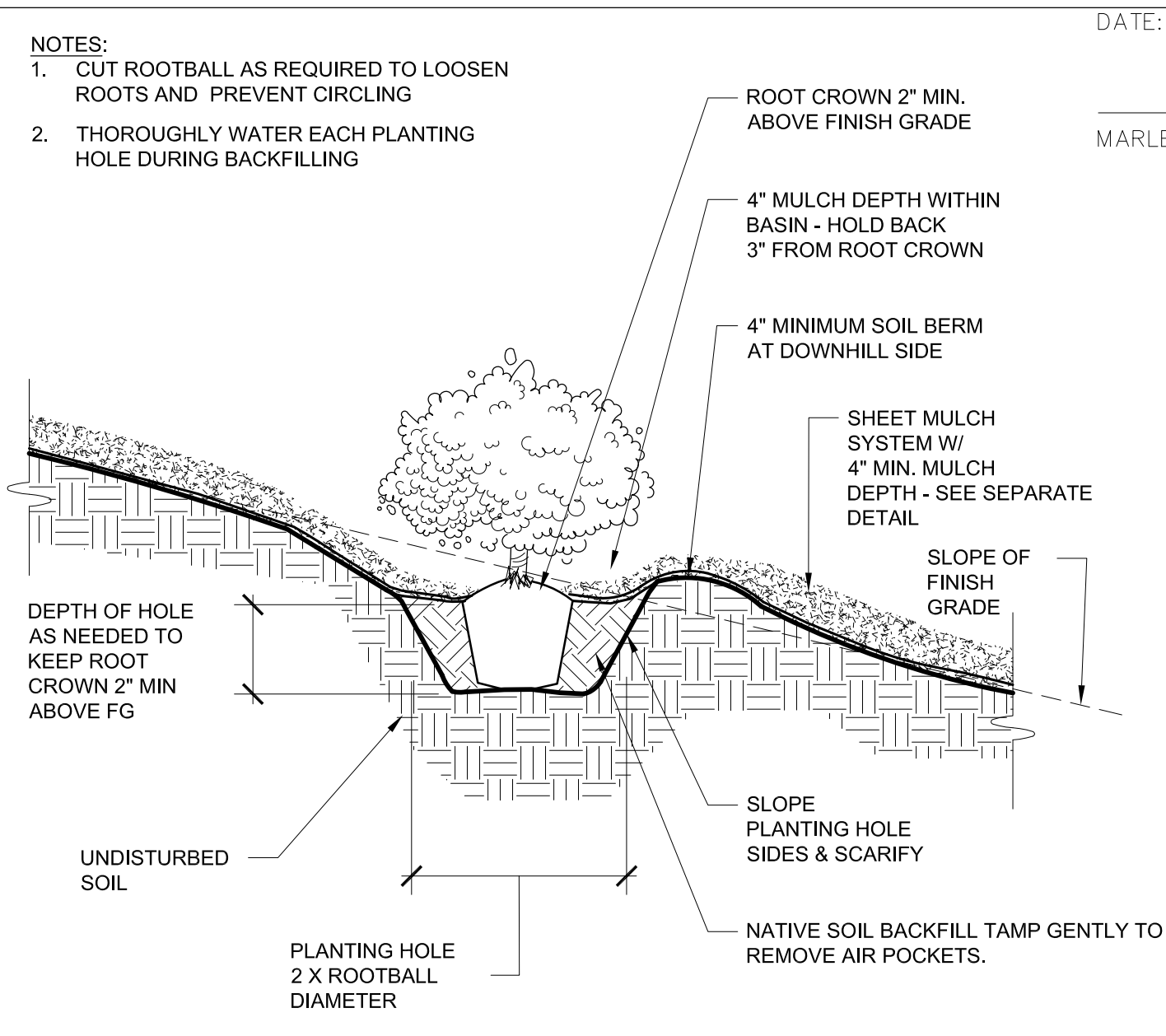
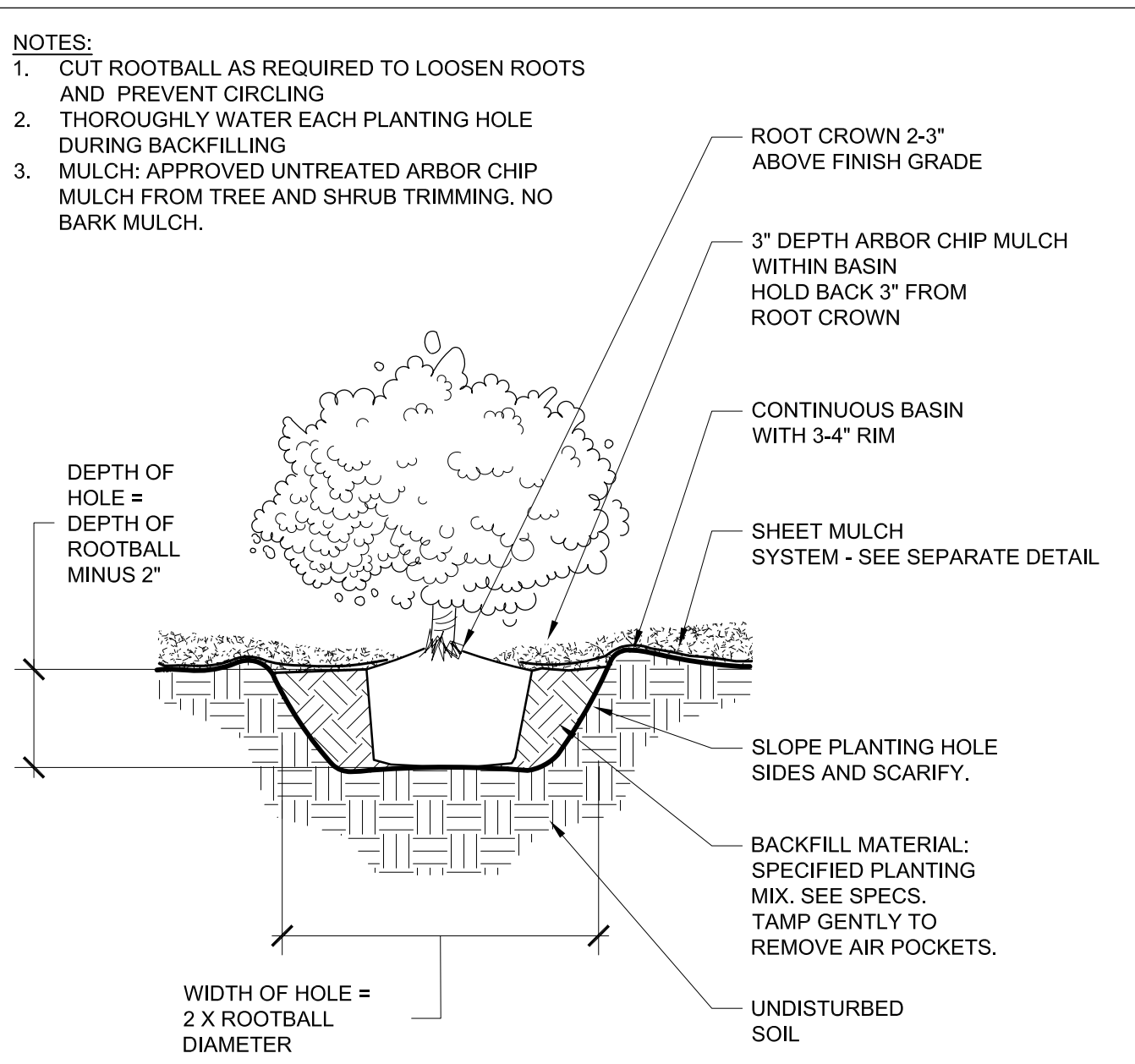
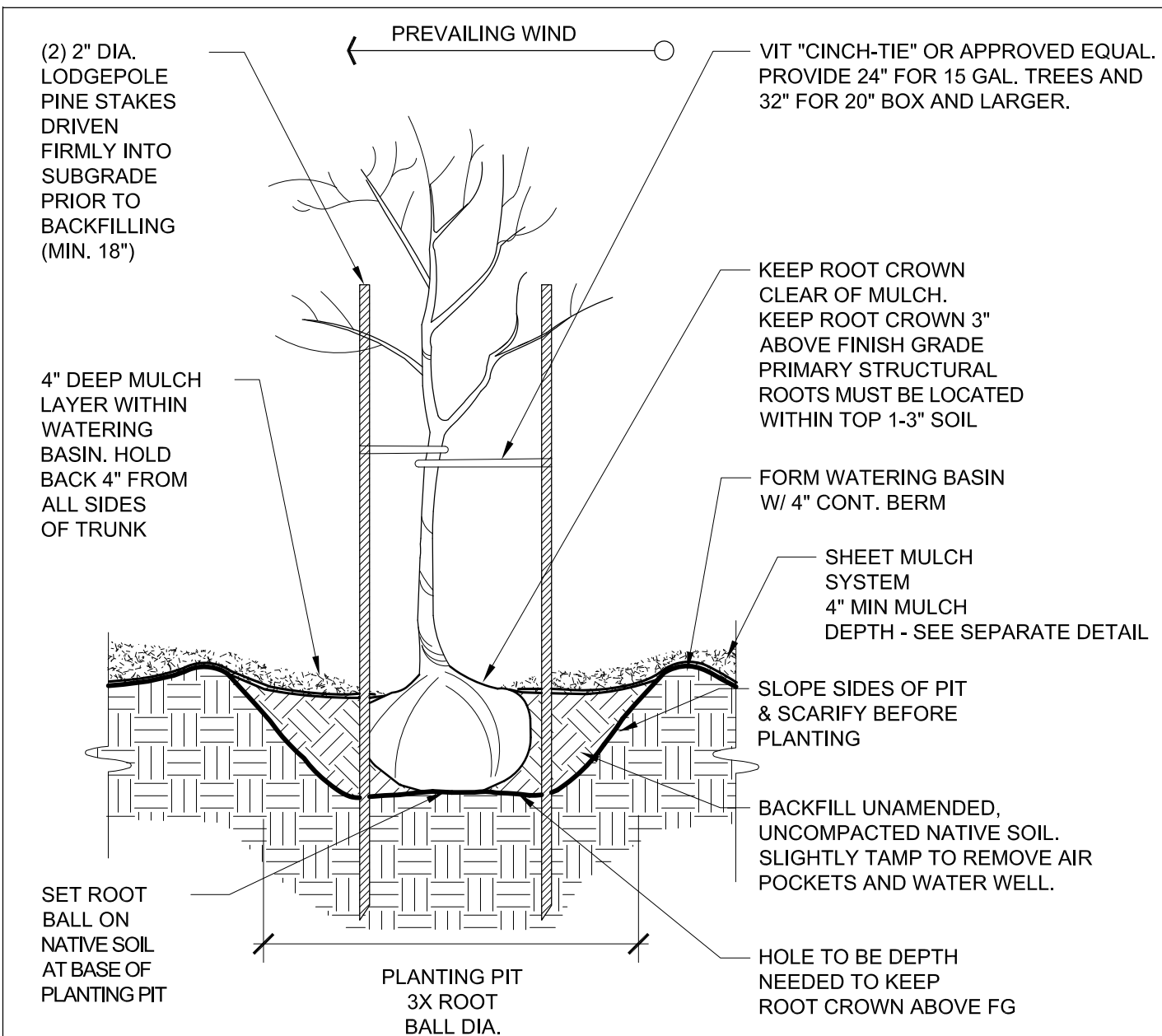
APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS



1 TREE PLANTING & STAKING

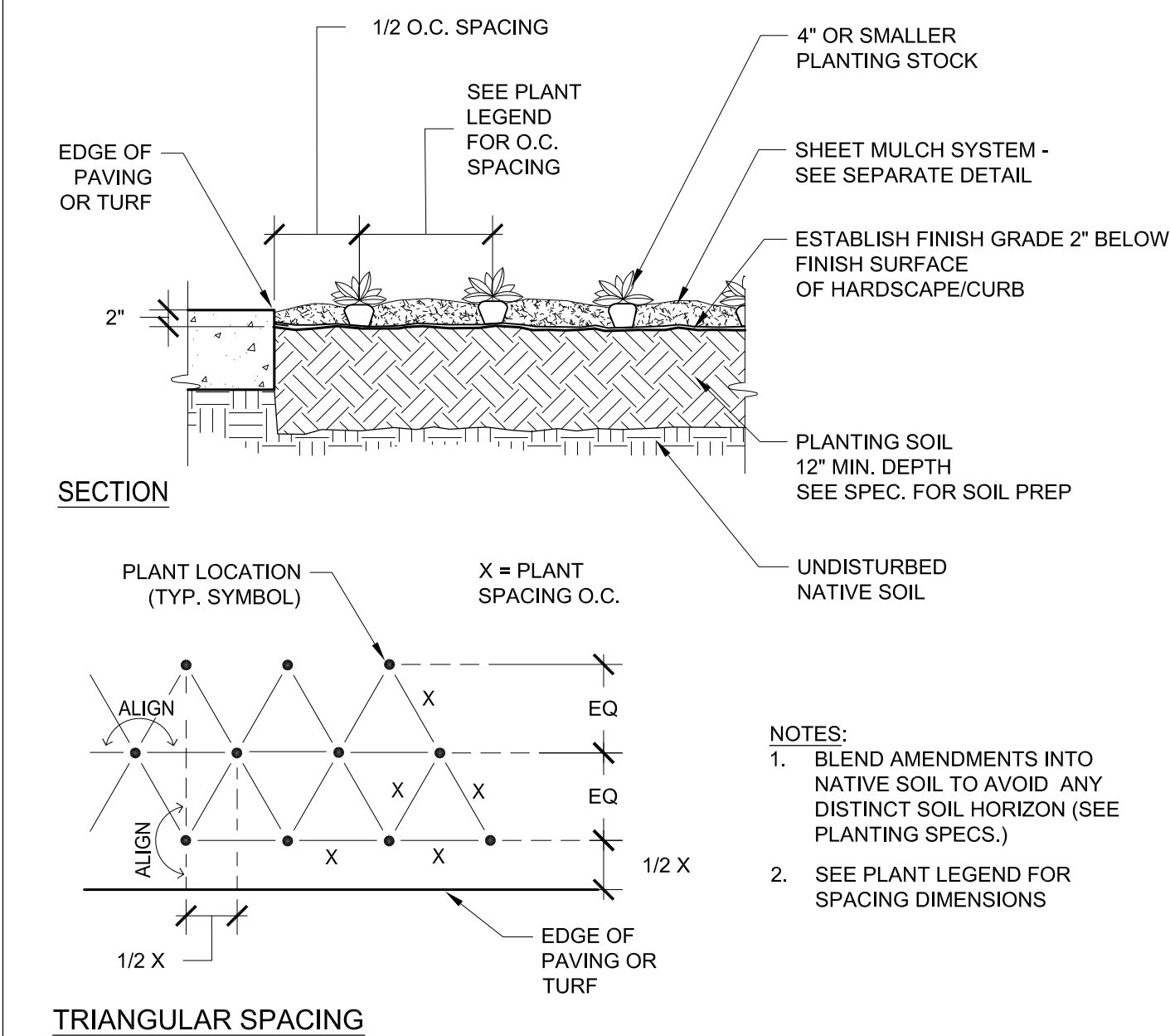
Scale: 1/2" = 1'-0"

2 SHRUB & PERENNIAL PLANTING

Scale: 1" = 1'-0"

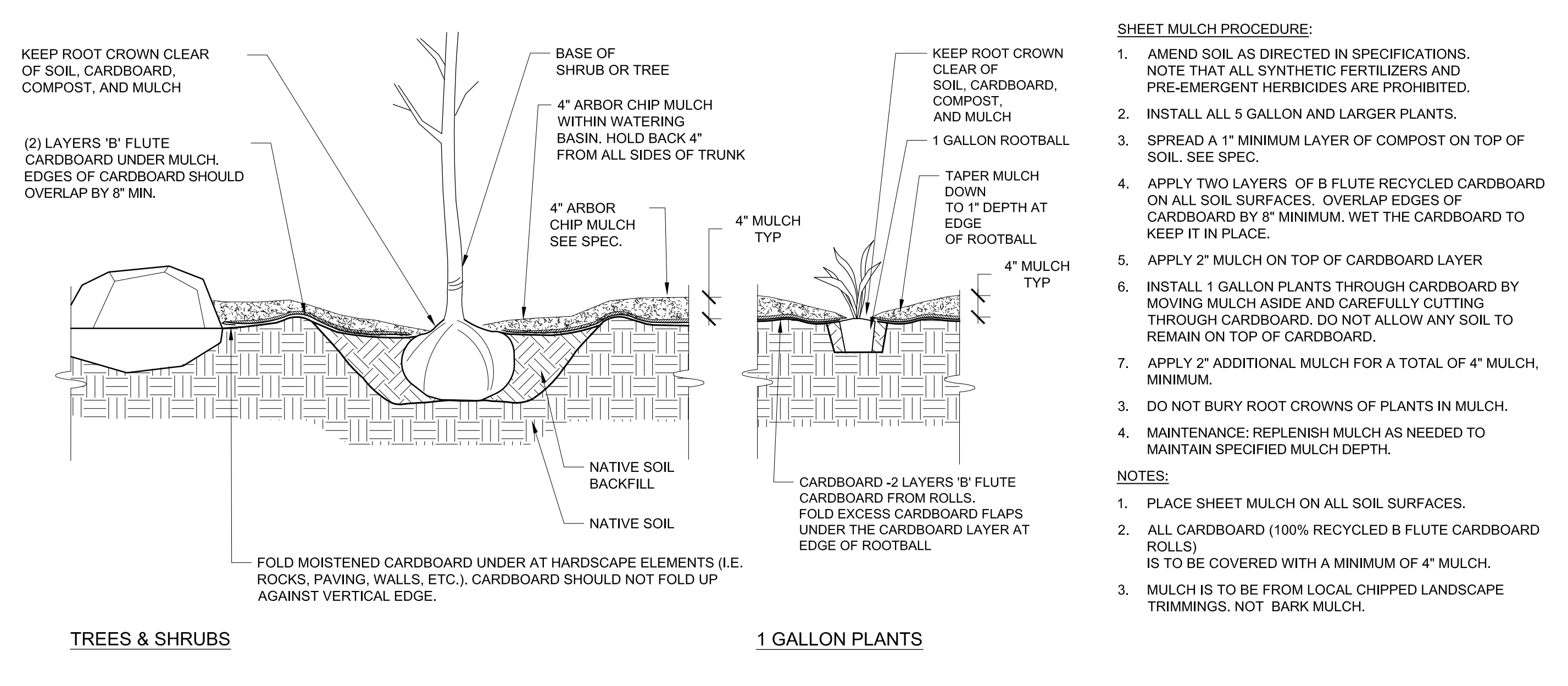
3 SHRUB PLANTING ON SLOPE

Scale: 3/4" = 1'-0"



4 GROUNDCOVER PLANTING

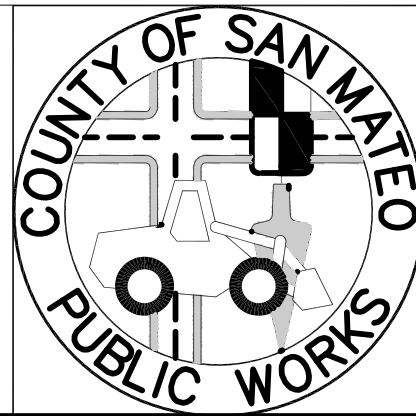
Scale: 3/4" = 1'-0"



5 SHEET MULCH SYSTEM

Scale: 1/2" = 1'-0"










APPROVED DATE:	
MATTHEW S. GABER, DIRECTOR	
MIG	
RLA # 3740 / EXPIRES 6-30-2017	




DESIGNED BY: MG/MB	COYOTE POINT RECREATION AREA		SCALE: AS SHOWN
CHECKED BY: MG	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: AD	LANDSCAPE DETAILS		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE		
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		L-7 SHEET 38 OF 58	

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DRAWING NAME:
PLOT TIME:

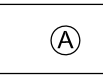

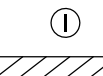


LANDSCAPE IRRIGATION EQUIPMENT LEGEND

SYMBOL	MFG'R	MODEL #	DESCRIPTION	REMARKS	DETAIL(S)
	(OR APPROVED EQUAL)				
			IRRIGATION POINT-OF-CONNECTION (POC)	6-INCH SIZE. REFER TO CIVIL PLANS	N/A
		ET2000e-32-SR-RR-FL WITH ANTENNAS AND TPP	AUTOMATIC IRRIGATION CONTROLLER [C]	32-STATION ENHANCED ET CONTROLLER	5/L-12
	NIBCO	T-113-K	MAINLINE ISOLATION GATE VALVE (3-INCH AND SMALLER)	MAINLINE SIZE	1/L-11
	BUCKNER SUPERIOR	QB44RCAR10	QUICK COUPLER VALVE	1-INCH SIZE (NPT); SINGLE SLOT WITH YELLOW TUFF TOP AND ANTI-ROTATION FEATURE. SUPPLY WITH (2) 1-INCH NPT MALE x 3/4-INCH FEMALE KEYS (MODEL #QB44K10) AND MATCHING 1-INCH MALE HOSE X 1" FEMALE PIPE HOSE SWIVELS (MODEL #HS101)	2/L-11
	HUNTER	ICV-#G	REMOTE CONTROL VALVE (RCV)	SIZE PER PLAN;	3/L-11
	HUNTER	ICZ-101-40 OR ICZ-151-40	DRIP REMOTE CONTROL VALVE ASSEMBLY (DRCV)	SIZE PER PLAN; VALVE SHALL BE INSTALLED WITH INLINE FILTER AND PRESSURE REGULATOR SUPPLIED WITH KIT. VALVES WITH FLOW RATES LESS THAN 20 GPM USE ICZ-101. VALVES WITH FLOW RATES GREATER THAN 20 GPM USE ICZ-151	3/L-11 9/L-13
	PW PIPE		SOLVENT WELD PRESSURE MAINLINE PIPE	SIZE 2-1/2 INCH CLASS 315 PVC FOR MAINLINE PIPE INSTALL WITH TRACE WIRE.	7-8/L-11
	PW PIPE		SOLVENT WELD NON-PRESSURE LATERAL PIPE	SIZE PER PLAN; SCH. 40 PVC	
	PW PIPE		IRRIGATION PIPE/ CONTROL WIRES/ SENSOR WIRE SLEEVE	QUANTITIES SHOWN ON PLANS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL PROVIDE SIZE AND QUANTITY AS REQUIRED. REFER TO PIPE/WIRE SLEEVING CHART FOR SIZE (SHEET #)	

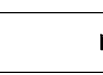

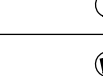



TREE WATER SYSTEMS

SYMBOL	MFG'R	MODEL #	NOZZLE	OPERATING PRESSURE	RADIUS	FLOW	DETAIL(S)
	(OR APPROVED EQUAL)						
	HUNTER	RZWS-36-25	AS SUPPLIED	30 PSI	N/A	0.25 - .50 GPM PER UNIT (TBD BASED UPON SOILS REPORT). CONTRACTOR TO INSTALL (2) UNITS PER TREE.	1/L-12

SUBSURFACE DRIP IRRIGATION SYSTEM

SYMBOL	MFG'R	MODEL #	DESCRIPTION	REMARKS				DETAIL(S)
	(OR APPROVED EQUAL)							
	HUNTER	PLD-AVR	AIR/ VACUUM RELIEF VALVE					7/L-13
	NIBCO		MANUAL FLUSH VALVE					8/L-13
	HUNTER	ECO-INDICATOR	OPERATIONAL INDICATOR	INSTALL AT APPROXIMATE LOCATION SHOWN ON PLANS.				6/L-13
	HUNTER	ECO-WRAP	SUBSURFACE FLEECE WRAPPED DRIPLINE WITH IN-LINE PRESSURE-COMPENSATING EMITTERS WITH BUILT IN CHECK VALVES	OPERATING PSI	EMITTER FLOW	MAX ALLOWED HORZ. SPACING	BURIAL DEPTH	1-5/L-13
				30	0.60 GPH	12-INCHES	6-INCHES	
	NETAFIM	TECHFLOW PC EMITTERS	POINT SOURCE EMITTERS	30	0.50 GPH	NA		3-4/L-12

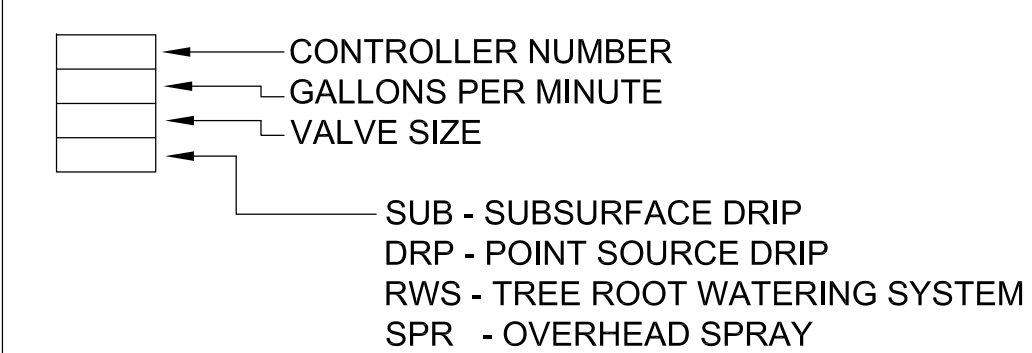
OVERHEAD IRRIGATION LEGEND

SYMBOL	DESCRIPTION	NOZZLE	OPERATING PSI	RADIUS	MAXIMUM FLOW			DETAIL(S)
					90°	180°	360°	
	HUNTER PRO ADJUSTABLE NOZZLE	4A	30	4'	0.13	0.45	0.80	2/L-12
		6A	30	6'	0.37	0.60	1.26	
		8A	30	8'	0.44	0.88	1.76	
		10A	30	10'		1.00	2.00	
		12A	30	12'		1.26	2.52	
		15A	30	15'		1.86	3.72	

GENERAL IRRIGATION LEGEND

SLEEVING:
(#) MAINLINE PIPE SLEEVE QUANTITY
(#) LATERAL PIPE SLEEVE QUANTITY
(#) WIRE SLEEVE QUANTITY
(#) EMPTY SLEEVE QUANTITY

VALVE CALLOUT



PIPE SIZING CALLOUT



GENERAL NOTES

- REFER TO THE IRRIGATION DETAIL SHEETS AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS AND FOR ADDITIONAL INFORMATION.
- ALL MAINLINE, LATERAL PIPE, VALVES, AND OTHER IRRIGATION SYSTEM APPURTENANCES SHOWN IN PAVED AREA IS FOR GRAPHICAL CLARITY ONLY. CONTRACTOR TO PLACE MAINLINE, LATERAL PIPE, VALVES AND ALL IRRIGATION APPURTENANCES WITHIN ADJACENT PLANTING AREAS.
- CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.



Know what's below
Call before you dig.

APPROVED DATE:
MATTHEW S. GABER, DIRECTOR
MIG
RLA # 3740 / EXPIRES 6-30-2017



GENERAL IRRIGATION NOTES

- THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM EXISTING AVERAGE STATIC PRESSURE OF 70 PSI AT THE POINT OF CONNECTION AND A MAXIMUM DEMAND OF 42 GALLONS PER MINUTE (GPM). THE CONTRACTOR SHALL PROVIDE A STATIC PRESSURE TEST AT THE POC FOR APPROVAL BY AGENCY'S REPRESENTATIVE PRIOR TO ORDERING MATERIALS AND PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTIONS TO THE AGENCY'S REPRESENTATIVE. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO SHOW ALL OFFSETS, FITTINGS, AND MISC. EQUIPMENT WHICH MAY BE REQUIRED FOR A COMPLETE SYSTEM. THE CONTRACTOR IS REQUIRED TO INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES WHICH MAY NOT HAVE BEEN CONSIDERED IN THE PREPARATION OF THESE PLANS. IN THE EVENT OF FIELD DIFFERENCES, THE CONTRACTOR IS REQUIRED TO PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE AGENCY'S REPRESENTATIVE. ALL DIMENSIONS, QUANTITIES AND MATERIALS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. IN THE EVENT NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- THE CONTRACTOR IS REQUIRED TO NOTIFY AND COORDINATE LANDSCAPE IRRIGATION CONTRACT WORK WITH ALL APPLICABLE CONTRACTORS AND TRADES FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT, AND SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING, STRUCTURES, ETC., BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REQUIRED REVISIONS.
- IRRIGATION COMPONENTS SHOWN WITHIN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, QUICK COUPLING VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN ADJACENT PLANTING AREAS EXCEPT WHERE PIPES CROSS PAVING OR AS NOTED. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM AND TREES, PLANTINGS, SITE FEATURES AND UTILITIES INCLUDING STORM DRAINAGE.
- INSTALLATION OF THE IRRIGATION SYSTEM UNDER THIS CONTRACT SHALL CONFORM TO ALL LOCAL, COUNTY, AND STATE PROVISIONS, INCLUDING THOSE STATED IN THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE, AND THE NATIONAL ELECTRIC CODE. IN THE EVENT OF DIFFERENCES BETWEEN THE CODE COMPLIANCE REQUIREMENTS OF THIS CONTRACT, THE BETTER QUALITY, HIGHER STANDARD, LARGER SIZE, AND MORE STRINGENT REQUIREMENT SHALL PREVAIL.
- PRIOR TO ANY TRENCHING THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL NEW AND EXISTING UNDERGROUND UTILITY LINES. CALL 811 A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER TO MAINTAIN GOOD PLANT HEALTH, APPEARANCE AND REASONABLE GROWTH. THE AMOUNT OF SUPPLEMENTAL WATER A PLANT REQUIRES IS DEPENDENT ON SOIL TYPE, PLANT MATERIAL, ROOTING DEPTH, CLIMATE, SEASONAL CHANGES, SLOPES, MOUNDS, SUN, SHADE AND WIND. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE IRRIGATION SCHEDULE AND ET VARIABLES AS NEEDED. IN ADDITION, THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL WATER TO ACCOMMODATE SPECIAL WATERING NEEDS OF PLANT MATERIAL THROUGH THE MAINTENANCE PERIOD. ACTUAL STATION RUN TIMES MAY VARY IN ACCORDANCE WITH VARYING SITE CONDITIONS.
- CONTRACTOR SHALL ADJUST THE PLACEMENT OF THE DRIPLINE LAYOUT AS PER ACTUAL FIELD CONDITIONS TO ACHIEVE FULL COVERAGE OF ALL PLANTED AREAS. THE CONTRACTOR WILL BE RESPONSIBLE OF INSTALLING ADDITIONAL DRIPLINE, AS NEEDED, TO PROVIDE ADEQUATE COVERAGE, AT NO ADDITIONAL COST TO THE CLIENT. REFER TO IRRIGATION EQUIPMENT LEGEND FOR MAXIMUM ALLOWED VERTICAL DRIPLINE SPACING.
- IRRIGATION SYSTEM SHALL BE OPERATIONAL & COVERAGE APPROVED BY THE AGENCY'S REPRESENTATIVE PRIOR TO INSTALLATION OF PLANTING MATERIAL.
- THE CONTRACTOR SHALL FLUSH ALL EMISSION EQUIPMENT FOR OPTIMUM PERFORMANCE TO PROVIDE OPTIMAL EVEN DISTRIBUTION OF WATER, AND TO PROVIDE PROPER COVERAGE.
- SUBSURFACE EMITTER FLOW RATE, EMITTER SPACING AND LATERAL SPACING IS BASED ON TYPICAL SOILS ENCOUNTERED IN THE AREA. THE CONTRACTOR SHALL MAKE ANY MODIFICATION TO EMITTER FLOW RATE, EMITTER SPACING, AND LATERAL SPACING AS REQUIRED TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR AN EVEN WETTED PATTERN, BASED ON ACTUAL SOIL ANALYSIS. REFER TO DRIPLINE MANUFACTURER RECOMMENDATIONS FOR ADDITIONAL INFORMATION. FINAL EMITTER SPACING AND FLOW RATE TO BE APPROVED BY THE CLIENT REPRESENTATIVE.
- DRAINAGE OF IRRIGATION WATER THROUGH DRIP EMITTERS WILL NOT BE ALLOWED. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL ADDITIONAL IN-LINE CHECK VALVES AS REQUIRED IN ANY AREA WHERE EMISSION DEVICES SHOW SIGNS OF DRAINAGE AFTER IRRIGATION SYSTEM HAS OPERATED FROM AN ON TO OFF POSITION. INSTALLATION OF ADDITIONAL IN-LINE CHECK VALVES SHALL BE INCLUDED IN THE BID PRICE WITHOUT ADDITIONAL COST TO THE CLIENT.
- CONTRACTOR SHALL ADJUST THE DRIPLINE LAYOUT, WHEN PLANTER SLOPE IS GREATER THAN 5 PERCENT, TO PROVIDE LATERAL ROW SPACING THAT IS 25 PERCENT GREATER WITHIN THE BOTTOM ONE-THIRD OF THE SLOPE.
- LOCATIONS AND THE QUANTITIES OF FLUSH VALVES AND AIR/VACUUM RELIEF VALVES (AVRV) SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING HIGHEST POINTS OF EACH HYDROZONE AND LOCATING AVRV'S AS REQUIRED AND FOR INSTALLING ADDITIONAL FLUSH VALVES, AS NEEDED, ACCORDING TO MANUFACTURER'S GALLONS PER HOUR REQUIREMENTS PER HYDROZONE AT NO ADDITIONAL COST TO THE CLIENT.
- ALL VALVES PROVIDING IRRIGATION TO SLOPES AREAS SHALL BE SCHEDULED IN MULTIPLE, SHORT CYCLES TO HELP ELIMINATE IRRIGATION WATER RUNOFF.
- ALL IRRIGATION EQUIPMENT SHALL BE AS LISTED OR EQUAL AS APPROVED BY THE AGENCY'S REPRESENTATIVE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND COORDINATE AND PROVIDE THE FINAL CONNECTION OF THE CONTROLLER TO ITS DEDICATED POWER SOURCE. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR AND SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND ALL STATE AND LOCAL CODES AND REGULATIONS.
- SEE IRRIGATION DETAILS, TECHNICAL SPECIFICATIONS AND PLANTING PLANS AS PART OF THESE CONSTRUCTION DOCUMENTS.
- SEE CIVIL FOR EXISTING TREE PROTECTION.

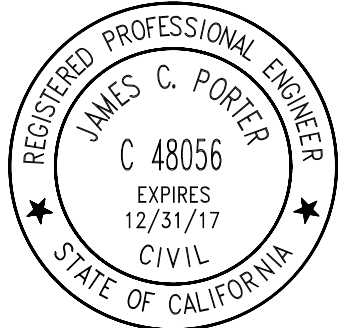
PIPE SIZING CHART (FOR REFERENCE ONLY) SCHEDULE 40 IPS U.S. PVC PLASTIC PIPE	
SIZE	GALLONS PER MINIMUM (GPM)
0.75"	1-3
1"	3-6
1.25"	6-12
1.5"	12-18
2"	18-30

PIPE/WIRE SLEEVING CHART (FOR REFERENCE ONLY)	
PVC SLEEVE SIZE (PVC SCH. 40 PVC)	IRRIGATION PIPE/ WIRING CONDUIT MAXIMUM SIZE
1.25"	N/A
1.5"	0.5"
2"	0.75"
2.5"	1"
3"	1.25"
4"	1.25" - 2"
6"	2.5" - 3"
8"	4"
12"	6"

MAXIMUM NUMBER OF WIRES TO BE INSTALLED SLEEVING OR CONDUIT (FOR REFERENCE ONLY)							
WIRE SIZE	CONDUIT / SLEEVE SIZE						
	1.25"	1.5"	2"	2.5"	3"	4"	6"
MAXIMUM AMOUNT OF WIRES ALLOWED							
14	1 - 18	25	40	56	88	120	120+
12	1 - 15	20	33	50	75	102	102+
10	1 - 13	16	27	40	63	85	85+

DATE: _____

MARLENE FINLEY, DIRECTOR OF PARKS



APPROVED:

DATE: _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

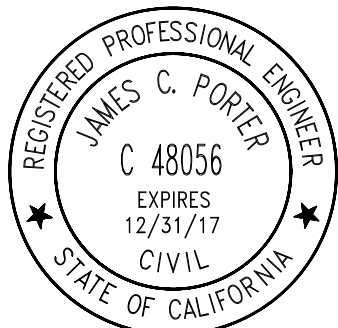
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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L-8
SHEET 39 OF 58

DATE: _____

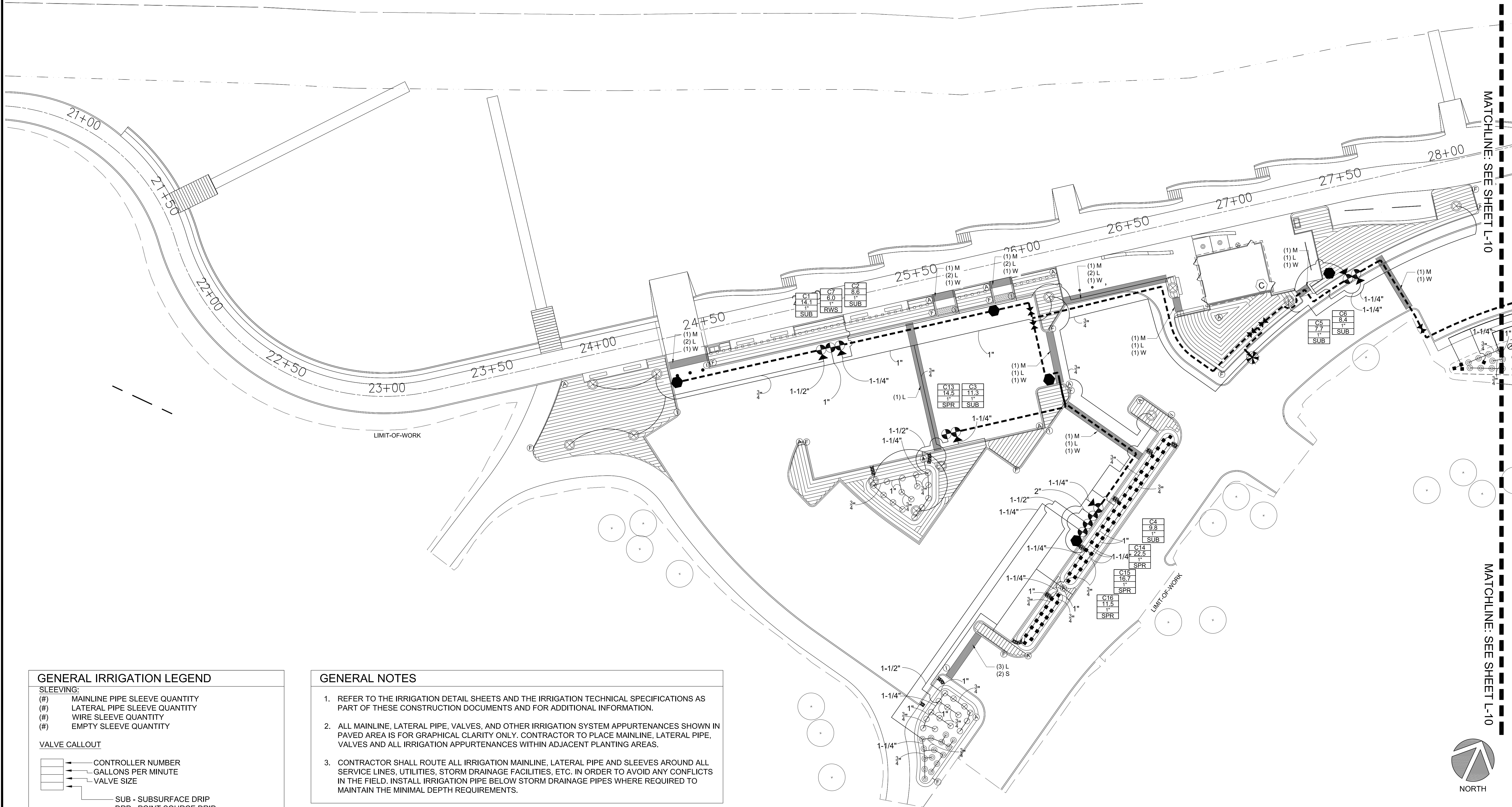
MARLENE FINLEY, DIRECTOR OF PARKS



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JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017



GENERAL IRRIGATION LEGEND

SLEEVING:

- (#) MAINLINE PIPE SLEEVE QUANTITY
- (#) LATERAL PIPE SLEEVE QUANTITY
- (#) WIRE SLEEVE QUANTITY
- (#) EMPTY SLEEVE QUANTITY

VALVE CALLOUT

- CONTROLLER NUMBER
- GALLONS PER MINUTE
- VALVE SIZE

- SUB - SUBSURFACE DRIP
- DRP - POINT SOURCE DRIP
- RWS - TREE ROOT WATERING SYSTEM
- SPR - OVERHEAD SPRAY

PIPE SIZING CALLOUT

LIMIT-OF-WORK

GENERAL NOTES

- REFER TO THE IRRIGATION DETAIL SHEETS AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS AND FOR ADDITIONAL INFORMATION.
- ALL MAINLINE, LATERAL PIPE, VALVES, AND OTHER IRRIGATION SYSTEM APPURTENANCES SHOWN IN PAVED AREA IS FOR GRAPHICAL CLARITY ONLY. CONTRACTOR TO PLACE MAINLINE, LATERAL PIPE, VALVES AND ALL IRRIGATION APPURTENANCES WITHIN ADJACENT PLANTING AREAS.
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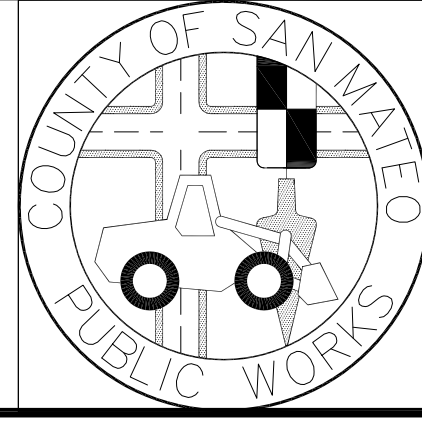


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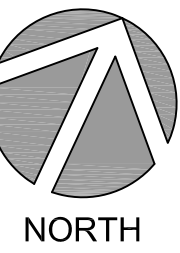
MATTHEW S. GABER, DIRECTOR

MIG

RLA # 3740 / EXPIRES 6-30-2017

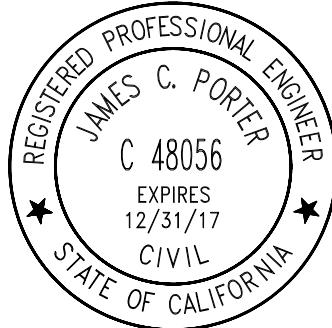


		DESIGNED BY: JUL	COYOTE POINT RECREATION AREA		SCALE: 1" = 20'-0"
		CHECKED BY: MG	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
		DRAWN BY: JUL/TD	IRRIGATION PLAN		FILE NO.: E4948
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th Floor REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE				
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			<div><div></div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>		L-9 SHEET 40 OF 58



MATCHLINE: SEE SHEET L-10

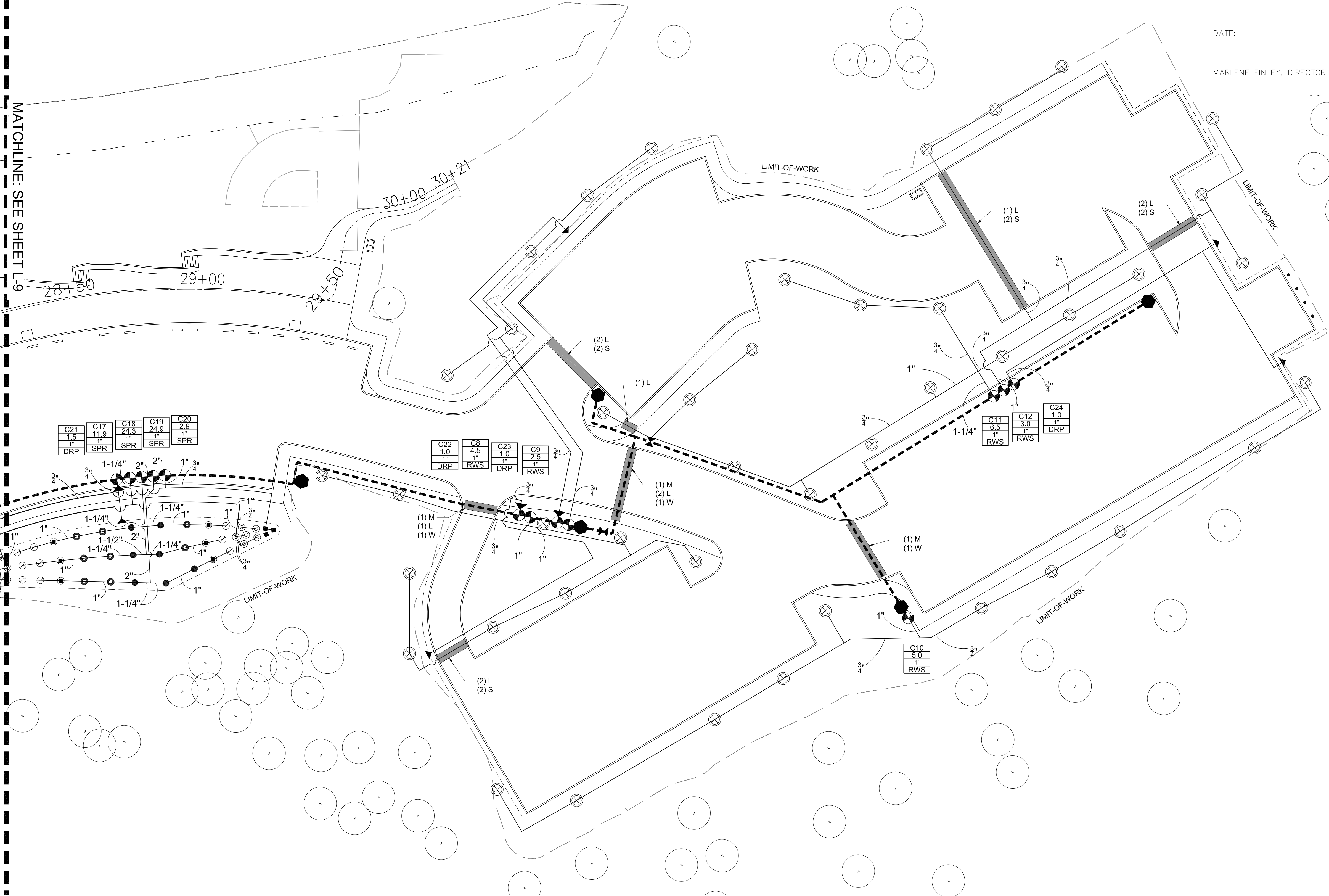
MATCHLINE: SEE SHEET L-10



APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

MATCHLINE: SEE SHEET L-9



GENERAL IRRIGATION LEGEND

- SLEEVING:**
(#) MAINLINE PIPE SLEEVE QUANTITY
(#) LATERAL PIPE SLEEVE QUANTITY
(#) WIRE SLEEVE QUANTITY
(#) EMPTY SLEEVE QUANTITY
- VALVE CALLOUT**
- | |
|--------------------|
| CONTROLLER NUMBER |
| GALLONS PER MINUTE |
| VALVE SIZE |
- SUB - SUBSURFACE DRIP
DRP - POINT SOURCE DRIP
RWS - TREE ROOT WATERING SYSTEM
SPR - OVERHEAD SPRAY
- #" PIPE SIZING CALLOUT
- LIMIT-OF-WORK

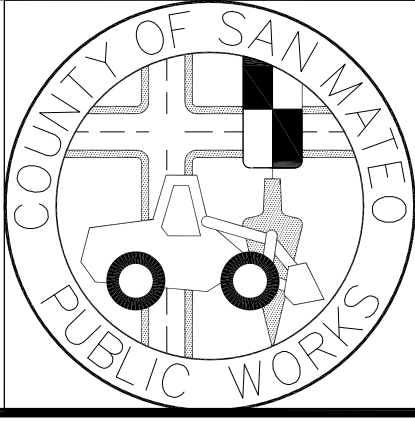
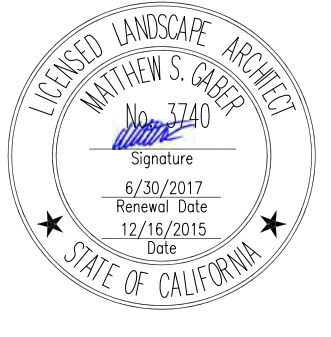
GENERAL NOTES

1. REFER TO THE IRRIGATION DETAIL SHEETS AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS AND FOR ADDITIONAL INFORMATION.
2. ALL MAINLINE, LATERAL PIPE, VALVES, AND OTHER IRRIGATION SYSTEM APPURTENANCES SHOWN IN PAVED AREA IS FOR GRAPHICAL CLARITY ONLY. CONTRACTOR TO PLACE MAINLINE, LATERAL PIPE, VALVES AND ALL IRRIGATION APPURTENANCES WITHIN ADJACENT PLANTING AREAS.
3. CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.

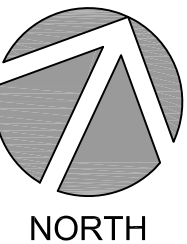


Know what's below
Call before you dig.

APPROVED DATE: _____
MATTHEW S. GABER, DIRECTOR
MIG
RLA # 3740 / EXPIRES 6-30-2017

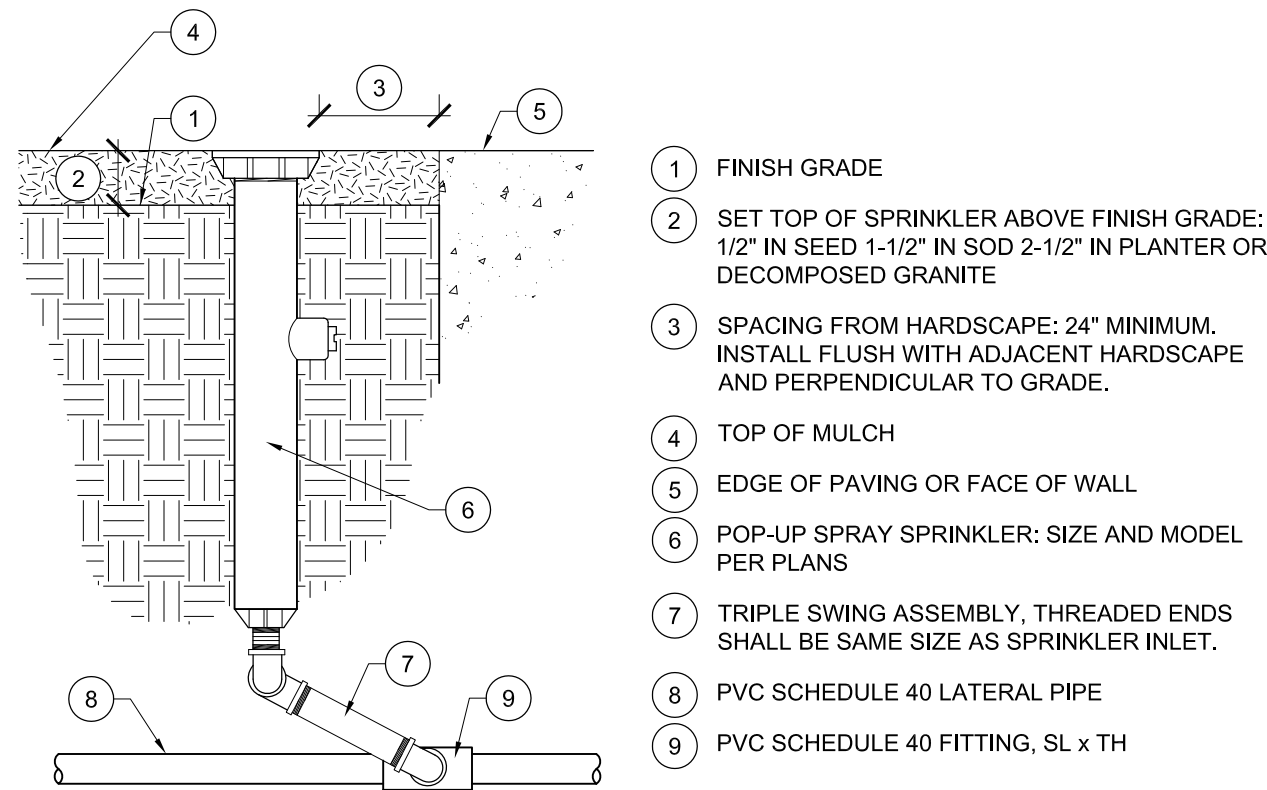


		DESIGNED BY: JUL	COYOTE POINT RECREATION AREA		SCALE: 1" = 20'-0"
		CHECKED BY: MG	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
		DRAWN BY: JUL/TD	IRRIGATION PLAN		FILE NO.: E4948
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
		SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE				
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			
		<div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>			
		<div>L-10</div> <div>SHEET 41 OF 58</div>			

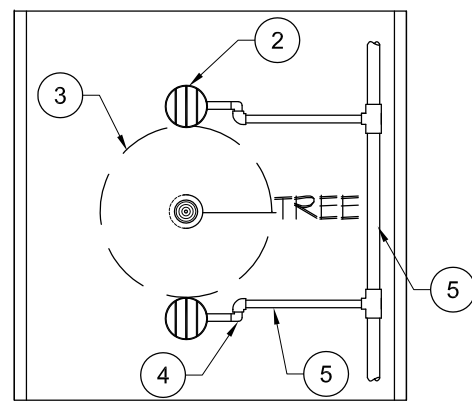


NORTH

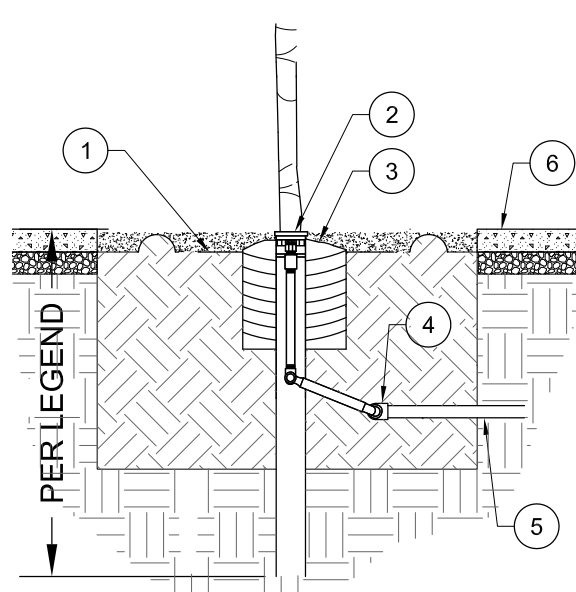
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09/09/16
DRAWING NAME: L-12
PLOT TIME:



- 1 FINISH GRADE
- 2 SET TOP OF SPRINKLER ABOVE FINISH GRADE: 1/2" IN SEED 1-1/2" IN SOD 2-1/2" IN PLANTER OR DECOMPOSED GRANITE
- 3 SPACING FROM HARDSCAPE: 24" MINIMUM. INSTALL FLUSH WITH ADJACENT HARDSCAPE AND PERPENDICULAR TO GRADE.
- 4 TOP OF MULCH
- 5 EDGE OF PAVING OR FACE OF WALL
- 6 POP-UP SPRAY SPRINKLER: SIZE AND MODEL PER PLANS
- 7 TRIPLE SWING ASSEMBLY, THREADED ENDS SHALL BE SAME SIZE AS SPRINKLER INLET.
- 8 PVC SCHEDULE 40 LATERAL PIPE
- 9 PVC SCHEDULE 40 FITTING, SL x TH



TREE PLAN VIEW



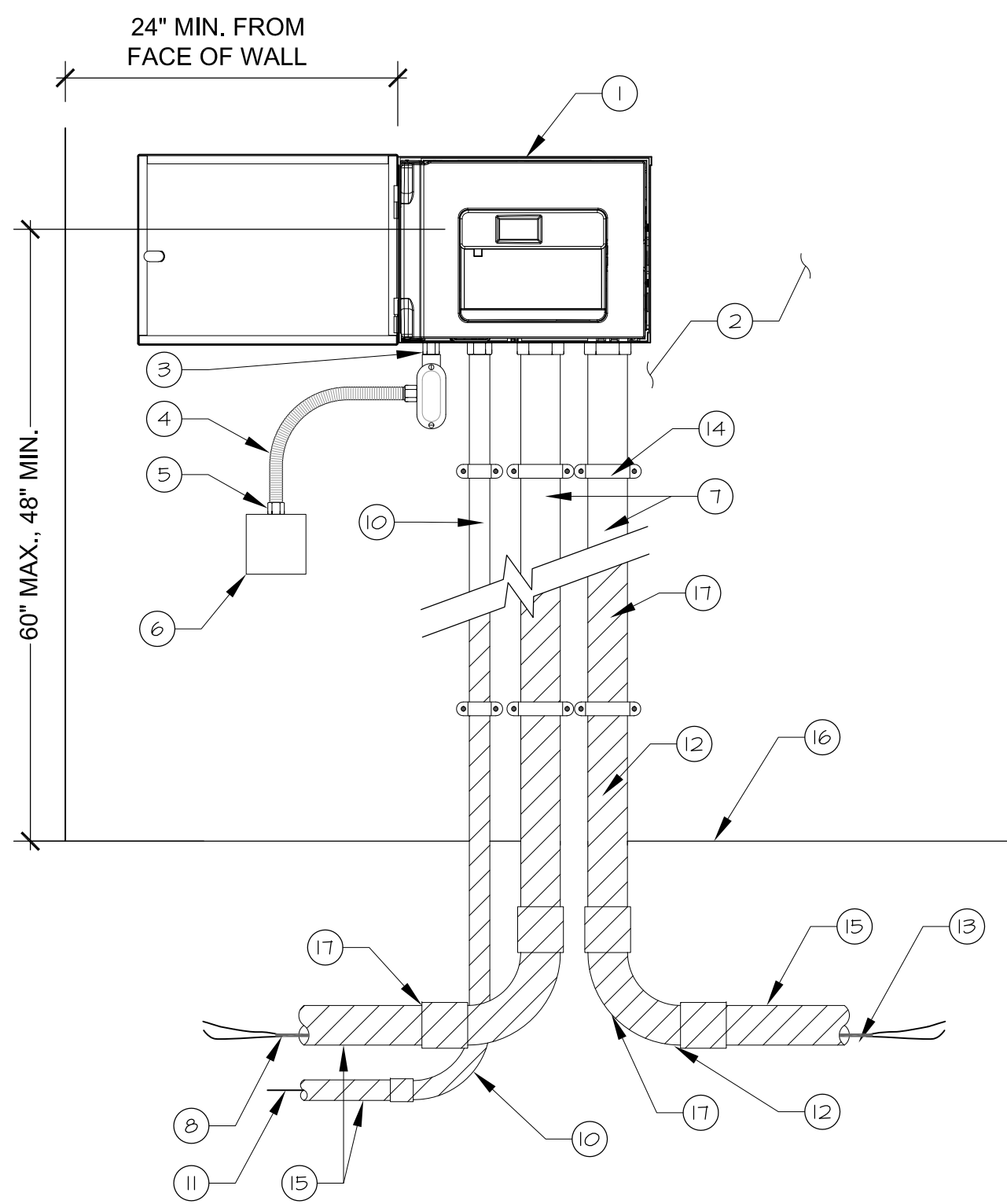
- 1 FINISH GRADE
- 2 SET TOP OF DEEP ROOT WATERING SYSTEM SO THAT TOP IS APPROXIMATELY 1/4" ABOVE FINAL GRADE OF SETTLED MULCH. (TYPICAL 2 PER TREE/SHRUB.)
- 3 ROOT BALL
- 4 PVC SCHEDULE 40 FITTING, (TYP.)
- 5 NON-PRESSURE PVC LATERAL PIPE PER IRRIGATION PLAN.
- 6 ADJACENT SURFACE (HARDSCAPE, PLANTER ETC.)

2 POP-UP SPRAY BODY

Scale: NTS

1 TREE ROOT WATERING SYSTEM

Scale: N.T.S.



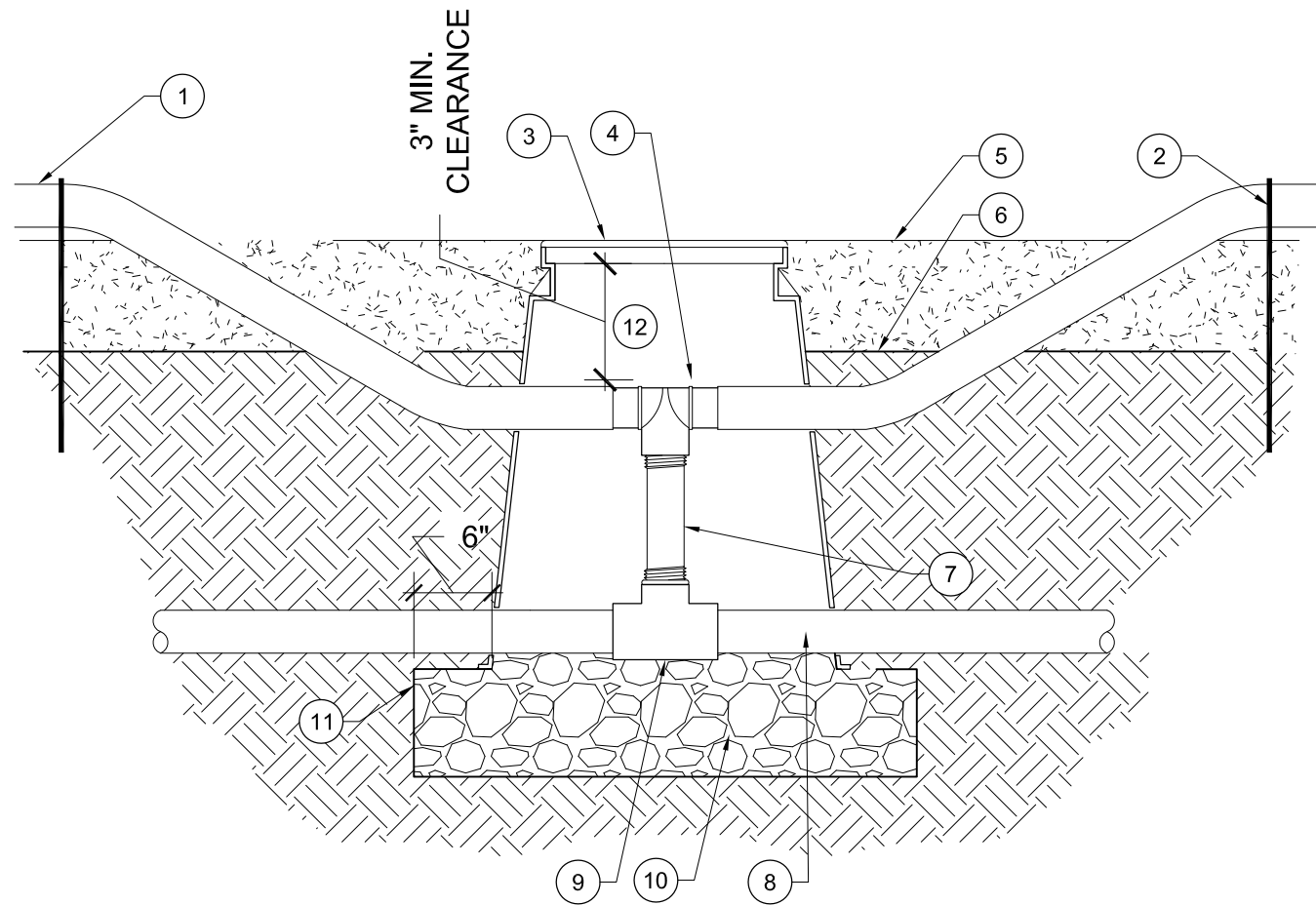
- 1 AUTOMATIC IRRIGATION CONTROLLER WITHIN WALL MOUNTED METAL CABINET.
- 2 INTERIOR WALL.
- 3 3/4" RIGID LIQUID TIGHT INSULATED STRAIGHT CONNECTOR, TYP. 3/4" RIGID CONDUIT BODY WITH GASKET AND COVER, TYP.
- 4 3/4" FLEXIBLE POWER SUPPLY CONDUIT WITH 2 #10 THW, 1 #8 GRD. INTO J-BOX INSIDE CONTROLLER. CONNECT PER LOCAL CODE AND ORDINANCES.
- 5 3/4" LIQUID-TIGHT INSULATED CONNECTOR, TYP.
- 6 4" SQ. J-BOX WITH 1/2" RAISED WATERPROOF COVER TO HOUSE CONNECTION TO 120 VAC POWER SUPPLY.
- 7 RIGID CONTROL WIRE CONDUIT TO MAINLINE. 2" SIZE.
- 8 DIRECT BURIAL REMOTE CONTROL WIRES TO REMOTE CONTROL VALVES.
- 9 SUPPLEMENTAL GROUNDING 1" RIGID CONDUIT.
- 10 SUPPLEMENTAL RIGID GROUNDING CONDUIT SWEEP BELLED ON BOTH ENDS, 8" MINIMUM RADIUS.
- 11 SUPPLEMENTAL GROUND WIRE. GROUND PER ASIC GUIDELINES.
- 12 RIGID CONTROL WIRE CONDUIT WITH APPROPRIATE SWEEP FITTINGS TO MAINLINE. 2" SIZE. BY OTHERS.
- 13 DIRECT BURIAL REMOTE CONTROL WIRES TO REMOTE CONTROL VALVES, HYDROMETER AND SPARE WIRE LOCATIONS.
- 14 GALV. CLIPS @ 12" O.C. INSTALL CONDUIT FLUSH TO WALL IN STRAIGHT VERTICAL ALIGNMENT, TYP.
- 15 SCHEDULE 40 PVC CONDUIT. SIZE AS REQUIRED.
- 16 FINISH FLOOR
- 17 EMPTY CONDUITS FROM THE EXTERIOR TO THE INTERIOR OF THE BUILDING WILL BE PROVIDED BY OTHERS. STUB OUTS WILL BE PROVIDED WITHIN 10' OF CONTROLLER. CONTRACTOR SHALL EXTEND AND CONNECT CONDUITS AND PULL WIRES FROM THE EXTERIOR TO THE CONTROLLER. COORDINATE WITH OTHER TRADES AS REQUIRED.

NOTES:

1. ALL ELECTRICAL WORK SHALL CONFORM TO LOCAL CODES AND ORDINANCES.
2. REFER TO MANUFACTURER FOR MOUNTING INSTRUCTIONS.
3. EXACT PLACEMENT OF UNIT SHALL BE DETERMINED BY ARCHITECT.
4. SEAL ALL CONDUIT ENDS WITH DUCT SEAL.
5. REFER TO CONTROLLER MANUFACTURED STANDARD DETAILS FOR ADDITIONAL INFORMATION.

5 WALL MOUNTED AUTOMATIC IRRIGATION CONTROLLER

Scale: N.T.S.



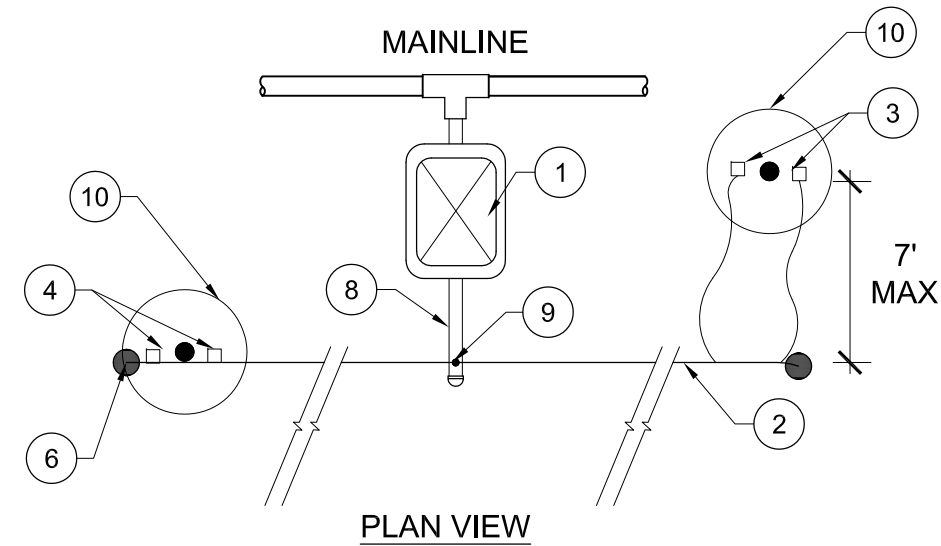
- 1 1" POLYETHYLENE TUBING
- 2 TUBING STAKE, TYP.
- 3 6" ROUND VALVE BOX
- 4 1" BARBED INSERT FITTING (IXIFIT) MANUFACTURED BY SPEARS OR APPROVED EQUAL
- 5 TOP OF MULCH
- 6 FINISH GRADE
- 7 PVC SCH 80 CLOSE NIPPLE, 6" LENGTH
- 8 PVC LATERAL PIPE
- 9 PVC SCH 40 TEE OR ELL
- 10 3/4" CRUSHED ROCK, 6" MIN. DEPTH
- 11 1/4" GALVANIZED WIRE CLOTH
- 12 3" MINIMUM CLEARANCE BETWEEN BOTTOM OF VALVE COVER TO TOP OF TEE FITTING

3 DRIP LINE CONNECTION TO PVC LATERAL IN ACCESS BOX

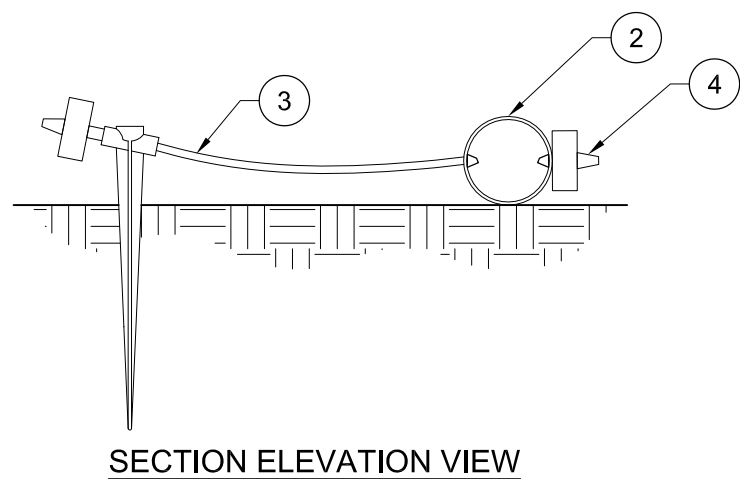
Scale: N.T.S.

NOTES:

1. REFER TO LEGEND FOR MANUFACTURER, MODEL, AND NUMBER REQUIRED PER PLANT.
2. INSTALL EMITTERS TO ENSURE THEY DO NOT TOUCH GROUND.
3. PVC LATERAL TO BE PLACED PER PLANS.
4. SECURE 1" POLY TUBE TO GROUND WITH METAL STAPLES AT 36" O.C. SPACING.



PLAN VIEW



SECTION ELEVATION VIEW

- 1 REMOTE CONTROL DRIP ZONE.
- 2 1" POLYETHYLENE TUBING, LOOPED TO PVC LATERAL LINE. SPACED 12' APART MAXIMUM.
- 3 1/4" DISTRIBUTION TUBING WITH EMITTER.
- 4 EMITTER ATTACHED DIRECTLY TO 1" POLYETHYLENE TUBING WHERE POSSIBLE REQUIRED.
- 5 NOT USED.
- 6 MANUAL FLUSH VALVE: 1" PVC SCH. 40 THREADED ADAPTER WITH THREADED CAP. INSTALL AT THE END OF POLY. LINE
- 7 NOT USED.
- 8 PVC LATERAL SUPPLY LINE. SIZE PER PLANS.
- 9 DRIP LINE CONNECTION TO PVC LATERAL IN ACCESS BOX. REFER TO DETAIL 7, SHEET DI-1.
- 10 SHRUB OR TREE, TYP.

4 ON-SURFACE DRIP SYSTEM LAYOUT

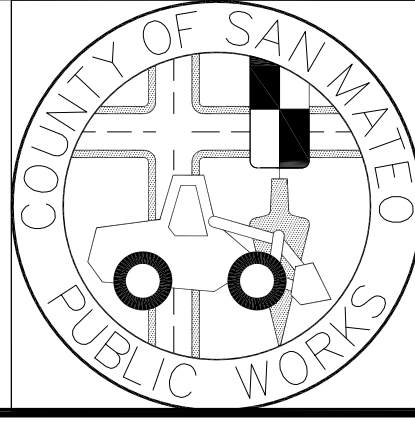
Scale: N.T.S.

APPROVED DATE:

MATTHEW S. GABER, DIRECTOR

MIG

RLA # 3740 / EXPIRES 6-30-2017



DESIGNED BY:	JUL
CHECKED BY:	MG
DRAWN BY:	JUL
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	
SAN MATEO COUNTY	

COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT
IRRIGATION DETAILS

SCALE: AS SHOWN
DATE: 9/9/2016
FILE NO.: E4948

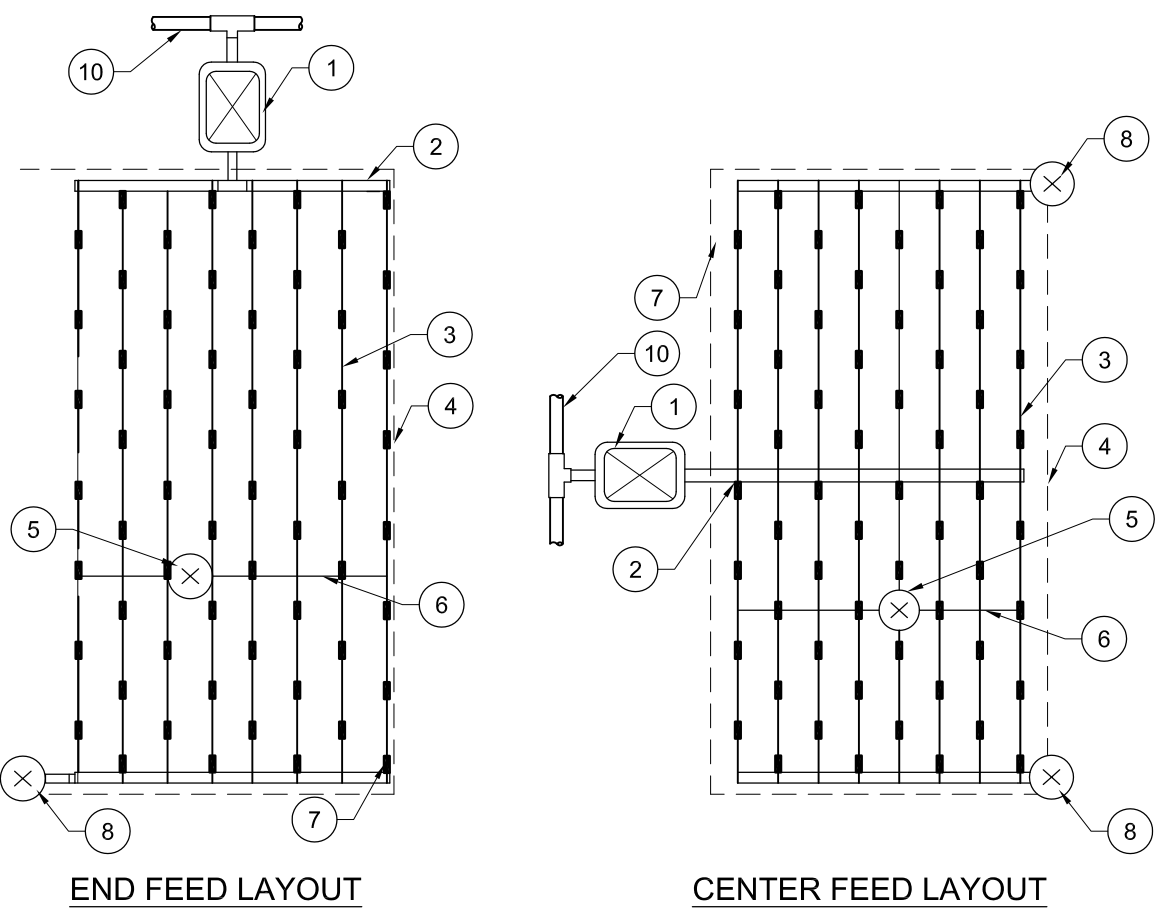
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



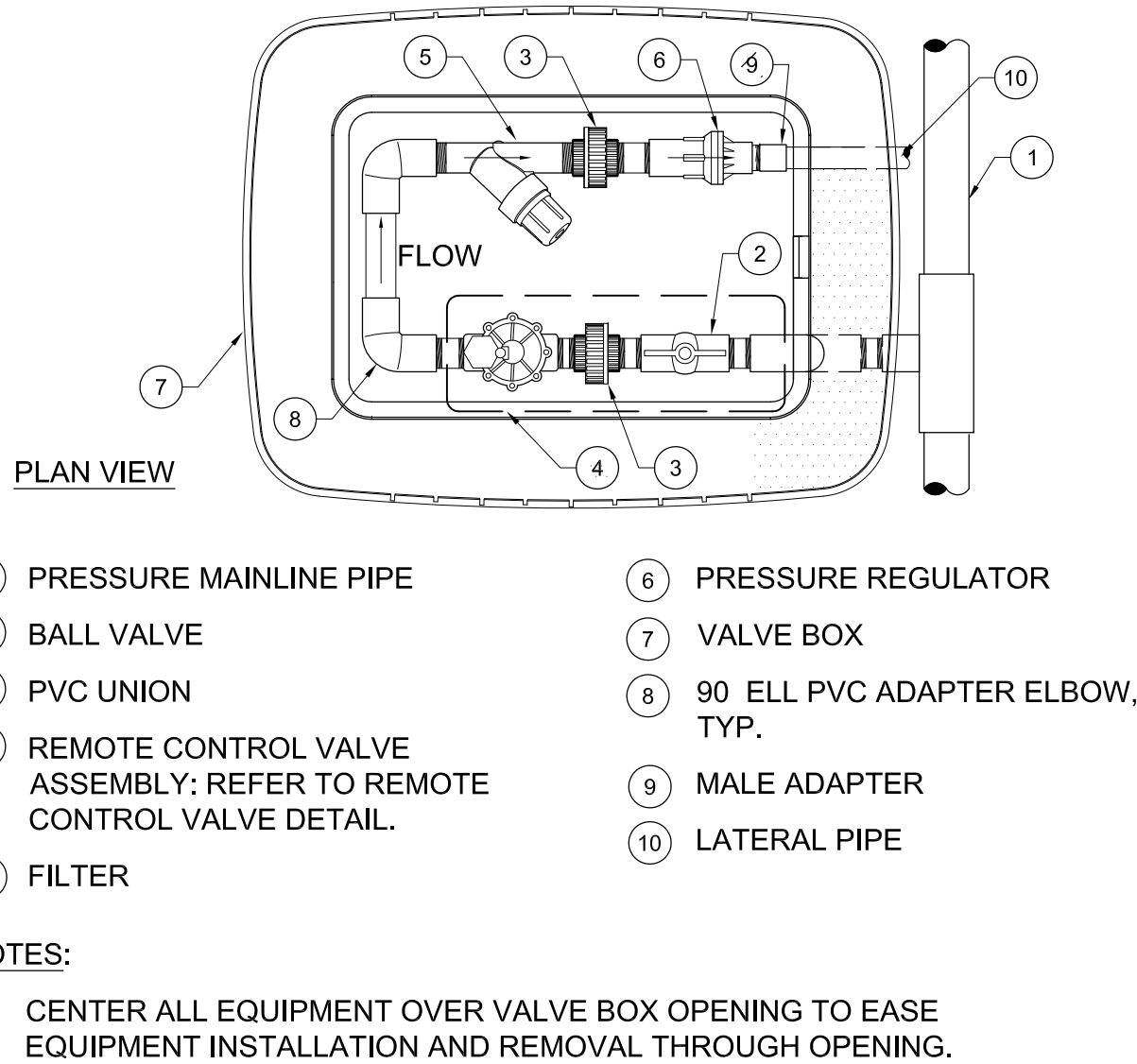
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SHEET 43 OF 58

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09/09/16
DRAWING NAME:
PLOT TIME:

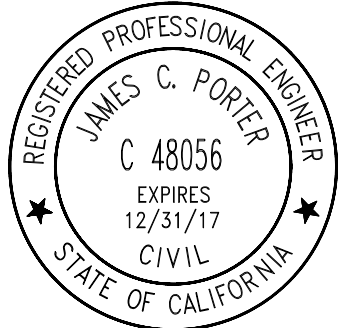


NOTE:
REFER TO PLANS FOR CONNECTION FROM NON-PRESSURE PVC LATERAL SUPPLY LINE TO DRIP LINES.

- 1 REMOTE CONTROL DRIP ASSEMBLY IN VALVE BOX PER PLAN
- 2 NON-PRESSURE PVC LATERAL SUPPLY LINE, PER PLAN
- 3 DRIP LINE TUBING LATERAL PER IRRIGATION LEGEND
- 4 PLANTING AREA PERIMETER (SEE PLANS)
- 5 AIR/VACUUM RELIEF VALVE PER IRRIGATION LEGEND. INSTALL AT HIGH POINT OF SYSTEM, LOCATED IN FIELD
- 6 AIR/VACUUM RELIEF LATERAL BLANK DRIPLINE TUBING; CONNECT TO PERPENDICULAR TO DRIP LINE USING BARBED INSERT CROSS
- 7 INSTALL PERIMETER SUBSURFACE DRIPPERLINE 2"-4" FROM HARDSCAPE, MOW CURB, HEADER, ETC.
- 8 FLUSH VALVE PER IRRIGATION LEGEND. PLUMBED TO DRIP LINE OR NON-PRESSURE PVC LATERAL SUPPLY LINE
- 9 NOT USED
- 10 PRESSURE MAINLINE PER PLAN



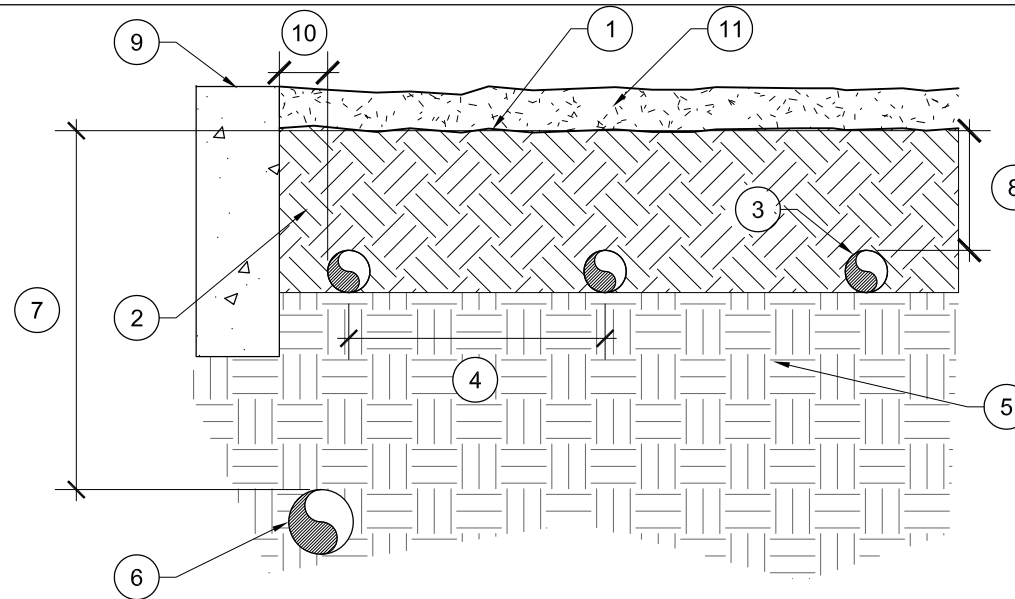
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



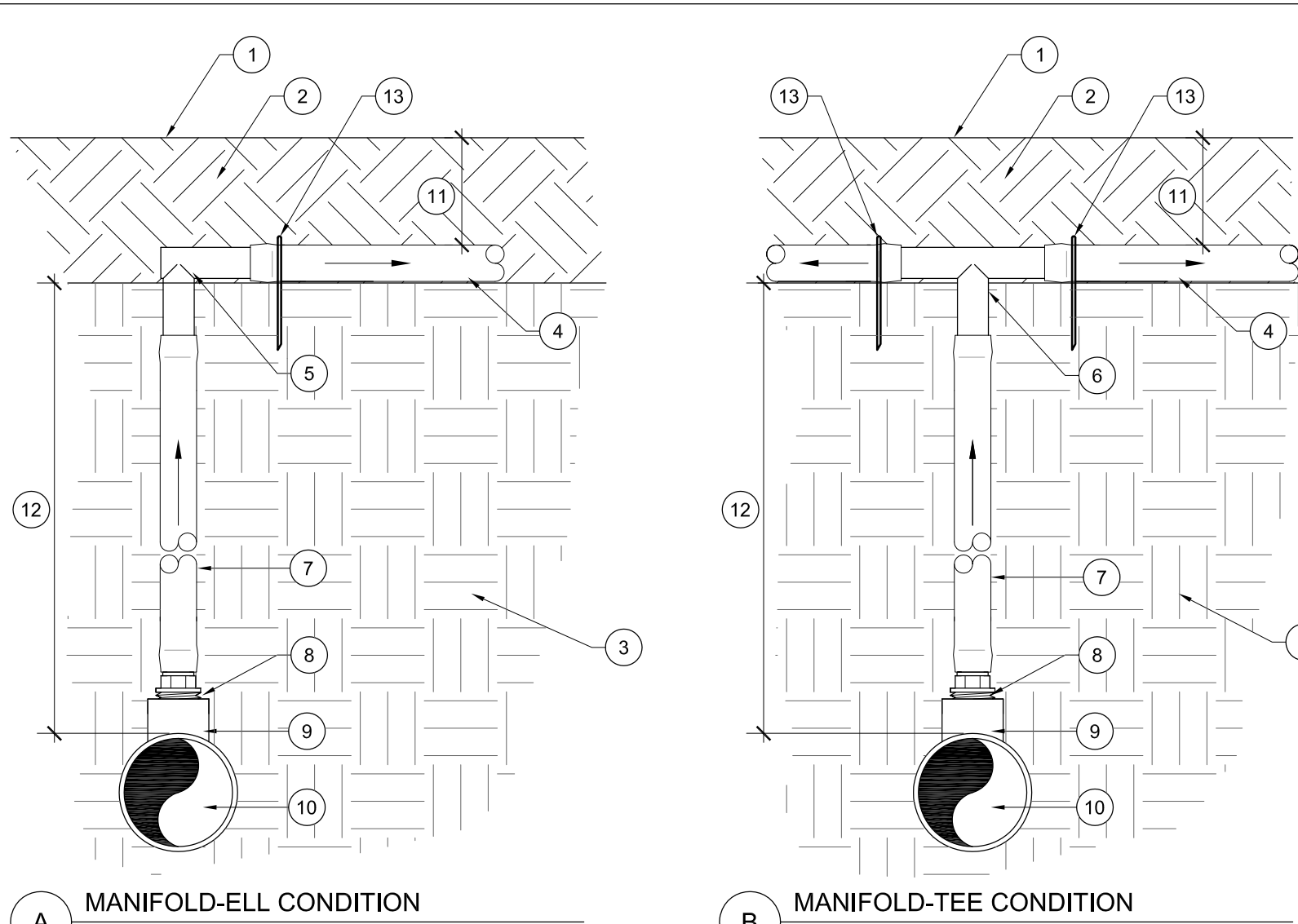
APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

2 DRIPLINE LAYOUT

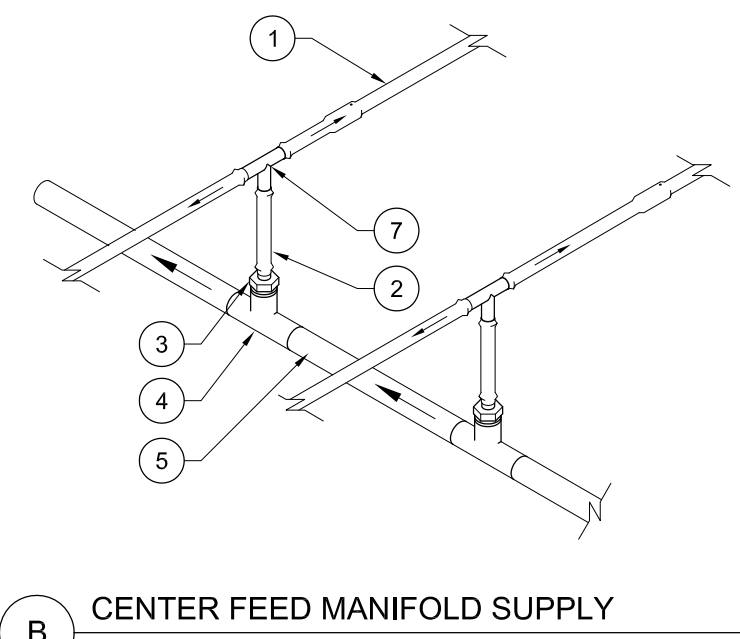
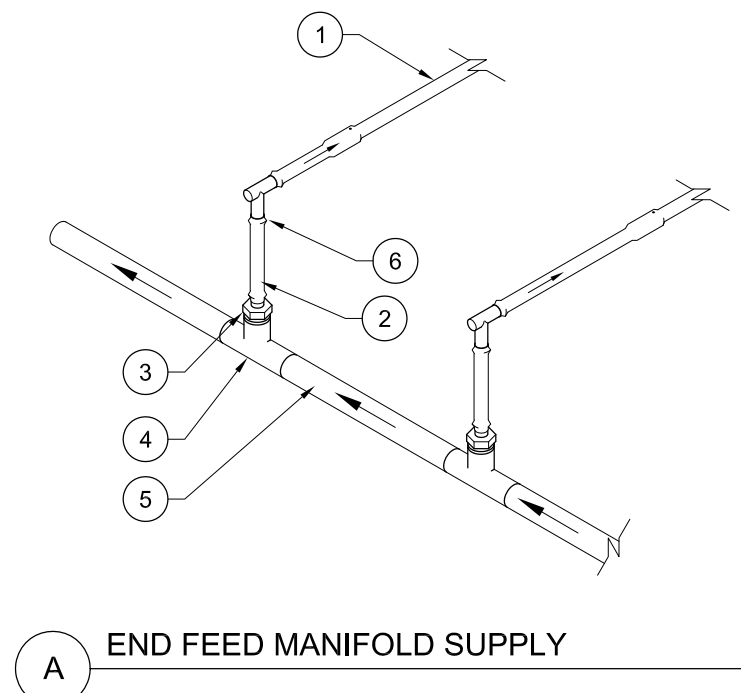
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- 1 FINISH GRADE
- 2 TOPSOIL BACKFILL, NO PARTICLES GREATER THAN 1". COMPACT TO 90% R.D.
- 3 SUB-SURFACE DRIP LINE, SEE IRRIGATION PLAN.
- 4 SEE PLAN FOR SPACING INFO.
- 5 PREPARED SUBGRADE, COMPACTED TO 90% R.D. SEE SPECS.
- 6 PVC NON-PRESSURE LATERAL LINE PER IRRIGATION PLAN.
- 7 DEPTH OF PVC LATERAL LINE, SEE SPECS.
- 8 DEPTH OF SUB-SURFACE DRIPLINE, REFER TO IRRIGATION PLAN.
- 9 PLANTER EDGE
- 10 LOCATE PERIMETER DRIP LINE LATERALS 2" MIN. AND 4" MAX. AWAY FROM EDGES.
- 11 MULCH AND PLANTING MATERIAL PER PLANTING PLAN.



- 1 FINISH GRADE
- 2 APPROVED TOPSOIL BACKFILL, NO PARTICLES GREATER THAN 1-INCH. COMPACT SOIL TO 90% R.D. SEE PLANTING PLANS FOR MORE INFORMATION.
- 3 SUBGRADE, COMPACTED TO 90% R.D. REFER TO SPECS.
- 4 DRIPLINE TUBING, SEE LEGEND FOR TYPE AND SPACING.
- 5 BARBED DRIP ELBOW FITTING
- 6 BARBED DRIP TEE FITTING
- 7 BLANK POLYETHYLENE DRIP TUBING
- 8 BARBED X 1/2" MPT ADAPTER
- 9 PVC TEE (SLXSLXTH) WITH 1/2" FPT INLET
- 10 PVC LATERAL LINE, SIZE AND TYPE PER PLAN
- 11 DEPTH OF TUBING, REFER TO IRRIGATION LEGEND
- 12 DEPTH OF PVC LATERAL LINE, REFER TO SPECS.
- 13 4" STAINLESS STEEL STAPLE



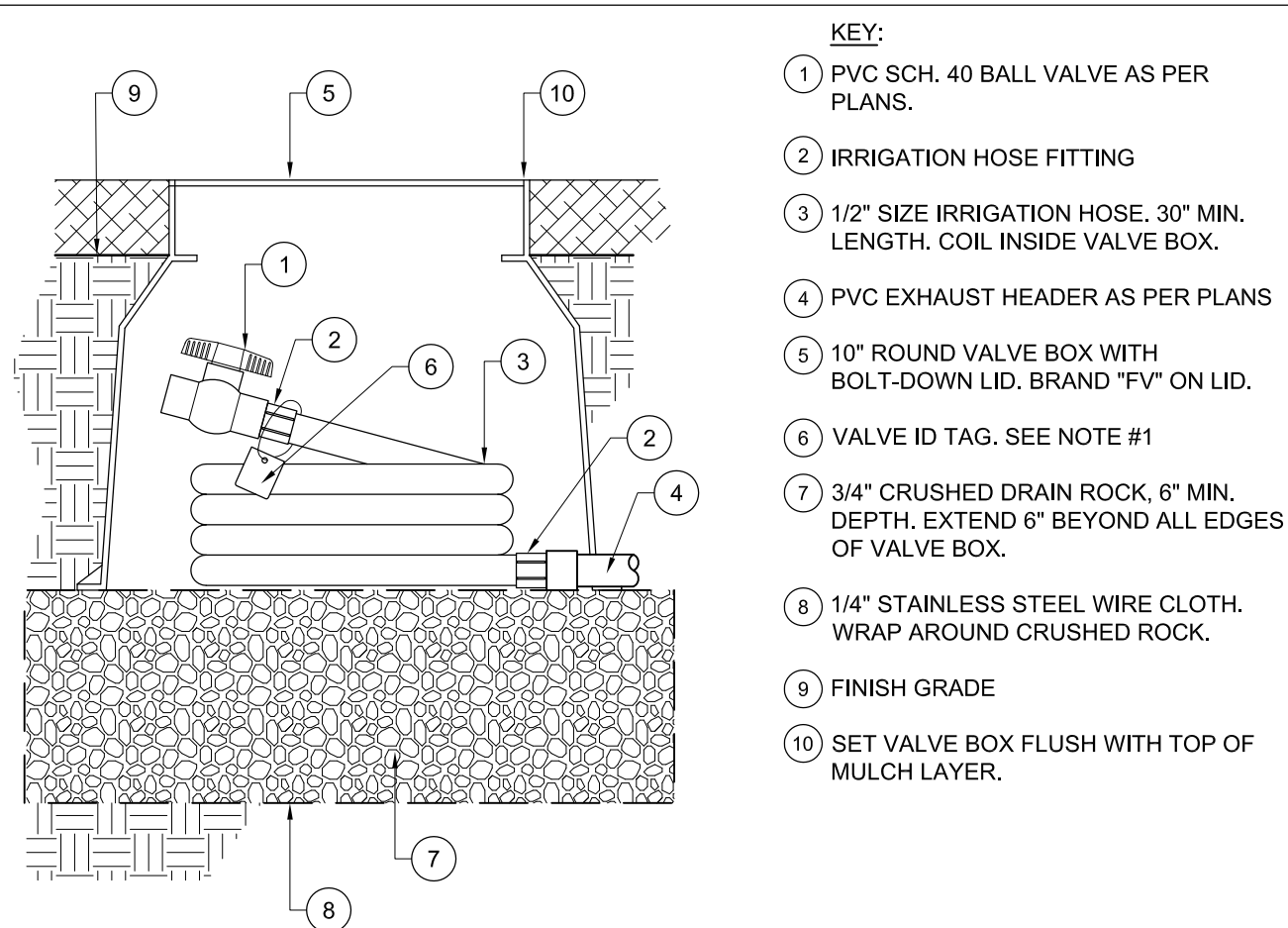
- 1 DRIP LINE, TYPE AND DEPTH PER LEGEND.
- 2 BLACK POLYETHYLENE BLANK POLY TUBING
- 3 BARB X MPT ADAPTER
- 4 PVC TEE WITH FPT OUTLET
- 5 NON-PRESSURE LATERAL DOWNSTREAM FROM REMOTE CONTROL ASSEMBLY
- 6 BARBED INSERT 90° ELL FITTING
- 7 BARBED INSERT TEE FITTING

5 SUBSURFACE DRIPLINE

Scale: N.T.S.

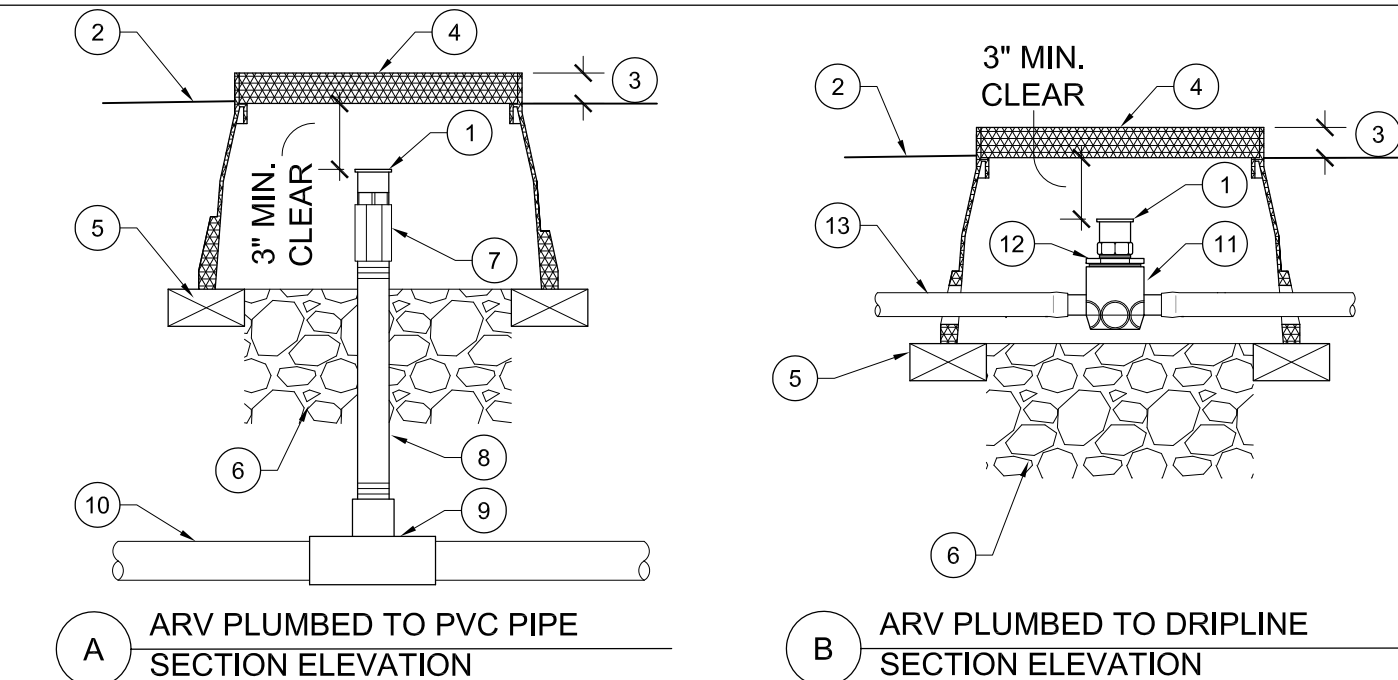
4 DRIP LINE TO PVC LATERAL LINE TRANSITION

Scale: N.T.S.

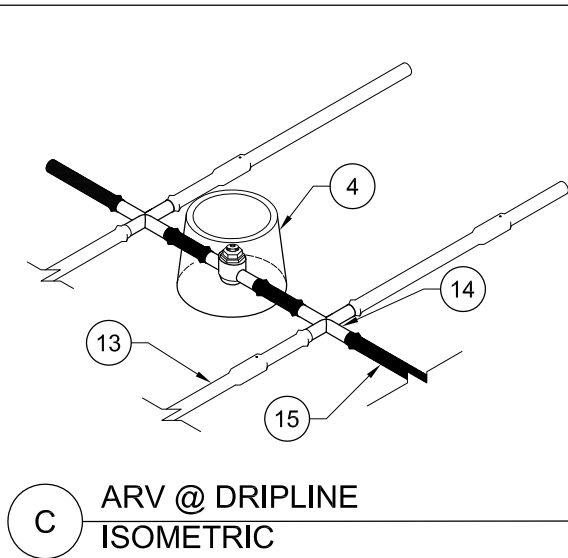


- KEY:
- 1 PVC SCH. 40 BALL VALVE AS PER PLANS.
 - 2 IRRIGATION HOSE FITTING
 - 3 1/2" SIZE IRRIGATION HOSE, 30" MIN. LENGTH. COIL INSIDE VALVE BOX.
 - 4 PVC EXHAUST HEADER AS PER PLANS
 - 5 10" ROUND VALVE BOX WITH BOLT-DOWN LID, BRAND "FV" ON LID.
 - 6 VALVE ID TAG, SEE NOTE #1
 - 7 3/4" CRUSHED DRAIN ROCK, 6" MIN. DEPTH, EXTEND 6" BEYOND ALL EDGES OF VALVE BOX.
 - 8 1/4" STAINLESS STEEL WIRE CLOTH. WRAP AROUND CRUSHED ROCK.
 - 9 FINISH GRADE
 - 10 SET VALVE BOX FLUSH WITH TOP OF MULCH LAYER.

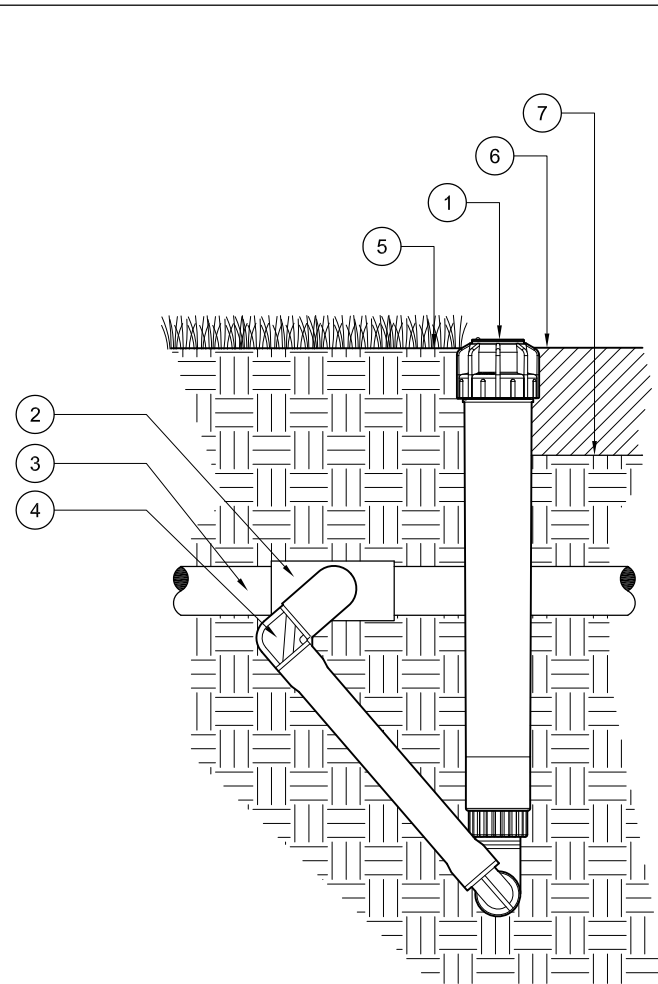
NOTES:
1. TAG EACH FLUSH VALVE WITH A PERMANENT METAL ID TAG. NUMBER SHALL CONINCIDE WITH CONTROLLER STATION NUMBER. TAG SHALL BE PLACED TO AVOID BEING BURIED.
2. REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.



- 1 AIR VACUUM/RELIEF VALVE, REFER TO LEGEND
- 2 FINISH GRADE
- 3 SET TOP OF VALVE BOX ABOVE FINISH GRADE: 1/2" IN SEED, 1-1/2" IN SOD, 2-1/2" IN PLANTER
- 4 10" ROUND VALVE BOX, SEE SPECS.
- 5 THREE (3) COMMON BRICKS FOR SUPPORT. CENTER EACH UNDER EDGE OF VALVE BOX EQUIDISTANT FROM EACH OTHER.
- 6 3/4" CRUSHED ROCK, 6" MIN. DEPTH.
- 7 1/2" PVC SCH. 80 COUPLING (THxTH)
- 8 1/2" PVC SCH. 80 NIPPLE (LENGTH AS REQ.)
- 9 PVC REDUCTION TEE WITH 1/2" FEMALE THREADED INLET
- 10 PVC NON-PRESSURE LATERAL LINE. SIZE AND TYPE PER PLAN

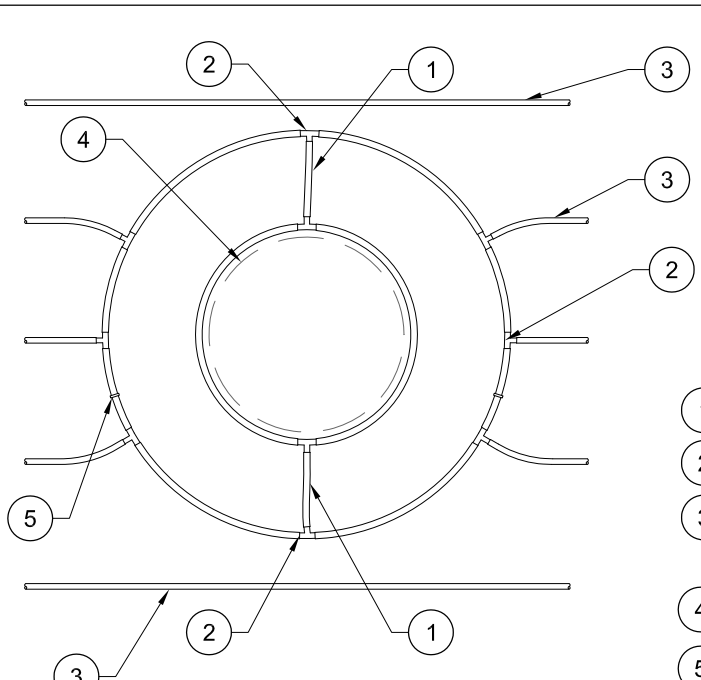


NOTES:
1. ARV VALVES SHALL BE INSTALLED IN VALVE BOXES AT HIGHEST POINTS WITHIN SUB-SURFACE DRIP SYSTEM PER MNFR GUIDELINES.
2. SEE LEGEND FOR LATERAL DEPTH AND SPACING.



- KEY:
- 1 DRIP OPERATION INDICATOR
 - 2 1/2" FPT CONNECTION FROM LATERAL
 - 3 LATERAL PIPE
 - 4 SWING JOINT
 - 5 FINISH GRADE IN LAWN
 - 6 ADJACENT MULCH
 - 7 FINISH GRADE IN PLANTER AREA

NOTES:
1. LOCATE INDICATOR WITHIN AN AREA ADJACENT TO A WALK, CURB, ETC. AND AWAY FROM PLANT MATERIALS TO PROVIDE EASY VISUAL CONFIRMATION FROM A DISTANCE THAT THE HYDROZONE IS OPERATING.
2. COMPACT SOIL AROUND INDICATOR TO THE SAME DENSITY AS ADJACENT SOIL.
3. INSTALL INDICATOR FLUSH TO GRADE AT LAWN AREA; 3" ABOVE FINISH GRADE IN PLANTER (MULCHED) AREAS.



- 1 1/2" BLANK POLYETHYLENE TUBING
- 2 BARB TEE INSERT FITTING TYP.
- 3 SUB-SURFACE DRIPLINE. PLACE AS SHOWN (LENGTH AS REQUIRED).
- 4 ROOT BALL
- 5 TIE DOWN STAKE. QUANTITY AS REQUIRED, SEE NOTES 2-3.

NOTES:
1. REFER TO IRRIGATION LEGEND FOR DISTANCE BETWEEN LATERAL RINGS AND EMITTER SPACING.
2. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM AND FIVE FEET IN CLAY.
3. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

9 MANUAL FLUSH VALVE

Scale: N.T.S.

8 AIR VACUUM/ RELIEF VALVE

Scale: N.T.S.

7 DRIP OPERATION INDICATOR

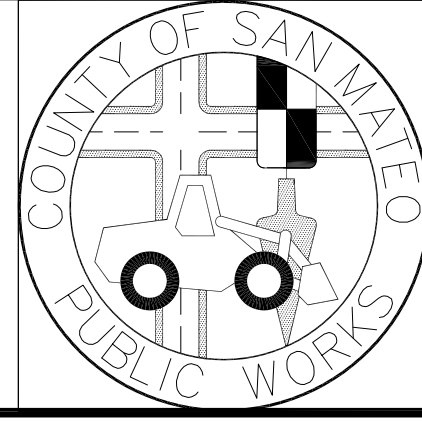
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6 SUBSURFACE DRIPLINE AROUND TREE

Scale: N.T.S.

APPROVED DATE: _____

MATTHEW S. GABER, DIRECTOR
MIG
RLA # 3740 / EXPIRES 6-30-2017



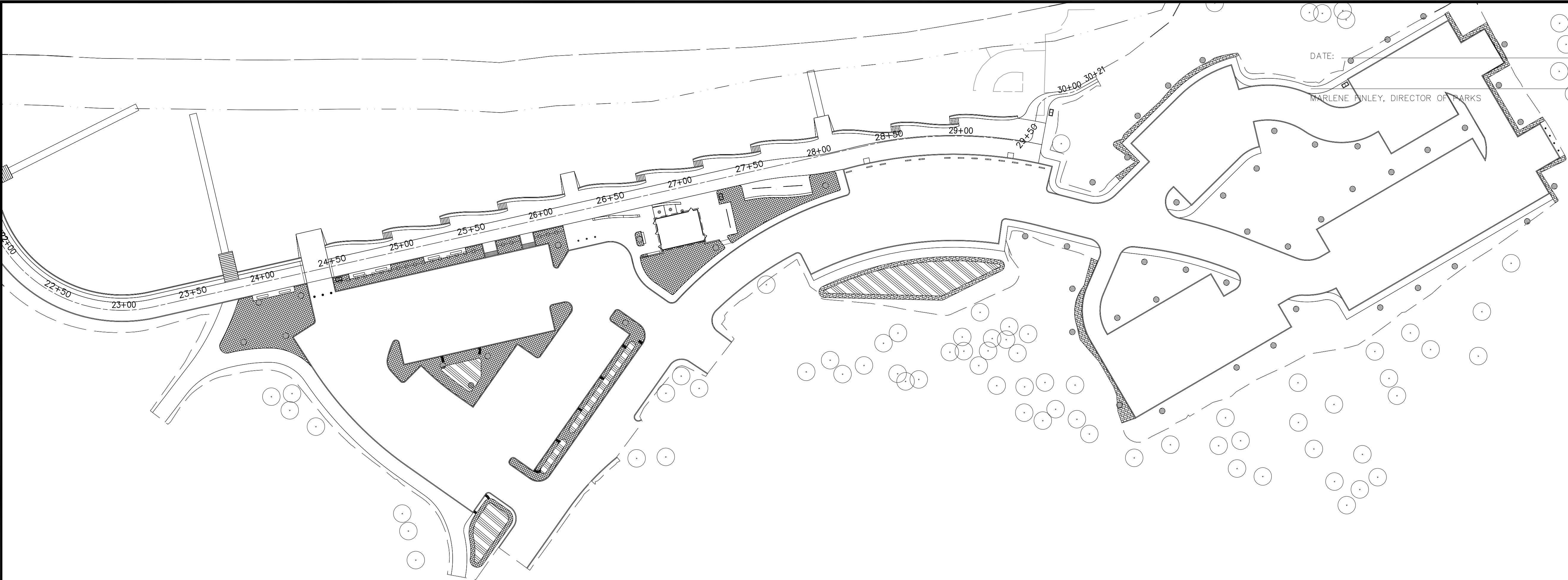
DESIGNED BY: JUL
CHECKED BY: MG
DRAWN BY: JUL
REVISION
DATE

COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT
IRRIGATION DETAILS
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063
SCALE: AS SHOWN
DATE: 9/9/2016
FILE NO.: E4948

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3 4
L-13
SHEET 44 OF 58

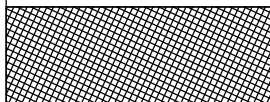


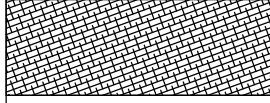


APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017



Estimated Total Water Use (ETWU)							
Reference Evapotranspiration (Eto)		42.80					
Hydrozone #	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sf2)	ETAF x Area	ETWU
Regular Landscape Areas							
C1	0.2	Drip	0.81	0.25	2,026	500	13,276
C2	0.2	Drip	0.81	0.25	1,342	331	8,792
C3	0.2	Drip	0.81	0.25	1,769	437	11,592
C4	0.2	Drip	0.81	0.25	1,443	356	9,457
C5	0.2	Drip	0.81	0.25	1,128	278	7,390
C6	0.2	Drip	0.81	0.25	1,289	318	8,444
C7	0.5	Bubbler	0.75	0.67	288	192	5,095
C8	0.5	Bubbler	0.75	0.67	216	144	3,821
C9	0.5	Bubbler	0.75	0.67	120	80	2,123
C10	0.5	Bubbler	0.75	0.67	240	160	4,246
C11	0.5	Bubbler	0.75	0.67	312	208	5,519
C12	0.5	Bubbler	0.75	0.67	144	96	2,547
C13	0.7	Spray	0.75	0.93	399	372	9,878
C14	0.7	Spray	0.75	0.93	467	436	11,572
C15	0.7	Spray	0.75	0.93	366	341	9,054
C16	0.7	Spray	0.75	0.93	207	193	5,135
C17	0.7	Spray	0.75	0.93	254	237	6,291
C18	0.7	Spray	0.75	0.93	680	634	16,834
C19	0.7	Spray	0.75	0.93	931	869	23,062
C20	0.7	Spray	0.75	0.93	35	33	867
C21	0.2	Drip	0.81	0.25	804	198	5,267
C22	0.2	Drip	0.81	0.25	518	128	3,393
C23	0.2	Drip	0.81	0.25	446	110	2,920
C24	0.2	Drip	0.81	0.25	594	147	3,891
				Totals	16,017	6,801	180,464
Results							
ETWU = (Eto) x (0.62) x [(ETAF x Landscape Area)]					Gallons	180,464	
					Cubif Feet	24,124.53	
					HCF	241.25	
					Acre-feet	0.55	
					Millons of Gallons	0.18	
					MAWA	191,264	

Maximum Applied Water Allowance Calculations (MAWA)		
	No. 1	Water Meter
	L-9	Plan Sheet
	Redwood City	Name of City
	42.80	ETO (Inches/year)
Eto of City	4,659	Overhead Irrigation Landscape Area (ft2)
	11,358	Drip Irrigation Landscape Area (ft2)
	0	SLA (ft2)
Total Landscape Area		16,017
Results		
MAWA = (ETO) x (0.62) x [(0.45 x LA) + ((1.0 - 0.45) x SLA)]		191,264
		25,568.25
		255.68
		0.59
		0.19
		Gallons
		Cubic Feet
		HCF
		Acre-feet
		Millions of Gallons

Hydrozone Table						
Zone Symbol	* Hydrozone	**Irrigation Method	Gallons Per Minute	Area (Sq. ft.)	% of Total Landscape	
	LW	D	60	8,997	56.17%	
	MW	B	28	1,320	8.24%	
	HW	S	129	3,339	20.85%	
	LW	D	5	2,361	14.74%	
TOTALS				16,017	100%	
*	HW	= HIGH WATER USE PLANTS		**	MS	MICRO-SPRAY
	MW	= MODERATE WATER USE PLANTS			S	SPRAY
	LW	= LOW WATER USE PLANTS			R	ROTOR
					B	BUBBLER
					D	DRIP
					O	OTHER
SUMMARY HYDROZONE TABLE						
HYDROZONE DESCRIPTION		TOTAL SQ. FT.		% OF LANDSCAPE		
1. HIGH WATER USE PLANTS		3,339		21%		
2. MODERATE WATER USE PLANTS		1,320		8%		
3. LOW WATER USE PLANTS		11,358		71%		
TOTAL		16,017		100%		
IRRIGATION EFFICIENCY FACTOR						
IRRIGATION EQUIPMENT		TOTAL SQ. FT.		% OF LANDSCAPE		
DRIP/POINT SOURCE		11,358		71%		
OTHER		4,659		29%		
TOTAL		16,017		100%		
ETAF 0.00						

ETAF Calculations	
All Landscape Areas	
Total ETAF x Area	6,801
Total Area	16017
Sitewide ETAF	0.42

APPROVED DATE: _____

MATTHEW S. GABER, DIRECTOR
MIG
RLA # 3740 / EXPIRES 6-30-2017

400 HEARST AVENUE
BERKELEY, CA 94704
TEL: 510.845.2548
FAX: 510.845.4555
www.migfirm.com

DESIGNED BY: JUL
CHECKED BY: MG
DRAWN BY: JUL

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY

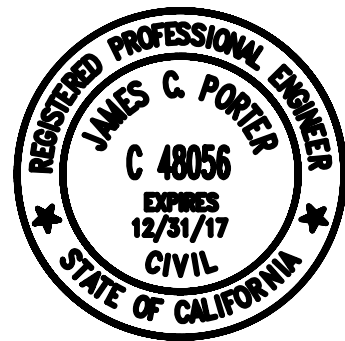
COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT
MWEO COMPLIANCE DOCUMENTATION
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

REVISION: _____ DATE: _____

SCALE: 1" = 40'-0"
DATE: 9/9/2016
FILE NO.: E4948

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

L-14
SHEET 45 OF 58

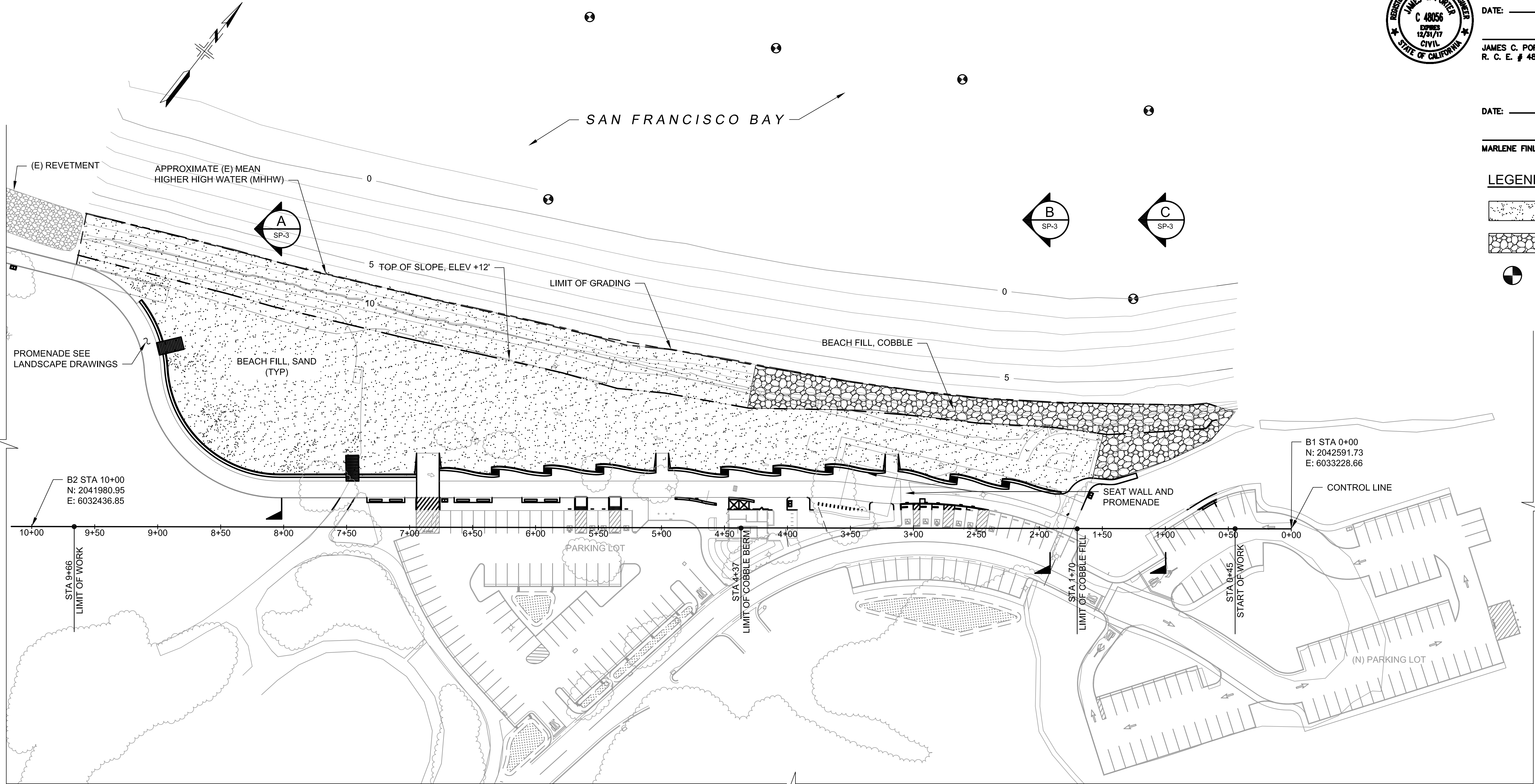


APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

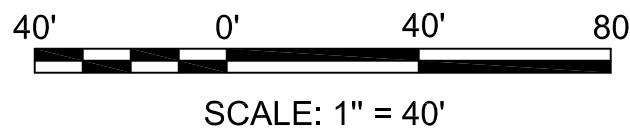
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

LEGEND:

- SAND
- COBBLE SIZE (2" - 6" AS SPECIFIED)
- SWIM BUOY



SITE PLAN
SCALE: 1" = 40'

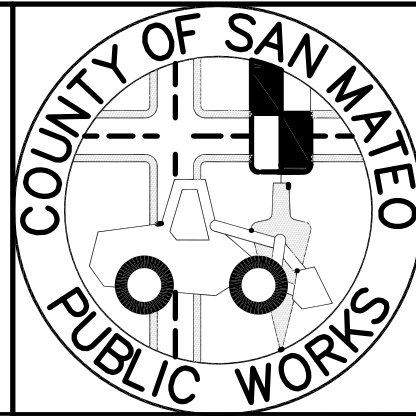


SCALE: 1" = 40'

APPROVED DATE:
JONATHAN TANG, PROJECT MANAGER
BKF ENGINEERS
P.E. #C67726 / EXPIRES 6-30-2017



BKF
ENGINEERS, SURVEYORS & PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



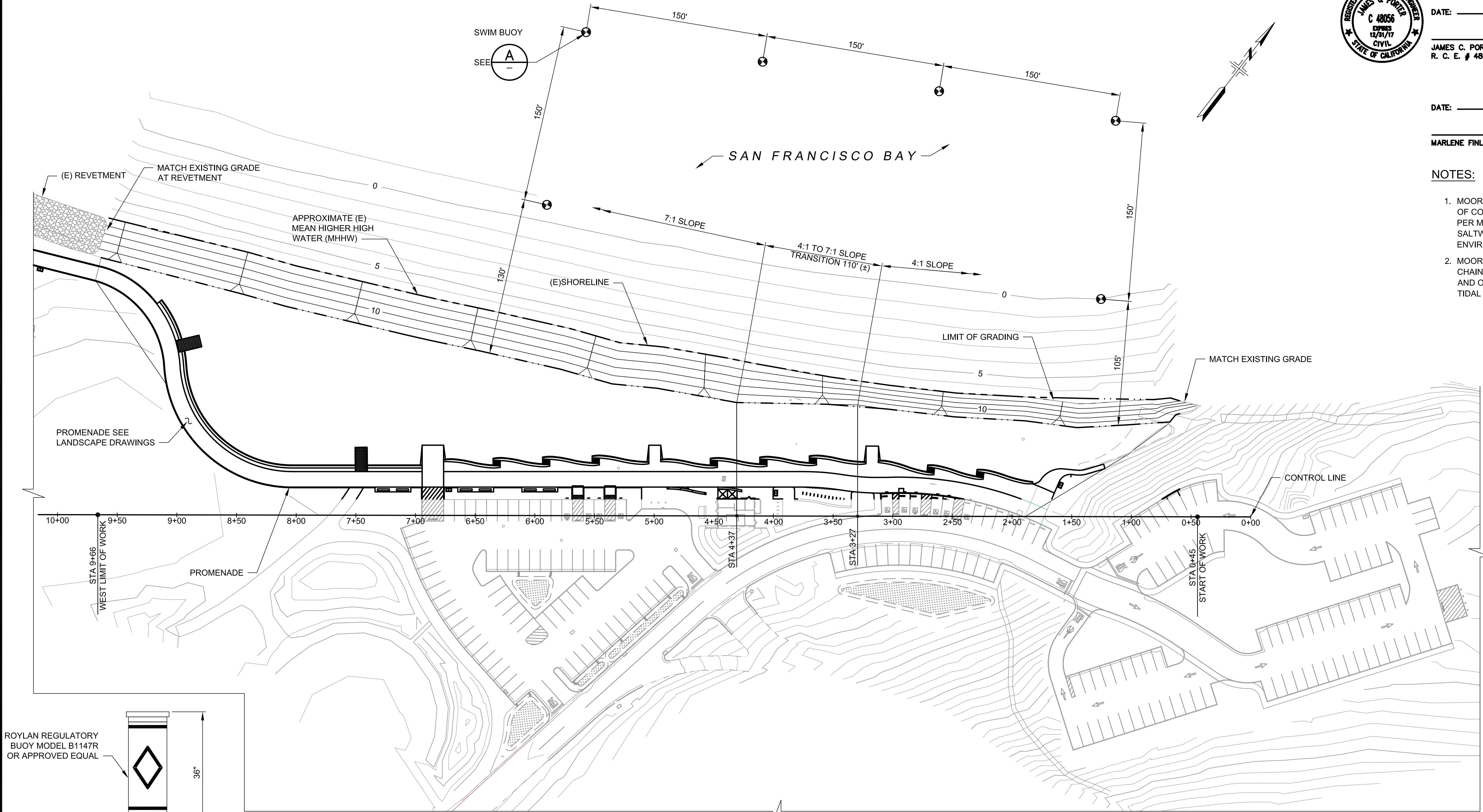
DESIGNED BY: CD	COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT SITE PLAN - BEACH FILL		SCALE: 1" = 40'
CHECKED BY: BP			DATE: 9/9/2016
DRAWN BY: TE			FILE NO.: E4848
REVISION	DATE	JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4	SP-1 SHEET 46 OF 58



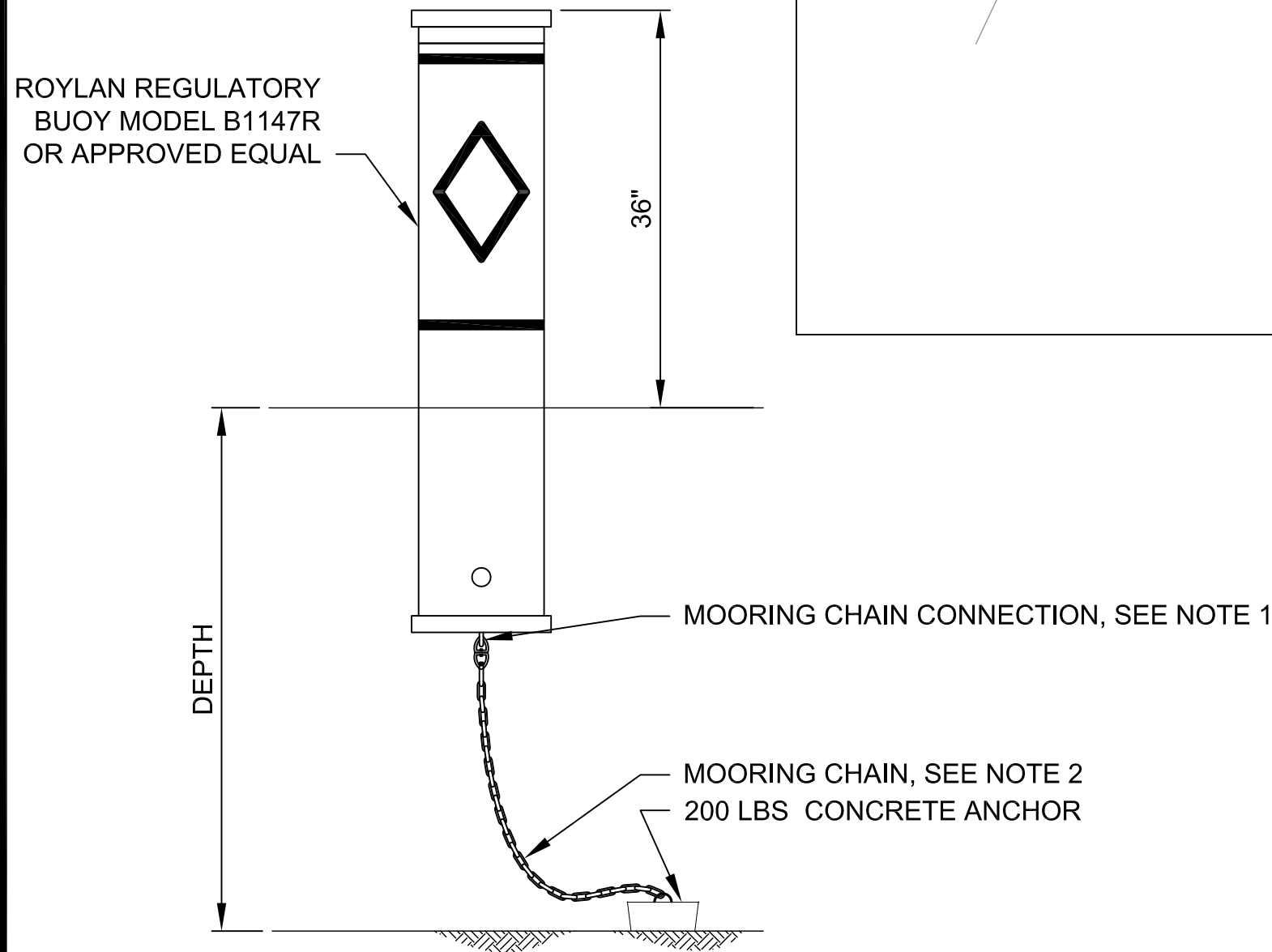
APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

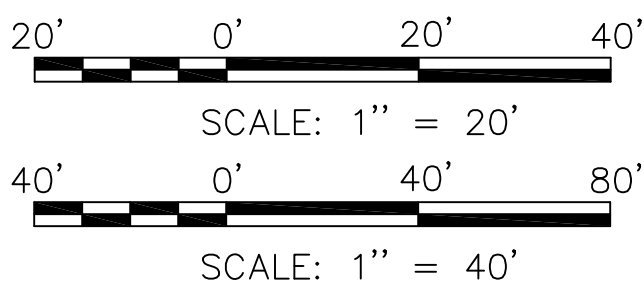
- NOTES:
1. MOORING CHAIN CONNECTION SHALL CONSIST OF CONNECTING LINK, SWIVEL AND SHACKLE PER MANUFACTURERS REQUIREMENTS FOR SALTWATER CONDITIONS AND WAVE ENVIRONMENT OF THE PROJECT SITE.
 2. MOORING CHAIN SHALL BE MARINE GRADE CHAIN PER MANUFACTURERS REQUIREMENTS AND OF SUFFICIENT LENGTH TO ADDRESS TIDAL FLUCTUATION OF THE PROJECT SITE.



SITE PLAN
SCALE: 1" = 40'



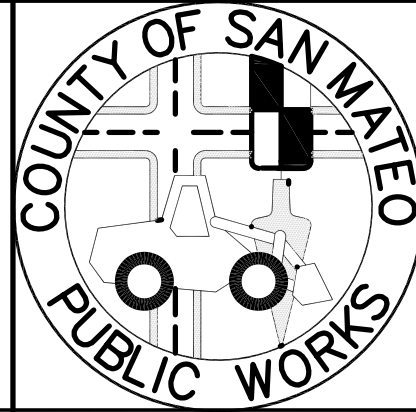
SWIM BUOY
SCALE: NTS



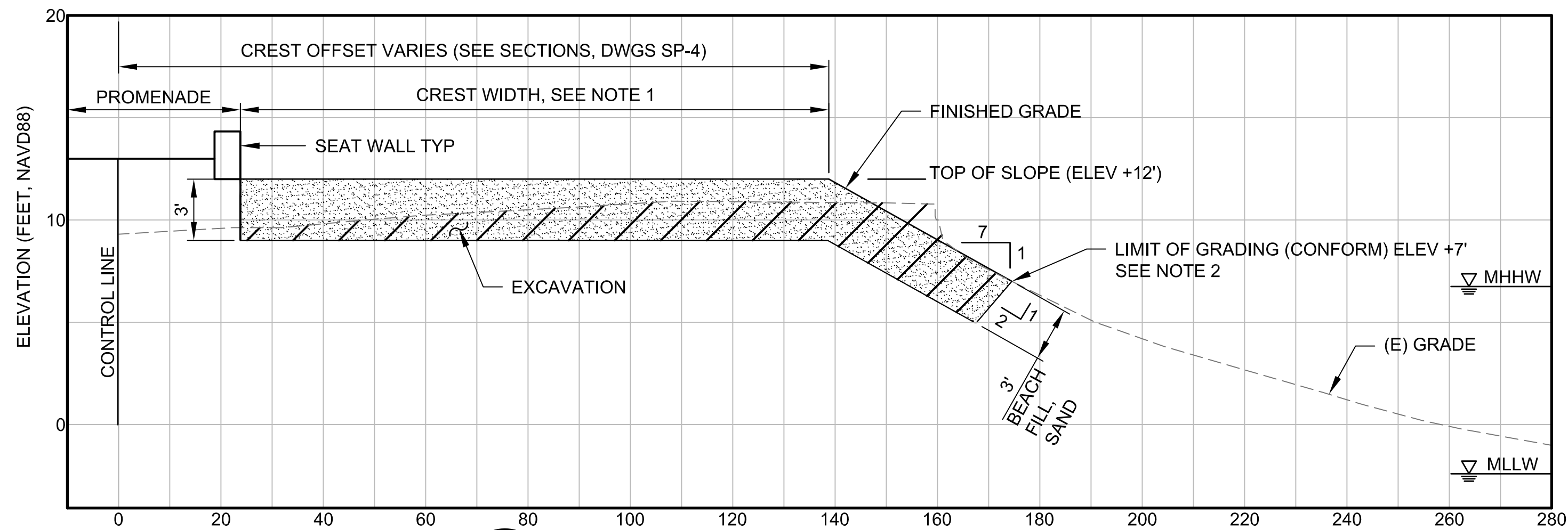
APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	



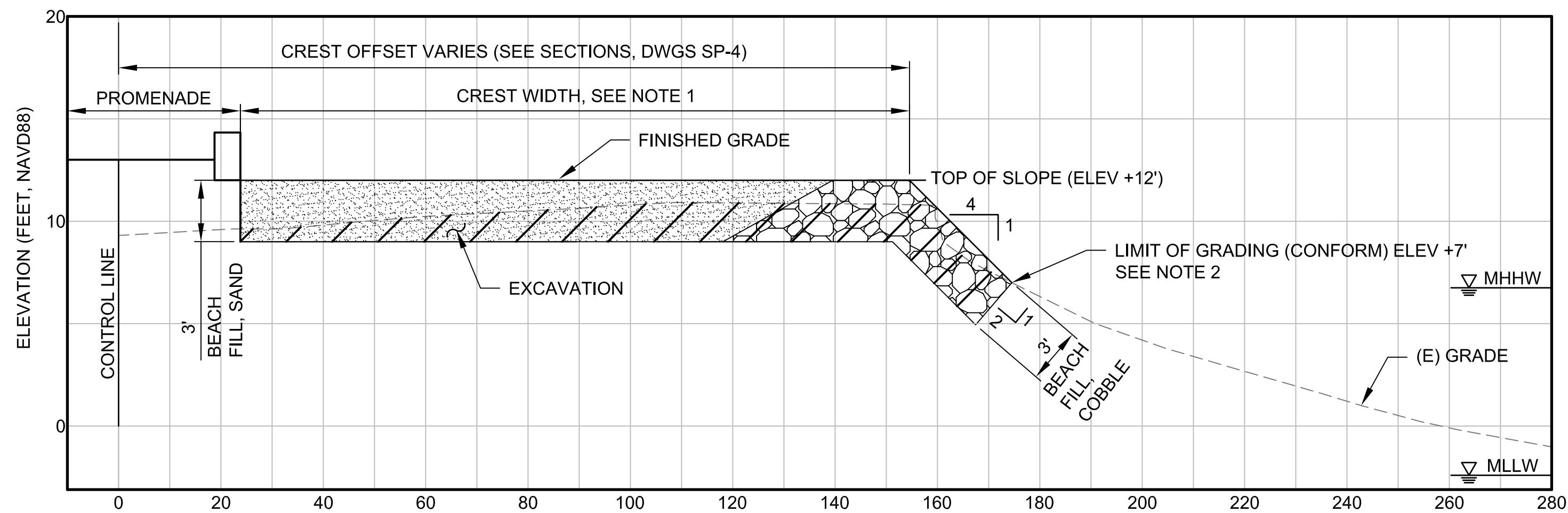
BKF
ENGINEERS, SURVEYORS & PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



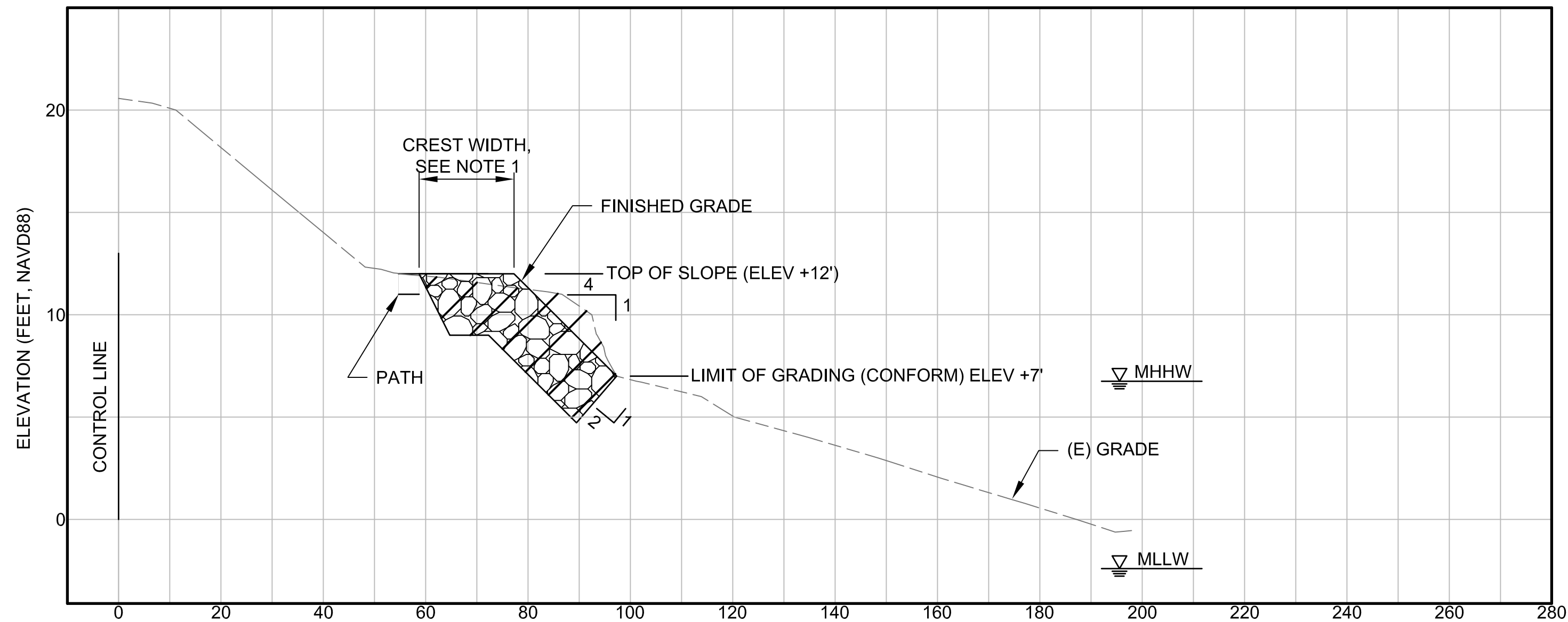
DESIGNED BY: CD	COYOTE POINT RECREATION AREA	SCALE: 1" = 40'
CHECKED BY: BP	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: TE	SITE PLAN - LAYOUT PLAN	FILE NO.: E4848
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4
		SP-2 SHEET 47 OF 58



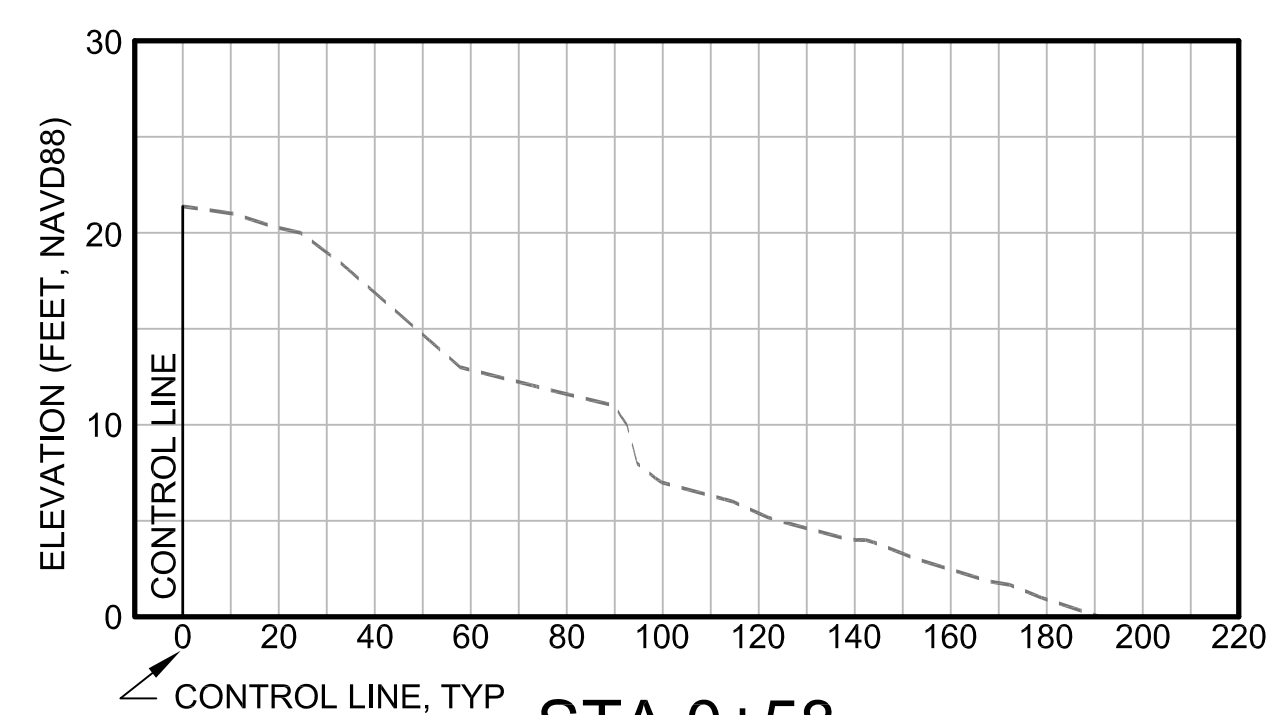
A TYPICAL CROSS SECTION (BEACH FILL, SAND)
SCALE: 1" = 20" HORIZONTAL
SCALE: 1" = 5' VERTICAL



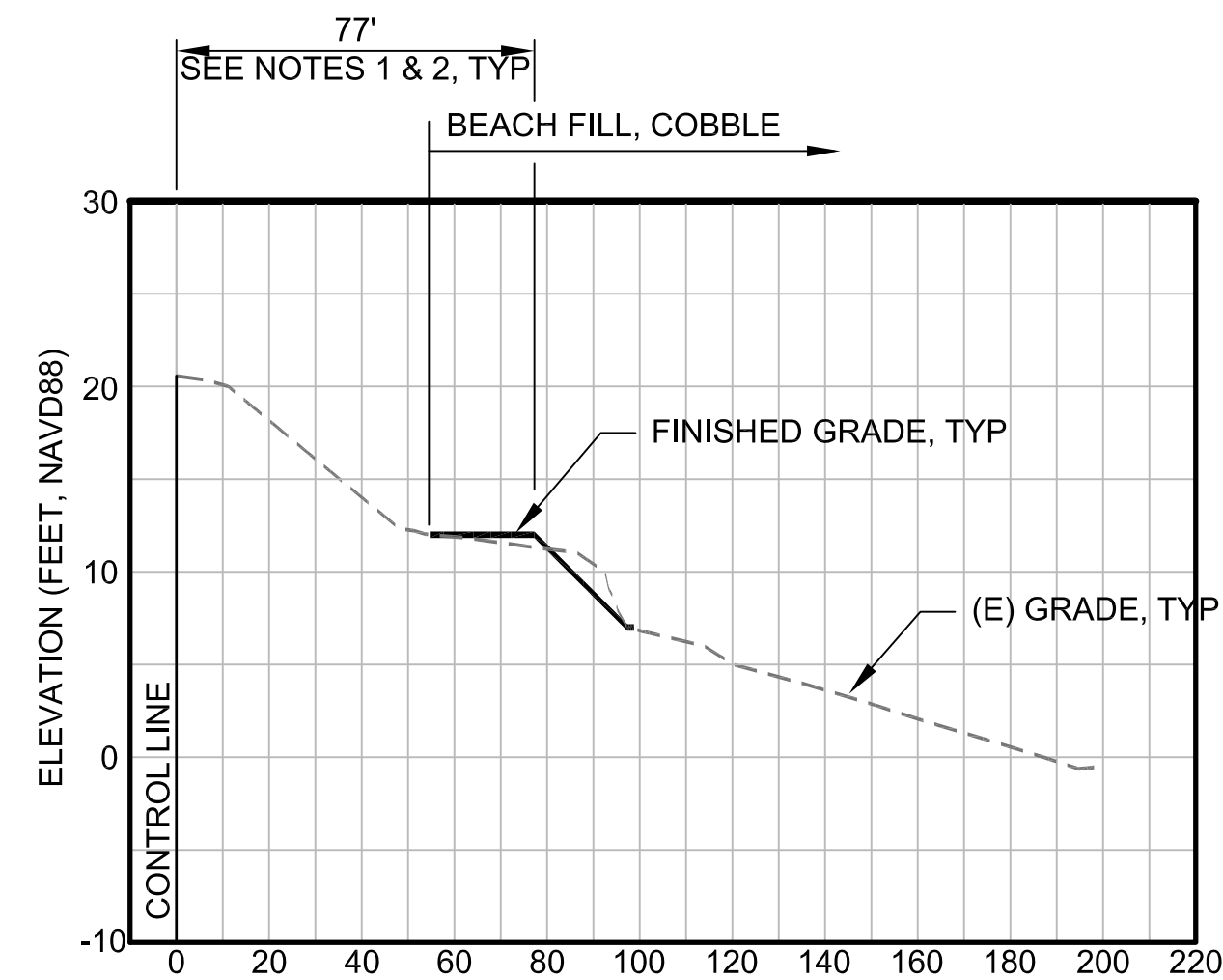
B TYPICAL CROSS SECTION (BEACH FILL, COBBLE)
SCALE: 1" = 20" HORIZONTAL
SCALE: 1" = 5' VERTICAL



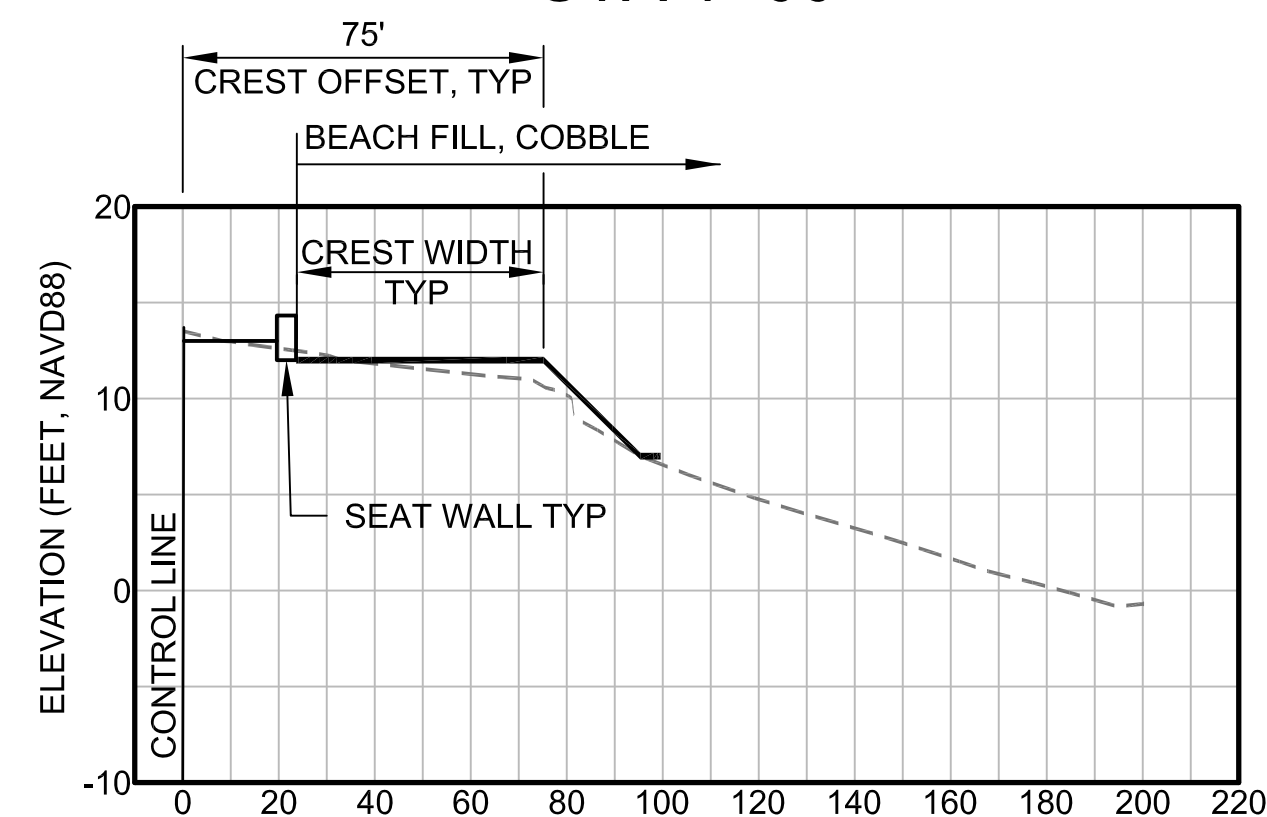
C TYPICAL CROSS SECTION (COBBLE FULL WIDTH)
SCALE: 1" = 20" HORIZONTAL
SCALE: 1" = 5' VERTICAL



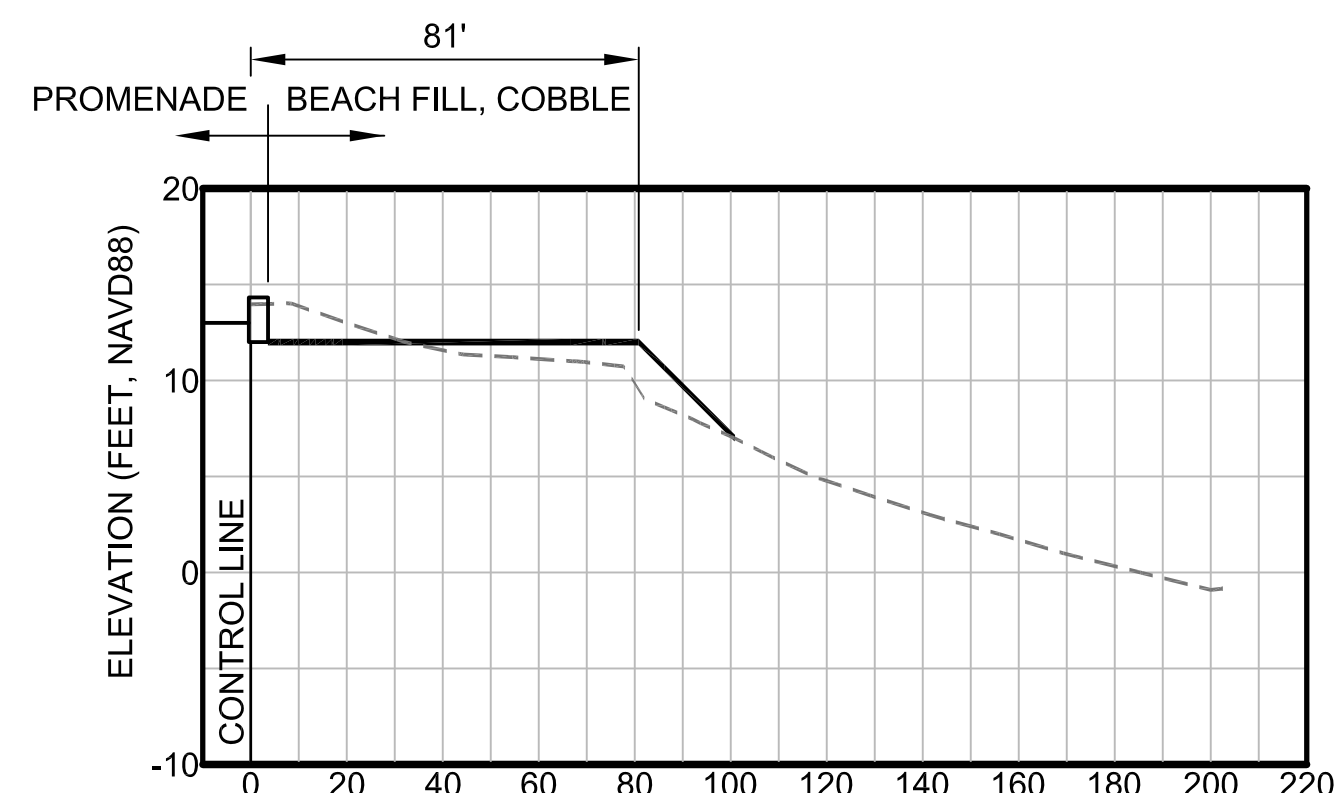
STA 0+58



STA 1+00



STA 1+50



STA 2+00

SECTIONS

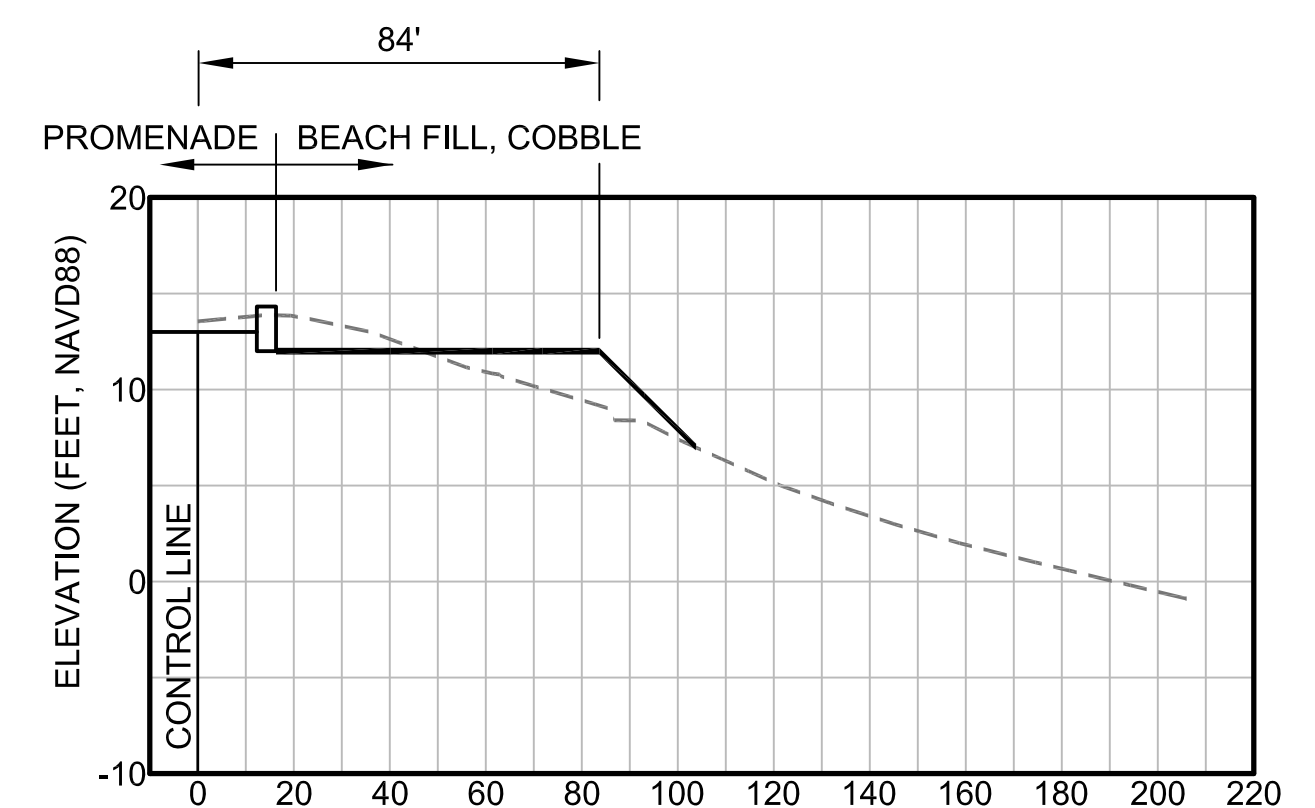
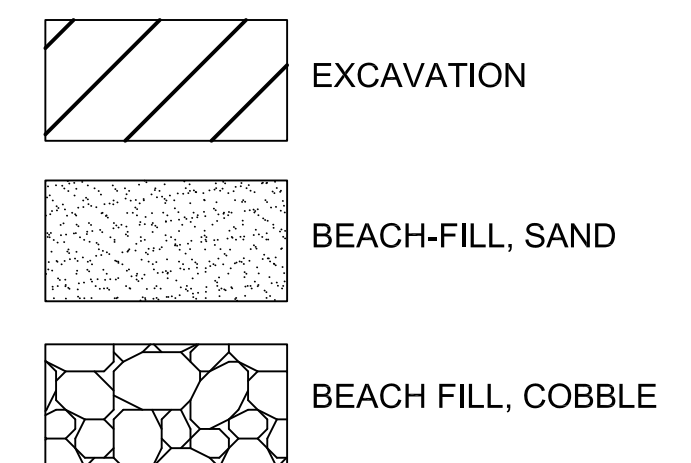
SCALE: HORIZ 1" = 40'
VERT 1" = 10'

APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017
DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

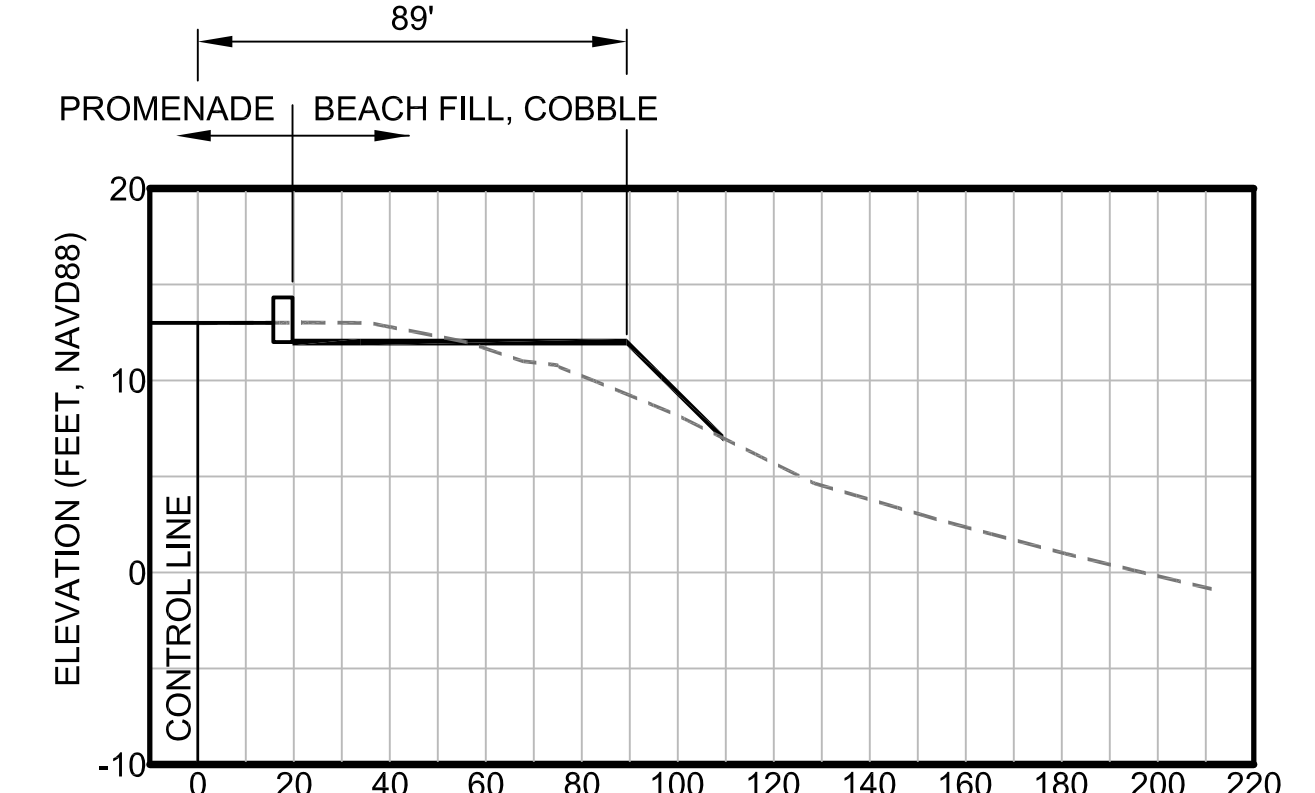
NOTES:

- CREST WIDTH SHOWN IS BASED ON TOPOGRAPHY AS SURVEYED AND MAY NOT REPRESENT ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY EXISTING TOPOGRAPHIC CONDITIONS AND PERFORM PRE-FILL SURVEY IN ACCORDANCE WITH THE SPECIFICATIONS.
- ADJUST CREST OFFSET TO ACHIEVE CONFORM AT ELEV +7' BASED UPON PRE-FILL SURVEY.
- FOR CONTROL LINE ALIGNMENT, SEE SHEET SP-1.

LEGENDS:



STA 2+50

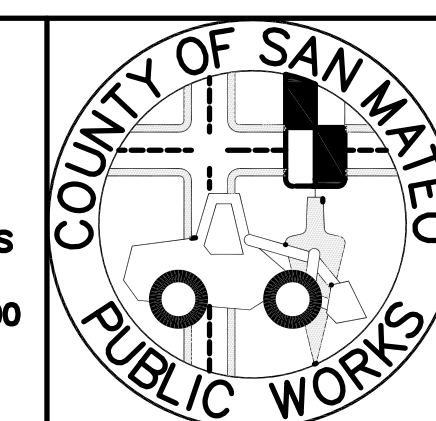


STA 3+00



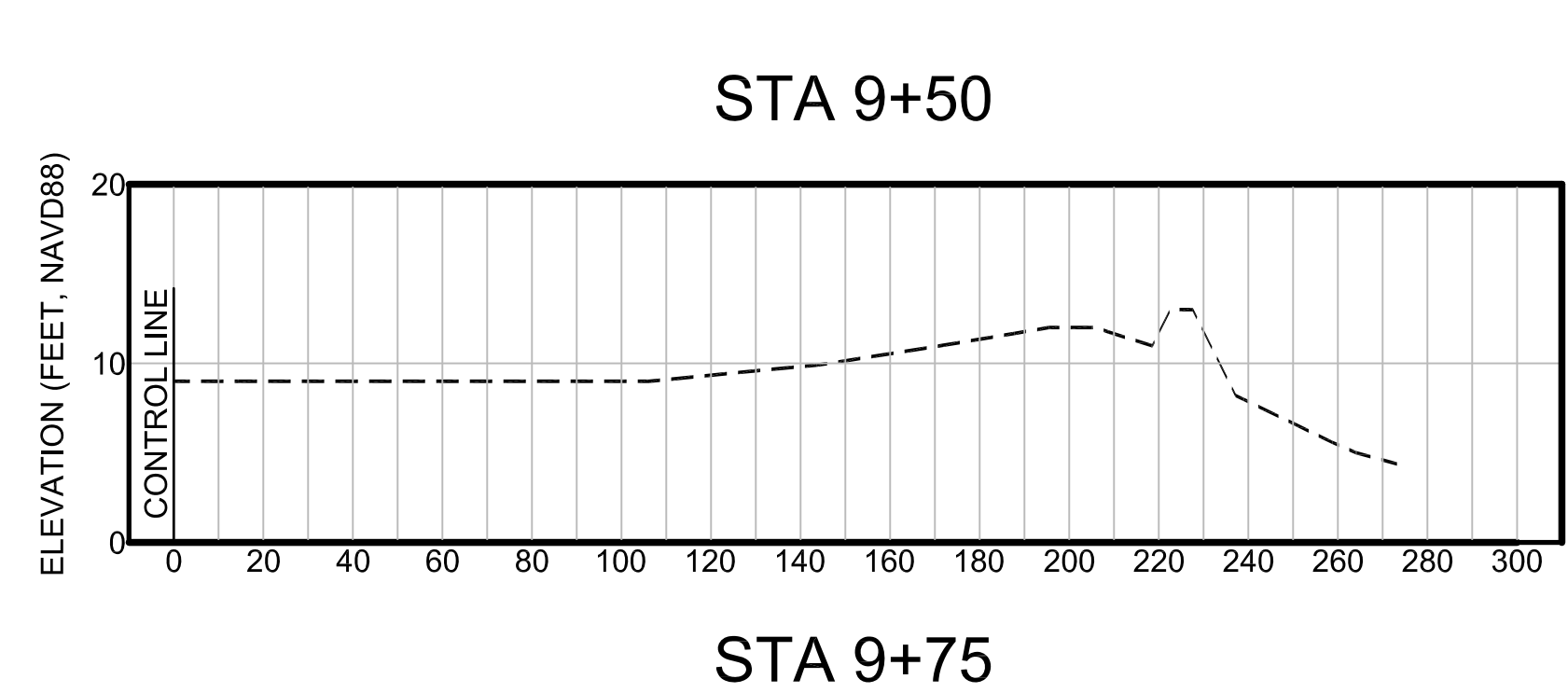
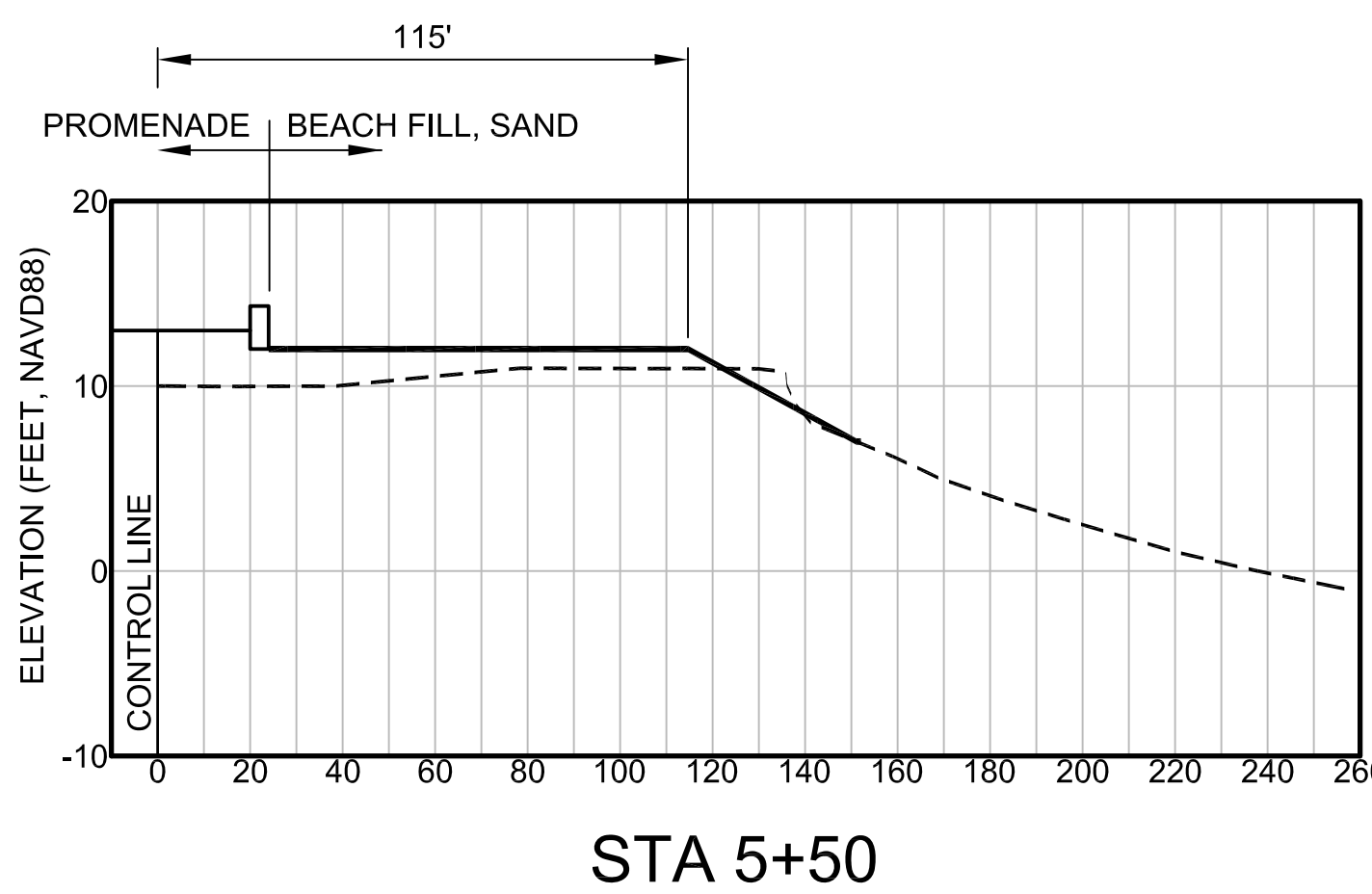
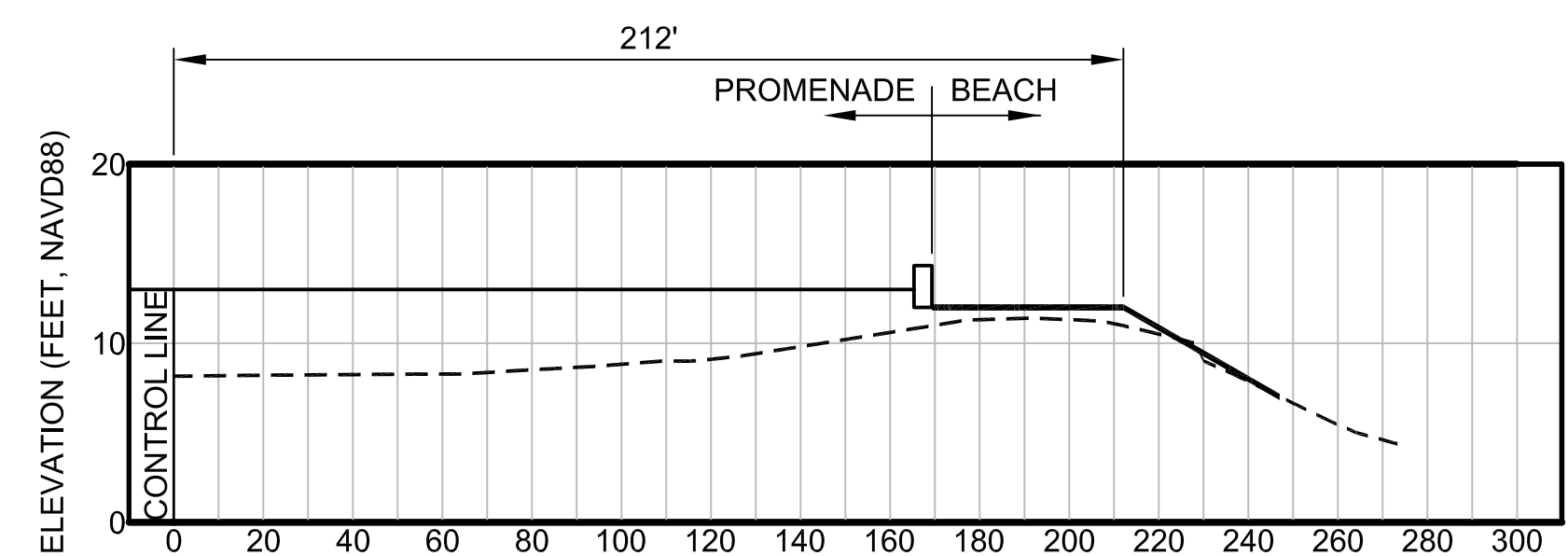
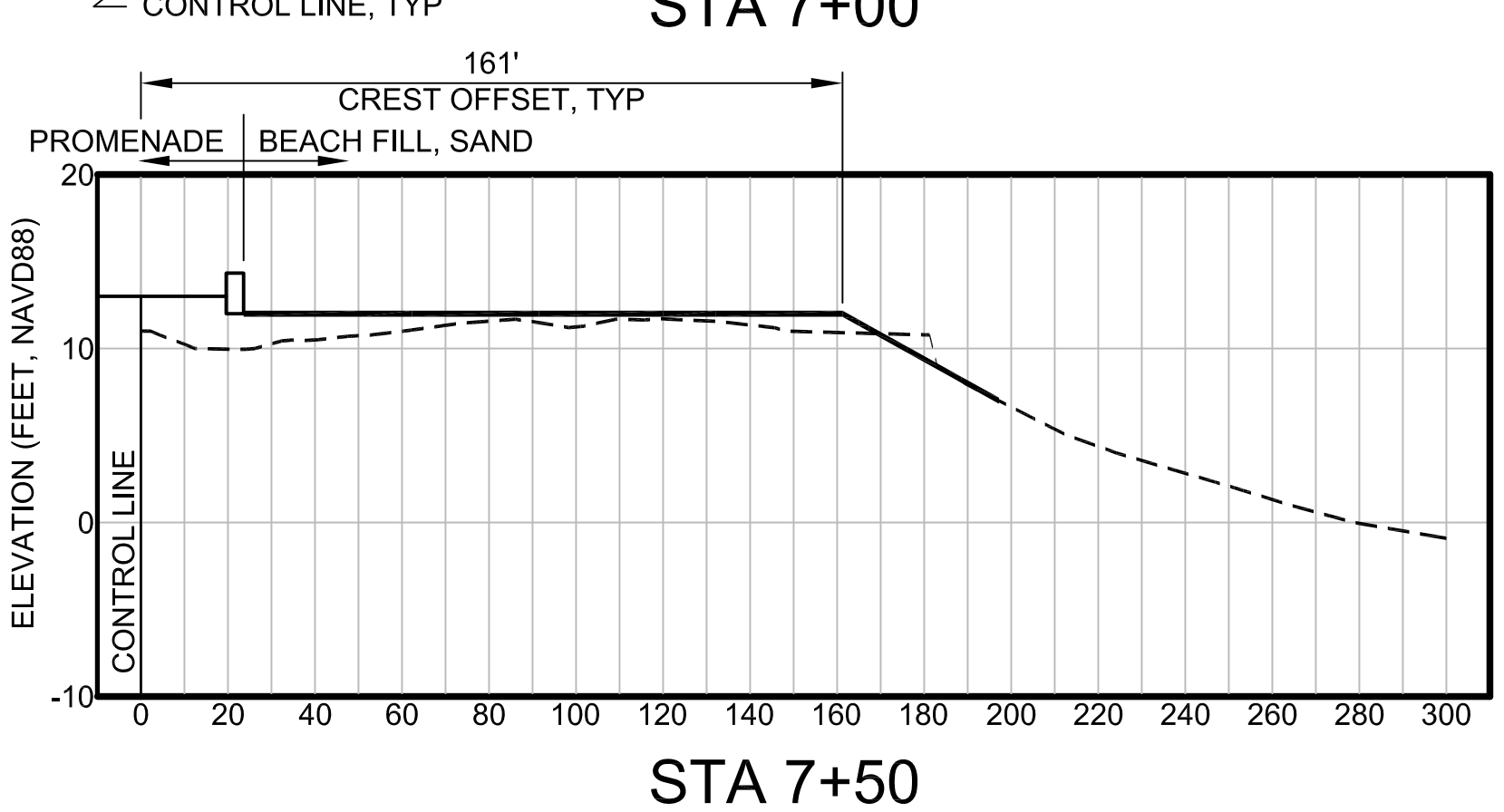
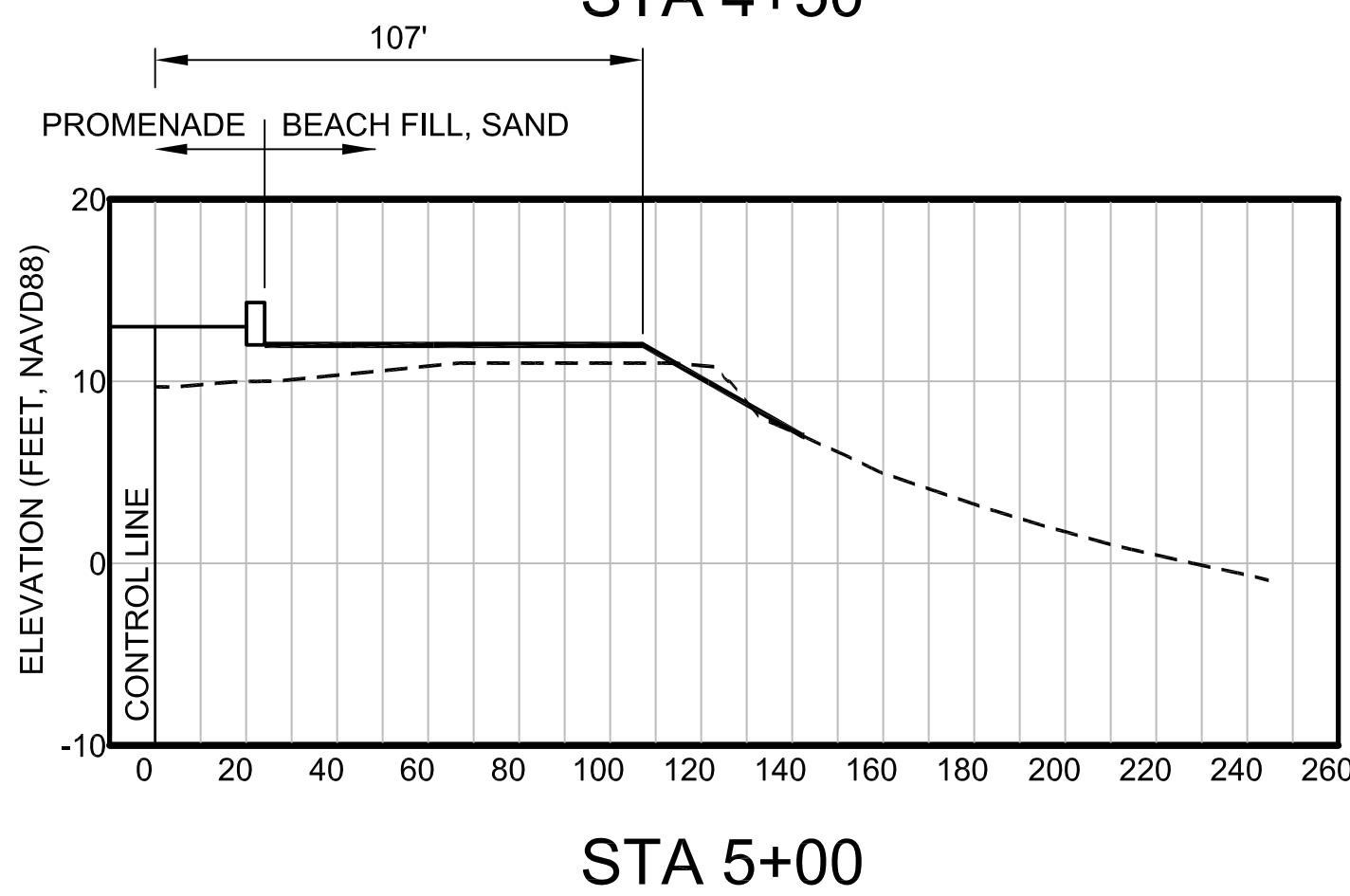
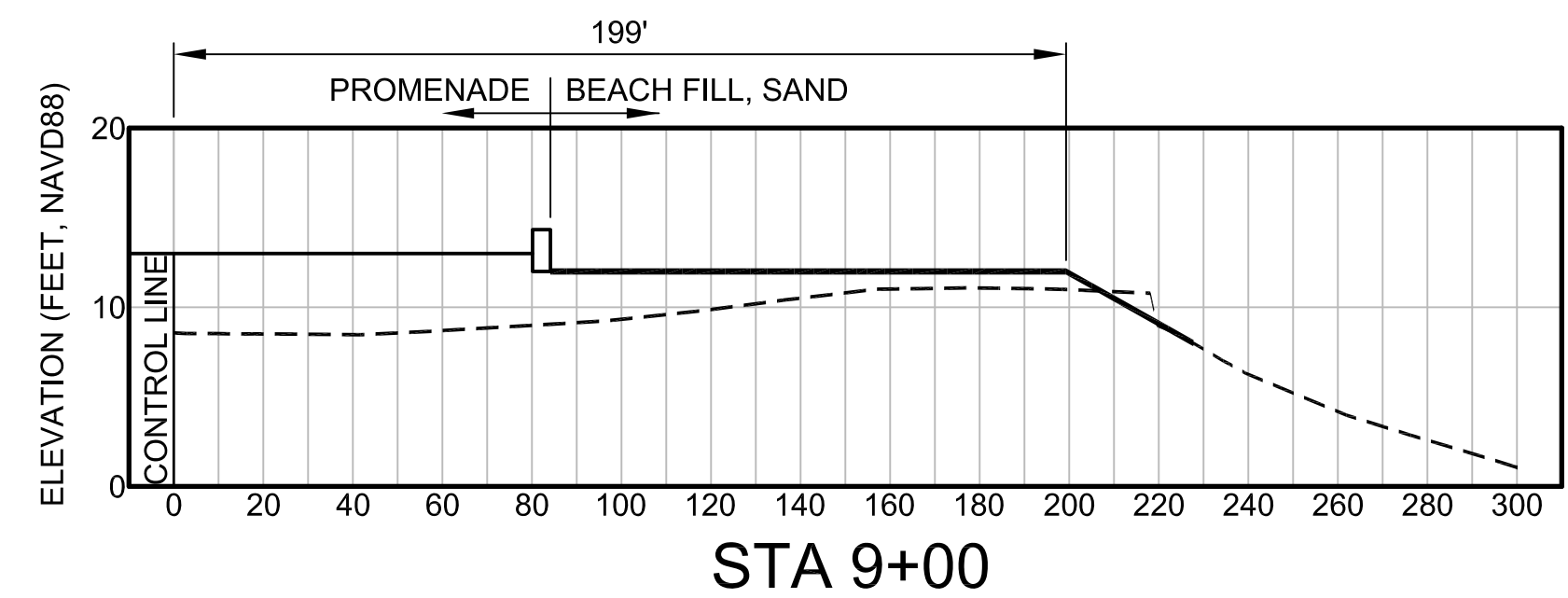
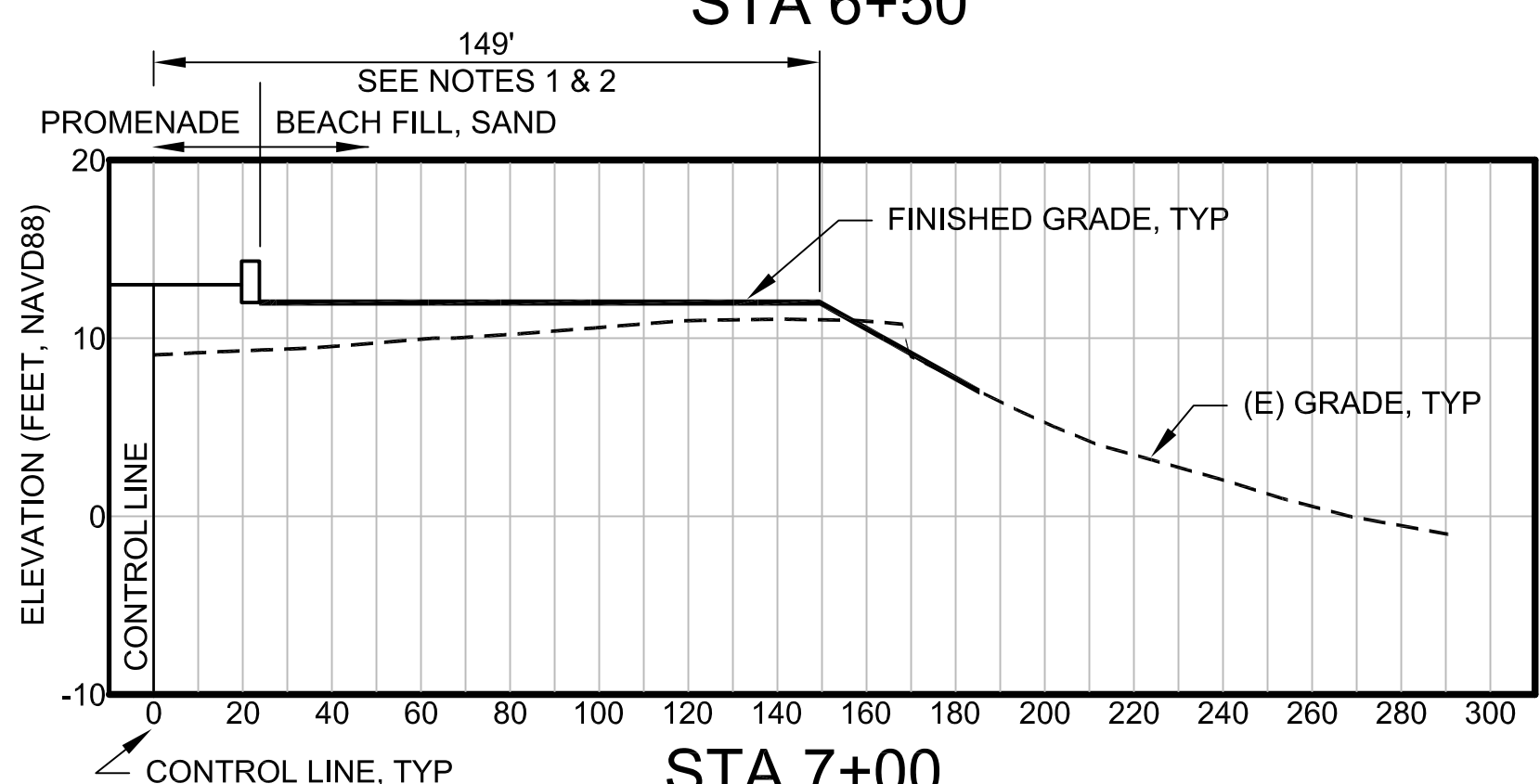
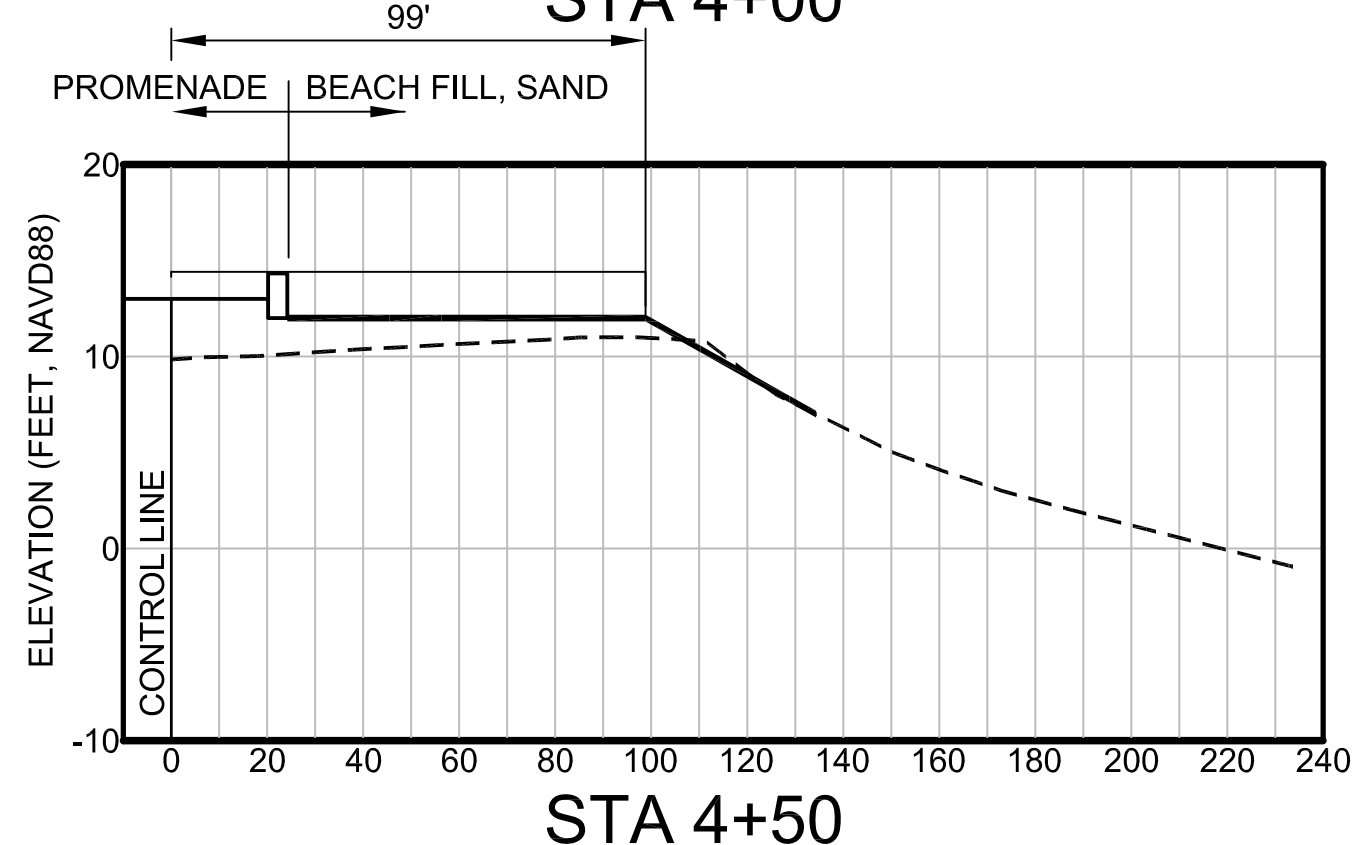
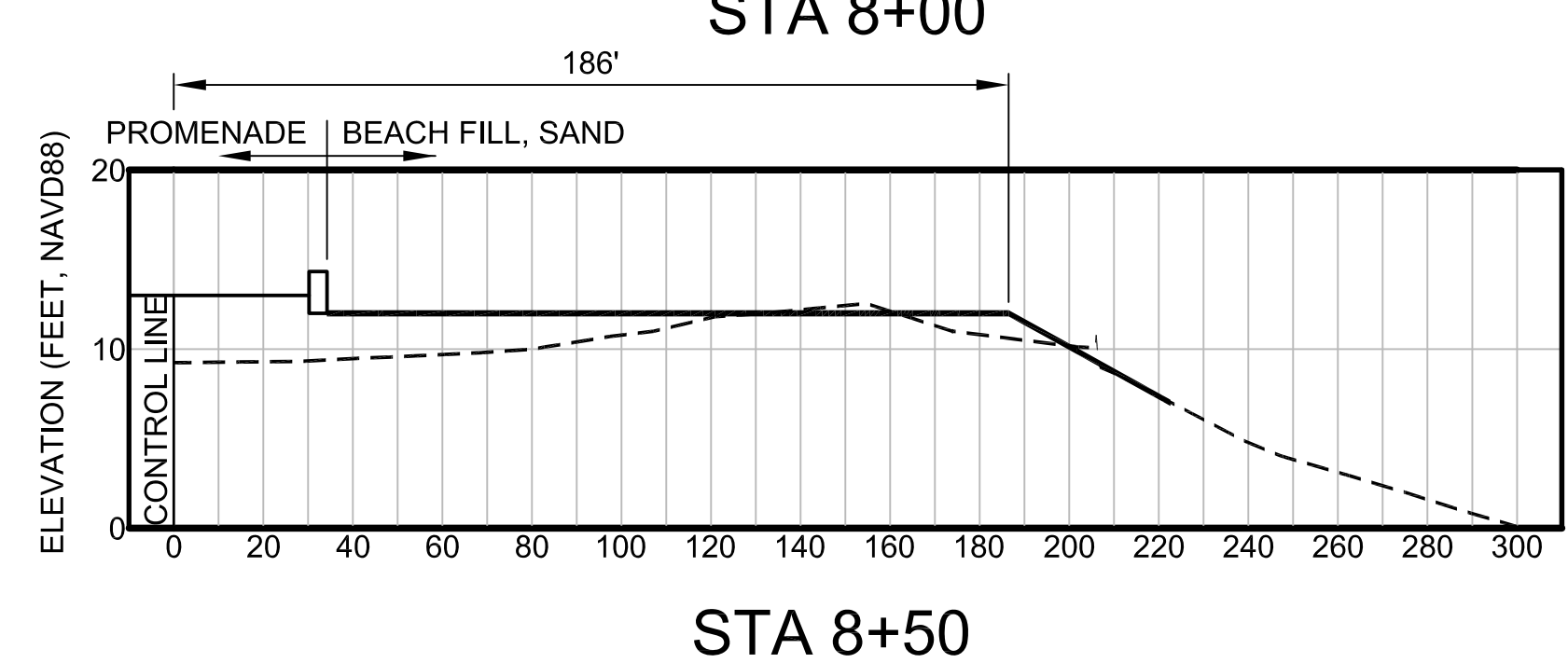
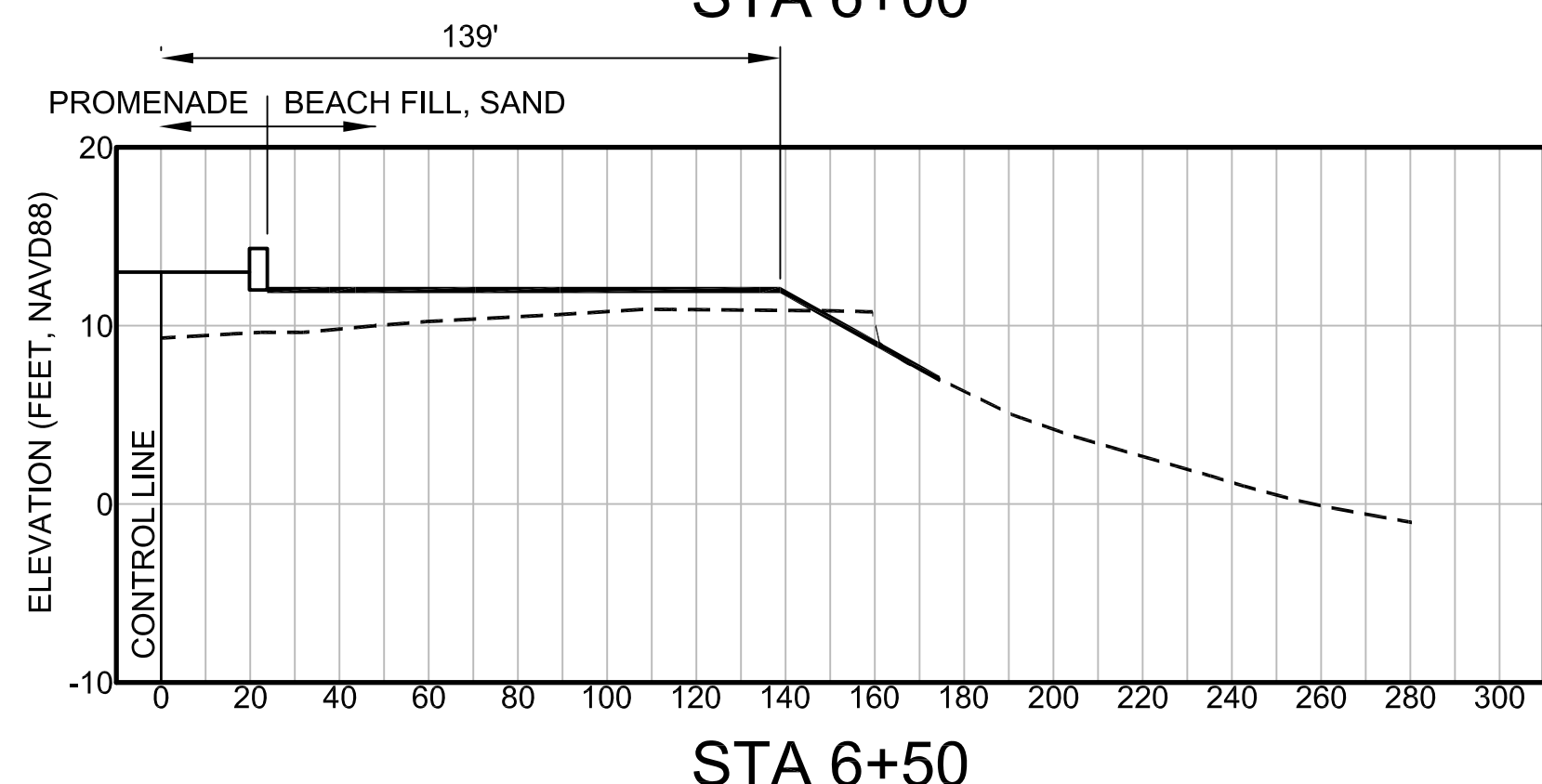
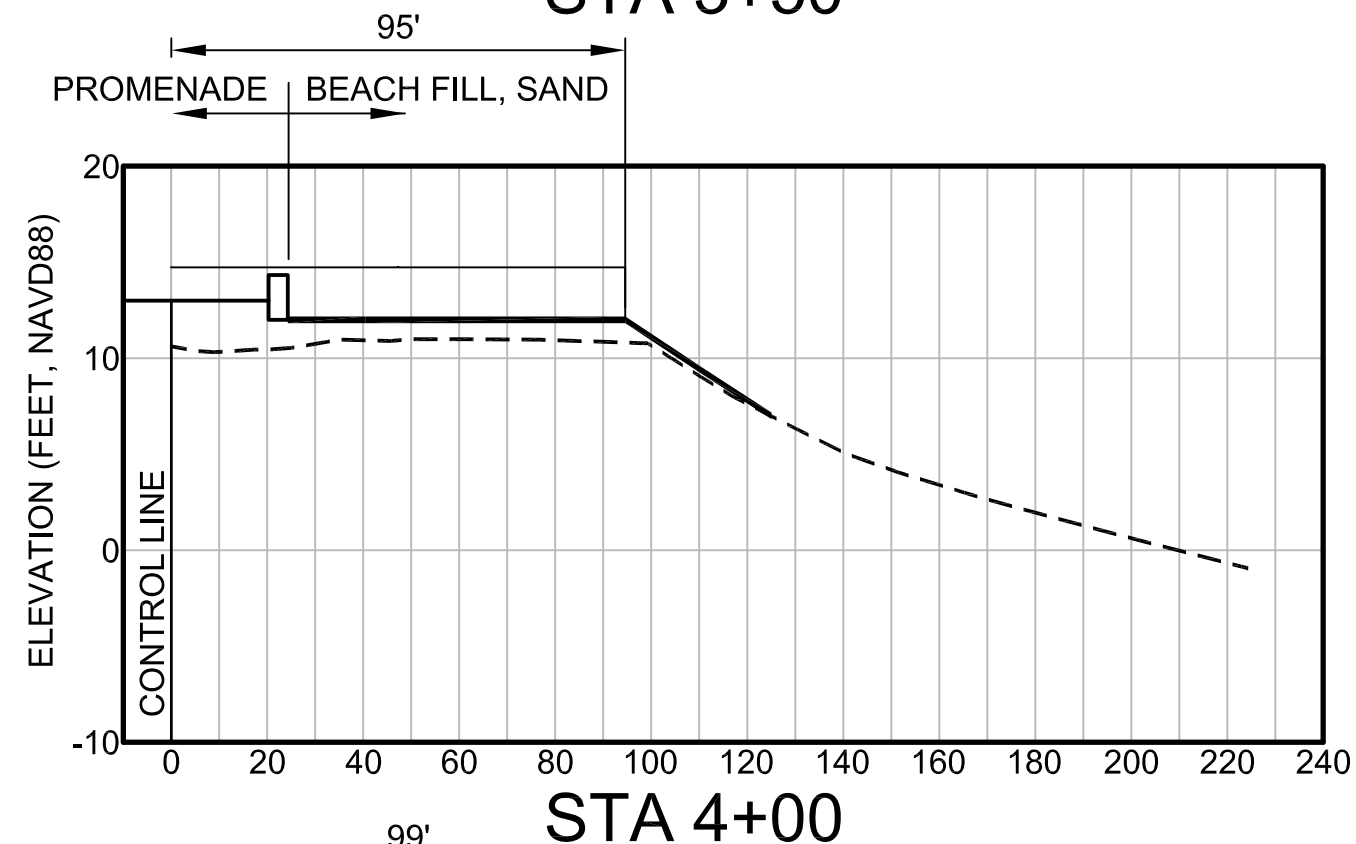
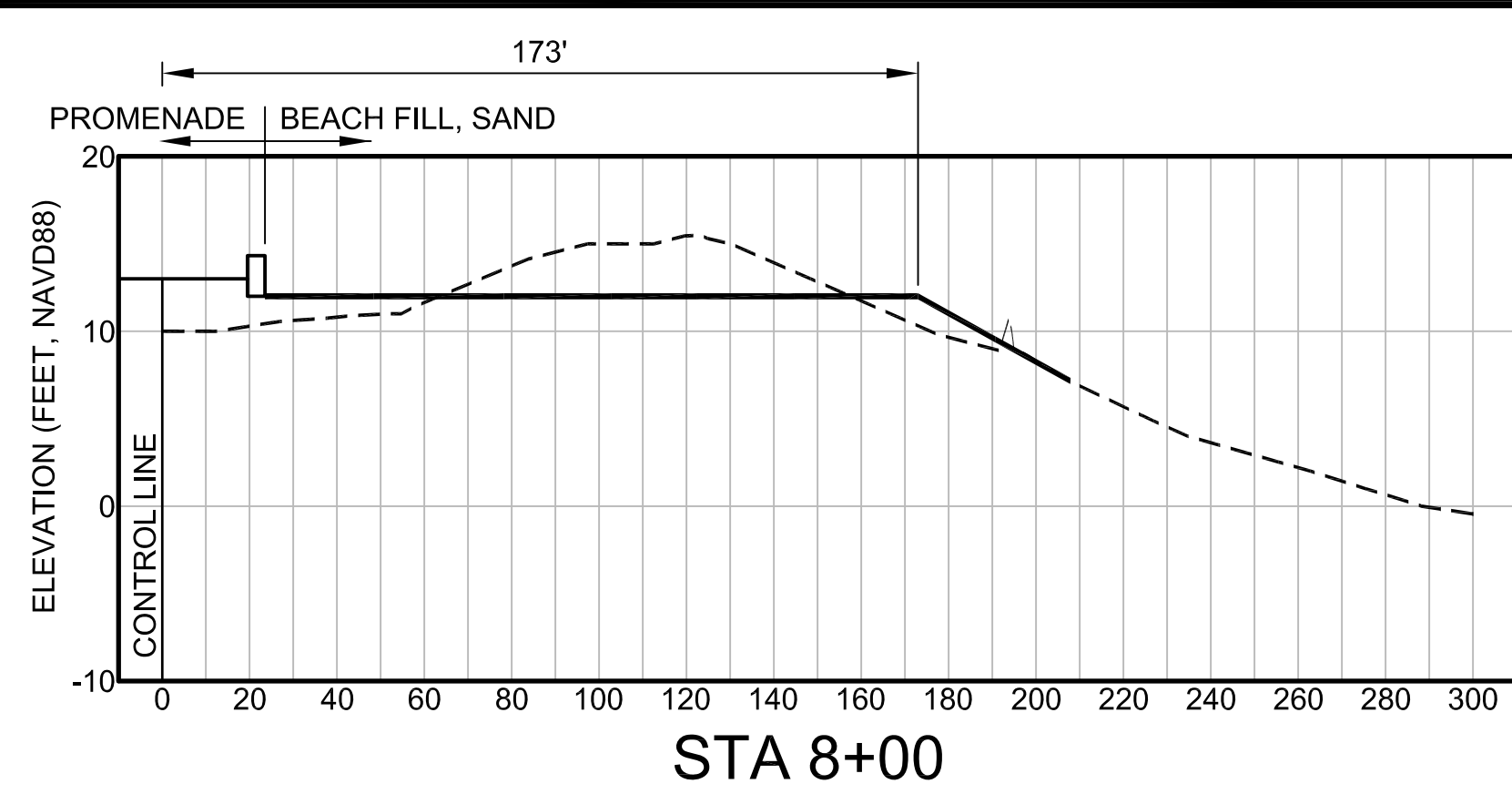
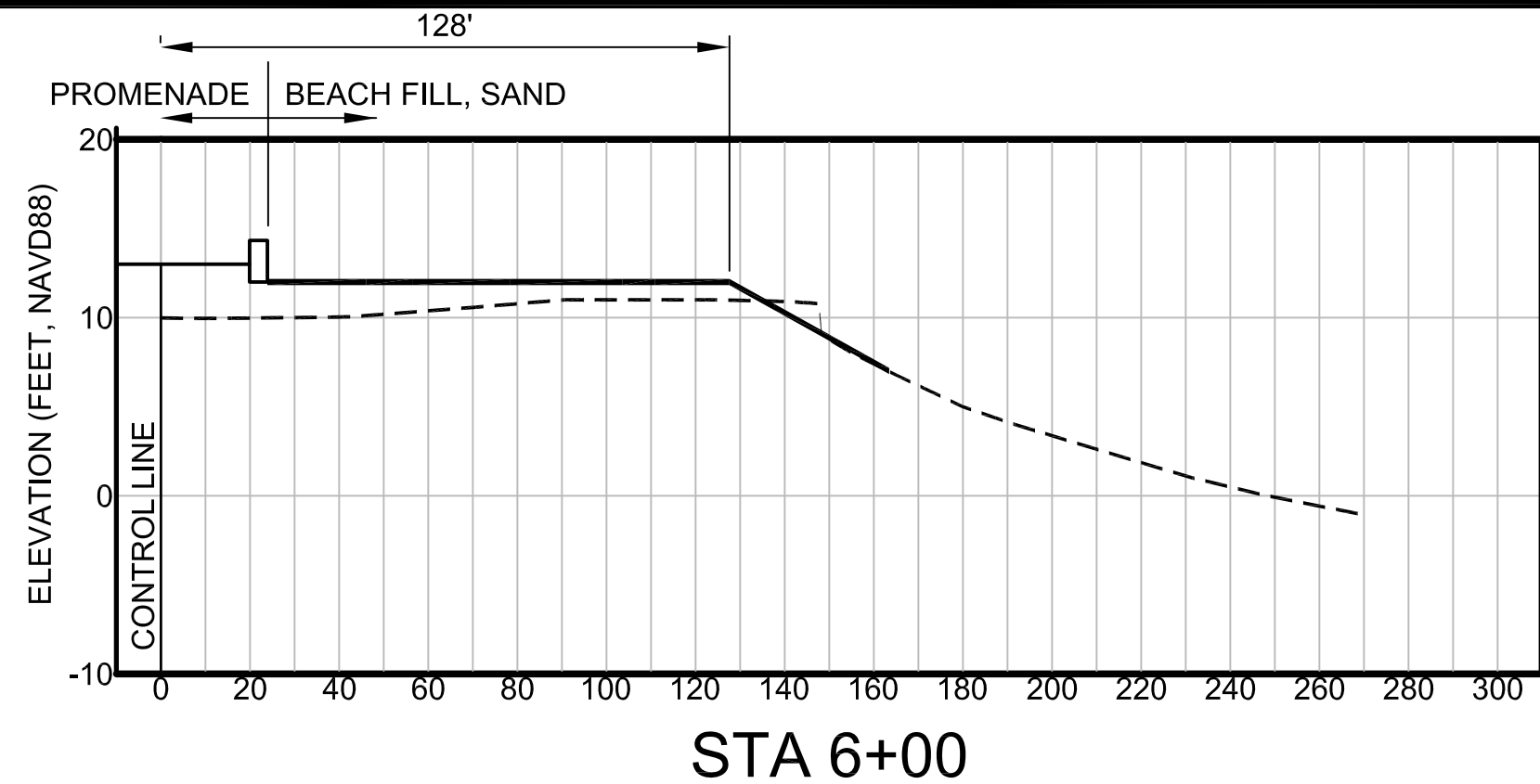
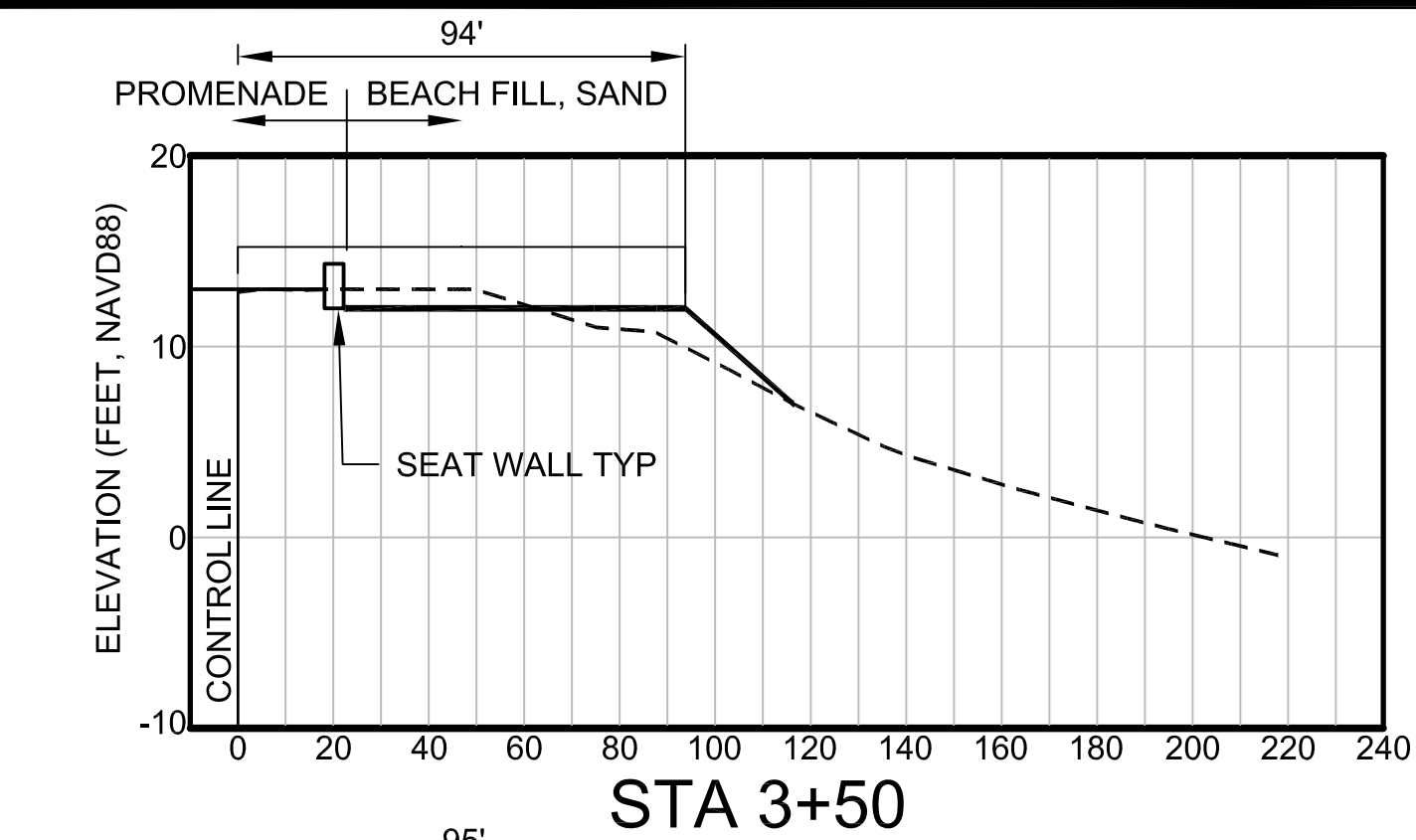
APPROVED DATE: _____
JONATHAN TANG, PROJECT MANAGER
BKF ENGINEERS
P.E. #C67726 / EXPIRES 6-30-2017
REGISTERED PROFESSIONAL ENGINEER
JONATHAN TANG
No. C67726
CIVIL
STATE OF CALIFORNIA

BKF
ENGINEERS, SURVEYORS, PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: CD	COYOTE POINT RECREATION AREA		SCALE: AS NOTED
CHECKED BY: BP	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: TE	CROSS SECTIONS - 1		FILE NO.: E4848
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		SP-3
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	

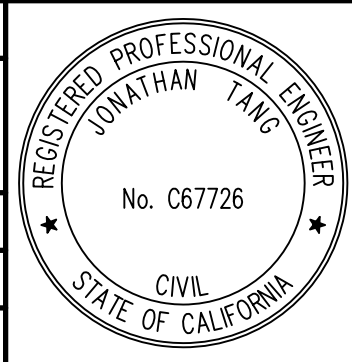
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9/9/2016
JAMES C. PORTER
P.E. #48056



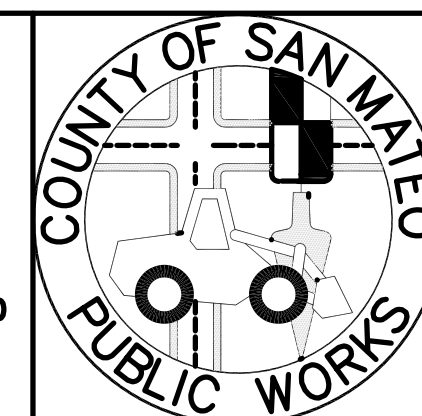
SECTIONS

SCALE: HORIZ 1" = 40'
VERT 1" = 10'

APPROVED DATE:	
JONATHAN TANG, PROJECT MANAGER	
BKF ENGINEERS	
P.E. #C67726 / EXPIRES 6-30-2017	

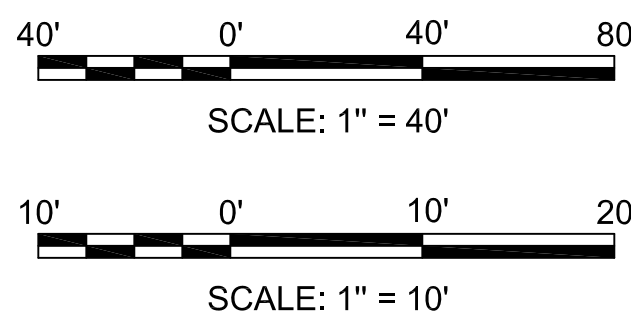


BKF
ENGINEERS, SURVEYORS, PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300



DESIGNED BY: CD	COYOTE POINT RECREATION AREA	SCALE: AS NOTED
CHECKED BY: BP	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: TE	CROSS SECTIONS - 2	FILE NO.: E4848
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	SP-4
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	49 OF 58

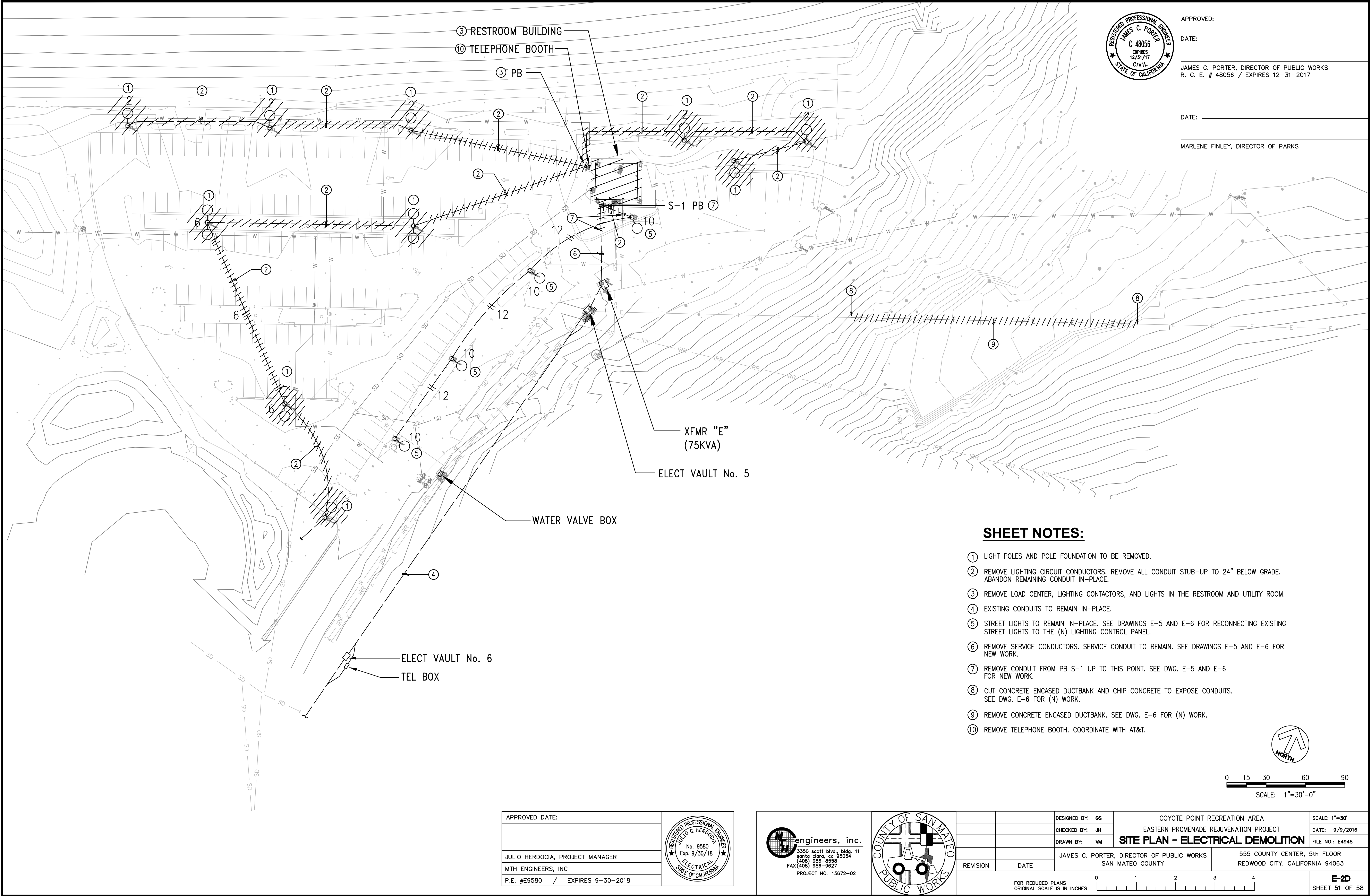
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



APPROVED:	
DATE:	
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	
R. C. E. # 48056 / EXPIRES 12-31-2017	
DATE:	
MARLENE FINLEY, DIRECTOR OF PARKS	

NOTES:

- CREST WIDTH SHOWN IS BASED ON TOPOGRAPHY AS SURVEYED AND MAY NOT REPRESENT ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY EXISTING TOPOGRAPHIC CONDITIONS AND PERFORM PRE-FILL SURVEY IN ACCORDANCE WITH THE SPECIFICATIONS.
- ADJUST CREST OFFSET TO ACHIEVE CONFORM AT ELEV +7' BASED UPON PRE-FILL SURVEY.
- FOR CONTROL LINE ALIGNMENT, SEE SHEET SP-1.



APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

SHEET NOTES:

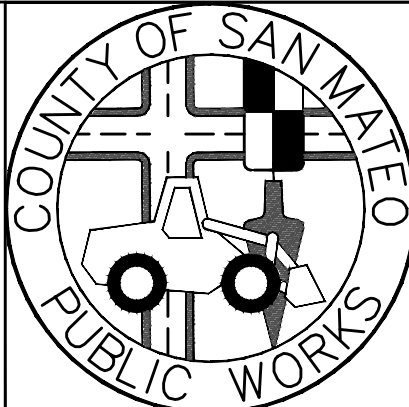
- ① LIGHT POLES AND POLE FOUNDATION TO BE REMOVED.
- ② REMOVE LIGHTING CIRCUIT CONDUCTORS. REMOVE ALL CONDUIT STUB-UP TO 24" BELOW GRADE. ABANDON REMAINING CONDUIT IN-PLACE.
- ③ REMOVE LOAD CENTER, LIGHTING CONTACTORS, AND LIGHTS IN THE RESTROOM AND UTILITY ROOM.
- ④ EXISTING CONDUITS TO REMAIN IN-PLACE.
- ⑤ STREET LIGHTS TO REMAIN IN-PLACE. SEE DRAWINGS E-5 AND E-6 FOR RECONNECTING EXISTING STREET LIGHTS TO THE (N) LIGHTING CONTROL PANEL.
- ⑥ REMOVE SERVICE CONDUCTORS. SERVICE CONDUIT TO REMAIN. SEE DRAWINGS E-5 AND E-6 FOR NEW WORK.
- ⑦ REMOVE CONDUIT FROM PB S-1 UP TO THIS POINT. SEE DWG. E-5 AND E-6 FOR NEW WORK.
- ⑧ CUT CONCRETE ENCASED DUCTBANK AND CHIP CONCRETE TO EXPOSE CONDUITS. SEE DWG. E-6 FOR (N) WORK.
- ⑨ REMOVE CONCRETE ENCASED DUCTBANK. SEE DWG. E-6 FOR (N) WORK.
- ⑩ REMOVE TELEPHONE BOOTH. COORDINATE WITH AT&T.



0 15 30 60 90
SCALE: 1"=30'-0"

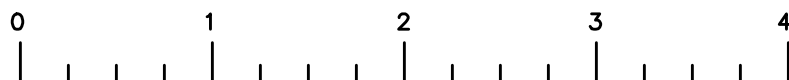
APPROVED DATE:	
JULIO HERDOCIA, PROJECT MANAGER	
MTH ENGINEERS, INC	
P.E. #E9580 / EXPIRES 9-30-2018	

	MTH engineers, inc.
	3350 scott blvd., bldg. 11 santa clara, ca 95054 (408) 986-8558 FAX (408) 986-9627 PROJECT NO. 15672-02



		DESIGNED BY: GS	COYOTE POINT RECREATION AREA		SCALE: 1"=30'
		CHECKED BY: JH	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
		DRAWN BY: VM	SITE PLAN - ELECTRICAL DEMOLITION		FILE NO.: E4948
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE				
		<div>FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES</div> <div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div></div>			
		<div>E-2D SHEET 51 OF 58</div>			

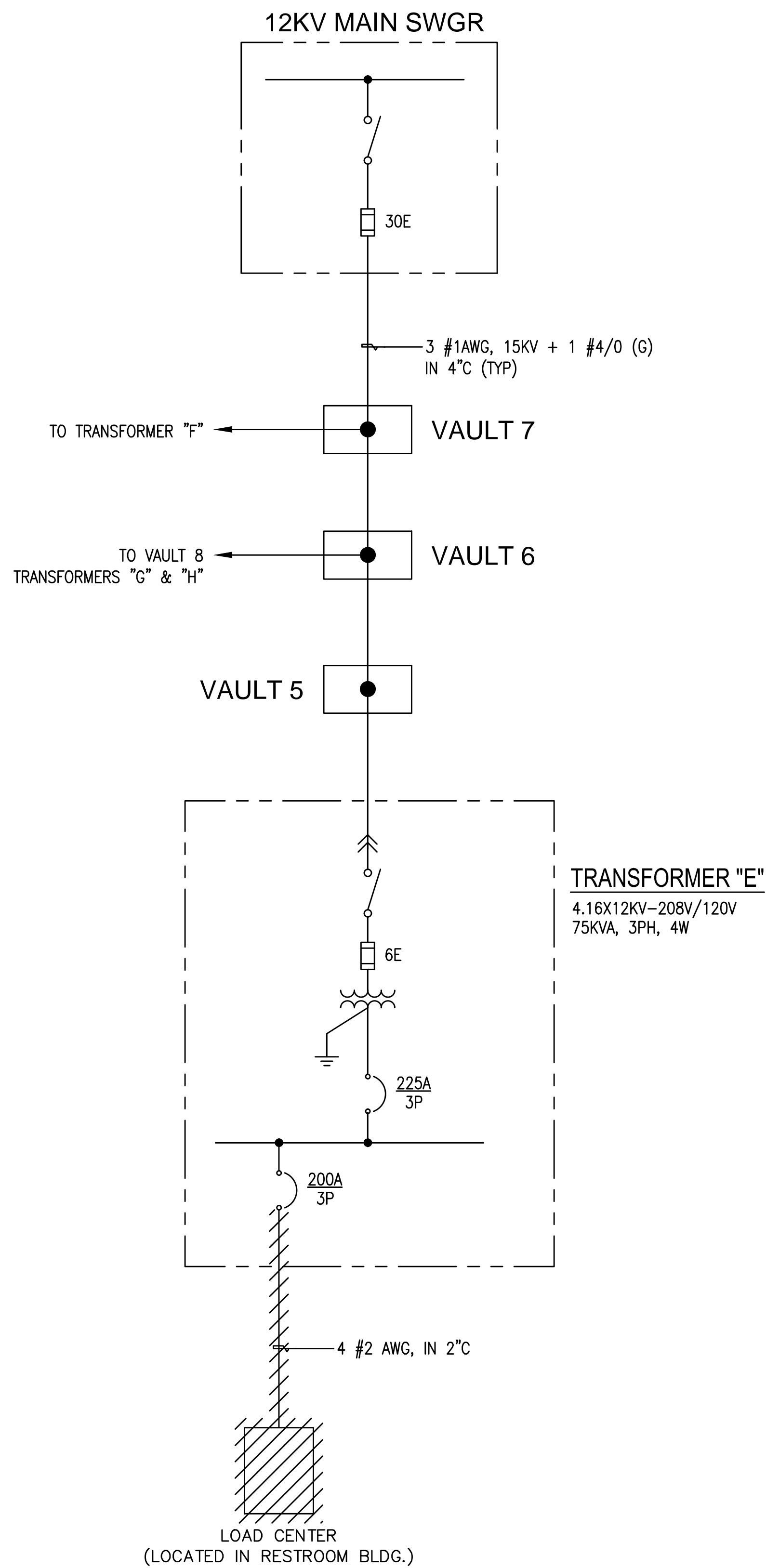
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



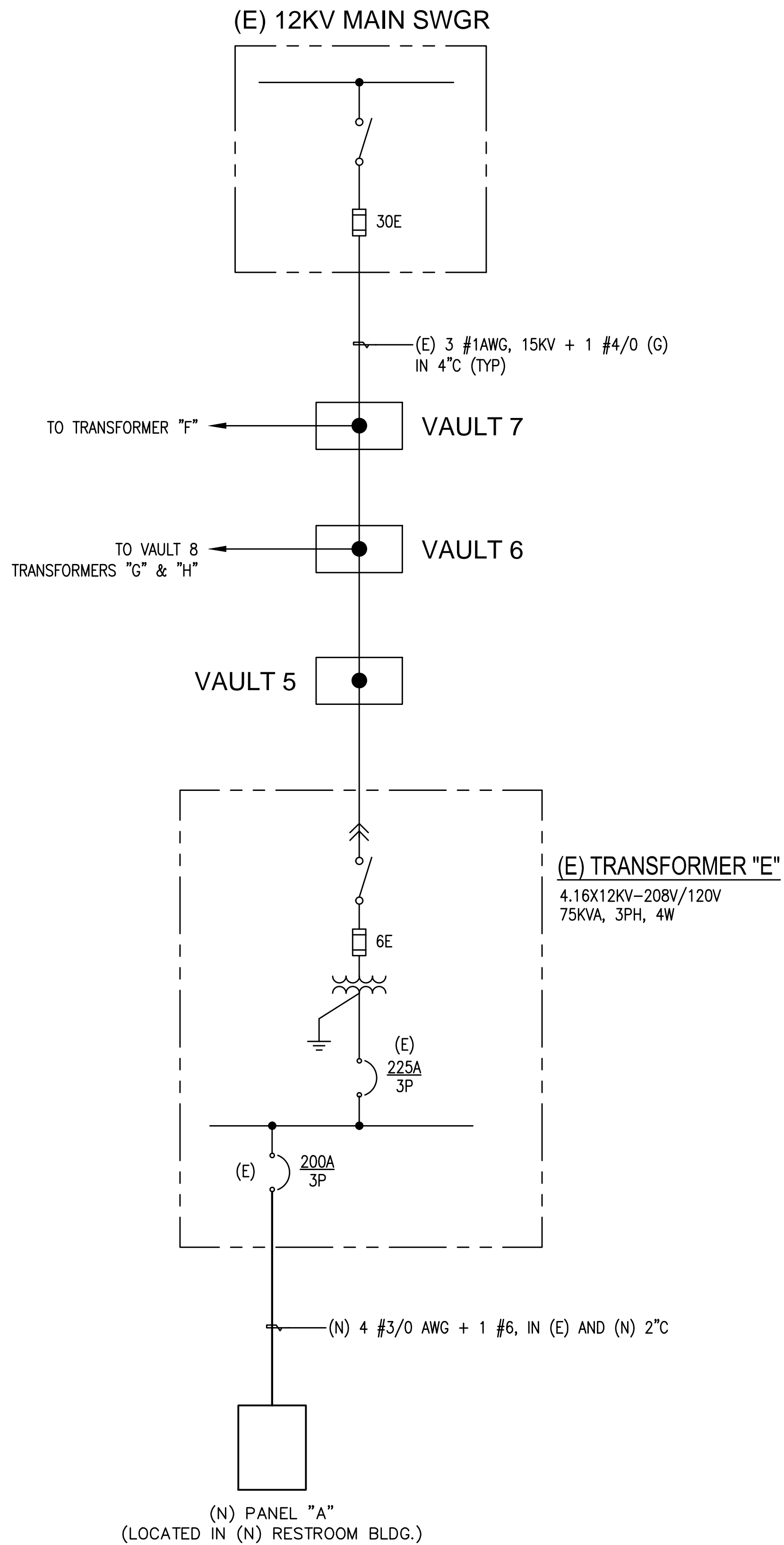


APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS



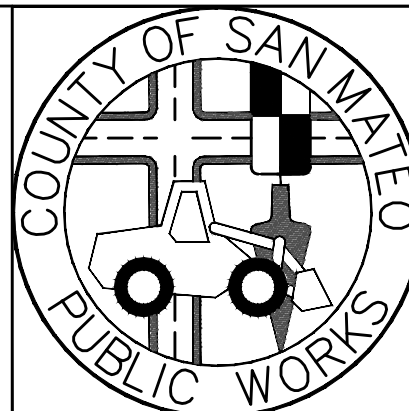
1 SINGLE LINE DIAGRAM - REMOVAL WORK
— SCHEMATIC



2 SINGLE LINE DIAGRAM - NEW WORK
— SCHEMATIC

APPROVED DATE:	
JULIO HERDOCIA, PROJECT MANAGER	
MTH ENGINEERS, INC	
P.E. #E9580 / EXPIRES 9-30-2018	

mth engineers, inc.
3350 scott blvd., bldg. 11
santa clara, ca 95054
(408) 986-8558
FAX (408) 986-9627
PROJECT NO. 15672-02

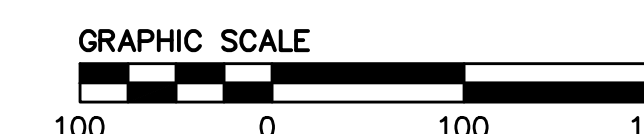
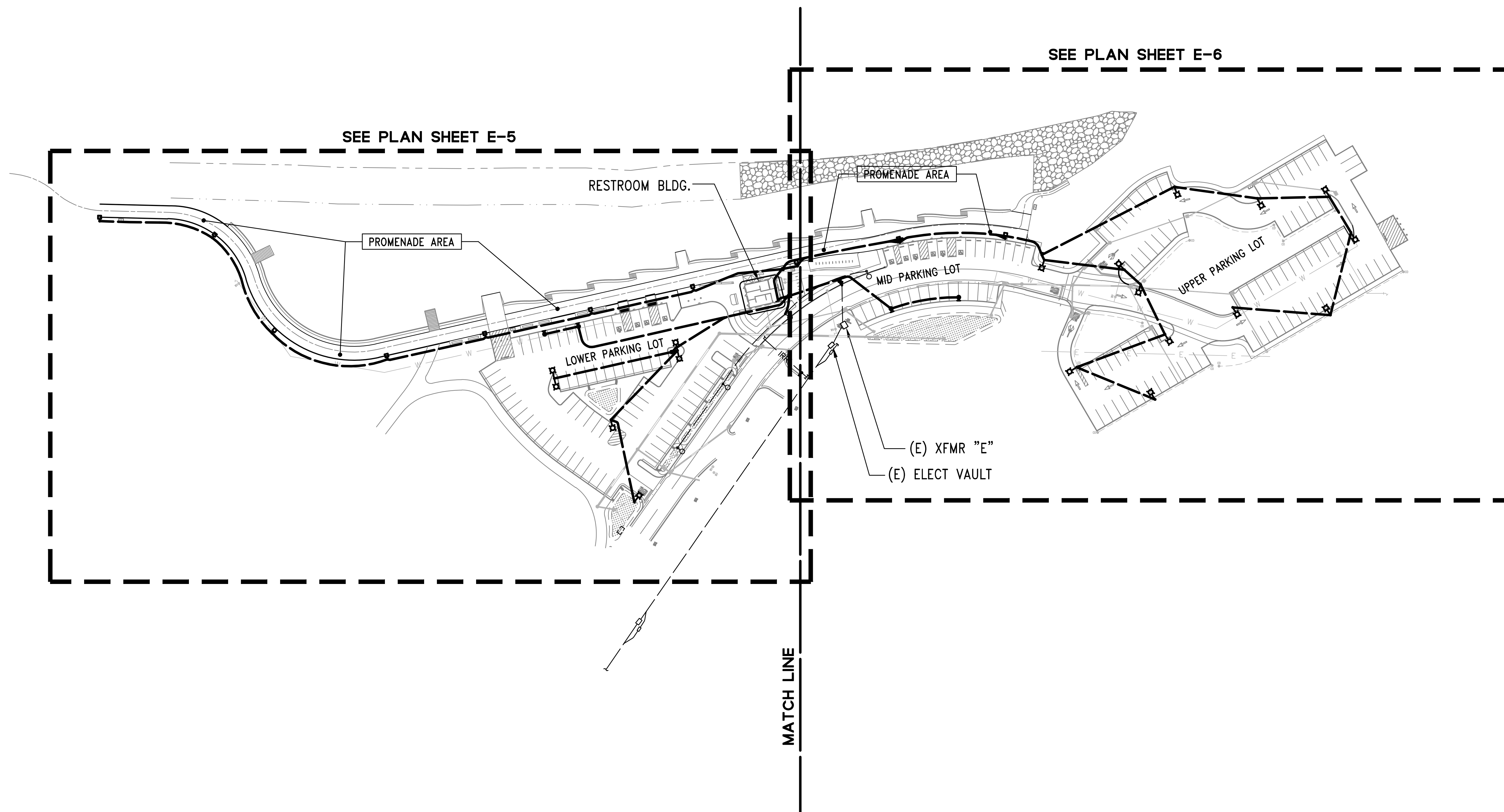


DESIGNED BY: GS	COYOTE POINT RECREATION AREA		SCALE: NONE
	EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
	SINGLE LINE DIAGRAM		FILE NO.: E4948
CHECKED BY: JH	JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
DRAWN BY: VM			
REVISION	DATE		
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			E-3 SHEET 52 OF 58




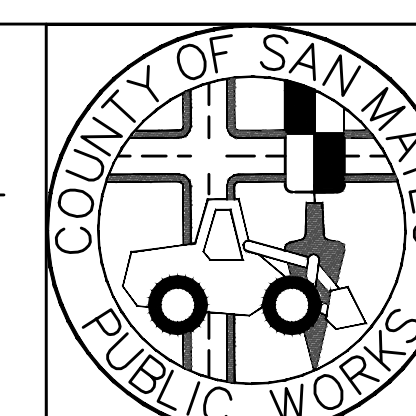
APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

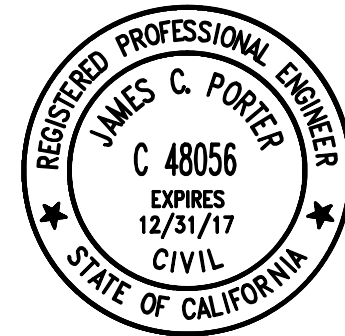


APPROVED DATE:	
JULIO HERDOCIA, PROJECT MANAGER	
MTH ENGINEERS, INC	
P.E. #E9580 / EXPIRES 9-30-2018	

 **engineers, inc.**
3350 scott blvd., bldg. 11
santa clara, ca 95054
(408) 986-8558
FAX (408) 986-9627
PROJECT NO. 15672-02



<div>FILE</div>		DESIGNED BY: GS	COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT KEY SITE PLAN - NEW WORK	SCALE: 1"=50'
		CHECKED BY: JH		DATE: 9/9/2016
		DRAWN BY: VM		FILE NO.: E4948
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
	REVISION	DATE		
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			<div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>	E-4 SHEET 53 OF 58



APPROVED:

DATE:

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE:

MARLENE FINLEY, DIRECTOR OF PARKS

PROMENADE AREA

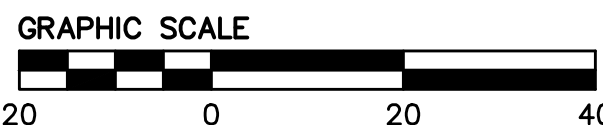
PROMENADE AREA

(N) RESTROOM BUILDING

LOWER PARKING LOT

SHEET NOTES:

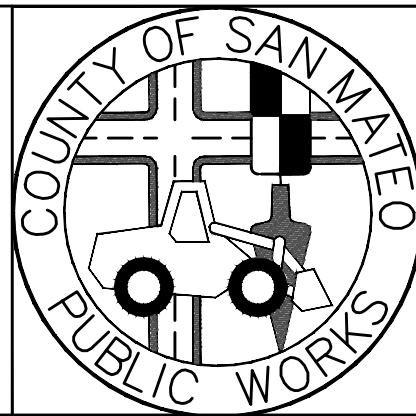
- ① (E) 2°C, INSTALL
(N) 4 #3/0 (SECONDARY SERVICE)
(N) 1 #6 (G)
- ② INTERCEPT AND EXTEND EXISTING 2" CONDUIT FOR NEW SERVICE FROM (E) TRANSFORMER "E" TO PANEL "A" LOCATED IN THE NEW RESTROOM BUILDING.
- ③ (N) 2°C, 4 #3/0 (FEEDER TO PANEL "A")
1 #6 (G)
- ④ PROVIDE CONCRETE PULLBOX, SIZE 5T, CHRISTY B1324 WITH 12" EXTENSION (13" x 24"). REINFORCED TRAFFIC RATED CONCRETE BOX WITH BOLT DOWN STEEL CHECKER PLATE COVER.
- ⑤ PROVIDE CONCRETE PULLBOX, SIZE 6T, CHRISTY B1730 WITH 12" EXTENSION (17"x30"). REINFORCED TRAFFIC RATED CONCRETE BOX WITH BOLT DOWN STEEL CHECKER PLATE COVER.
- ⑥ PROVIDE 1°C, 2 #8 (PROMENADE LIGHTING, 120V)
1 #8 (G)
- ⑦ PROVIDE 1°C, 2 #8 (PARKING LOT LIGHTING, 208V)
1 #8 (G)
- ⑧ PROVIDE (N) WEATHERPROOF, TWO GANG, 2" DEEP, 4 1/2" SQ. RECEPTACLE BOX MOUNTED ON P4101 UNISTRUT WITH END CAP EMBEDDED IN 8" DIA. x 18" D CONCRETE BASE. PROVIDE DUPLEX RECEPTACLE NEMA 5-20R 20A, 125V, GFCI TYPE, SPEC GRADE, WEATHERPROOF "WHILE-IN-USE COVER." SEE DWG. E-8 FOR DETAILS.
- ⑨ PROVIDE 1°C, 2 #8 (OUTDOOR RECEPTACLE, 120V, CKT. A-2)
1 #8 (G)
- ⑩ PROVIDE 1°C,
2 #8 (OUTDOOR RECEPTACLE, 120V, CKT. A-2)
2 #8 (OUTDOOR RECEPTACLE, 120V, CKT. A-4)
1 #8 (G)
- ⑪ PROVIDE 1°C, 2 #8 (OUTDOOR RECEPTACLE, 120V, CKT. A-8)
1 #8 (G)
- ⑫ PROVIDE 1°C,
2 #8 (OUTDOOR RECEPTACLE, 120V, CKT. A-8)
2 #8 (OUTDOOR RECEPTACLE, 120V, CKT. A-6)
1 #8 (G)
- ⑬ PROVIDE 2 #8 (STREET LIGHTING, 208V)
1 #8 (G)
IN (E) CONDUIT.
- ⑭ PROVIDE (N) STAINLESS STEEL TRANSFORMER DOORS, WESTINHOUSE TRANSFORMER IS NOW MANUFACTURED BY ABB. IF ABB IS NOT ABLE TO FURNISH DOORS, PROVIDE CUSTOM DOORS FROM LOCAL STEEL FABRICATORS.
- ⑮ DOWEL IN 2 #4 BARS, 12" LONG AND PROJECTING 12" BEYOND (E) EDGE OF CONCRETE ENCASED DUCTBANK.
- ⑯ PROVIDE COUPLING AND EXTEND (2) 4" SCHED. 40 PVC CONDUITS BETWEEN THE TWO CONDUIT CONNECTION POINTS. SEE DETAIL 4 ON DWG. E-8 FOR TRENCH DETAIL AND DWG. E-9 FOR PLAN AND PROFILE OF (N) DUCTBANK.
- ⑰ PROVIDE 2°C, 2 #8 (PROMENADE LIGHTING, 120V)
2 #8 (PARKING LOT LIGHTING, 208V)
1 #8 (G)
2°C (SPARE)
- ⑱ PROVIDE 2°C, 4 #3/0 (SECONDARY SERVICE)
1 #6 (G)
2°C, 2 #8 (STREET LIGHTING, 208V)
2 #8 (PARKING LOT LIGHTING, 208V)
8 #8 (OUTDOOR RECEPTACLE, 120V)
1 #8 (G)
2°C (SPARE)



APPROVED DATE:
JULIO HERDOCIA, PROJECT MANAGER
MTH ENGINEERS, INC
P.E. #E9580 / EXPIRES 9-30-2018



engineers, inc.
3350 scott blvd., bldg. 11
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(408) 986-8558
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PROJECT NO. 15672-02

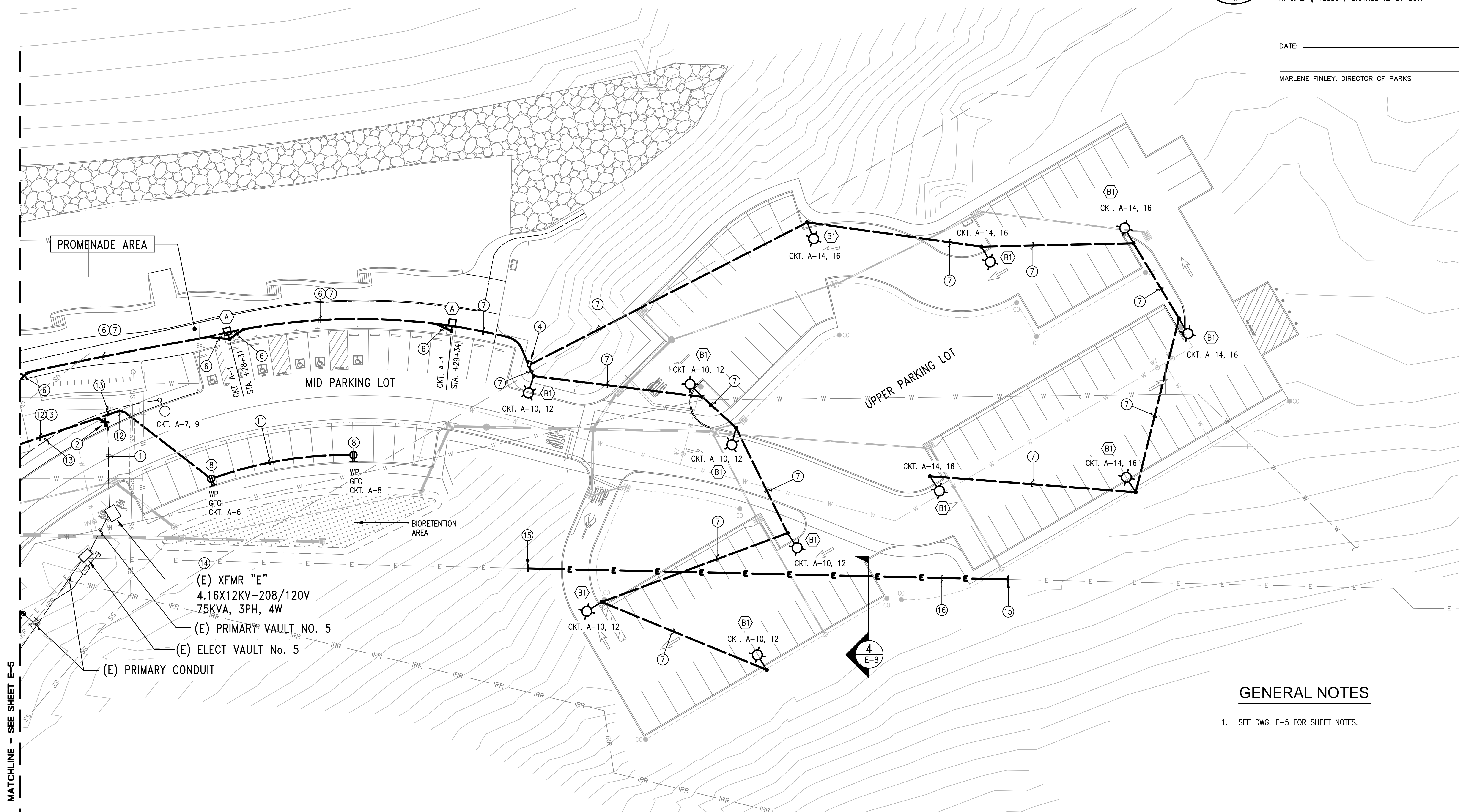


DESIGNED BY: GS	COYOTE POINT RECREATION AREA	SCALE: 1"=20'
CHECKED BY: JH	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: VM	POWER AND LIGHTING ENLARGED PLAN - SHT. 1	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	E-5 SHEET 54 OF 58
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		



APPROVED: _____
DATE: _____
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____
MARLENE FINLEY, DIRECTOR OF PARKS

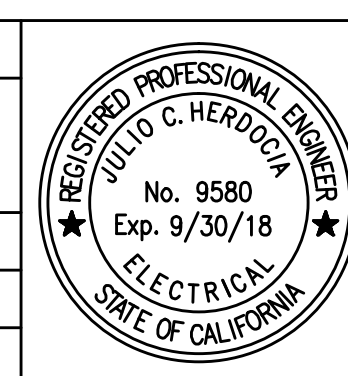


GENERAL NOTES

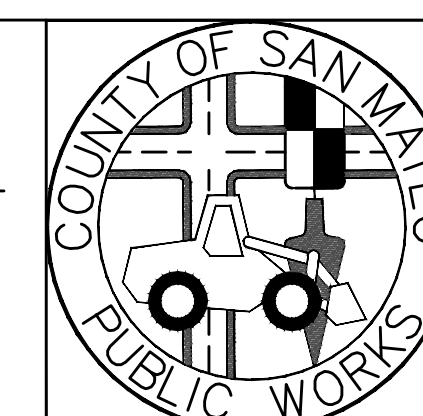
- SEE DWG. E-5 FOR SHEET NOTES.



APPROVED DATE: _____
JULIO HERDOCIA, PROJECT MANAGER
MTH ENGINEERS, INC
P.E. #E9580 / EXPIRES 9-30-2018



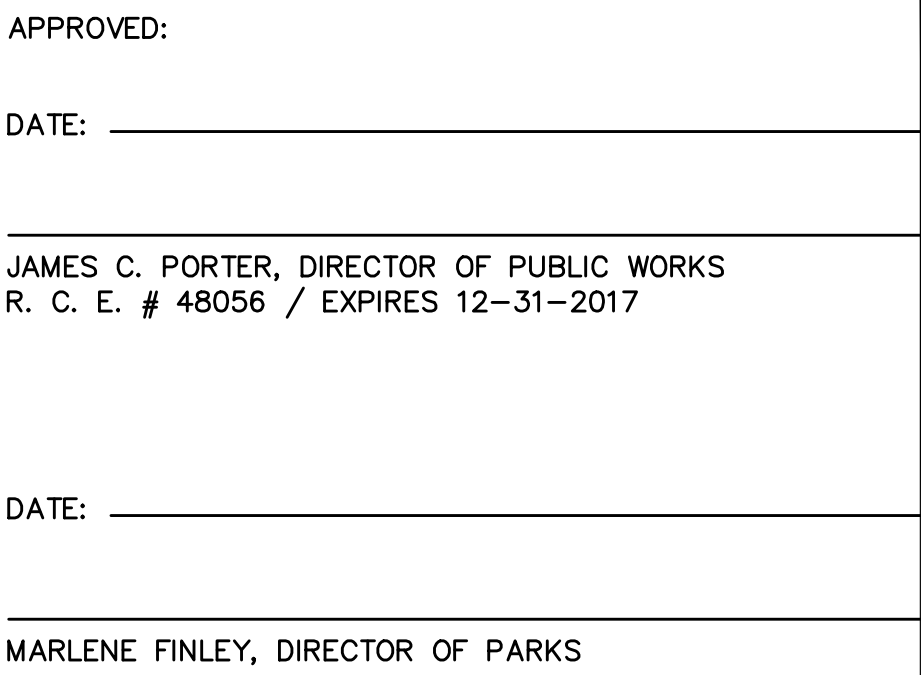
MTH engineers, inc.
3350 scott blvd., bldg. 11
santa clara, ca 95054
FAX (408) 986-9558
PROJECT NO. 15672-02



DESIGNED BY: GS		COYOTE POINT RECREATION AREA		SCALE: 1"=20'
CHECKED BY: JH		EASTERN PROMENADE REJUVENATION PROJECT		DATE: 9/9/2016
DRAWN BY: VM		POWER AND LIGHTING ENLARGED PLAN - SHT. 2		FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	E-6		
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4		
		SHEET 55 OF 58		

LIGHTING FIXTURE SCHEDULE							
MARK	MANUFACTURER'S MODEL NO.	LAMPS		TOTAL WATTS	VOLTS	MOUNTING	DESCRIPTION AND REMARKS
		QTY.	TYPE				
A	RAB LIGHTING #ALED26 POLE #PS4S10C1BZ	1	(1) LED	26	120	10 FT. POLE MOUNTED	LED AREA WALKWAY LUMINAIRE TYPE IV DISTRIBUTION, FULLY SHIELDED, PRECISION DIE CAST ALUMINUM HOUSING, LENS FRAME. POLYESTER POWDER COATED. WEATHERPROOF HIGH TEMPERATURE SILICONE GASKETS. BRONZE COLOR. UL LISTED, SUITABLE FOR WET LOCATIONS.
B1	RAB LIGHTING #ALED3T78 POLE #PS4S25S1BZ, EXCEPT 22'-6" HEIGHT	1	(6) 13W LED	78	208	22'-6" FT. POLE MOUNTED	LED AREA PARKING LOT LUMINAIRE TYPE III DISTRIBUTION, FULLY SHIELDED, PRECISION DIE CAST ALUMINUM HOUSING, LENS FRAME AND MOUNTING ARM. POLYESTER POWDER COATED. WEATHERPROOF HIGH TEMPERATURE SILICONE GASKETS. BRONZE COLOR. UL LISTED, SUITABLE FOR WET LOCATIONS.
B2	RAB LIGHTING #ALED3T78 POLE #PS4S25S2BZ, EXCEPT 22'-6" HEIGHT	2	(6) 13W LED	156	208	22'-6" FT. POLE MOUNTED	SAME AS TYPE B1 EXCEPT TWIN HEAD.

RELAY TYPE:	S	SINGLE POLE, 120/277V 20A ZMAX
	2	2 POLE, 220/480V 20A
	3	SINGLE POLE, 347V 20A
	N	NORMALLY CLOSED 120V - 347V



RESTROOM BLDG. OUTSIDE WALL

3"

6"

3"

1 1/2" RSC NIPPLE (TYP)

4" x 4" HINGED WIRE WAY

PANEL "A"

LIGHTING CONTROL PANEL

2 1/2" RSC CLOSE NIPPLE

STRUT SUPPORT

FINISH GRADE



(5) 2" RSC TO PULLBOXES

NOTE 1: TRANSITION FROM BUILDING INTERIOR TO UNDERGROUND

TO PB-1 NOTE 1

TO PB-2 NOTE 1

5'-0"

 Engineers, inc. 3350 scott blvd., bldg. 11 santa clara, ca 95054 (408) 986-8558 FAX (408) 986-9827 PROJECT NO. 15672-02			DESIGNED BY: GS	COYOTE POINT RECREATION AREA EASTERN PROMENADE REJUVENATION PROJECT LIGHTING FIXTURE AND PANEL SCHEDULES		SCALE: NONE
			CHECKED BY: JH			DATE: 9/9/2016
			DRAWN BY: VM			FILE NO.: E4948
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR		
SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063				
REVISION	DATE	0 1 2 3 4 FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				E-7 SHEET 56 OF 58



SCALE: NTS



SCALE: NTS



SCALE: NTS

SHEET NOTES:

- ① CONTRACTOR SHALL DRILL AND TAP REDWOOD TRIM INTO THE LIGHTING POLE TO MATCH EXISTING.
- ② PROVIDE (N) 1" RSC 4 #8 (RECEPTACLE STANCHION)
1 #8 (G)
- ③ PROVIDE (N) WEATHERPROOF, TWO GANG, 2" DEEP, 4 1/2" SQ. RECEPTACLE BOX MOUNTED ON P4101 UNISTRUT WITH END CAP EMBEDDED IN 8" DIA. x 18" D CONCRETE BASE. PROVIDE DUPLEX RECEPTACLE NEMA 5-20R 20A, 125V, GFCI TYPE, SPEC GRADE, WEATHERPROOF "WHILE-IN-USE COVER."



DATE: _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2017

DATE: _____

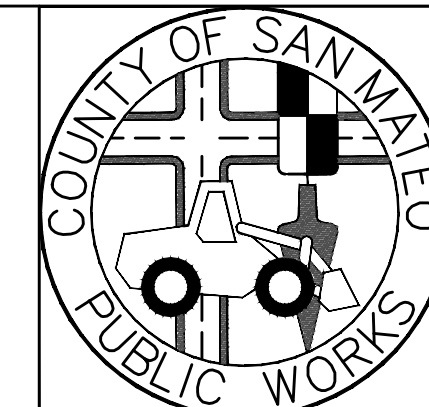
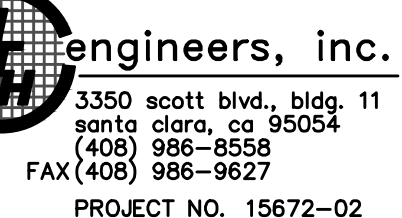
MARLENE FINLEY, DIRECTOR OF PARKS

APPROVED DATE:

JULIO HERDOCIA, PROJECT MANAGER

MTH ENGINEERS, INC

P.E. #E9580 / EXPIRES 9-30-2018



DESIGNED BY:	GS
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CHECKED BY: JH

DRAWN BY: VM

	JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY
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COYOTE POINT RECREATION AREA
EASTERN PROMENADE REJUVENATION PROJECT
ELECTRICAL DETAILS

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

NONE

DATE: 9/9/2016

FILE NO.: E4948

REVISION	DATE
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REVISION	DATE	
<p>FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES</p>		

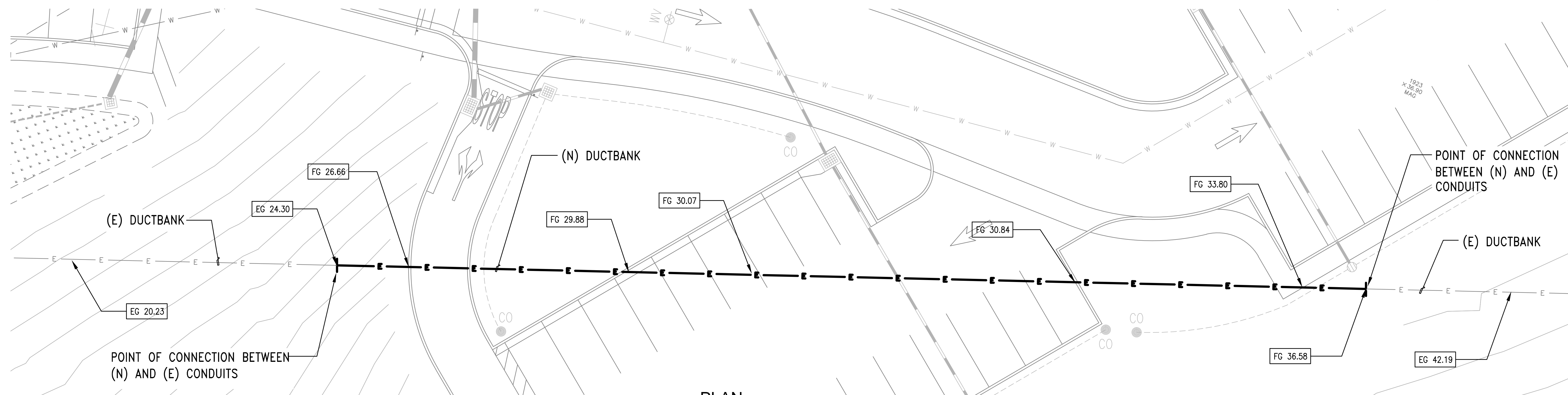
E-8

SHEET 57 OF 58



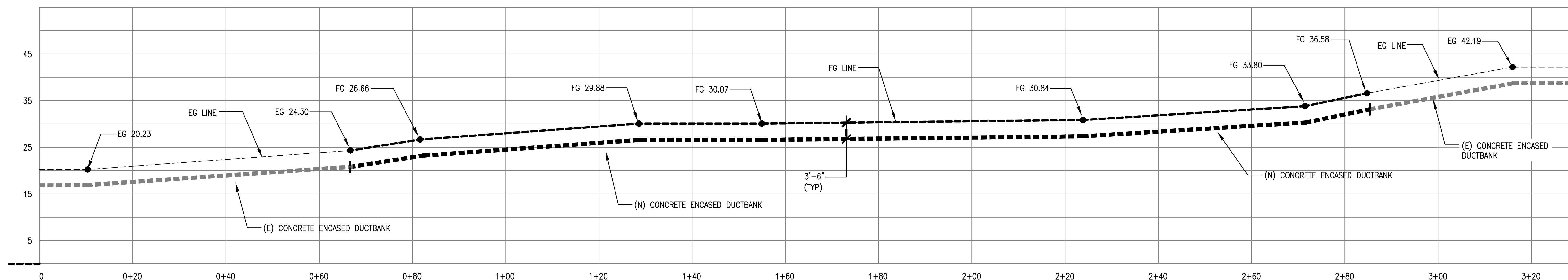
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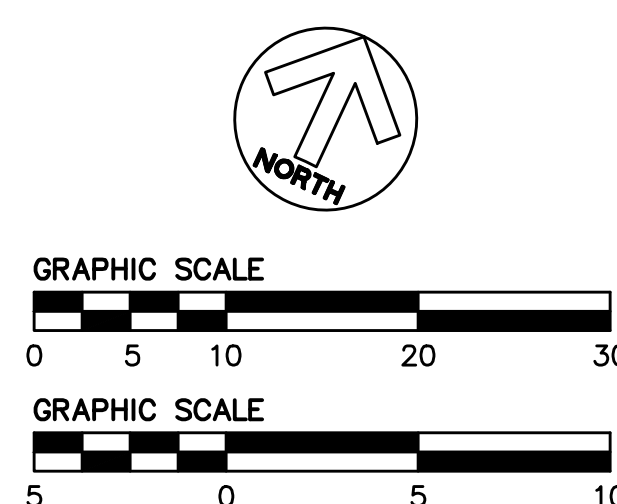
PLAN

SCALE: 1" = 10'-0"

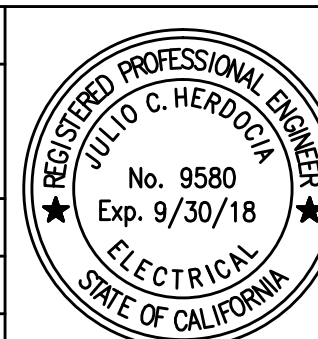


ELEVATION

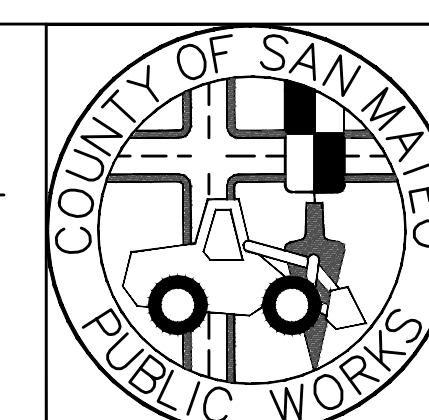
SCALE: H = 1" = 10'-0" , V = 1" = 5'-0"



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JULIO HERDOCIA, PROJECT MANAGER	
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PROJECT NO. 15672-02



DESIGNED BY: GS	COYOTE POINT RECREATION AREA	SCALE: H=10' V=5'
CHECKED BY: JH	EASTERN PROMENADE REJUVENATION PROJECT	DATE: 9/9/2016
DRAWN BY: VM	EXISTING DUCTBANK VERTICAL RE-ALIGNMENT	FILE NO.: E4948
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4
		E-9 SHEET 58 OF 58