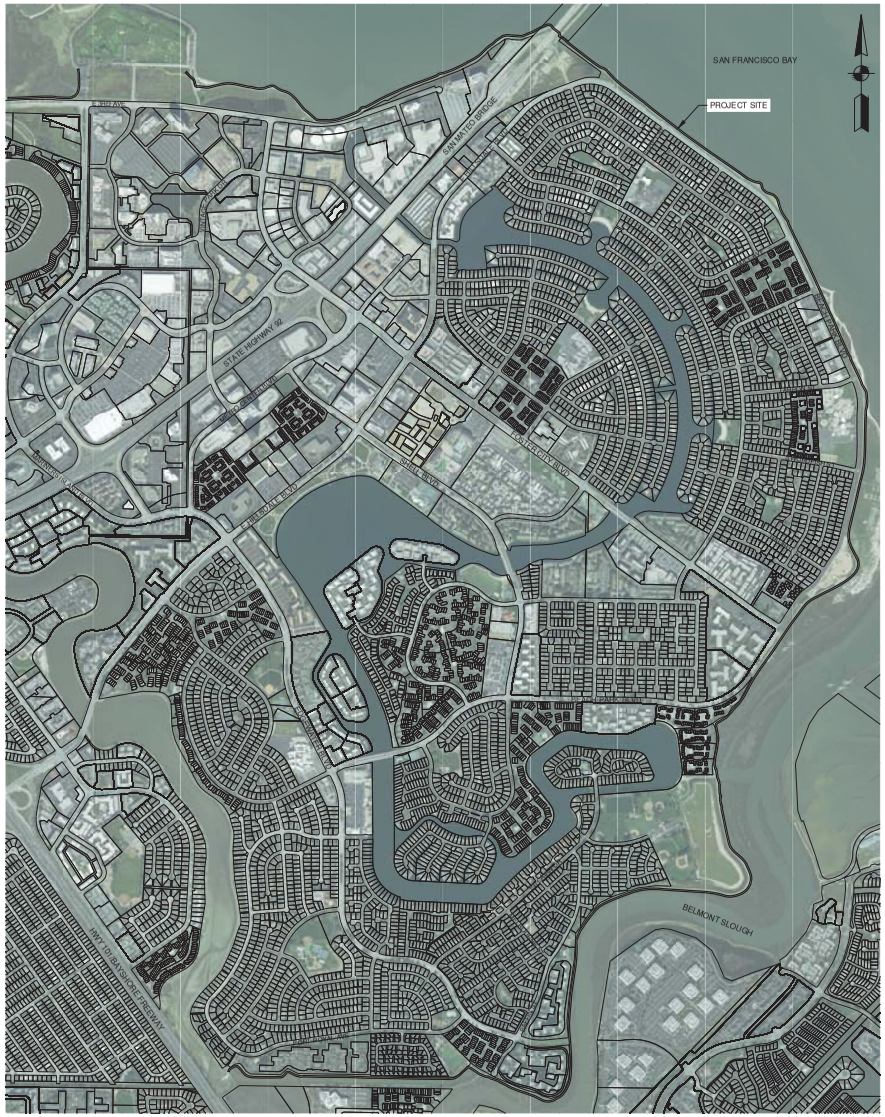
MAP AND CONSTRUCTION PLAN

FOR

CITY OF FOSTER CITY
DEPARTMENT OF PUBLIC WORKS

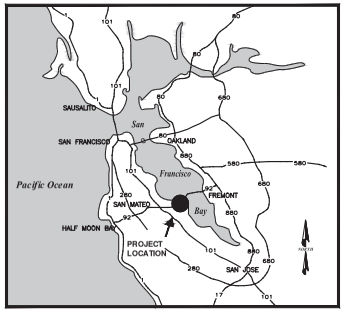
FOSTER CITY LEVEE IMPROVEMENTS

CIP 301 - 657



PROJECT LOCATION MAP

NO SCALE



VICINITY MAP

NTS

PREPARED BY: Charles D. Anderson 4/24/20
CHARLES D. ANDERSON, P.E. DATE
SCHAAF & WHEELER CONSULTING CIVIL ENGINEERS

APPROVED BY: Norman Dorais 4/30/20
NORMAN J. DORAIS, P.E. DATE
PUBLIC WORKS DIRECTOR / CITY ENGINEER
CITY OF FOSTER CITY

DATE: 4/24/2020
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DRAWN BY: MRG
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TITLE SHEET

SHEET
G 01
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CIP PROJ. NUMBER
CIP 301-657

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SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

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610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

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SHEET
G 02
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CIP 301-657

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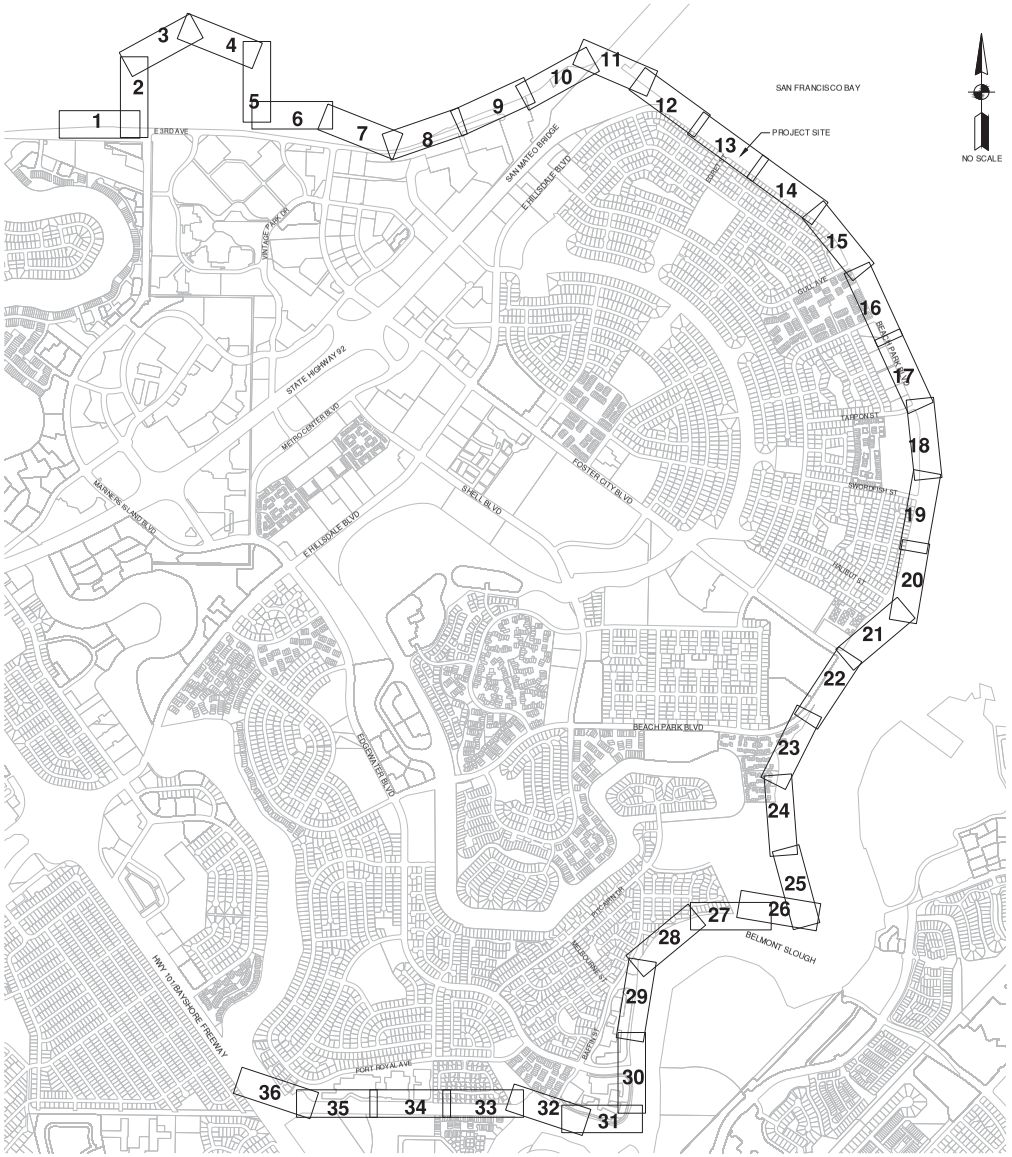

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GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE GENERAL AND SPECIFIC PROVISIONS, STANDARD DRAWINGS, AND REQUIREMENTS OF THE CITY OF FOSTER CITY
2. NO CHANGE TO THE PROJECT IMPROVEMENT PLANS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE CITY.
3. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT TO THE EXTENT ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR ENGINEER.
4. CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATION AND TRENCHING. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR SHORING DESIGN AND INSTALLATION.
5. INFORMATION CONCERNING EXISTING UTILITIES IS NOT GUARANTEED; LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL REQUEST THAT UNDERGROUND FACILITIES BE LOCATED AND MARKED IN THE FIELD A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION BY CALLING USA NORTH 811 (U.S.A.) AT 800-642-2444.
6. EXISTING UTILITIES SHALL BE LEFT IN PLACE DURING CONSTRUCTION. BRACING, SHORING AND SUPPORT FOR EXISTING UTILITIES SHALL BE APPROVED BY THE APPLICABLE UTILITY ENGINEER. CONTRACTOR SHALL NOTIFY UTILITY ENGINEERS AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY RELATED CONSTRUCTION ACTIVITY. IN THE EVENT OF DAMAGE TO ANY UTILITY OCCASIONED BY THE CONTRACTOR OPERATIONS, THE CONTRACTOR, AT HIS SOLE COST AND EXPENSE, WILL IMMEDIATELY CAUSE REPAIRS TO BE MADE TO THE SATISFACTION OF THE AFFECTED UTILITY. NOTIFY THE ENGINEER OF ANY ADJUSTMENTS NECESSITATED BY WAY OF CONFLICT WITH EXISTING UTILITY.
7. CONTRACTOR SHALL NOTIFY THE CITY OF FOSTER CITY AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY CONSTRUCTION ACTIVITY. ALL UTILITY SHUTDOWNS ARE TO BE COORDINATED THROUGH THE CITY PUBLIC WORKS DEPARTMENT. ANY TEMPORARY SUSPENSION OF THE WORK OR SUBSEQUENT RESUMPTION OF WORK REQUIRES THE NOTIFICATION OF THE CITY AND THE ENGINEER.
9. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, CONES OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE SPECIFICATIONS. SEE ALSO TRAFFIC CONTROL NOTES BELOW.
10. CONTRACTOR SHALL REPLACE, AT HIS EXPENSE, ALL TREES, SHRUBS, LAWNS, FENCES, IRRIGATION SYSTEMS AND IMPROVEMENTS WHICH ARE TO REMAIN INTACT BUT HAVE BEEN REMOVED OR DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOT REMOVE OR DAMAGE IMPROVEMENTS LOCATED WITHIN CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE CITY; OR FROM PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.
11. WRITTEN PERMISSION FROM APPROPRIATE PROPERTY OWNERS MUST BE OBTAINED PRIOR TO REMOVING ANY EXISTING FENCES, SHEDS, OR OTHER PROPERTY OUTSIDE OF THE PUBLIC RIGHT-OF-WAY OR CITY PROPERTY.
12. ALL PERMANENT IMPROVEMENTS REMOVED OR DAMAGED BY THE CONTRACTOR, THAT ARE NOT SPECIFICALLY SHOWN TO BE REMOVED, SHALL BE RESTORED TO THEIR ORIGINAL LOCATION AND CONDITION BY THE CONTRACTOR USING NEW MATERIALS AS DIRECTED BY THE ENGINEER.
13. CONTRACTOR TO PROVIDE TEMPORARY FENCING AND GATES WHENEVER AND WHEREVER EXISTING FENCING OR GATES ARE REMOVED FOR CONSTRUCTION PURPOSES.
14. CONTRACTOR SHALL CONTROL DUST ACCORDING TO THE SPECIFICATIONS.
15. CONSTRUCTION WATER MAY BE OBTAINED FROM CITY OF FOSTER CITY FIRE HYDRANTS. CONTRACTOR SHALL CONTACT CITY OF FOSTER CITY PUBLIC WORKS ENGINEERING DEPARTMENT TO OBTAIN WATER METER AND PERMISSION.
16. CONTRACTOR SHALL MAINTAIN A MEANS OF ACCESS TO PROPERTIES, DRIVEWAYS, AND DWELLINGS AT ALL TIMES AS DETERMINED BY THE ENGINEER.
17. CONTRACTOR SHALL NOTIFY, BY CIRCULAR, AS DIRECTED BY THE CITY, ALL BUSINESS ESTABLISHMENTS AND RESIDENCES AFFECTED BY THE WORK, AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CIRCULAR SHALL BE SUBJECT TO APPROVAL BY THE DIRECTOR OF PUBLIC WORKS OR CITY ENGINEER.
18. IT IS THE CONTRACTORS RESPONSIBILITY TO REPLACE ALL STREET MONUMENTS, LOT CORNER PIPES, AND GRADE STAKES DISTURBED DURING THE PROCESS OF CONSTRUCTION AT THE DIRECTION OF THE CITY ENGINEER.
19. ALL SURPLUS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND PUBLIC RIGHT-OF-WAY
20. CONTRACTOR SHALL PERFORM HIS CONSTRUCTION AND OPERATION IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE FOSTER CITY LAGOON, ONEILL SLOUGH, BELMONT SLOUGH, OR THE SAN FRANCISCO BAY. THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION AS OUTLINED IN THE BROCHURES TITLED "BEST MANAGEMENT PRACTICES FOR THE CONSTRUCTION INDUSTRY SERIES" ISSUED BY THE SAN MATEO COUNTY WIDE WATER POLLUTION PREVENTION PROGRAM (STOPPP) AND SECTION 01 57 23 OF THE SPECIFICATIONS.
21. THE CONTRACTOR SHALL NEITHER WASTE NOR DEPOSIT ANY HAZARDOUS MATERIALS ON THE GRADING SURFACES OR WITHIN THE GRADED CUT AND FILL AREAS OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO GASOLINE OR DIESEL FUELS, MOTOR OILS OR TRANSMISSION FLUIDS, ANTIFREEZE, HYDRAULIC FLUIDS, LUBRICANTS, STARTING FLUIDS AND FILTERS, AND/OR CONTAINERS FOR THESE PRODUCTS. HAZARDOUS MATERIAL SPILLS THAT OCCUR AS A RESULT OF EITHER EQUIPMENT FAILURES OR VANDALISM, INCLUDING ALL ADJACENT CONTAMINATED SOILS, SHALL BE REMOVED AND TRANSPORTED TO AN ENVIRONMENTALLY APPROVED DISPOSAL SITE. ALL REMOVAL, TRANSPORTATION AND DISPOSAL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR HIS SUBCONTRACTORS.
22. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED, EXCEPT AT LOCATION(S) APPROVED BY THE CITY TRAFFIC ENGINEER.
23. MUD AND CONSTRUCTION DEBRIS ON STREETS, SIDEWALKS OR BICYCLE PATHS SHALL BE CLEANED OFF IMMEDIATELY.
24. HIGH VOLTAGE OVERHEAD AND UNDERGROUND ELECTRICAL UTILITIES ARE PRESENT AT SOME PROJECT LOCATIONS. CONTRACTOR SHALL USE EXTREME CAUTION AND FOLLOW ALL PG&E AND OSHA REQUIREMENTS WHEN WORKING WITHIN THE VICINITY OF OVERHEAD AND UNDERGROUND POWER LINES.
25. ALL EXISTING IMPROVEMENTS NOT SHOWN AS DEMOLISHED ON THE PLANS THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.

TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (T.C.P.) TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL A MINIMUM OF 5 DAYS PRIOR TO ANY WORK WITHIN AN EXISTING PUBLIC STREET, PEDESTRIAN PATH OR BICYCLE PATH. THE PLAN SHALL BE SIGNED BY A LICENSED CIVIL OR TRAFFIC ENGINEER WHEN IT INVOLVES AN ARTERIAL STREET. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" WHILE WORKING WITHIN THE PUBLIC RIGHT-OF-WAY. TWO TRAFFIC LANES (10' MIN) SHALL BE OPEN TO VEHICULAR TRAFFIC DURING ALL HOURS, WEEKENDS, AND HOLIDAYS. STREET AND/OR BICYCLE PATH CLOSURES AND DETOURS SHALL ONLY TAKE PLACE UPON CITY APPROVAL.
2. THE TRAFFIC CONTROL MEASURES PROVIDED IN THIS PLAN SET ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL SUBMIT A COMPLETE T.C.P. IN ACCORDANCE WITH NOTE 1.
3. THE TRAFFIC CONTROL REQUIREMENTS SHOWN ON THESE PLANS ARE MINIMUM REQUIREMENTS ONLY AND DO NOT ATTEMPT TO ADDRESS IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED. IN NO WAY DO THE REQUIREMENTS SHOWN ON THESE PLANS RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR SELECTING THE PROPER TRAFFIC CONTROL DEVICES AND IMPLEMENTATION PROCEDURES THAT WILL ASSURE THE SAFETY OF MOTORISTS, PEDESTRIANS, BICYCLISTS, AND WORKERS AT ALL TIMES.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH PART 6 AND PART 9 OF THE LATEST EDITION OF THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
5. ALL CONES USED FOR LANE CLOSURE AFTER NIGHTFALL SHALL BE FITTED WITH RETROREFLECTIVE BANDS (OR SLEEVES).
6. ALL ADVANCED WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. FLASHING BEACONS SHALL BE PLACED AT THE LOCATIONS INDICATED FOR NIGHTTIME CLOSURES.
7. ANY PERMANENT SIGN OR EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE T.C.P. SHALL BE COVERED, OBLITERATED OR REMOVED AS DIRECTED BY THE ENGINEER, AND RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF THE WORK.
8. DURING ALL CONSTRUCTION PERIODS, THE CONTRACTOR SHALL HAVE AT THE JOBSITE ALL NECESSARY TRAFFIC CONTROL DEVICES (APPROPRIATE SIGN, LIGHTED ARROW DISPLAY, CHANNELIZING DEVICES, ETC.) NEEDED TO IMPLEMENT THE APPROVED T.C.P.
9. CONSTRUCTION SHALL BE SEQUENCED TO PROVIDE THE LEAST POSSIBLE ADVERSE EFFECT TO RESIDENCES AND BUSINESS.
10. CONSTRUCTION MATERIALS SHALL BE KEPT OFF SIDEWALKS AND CONSOLIDATED IN AREAS WITHIN THE CITY RIGHT-OF-WAY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
11. CONTRACTOR SHALL COORDINATE DETOUR ROUTES WITH THE ENGINEER.

SCALE VERIFICATION

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0 1"

ABBREVIATIONS

AB	AGGREGATE BASE
APN	ASSESSORS PARCEL NUMBER
APPROX	APPROXIMATE
AC	ASPHALTIC CONCRETE
ASPH	ASPHALT
BCDC	BAY CONSERVATION & DEVELOPEMENT COMMISSION
BOF	BOTTOM OF FOOTING
CL	CENTERLINE
CLR	CLEAR
CONC	CONCRETE
CONST	CONSTRUCTION
CMTS	CORROSION MONITORING TEST STATION
CVR	COVER
DG	DECOMPOSED GRANITE
DET	DETAIL
DIA	DIAMETER
DIPS	DUCTILE IRON PIPE SIZE
E	EASTING
ELEV, EL	ELEVATION
ESA	ENVIRONMENTALLY SENSITIVE AREA
EQ	EQUAL
EMID	ESTERO MUNICIPAL IMPROVEMENT DISTRICT
EXIST, (E)	EXISTING
EG	EXISTING GRADE
FG	FINISHED GRADE
FW	FLOODWALL
HDPE	HIGH DENSITY POLYURETHANE
HVE	HIGH VOLTAGE ELECTRIC
INV	INVERT
L	LENGTH
LF	LINEAR FOOT
LOL	LAYOUT LINE
LT	LEFT
MAX	MAXIMUM
MHHW	MEAN HIGHER HIGH WATER
MIN	MINIMUM
(N)	NEW
N	NORTHING
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PED	PEDESTRIAN
(P)	PROPOSED
PG&E	PACIFIC GAS & ELECTRIC
PL	PLATE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
REQTS	REQUIREMENTS
RT	RIGHT
RSP	ROCK SLOPE PROTECTION
RW	RETAINING WALL
S	SOUTH
SD	STORM DRAIN
SIM	SIMILAR
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
SDR	STANDARD DIMENSION RATIO
TEMP	TEMPORARY
TOD	TOP OF (BRIDGE) DECK
TS	TRAFFIC SIGNAL
T.O.W.	TOP OF WALL
TYP	TYPICAL
W/	WITH

LEGEND

EXISTING	DESCRIPTION	PROPOSED
x 9.0	SPOT ELEVATION	x 9.0
	1-FOOT CONTOUR	
10	INDEX CONTOUR	10
	SURVEY BENCHMARK	
	CONCRETE OR CONCRETE MASONRY FLOODWALL	
	LIMIT OF AC PAVING	
	PROJECT STATION LINE	
	PROPERTY LINE, RIGHT-OF-WAY	
X X	FENCE	X X
	ESA AND SILT FENCE	/ / /
SS	SANITARY SEWER LINE	
SD	STORM DRAIN LINE	SD
E	UNDERGROUND ELECTRICAL UTILITY	
OHE	OVERHEAD ELECTRICAL UTILITY	
FM	FORCE MAIN	
G	GAS LINE	
T	AT&T COMMUNICATIONS CONDUIT	
W	WATER LINE	
COM	COMCAST COMMUNICATIONS TRENCH	
FO	COMCAST FIBER OPTIC CABLE	
BCDC	LIMIT OF BCDC SHORELINE BAND	
	LIMIT OF WETLAND/WATERS OF THE STATE	
	LIMIT OF NMFS ESSENTIAL FISH HABITAT	
	LIMIT OF BCDC BAY JURISDICTION	
	LIGHT POLE	
	TREE	
	TREE TO BE REMOVED	
	HIGH VOLTAGE POWER LINE TOWER	
EB-1	EXPLORATORY BORING - SEE GEOTECH REPORT	
	PORTABLE SIGN (SHOWN FACING LEFT)	
	BARRICADE	
CMTS	CORROSION MONITORING TEST STATION	
	DIRECTION OF TEMPORARY BICYCLE DETOUR	
	DIRECTION OF TEMPORARY PEDESTRIAN DETOUR	
	DETAIL OR SECTION DESIGNATION / SHEET NO. WHERE DETAIL OR SECTION IS DRAWN (A / 1)	
	GRADING LIMIT	
	LIMIT OF CONTRACTOR ACCESS	
	DECOMPOSED GRANITE	
	LIGHTWEIGHT FILL	

NOTES:
CITY OF FOSTER CITY WILL PROVIDE PROJECT MONUMENTATION AND BENCHMARKS AT EACH OF THE LEVEE IMPROVEMENT PROJECT SITES.

COORDINATES
CALIFORNIA STATE PLANE, ZONE 3

BENCHMARKS
ALL ELEVATIONS ARE GIVEN ON NAVD 88 (2011).

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADavi\Desktop\Conform Plans CDA\G Sheets\SHEET 04 NOTES & LEGEND_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
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610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

NOTES, ABBREVIATIONS, AND LEGEND

SHEET
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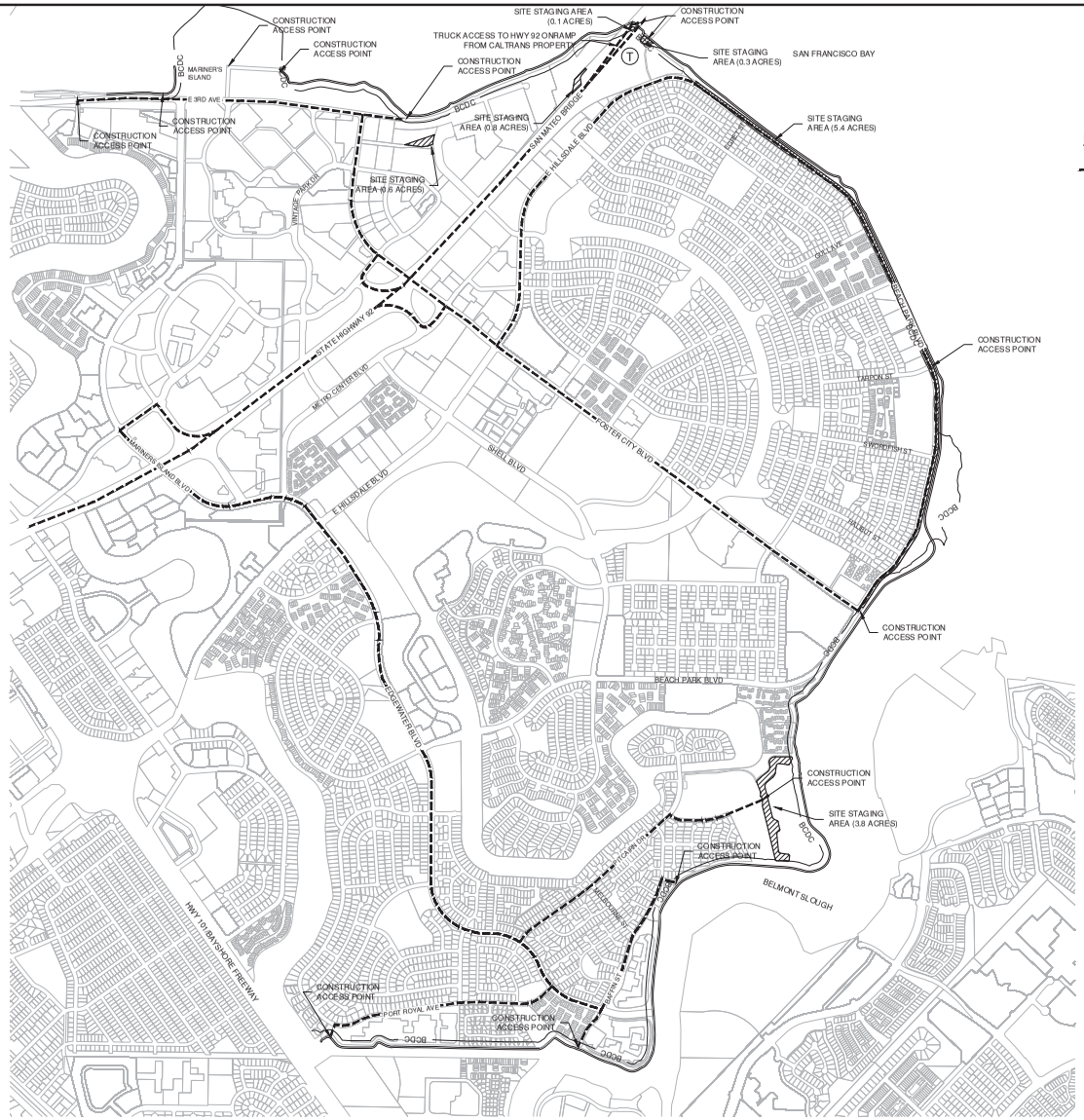
SHEET 004 OF 384

CIP PROJ. NUMBER
CIP 301-657



BAY TRAIL HAUL ROUTES

NO SCALE

LEGEND:

- CONSTRUCTION HAUL ROUTE
- SITE STAGING AREA
- (T) PRE-APPROVED FIELD OFFICE LOCATION

NOTES

THIS EXHIBIT SHOWS PRE-APPROVED CITY OF FOSTER CITY HAUL ROUTES THAT PROVIDE CONSTRUCTION ACCESS TO THE LEVEE. CURRENTLY AVAILABLE CONSTRUCTION ACCESS POINTS ARE LOCATED IN THE FOLLOWING LOCATIONS:

- THE BORDER OF THE CITY OF SAN MATEO AND CITY OF FOSTER CITY
- THE CORNER OF EAST 3RD AVENUE AND MARINERS ISLAND BOULEVARD
- THE PARKING LOT FOR BAYWINDS PARK, WHICH CAN BE ACCESSED FROM LAKESIDE DRIVE.
- JUST EAST OF THE INTERSECTION OF EAST 3RD AVENUE AND FOSTER CITY BOULEVARD.
- NEXT TO THE SAN MATEO BRIDGE AT THE CALTRANS ACCESS RAMP TO WESTBOUND HIGHWAY 92 (SUBJECT TO APPROVAL BY CALTRANS AND THE CONDITIONS OF THEIR ENCROACHMENT PERMIT)
- BRIDGEVIEW PARK ON BEACH PARK BOULEVARD
- THE CORNER OF FOSTER CITY BOULEVARD AND BEACH PARK BOULEVARD
- THE END OF PORT ROYAL PARK
- THE END OF GATESHEAD COURT
- THE END OF BAFFIN STREET
- THE PARKING LOT ON THE CORNER OF PORT ROYAL AVE AND ROCK HARBOR LANE.

ALSO SHOWN ON THIS MAP ARE PRE-APPROVED CONSTRUCTION STAGING AREAS IN THE LISTED LOCATIONS. STAGING AREA BOUNDARIES ARE SUBJECT TO VERIFICATION BY THE ENGINEER.

- AT THE CITY OF FOSTER CITY MAINTENANCE YARD ON THE CORNER OF EAST 3RD AVENUE AND LINCOLN CENTRE DRIVE
- ON THE CALTRANS HIGHWAY 92 ACCESS RAMP TO WESTBOUND HIGHWAY 92 (SUBJECT TO APPROVAL BY CALTRANS AND THE CONDITIONS OF THEIR ENCROACHMENT PERMIT)
- NORTH OF BRIDGEVIEW PARK NEXT TO WERDER PIER
- ALONG HALF OF THE EXISTING RIGHT-OF-WAY OF BEACH PARK BOULEVARD FROM BRIDGEVIEW PARK TO FOSTER CITY BOULEVARD
- IMMEDIATELY EAST OF PORT ROYAL PARK

CONTRACTOR MAY PROPOSE ADDITIONAL SITE ACCESS OR HAUL ROUTES, SUBJECT TO APPROVAL BY THE ENGINEER. PROVIDE PROOF OF PERMISSION FOR ACCESS ACROSS PRIVATE PROPERTIES.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

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SURVEYED BY: WILSEY-HAM

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE ACCESS AND HAUL ROUTES

SHEET
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CIP PROJ. NUMBER
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PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CDA\3 Sheets\SHEET 05 HAUL ROUTES_Conform.dwg

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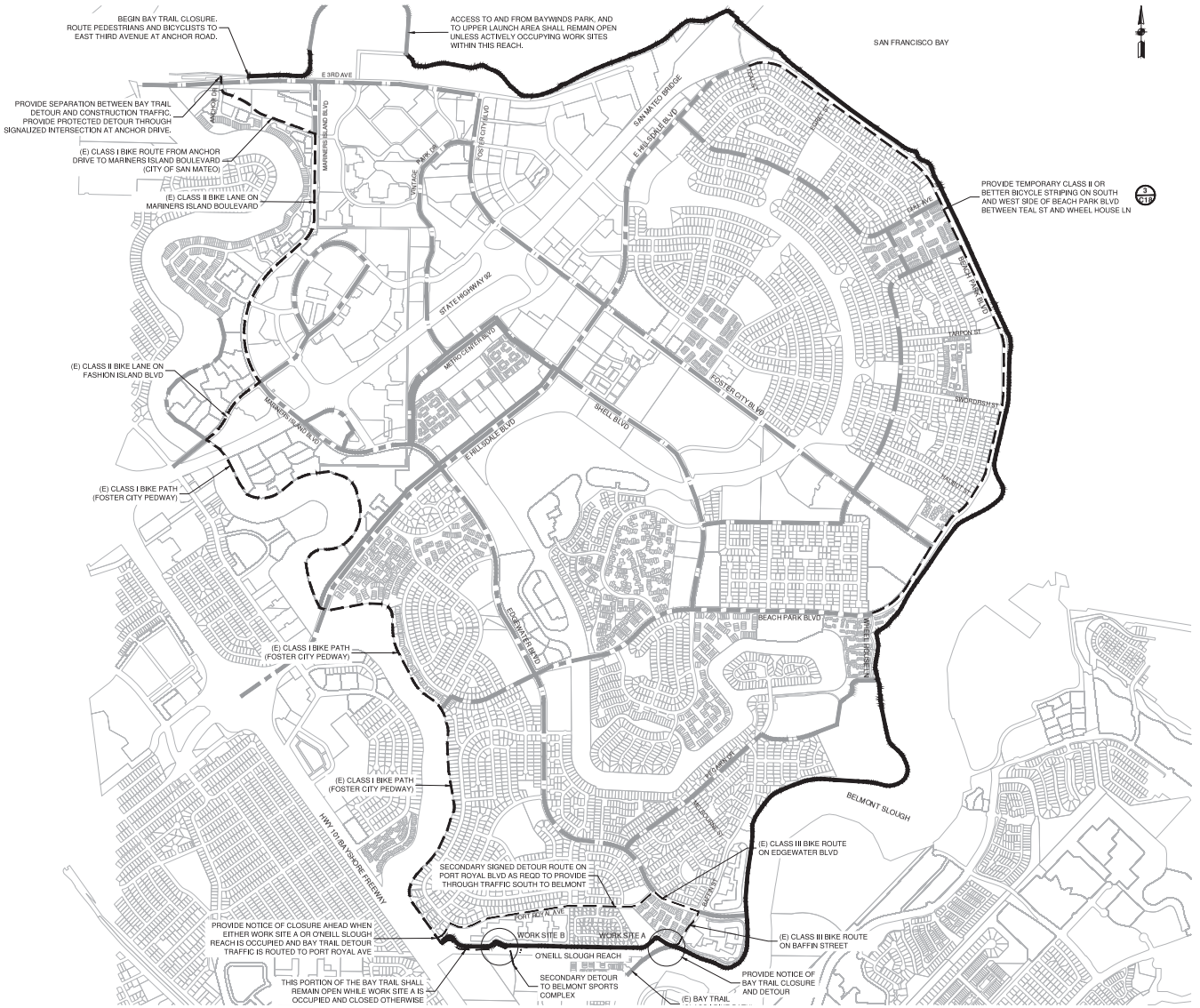

BAY TRAIL DETOUR ROUTES

NO SCALE

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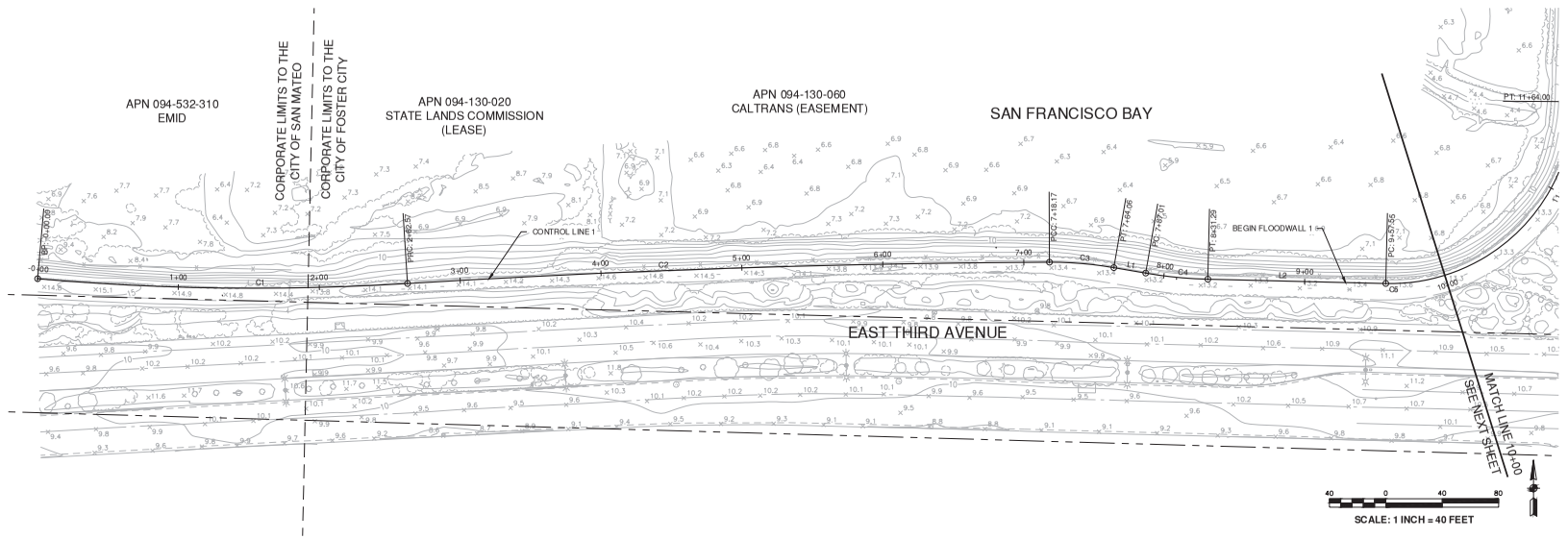
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

BAY TRAIL DETOUR PLAN

SHEET
G 06
SHEET 006 OF 384

CIP PROJ. NUMBER
CIP 301-657



NOTES:

1. SEE SHEET PILE INSTALLATION AND GRADING PLANS (SPG) FOR PLAN AND PROFILE INFORMATION. SEE DEMOLITION PLAN AND UTILITY SHEETS (DU) FOR DEMOLITION INFORMATION. SEE WALL SHEETS (W) FOR FLOODWALL AND RETAINING WALL LAYOUT AND DETAILS. SEE CROSS SECTION SHEETS (CX) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS) FOR PAVING AND STRIPING DETAILS.
2. COORDINATES ARE CALIFORNIA STATE PLANE, ZONE 3.
3. ALL ELEVATIONS ARE GIVEN ON NAVD 88 (2011).

SURVEY CONTROL NOTES:

1. GPS CONTROL WAS ESTABLISHED USING RTK GPS SURVEYING TECHNIQUES. TWO INDEPENDENT OBSERVATIONS WERE MADE AT EACH CONTROL POINT.
2. THE PRIMARY CONTROL POINT IS NGS CONTROL POINT "GUANO ISLAND RESET" (PID = HT0580).
3. HORIZONTAL DATUM IS NAD83 (EPOCH 2011), CALIFORNIA ZONE 3. TON CONVERT GRID DISTANCES TO GROUND DISTANCES, MULTIPLY THE GRID DISTANCE BY 1.00006143.
4. THE AERIAL TOPOGRAPHIC SURVEY WAS PROVIDED BY AMERICAN AERIAL MAPPING, INC. AND WAS FLOWN ON FEBRUARY 2, 2016 AND MAY 17, 2016.
5. BOUNDARIES SHOWN ARE COMPILED FROM RECORD INFORMATION AND ARE APPROXIMATE.
6. VERTICAL DATUM IS NAVD88.
7. LINEAR UNITS ARE US SURVEY FEET.

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L1	22.94	S80° 09' 26.01"E	N2035256.55, E6044111.46	N2035252.63, E6044134.07
L2	126.27	S88° 36' 49.67"E	N2035248.30, E6044178.09	N2035245.24, E6044304.32

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C1	1760.00	262.57	8°32'51.62"	N2035248.65, E6043348.20	N2035245.26, E6043610.50
C2	8000.00	455.61	3°15'47.00"	N2035245.26, E6043610.50	N2035260.37, E6044065.79
C3	260.00	45.89	10°06'45.85"	N2035260.37, E6044065.79	N2035256.55, E6044111.46
C4	300.00	44.28	8°27'23.66"	N2035252.63, E6044134.07	N2035248.30, E6044178.09
C5	130.00	206.44	90°59'13.07"	N2035245.24, E6044304.32	N2035374.30, E6044437.47

SCALE VERIFICATION

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
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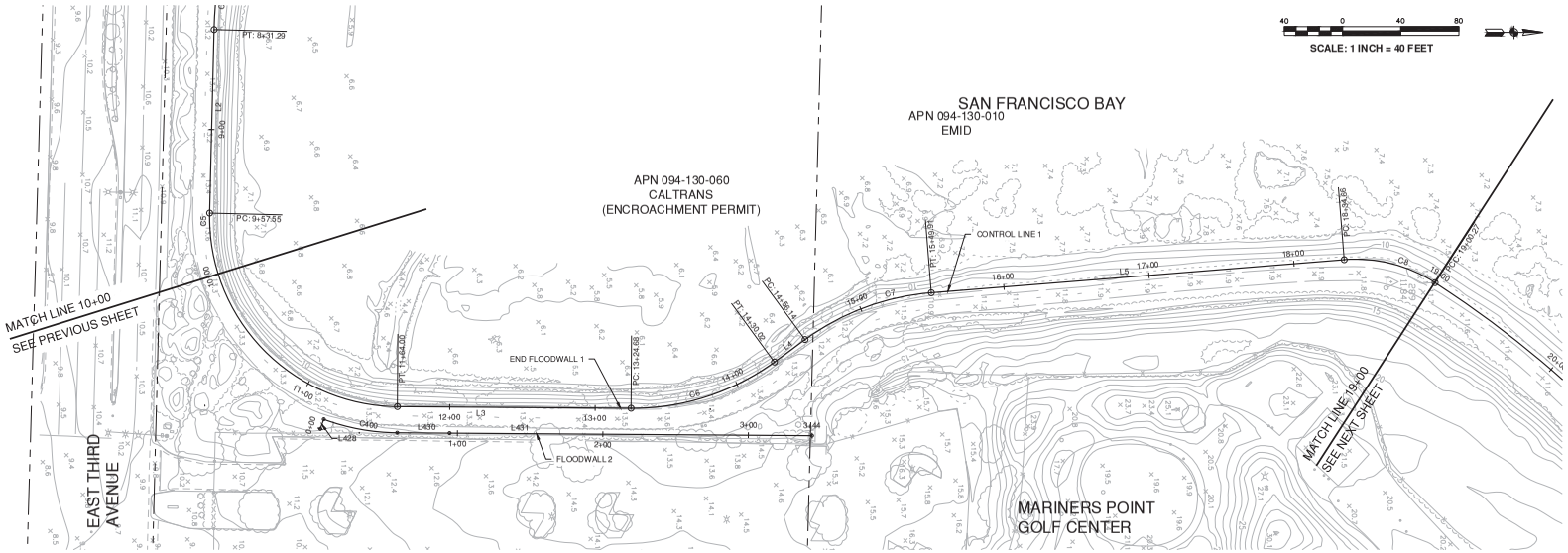
CIP PROJ. NUMBER
CIP 301-657



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3. ALL ELEVATIONS ARE GIVEN ON NAVD 88 (2011).

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L3	160.68	N0° 23' 57.26"E	N2035374.30, E6044437.47	N2035534.98, E6044438.59
L4	26.12	N36° 10' 50.38"W	N2035633.53, E6044406.77	N2035654.62, E6044391.35
L5	284.75	N4° 34' 38.54"W	N2035741.41, E6044359.11	N2036025.25, E6044336.38

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C6	165.00	105.34	36°34'47.64"	N2035534.98, E6044438.59	N2035633.53, E6044406.77
C7	170.00	93.77	31°36'11.84"	N2035654.62, E6044391.35	N2035741.41, E6044359.11
C8	100.00	65.61	37°35'38.18"	N2036025.25, E6044336.38	N2036087.72, E6044352.21

CURVE TABLE: FLOODWALL 2

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C400	148.00	51.55	19°57'22.24"	N2035323.73, E6044446.23	N2035374.17, E6044455.47

LINE TABLE: FLOODWALL 2

LINE #	LENGTH	BEARING	START POINT	END POINT
L428	7.00	N69° 38' 40.50"W	N2035321.29, E6044452.79	N2035323.73, E6044446.23
L430	36.00	N0° 23' 57.26"E	N2035374.17, E6044455.47	N2035410.18, E6044455.72
L431	249.23	N0° 23' 57.26"E	N2035410.18, E6044455.72	N2035659.40, E6044457.45

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SANTA CLARA, CA 95050
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CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 02
SHEET 008 OF 384
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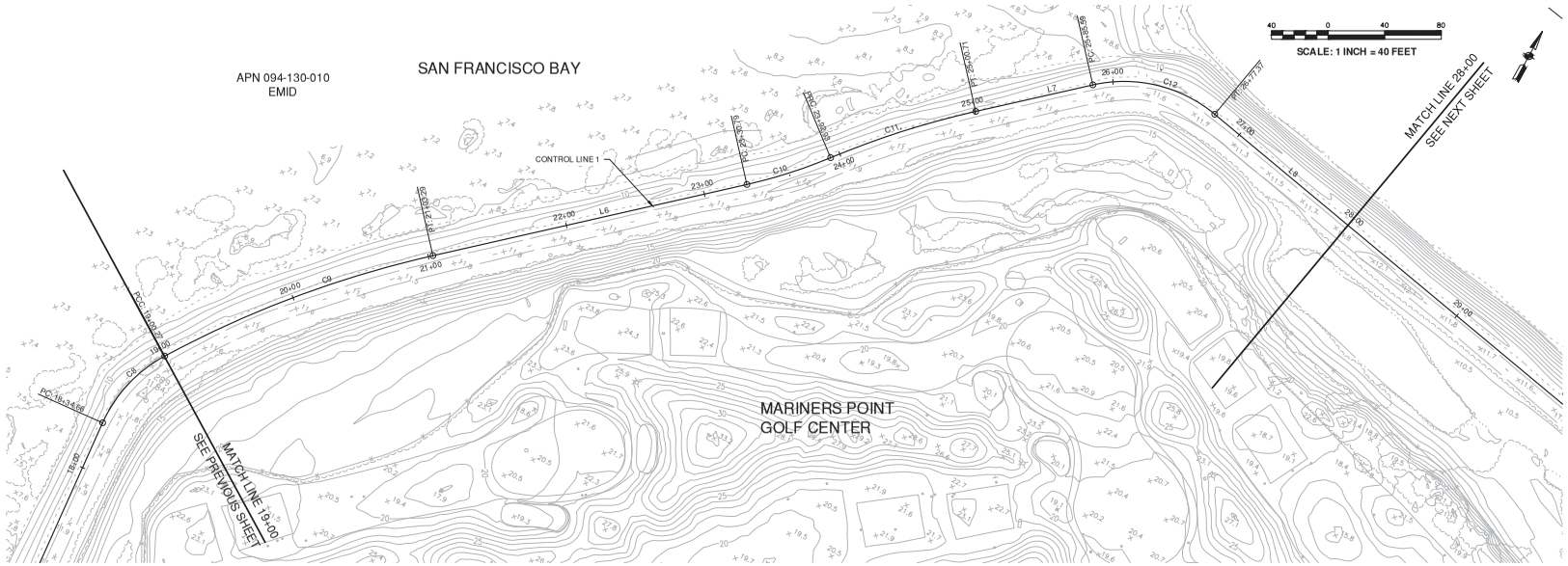
CIP 301-657



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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L6	227.49	N48° 31' 34.11"E	N2036241.00, E6044484.39	N2036391.66, E6044654.84
L7	84.88	N48° 32' 52.27"E	N2036514.59, E6044771.85	N2036570.78, E6044835.47
L8	369.01	S78° 52' 10.42"E	N2036593.95, E6044920.98	N2036522.71, E6045283.05

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C9	750.00	203.02	15°30'34.48"	N2036087.72, E6044352.21	N2036241.00, E6044484.39
C10	360.00	62.14	9°53'25.98"	N2036391.66, E6044654.84	N2036436.62, E6044697.63
C11	623.00	107.78	9°54'44.14"	N2036436.62, E6044697.63	N2036514.59, E6044771.85
C12	100.00	91.77	52°34'57.31"	N2036570.78, E6044835.47	N2036593.95, E6044920.98

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FOSTER CITY LEVEE IMPROVEMENTS
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SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 03
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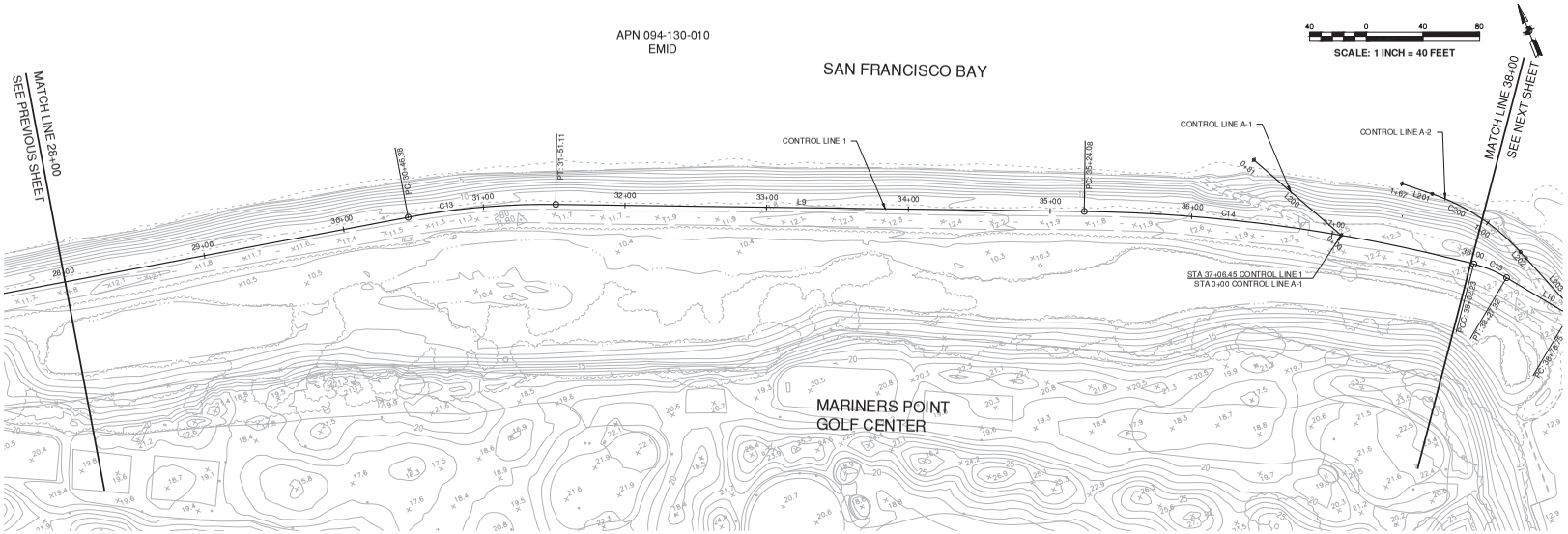

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L9	372.97	S67° 26' 23.44"E	N2036492.41, E6045383.12	N2036349.32, E6045727.55

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C13	525.00	104.73	11°25'46.99"	N2036522.71, E6045283.05	N2036492.41, E6045383.12
C14	1150.00	278.15	13°51'29.09"	N2036349.32, E6045727.55	N2036212.73, E6045969.07

LINE TABLE: CONTROL LINE A-1

LINE #	LENGTH	BEARING	START POINT	END POINT
L200	81.48	N27° 25' 36.62"W	N2036266.32, E6045889.72	N2036338.64, E6045852.19

LINE TABLE: CONTROL LINE A-2

LINE #	LENGTH	BEARING	START POINT	END POINT
L201	22.49	N49° 15' 50.28"W	N2036269.59, E6045960.10	N2036284.26, E6045943.06

CURVE TABLE: CONTROL LINE A-2

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C200	150.02	75.46	28°49'06.40"	N2036208.32, E6046002.77	N2036269.59, E6045960.10

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SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 04
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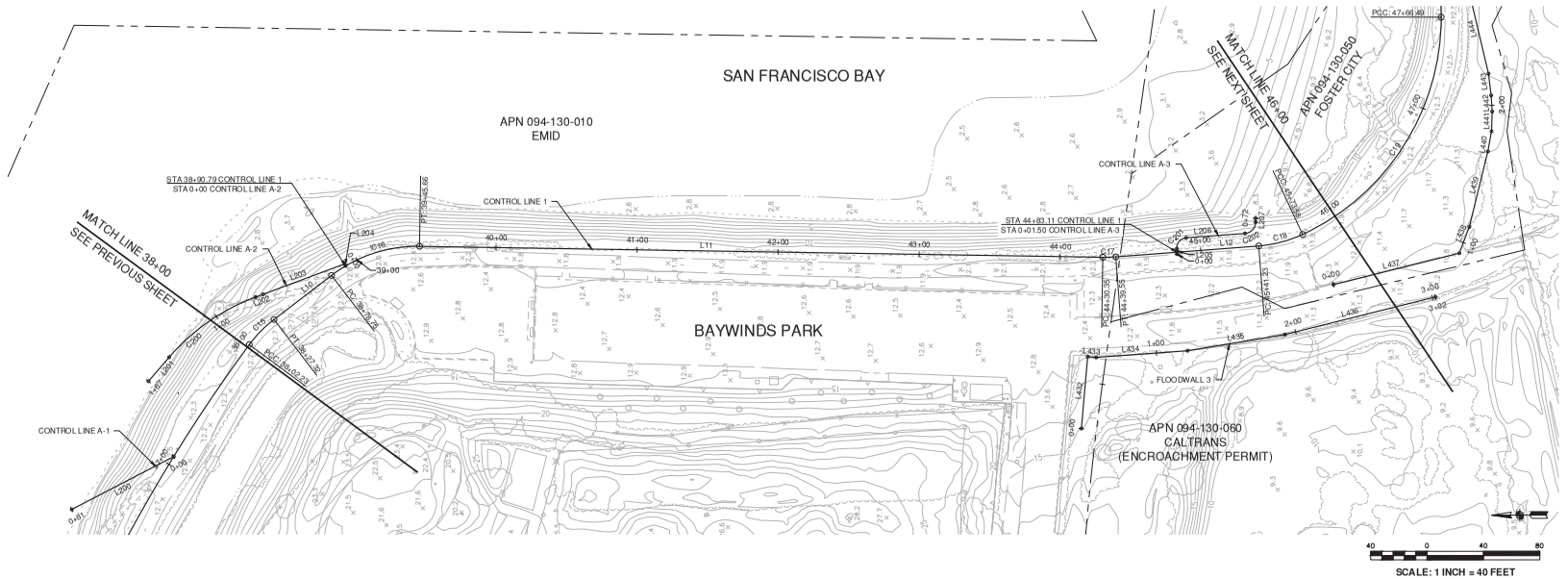

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L10	51.43	S37° 25' 43.28"E	N2036195.21, E6045986.91	N2036154.37, E6046018.17
L11	484.69	S0° 54' 42.56"W	N2036092.00, E6046038.74	N2035607.37, E6046031.03
L12	101.68	S4° 21' 33.15"E	N2035598.18, E6046031.31	N2035496.79, E6046039.04

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C15	89.00	25.09	16°09'11.07"	N2036212.73, E6045969.07	N2036195.21, E6045986.91
C16	100.00	66.92	38°20'25.84"	N2036154.37, E6046018.17	N2036092.00, E6046038.74
C17	100.00	9.20	5°16'15.71"	N2035607.37, E6046031.03	N2035598.18, E6046031.31
C18	90.00	32.34	20°35'28.43"	N2035496.79, E6046039.04	N2035465.67, E6046047.17

LINE TABLE: CONTROL LINE A-2

LINE #	LENGTH	BEARING	START POINT	END POINT
L202	5.74	N20° 26' 43.89"W	N2036202.94, E6046004.78	N2036208.32, E6046002.77
L203	61.60	N20° 26' 43.89"W	N2036145.22, E6046026.30	N2036202.94, E6046004.78
L204	1.63	N59° 28' 40.93"E	N2036144.39, E6046024.89	N2036145.22, E6046026.30

LINE TABLE: CONTROL LINE A-3

LINE #	LENGTH	BEARING	START POINT	END POINT
L205	3.98	N85° 38' 26.85"E	N2035554.63, E6046033.12	N2035554.94, E6046037.09
L206	41.85	S4° 12' 00.45"E	N2035548.31, E6046044.80	N2035506.57, E6046047.86
L207	2.75	S89° 54' 15.86"E	N2035499.04, E6046055.96	N2035499.04, E6046058.71

CURVE TABLE: CONTROL LINE A-3

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C201	7.18	11.30	90°09'32.70"	N2035554.94, E6046037.09	N2035548.31, E6046044.80
C202	8.12	12.16	85°48'29.74"	N2035506.57, E6046047.86	N2035499.04, E6046055.96

LINE TABLE: FLOODWALL 3

LINE #	LENGTH	BEARING	START POINT	END POINT
L432	51.13	S85° 01' 13.10"E	N2035622.59, E6045909.59	N2035618.15, E6045960.53
L433	6.00	S4° 45' 30.57"W	N2035618.15, E6045960.53	N2035612.17, E6045960.03
L434	65.00	S4° 09' 33.72"E	N2035612.17, E6045960.03	N2035547.34, E6045964.74
L435	70.00	S9° 25' 41.72"E	N2035547.34, E6045964.74	N2035478.29, E6045976.21
L436	110.00	S14° 00' 57.69"E	N2035478.29, E6045976.21	N2035371.56, E6046002.85

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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PHONE (650) 286-3270 FAX (650) 345-4626

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CONSULTING CIVIL ENGINEERS
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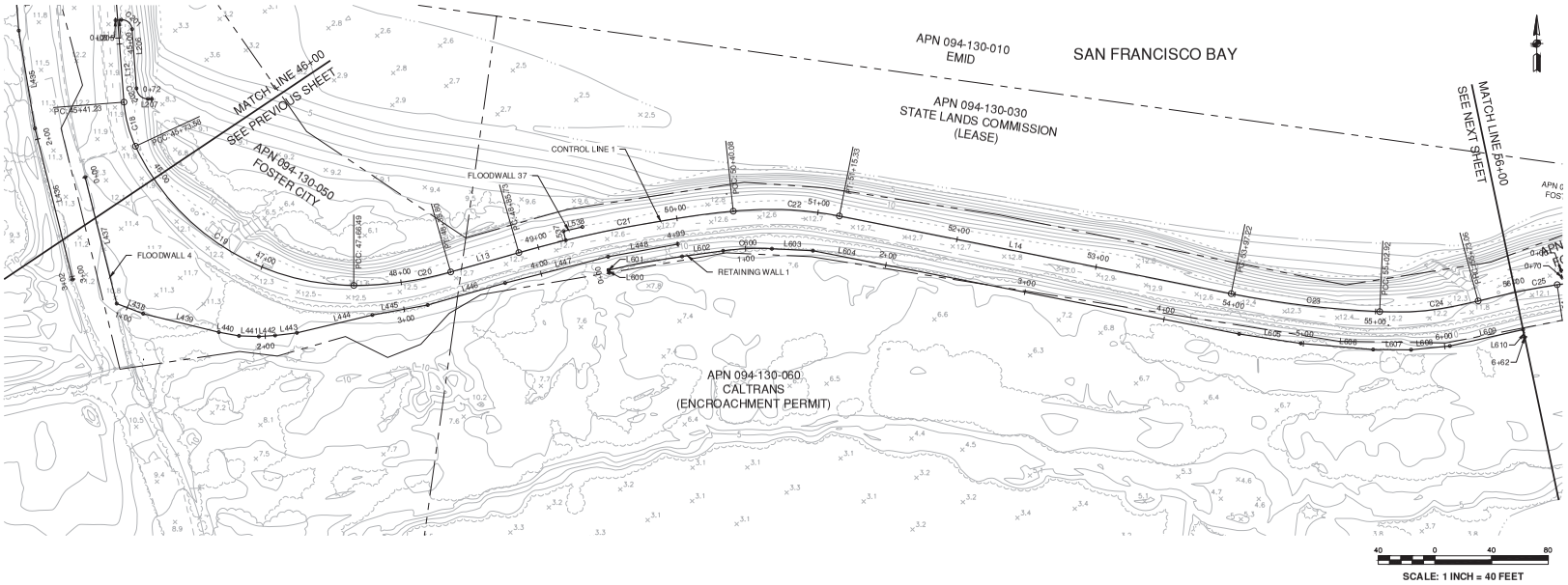
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 05
SHEET 011 OF 384
CIP PROJ. NUMBER
CIP 301-657



NOTES:

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2. COORDINATES ARE CALIFORNIA STATE PLANE, ZONE 3.
3. ALL ELEVATIONS ARE GIVEN ON NAVD 88 (2011).

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L13	49.93	N74° 08' 46.09"E	N2035376.89, E6046269.65	N2035390.53, E6046317.68
L14	281.89	S78° 46' 52.34"E	N2035416.39, E6046543.93	N2035361.55, E6046820.43

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C19	170.00	192.92	65°01'09.23"	N2035465.67, E6046047.17	N2035367.38, E6046201.22
C20	250.00	69.31	15°53'03.11"	N2035367.38, E6046201.22	N2035376.89, E6046269.65
C21	900.00	154.35	9°49'34.29"	N2035390.53, E6046317.68	N2035419.79, E6046469.04
C22	250.00	75.25	17°14'47.29"	N2035419.79, E6046469.04	N2035416.39, E6046543.93
C23	700.00	105.70	8°39'06.44"	N2035361.55, E6046820.43	N2035348.87, E6046925.27
C24	230.00	70.13	17°28'16.95"	N2035348.87, E6046925.27	N2035356.38, E6046994.73

LINE TABLE: RETAINING WALL 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L600	2.00	N14° 15' 21.68"W	N2035376.20, E6046381.50	N2035378.13, E6046381.01
L601	0.01	N76° 46' 32.74"E	N2035378.13, E6046381.01	N2035378.14, E6046381.02
L602	29.31	N82° 08' 41.49"E	N2035387.79, E6046432.89	N2035391.79, E6046461.93
L603	28.95	S87° 10' 54.06"E	N2035393.31, E6046496.33	N2035391.88, E6046525.24
L604	306.51	S78° 56' 22.25"E	N2035391.88, E6046525.24	N2035333.08, E6046826.06
L605	44.05	S81° 16' 32.01"E	N2035333.08, E6046826.06	N2035326.40, E6046869.60
L606	51.24	S85° 08' 43.18"E	N2035326.40, E6046869.60	N2035322.06, E6046920.66
L607	26.71	S89° 40' 58.03"E	N2035322.06, E6046920.66	N2035321.91, E6046947.37
L608	27.52	N84° 17' 58.47"E	N2035321.91, E6046947.37	N2035324.65, E6046974.75
L609	52.99	N77° 27' 33.43"E	N2035324.65, E6046974.75	N2035336.15, E6047026.47
L610	5.50	S11° 49' 01.60"E	N2035336.15, E6047026.47	N2035330.77, E6047027.60

CURVE TABLE: RETAINING WALL 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C600	185.09	34.48	10°40'24.45"	N2035391.79, E6046461.93	N2035393.31, E6046496.33

LINE TABLE: FLOODWALL 4

LINE #	LENGTH	BEARING	START POINT	END POINT
L437	92.00	S14° 00' 57.69"E	N2035443.83, E6046011.61	N2035354.57, E6046033.89
L438	20.00	S69° 05' 04.50"E	N2035354.57, E6046033.89	N2035347.43, E6046052.57
L439	55.00	S76° 12' 48.35"E	N2035347.43, E6046052.57	N2035334.33, E6046105.99
L440	14.50	S79° 38' 58.18"E	N2035334.33, E6046105.99	N2035331.72, E6046120.25
L441	14.00	S88° 14' 51.96"E	N2035331.72, E6046120.25	N2035331.29, E6046134.24
L442	11.50	N86° 24' 41.77"E	N2035331.29, E6046134.24	N2035332.01, E6046145.72
L443	15.50	N83° 06' 31.12"E	N2035332.01, E6046145.72	N2035333.87, E6046161.11
L444	54.72	N76° 41' 15.35"E	N2035333.87, E6046161.11	N2035346.47, E6046214.36
L445	39.65	N79° 42' 56.73"E	N2035346.47, E6046214.36	N2035353.55, E6046253.37
L446	56.83	N74° 08' 13.74"E	N2035353.55, E6046253.37	N2035369.08, E6046308.04
L447	74.98	N75° 41' 55.38"E	N2035369.08, E6046308.04	N2035387.60, E6046380.69
L448	50.00	N79° 39' 51.83"E	N2035387.60, E6046380.69	N2035396.57, E6046429.88

LINE TABLE: FLOODWALL 37

LINE #	LENGTH	BEARING	START POINT	END POINT
L537	6.52	N13° 48' 30.89"W	N2035399.26, E6046350.81	N2035405.58, E6046349.26
L538	13.66	N76° 51' 22.30"E	N2035405.58, E6046349.26	N2035408.69, E6046362.56

SCALE VERIFICATION

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0 1"

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SHEET
SCL 06
SHEET 012 OF 384

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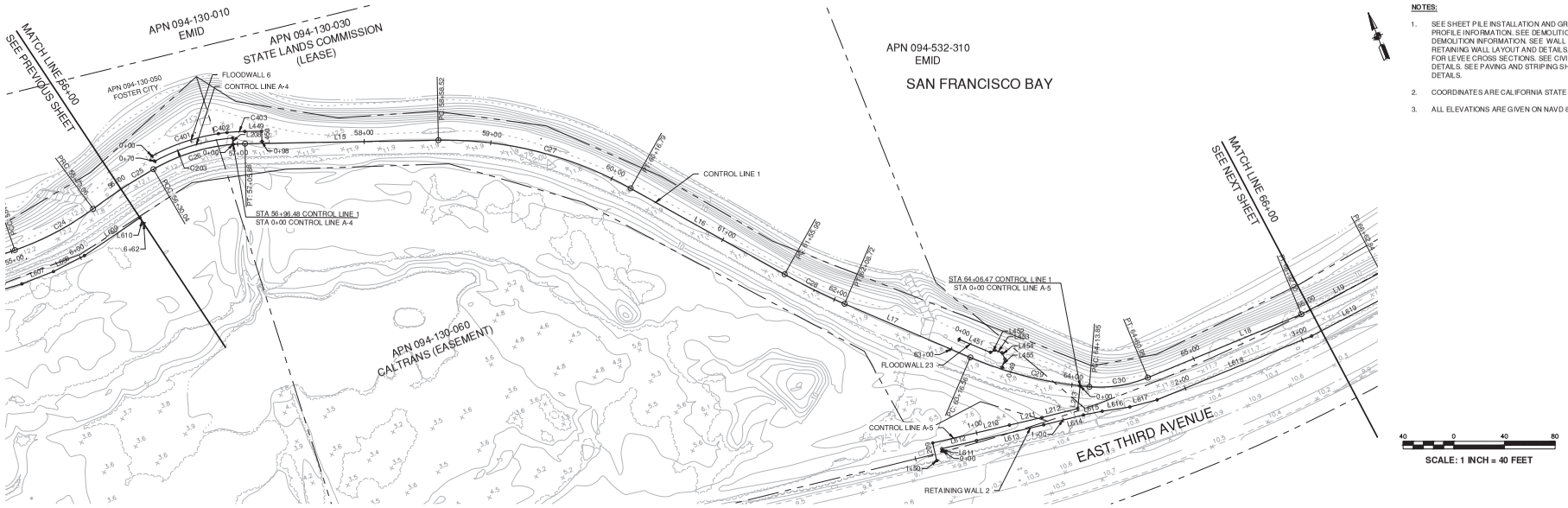

NOTES:

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L15	152.64	S69° 24' 25.66"E	N2035359.89, E6047125.11	N2035306.20, E6047268.00
L16	139.16	S39° 10' 42.61"E	N2035214.89, E6047395.03	N2035107.01, E6047482.95
L17	107.84	S45° 13' 31.23"E	N2035067.94, E6047518.38	N2034991.99, E6047594.93
L18	131.05	N89° 12' 23.08"E	N2034925.50, E6047719.33	N2034927.32, E6047850.36

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C25	500.00	56.98	6°31'46.12"	N2035356.38, E6046994.73	N2035367.87, E6047050.50
C26	150.00	75.84	28°58'03.95"	N2035367.87, E6047050.50	N2035359.89, E6047125.11
C27	300.00	158.28	30°13'43.06"	N2035306.20, E6047268.00	N2035214.89, E6047395.03
C28	500.00	52.77	6°02'48.62"	N2035107.01, E6047482.95	N2035067.94, E6047518.38
C29	300.00	97.29	18°34'52.87"	N2034991.99, E6047594.93	N2034935.76, E6047673.81
C30	100.00	47.10	26°59'12.82"	N2034935.76, E6047673.81	N2034925.50, E6047719.33

LINE TABLE: CONTROL LINE A-4

LINE #	LENGTH	BEARING	START POINT	END POINT
L208	4.99	N17° 00' 13.08"E	N2035362.92, E6047116.22	N2035367.70, E6047117.68

CURVE TABLE: CONTROL LINE A-4

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C203	155.00	64.61	23°53'01.40"	N2035367.70, E6047117.68	N2035373.36, E6047053.78

LINE TABLE: CONTROL LINE A-5

LINE #	LENGTH	BEARING	START POINT	END POINT
L209	14.29	N8° 46' 37.62"E	N2034940.17, E6047542.52	N2034926.04, E6047540.33
L210	62.14	N81° 28' 35.01"W	N2034930.96, E6047603.97	N2034940.17, E6047542.52
L211	26.36	N81° 34' 56.36"W	N2034927.10, E6047630.05	N2034930.96, E6047603.97
L212	29.13	N82° 22' 21.05"W	N2034923.23, E6047658.92	N2034927.10, E6047630.05
L213	17.91	S27° 36' 13.33"W	N2034939.10, E6047667.22	N2034923.23, E6047658.92

LINE TABLE: FLOODWALL 6

LINE #	LENGTH	BEARING	START POINT	END POINT
L449	13.42	S69° 24' 25.66"E	N2035368.94, E6047128.51	N2035364.22, E6047141.07
L450	8.17	S20° 35' 34.34"W	N2035364.22, E6047141.07	N2035356.57, E6047138.20

CURVE TABLE: FLOODWALL 6

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C401	159.67	55.63	19°57'40.01"	N2035377.99, E6047053.23	N2035374.99, E6047108.49
C402	159.67	6.87	2°27'48.72"	N2035374.99, E6047108.49	N2035373.30, E6047115.14
C403	159.67	14.07	5°02'53.93"	N2035373.30, E6047115.14	N2035368.94, E6047128.51

LINE TABLE: FLOODWALL 23

LINE #	LENGTH	BEARING	START POINT	END POINT
L451	26.69	S45° 51' 23.56"E	N2035008.45, E6047592.07	N2034989.86, E6047611.22
L452	3.93	N85° 51' 38.53"E	N2034989.86, E6047611.22	N2034990.15, E6047615.14
L453	6.00	S48° 56' 35.90"E	N2034990.15, E6047615.14	N2034986.21, E6047619.67
L454	5.45	S2° 42' 39.50"E	N2034986.21, E6047619.67	N2034980.76, E6047619.92
L455	7.00	S39° 43' 32.44"W	N2034980.76, E6047619.92	N2034975.38, E6047615.45

LINE TABLE: RETAINING WALL 2

LINE #	LENGTH	BEARING	START POINT	END POINT
L611	1.69	N8° 46' 37.62"E	N2034931.68, E6047547.28	N2034933.35, E6047547.53
L612	28.09	S81° 28' 35.01"E	N2034933.35, E6047547.53	N2034929.19, E6047575.31
L613	54.50	S81° 31' 39.81"E	N2034929.19, E6047575.31	N2034921.16, E6047629.21
L614	32.29	S82° 22' 21.05"E	N2034921.16, E6047629.21	N2034916.87, E6047661.21
L615	15.10	S79° 27' 23.05"E	N2034916.87, E6047661.21	N2034914.11, E6047676.06
L616	22.08	S77° 18' 52.37"E	N2034914.11, E6047676.06	N2034909.26, E6047697.60
L617	22.17	S82° 51' 28.04"E	N2034909.26, E6047697.60	N2034906.51, E6047719.59
L618	131.93	N89° 12' 23.08"E	N2034906.51, E6047719.59	N2034908.33, E6047851.51

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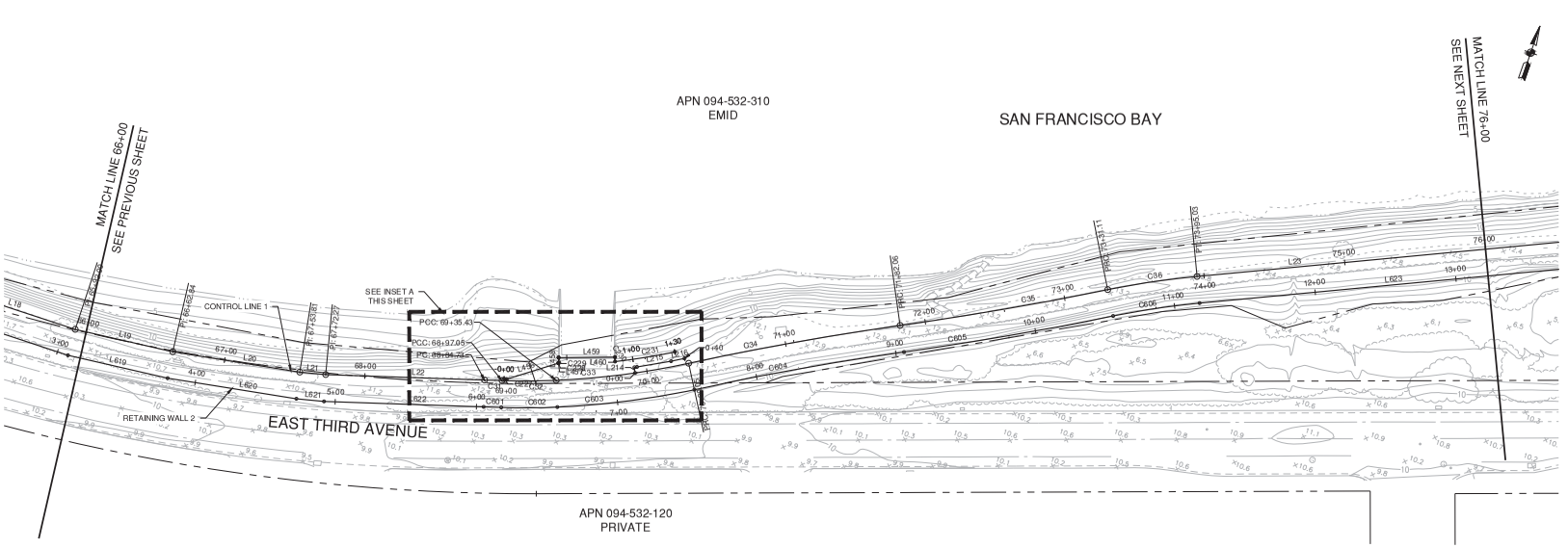

SCALE: 1 INCH = 40 FEET

NOTES:

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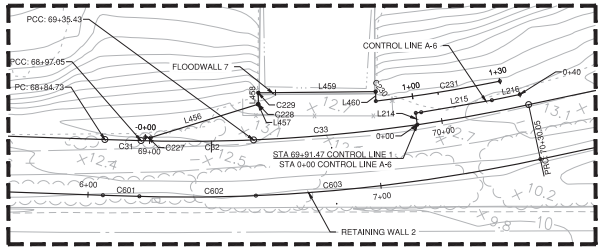

INSET A
SCALE: 1" = 20'

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L19	70.84	N83° 51' 24.61"E	N2034927.32, E6047850.36	N2034934.90, E6047920.80
L20	90.97	N80° 04' 34.88"E	N2034934.90, E6047920.80	N2034950.58, E6048010.41
L21	18.45	N76° 20' 07.49"E	N2034950.58, E6048010.41	N2034954.94, E6048028.34
L22	112.46	N72° 55' 16.26"E	N2034954.94, E6048028.34	N2034987.97, E6048135.84
L23	292.68	N65° 32' 54.87"E	N2035221.92, E6048588.33	N2035343.07, E6048854.76

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C31	2000.00	12.32	0°21'10.88"	N2034987.97, E6048135.84	N2034991.62, E6048147.61
C32	550.00	38.38	3°59'54.79"	N2034991.62, E6048147.61	N2035004.39, E6048183.80
C33	550.00	94.62	9°51'23.79"	N2035004.39, E6048183.80	N2035046.34, E6048268.48
C34	2100.00	152.02	4°08'51.15"	N2035046.34, E6048268.48	N2035120.52, E6048401.13
C35	2500.00	149.04	3°24'57.01"	N2035120.52, E6048401.13	N2035192.42, E6048531.66
C36	600.00	63.92	6°06'13.92"	N2035192.42, E6048531.66	N2035221.92, E6048588.33

LINE TABLE: CONTROL LINE A-6

LINE #	LENGTH	BEARING	START POINT	END POINT
L214	4.05	N26° 12' 08.58"W	N2035027.48, E6048234.83	N2035031.11, E6048233.04
L215	24.43	N61° 14' 50.30"E	N2035031.94, E6048234.73	N2035043.69, E6048256.15
L216	9.74	N59° 20' 19.87"E	N2035043.69, E6048256.15	N2035048.66, E6048264.52

LINE TABLE: RETAINING WALL 2

LINE #	LENGTH	BEARING	START POINT	END POINT
L619	72.36	N83° 51' 24.61"E	N2034908.33, E6047851.51	N2034916.08, E6047923.46
L620	92.22	N80° 04' 34.88"E	N2034916.08, E6047923.46	N2034931.97, E6048014.30
L621	19.64	N76° 20' 07.49"E	N2034931.97, E6048014.30	N2034936.61, E6048033.38
L622	113.03	N72° 55' 16.26"E	N2034936.61, E6048033.38	N2034969.80, E6048141.42
L623	292.68	N65° 32' 54.87"E	N2035204.63, E6048596.19	N2035325.78, E6048862.62

CURVE TABLE: RETAINING WALL 2

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C601	2019.00	12.44	0°21'10.88"	N2034969.80, E6048141.42	N2034973.49, E6048153.30
C602	569.00	39.71	3°59'54.79"	N2034973.49, E6048153.30	N2034986.70, E6048190.74
C603	569.00	97.89	9°51'23.79"	N2034986.70, E6048190.74	N2035030.11, E6048278.34
C604	2081.00	150.64	4°08'51.15"	N2035030.11, E6048278.34	N2035103.61, E6048409.79
C605	2519.00	150.18	3°24'57.01"	N2035103.61, E6048409.79	N2035176.06, E6048541.32
C606	581.00	61.90	6°06'13.92"	N2035176.06, E6048541.32	N2035204.63, E6048596.19

LINE TABLE: FLOODWALL 7

LINE #	LENGTH	BEARING	START POINT	END POINT
L456	38.11	N53° 43' 40.74"E	N2034993.75, E6048150.46	N2035016.29, E6048181.19
L457	0.06	N70° 23' 08.47"E	N2035016.36, E6048181.30	N2035016.38, E6048181.36
L458	3.84	N19° 36' 51.53"W	N2035016.43, E6048181.39	N2035020.05, E6048180.10
L459	39.92	N70° 23' 08.47"E	N2035020.10, E6048180.12	N2035033.50, E6048217.72
L460	3.19	S19° 36' 51.53"E	N2035033.48, E6048217.78	N2035030.48, E6048218.85

CURVE TABLE: FLOODWALL 7

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C227	548.83	1.90	0°11'53.07"	N2034993.17, E6048148.66	N2034993.75, E6048150.46
C228	0.04	0.06	90°00'00.00"	N2035016.38, E6048181.36	N2035016.43, E6048181.39
C229	0.04	0.06	90°00'00.00"	N2035020.05, E6048180.10	N2035020.10, E6048180.12
C230	0.04	0.06	90°00'00.00"	N2035033.50, E6048217.72	N2035033.48, E6048217.78
C231	540.17	42.84	4°32'40.45"	N2035030.48, E6048218.85	N2035050.70, E6048256.60

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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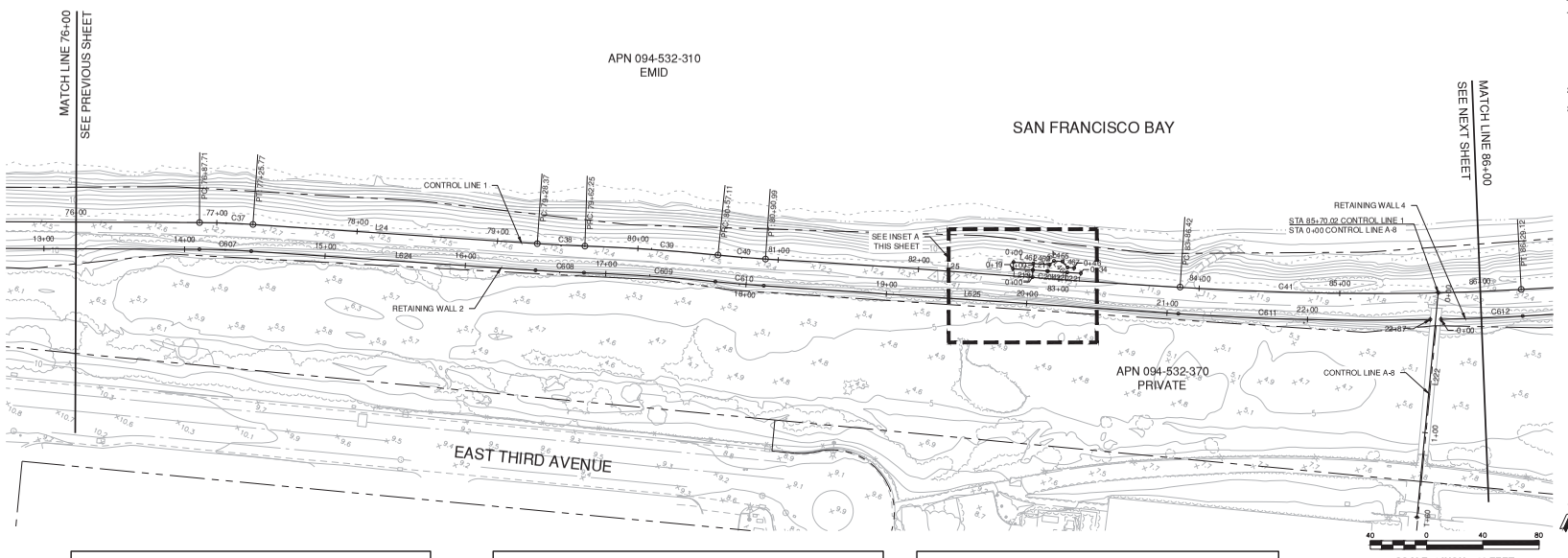
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 08
SHEET 014 OF 384
CIP PROJ. NUMBER
CIP 301-657



SCALE: 1 INCH = 40 FEET

NOTES:

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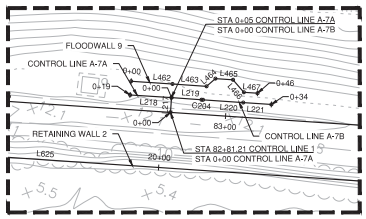

INSET A
SCALE: 1" = 20'

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L24	202.60	N69° 10' 59.18"E	N2035357.72, E6048889.88	N2035429.72, E6049079.25
L25	295.43	N69° 10' 59.18"E	N2035487.50, E6049231.23	N2035592.49, E6049507.37

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C37	600.00	38.06	3°38'04.31"	N2035343.07, E6048854.76	N2035357.72, E6048889.88
C38	1000.00	33.88	1°56'28.11"	N2035429.72, E6049079.25	N2035442.29, E6049110.71
C39	1400.00	94.86	3°52'56.23"	N2035442.29, E6049110.71	N2035476.00, E6049199.36
C40	1000.00	33.88	1°56'28.11"	N2035476.00, E6049199.36	N2035487.50, E6049231.23
C41	2000.00	242.70	6°57'10.15"	N2035592.49, E6049507.37	N2035692.28, E6049728.45

LINE TABLE: CONTROL LINE A-7A

LINE #	LENGTH	BEARING	START POINT	END POINT
L217	5.03	N21° 04' 15.30"W	N2035555.10, E6049409.03	N2035559.79, E6049407.22
L218	14.16	S69° 04' 02.50"W	N2035559.79, E6049407.22	N2035554.73, E6049394.00

LINE TABLE: CONTROL LINE A-8

LINE #	LENGTH	BEARING	START POINT	END POINT
L222	160.48	S19° 17' 34.23"E	N2035665.53, E6049575.75	N2035514.06, E6049728.77

LINE TABLE: RETAINING WALL 2

LINE #	LENGTH	BEARING	START POINT	END POINT
L624	202.60	N69° 10' 59.18"E	N2035339.96, E6048896.63	N2035411.96, E6049086.00
L625	295.43	N69° 10' 59.18"E	N2035469.74, E6049237.98	N2035574.73, E6049514.12

CURVE TABLE: RETAINING WALL 2

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C607	581.00	36.86	3°38'04.31"	N2035325.78, E6048862.62	N2035339.96, E6048896.63
C608	1019.00	34.52	1°56'28.11"	N2035411.96, E6049086.00	N2035424.77, E6049118.06
C609	1381.00	93.57	3°52'56.23"	N2035424.77, E6049118.06	N2035458.02, E6049205.51
C610	1019.00	34.52	1°56'28.11"	N2035458.02, E6049205.51	N2035469.74, E6049237.98
C611	2019.00	179.27	5°05'14.79"	N2035574.73, E6049514.12	N2035645.79, E6049678.65

LINE TABLE: CONTROL LINE A-7B

LINE #	LENGTH	BEARING	START POINT	END POINT
L219	10.21	N69° 20' 21.61"E	N2035559.79, E6049407.22	N2035563.39, E6049416.78
L220	13.74	N69° 10' 59.18"E	N2035563.59, E6049417.29	N2035568.47, E6049430.13
L221	9.65	N69° 10' 59.18"E	N2035568.47, E6049430.13	N2035571.90, E6049439.15

CURVE TABLE: CONTROL LINE A-7B

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C204	200.00	0.55	0°09'22.44"	N2035563.39, E6049416.78	N2035563.59, E6049417.29

LINE TABLE: FLOODWALL 9

LINE #	LENGTH	BEARING	START POINT	END POINT
L462	14.13	N69° 10' 59.18"E	N2035559.11, E6049392.38	N2035564.13, E6049405.59
L463	11.64	N69° 10' 59.18"E	N2035564.13, E6049405.59	N2035568.27, E6049416.47
L464	4.01	N24° 15' 04.47"E	N2035568.27, E6049416.47	N2035571.93, E6049418.12
L465	6.00	N69° 10' 59.18"E	N2035571.93, E6049418.12	N2035574.06, E6049423.73
L466	5.66	S65° 49' 00.82"E	N2035574.06, E6049423.73	N2035571.74, E6049428.89
L467	4.67	N69° 10' 59.18"E	N2035571.74, E6049428.89	N2035573.40, E6049433.25

SCALE VERIFICATION

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PROJECT NUMBER:	FOST.12.16
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SHEET
SCL 09
SHEET 015 OF 384

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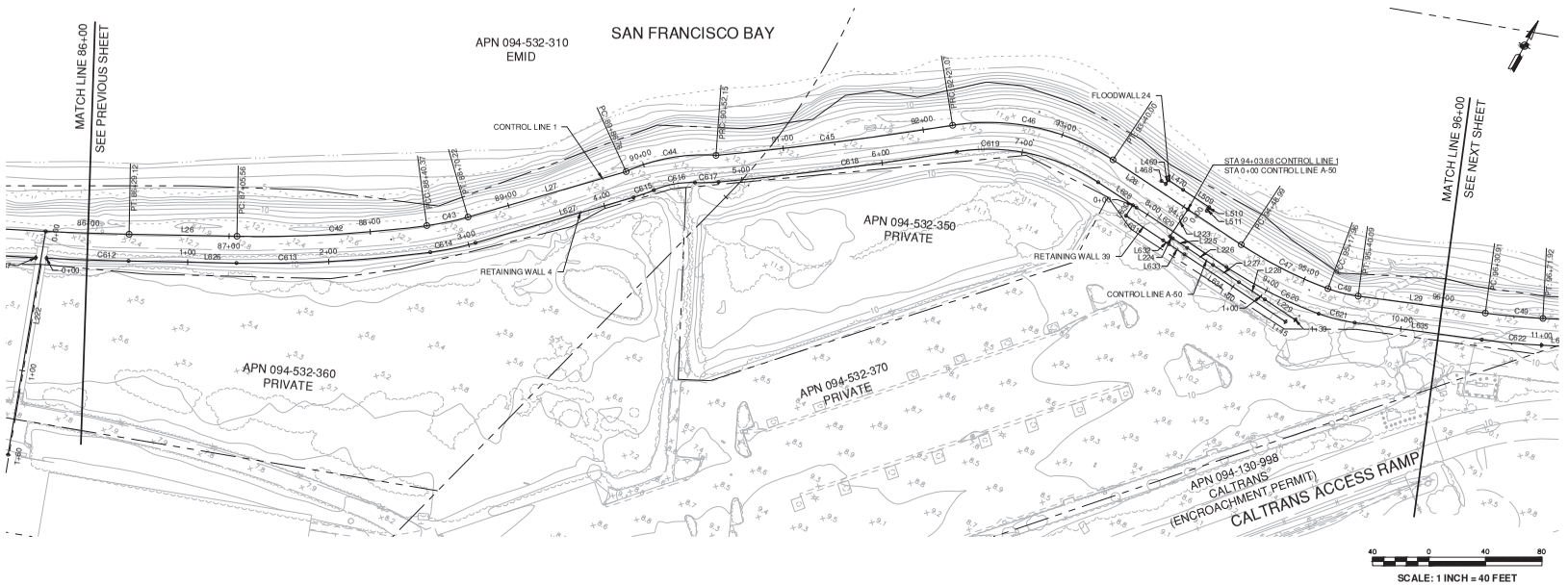

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L26	76.45	N62° 13' 49.03"E	N2035692.28, E6049728.45	N2035727.89, E6049796.09
L27	116.54	N45° 05' 50.69"E	N2035818.80, E6049932.86	N2035901.07, E6050015.41
L28	109.99	S85° 23' 05.39"E	N2036074.75, E6050313.41	N2036065.98, E6050422.04
L29	90.82	N68° 45' 58.92"E	N2036074.02, E6050512.16	N2036106.92, E6050596.82

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C42	900.00	134.81	8°34'56.11"	N2035727.89, E6049796.09	N2035799.39, E6049910.23
C43	200.00	29.85	8°33'02.23"	N2035799.39, E6049910.23	N2035818.80, E6049932.86
C44	130.83	65.38	28°38'05.30"	N2035901.07, E6050015.41	N2035941.85, E6050065.64
C45	2600.00	168.92	3°43'21.18"	N2035941.85, E6050065.64	N2036041.39, E6050202.09
C46	160.00	118.93	42°35'20.49"	N2036041.39, E6050202.09	N2036074.75, E6050313.41
C47	300.00	68.97	13°10'23.53"	N2036065.98, E6050422.04	N2036068.35, E6050490.83
C48	100.00	22.12	12°40'32.16"	N2036068.35, E6050490.83	N2036074.02, E6050512.16

LINE TABLE: CONTROL LINE A-50

LINE #	LENGTH	BEARING	START POINT	END POINT
L223	23.01	S4° 44' 59.94"W	N2036069.64, E6050376.88	N2036046.70, E6050374.98
L224	2.49	S85° 15' 00.76"E	N2036046.70, E6050374.98	N2036046.50, E6050377.46
L225	12.11	S85° 15' 14.25"E	N2036046.50, E6050377.46	N2036045.50, E6050389.54
L226	22.03	S85° 15' 14.25"E	N2036045.50, E6050389.54	N2036043.67, E6050411.49
L227	22.03	S85° 14' 54.18"E	N2036043.67, E6050411.49	N2036041.85, E6050433.44
L228	22.03	S85° 14' 54.18"E	N2036041.85, E6050433.44	N2036040.02, E6050455.39
L229	25.94	S85° 14' 54.18"E	N2036040.02, E6050455.39	N2036037.87, E6050481.24

LINE TABLE: FLOODWALL 24

LINE #	LENGTH	BEARING	START POINT	END POINT
L468	3.75	S85° 23' 05.39"E	N2036078.26, E6050350.75	N2036077.95, E6050354.49
L469	3.17	N4° 36' 54.61"E	N2036077.95, E6050354.49	N2036081.11, E6050354.74
L470	12.49	S85° 23' 05.39"E	N2036081.11, E6050354.74	N2036080.11, E6050367.19
L509	22.17	S85° 23' 05.39"E	N2036080.11, E6050367.19	N2036078.32, E6050389.29
L510	1.17	S4° 36' 54.61"W	N2036078.32, E6050389.29	N2036077.16, E6050389.19
L511	2.00	S4° 36' 54.61"W	N2036077.16, E6050389.19	N2036075.17, E6050389.03

LINE TABLE: RETAINING WALL 4

LINE #	LENGTH	BEARING	START POINT	END POINT
L626	76.45	N62° 13' 49.03"E	N2035675.46, E6049737.30	N2035711.08, E6049804.94
L627	116.54	N45° 05' 50.69"E	N2035805.34, E6049946.27	N2035887.61, E6050028.82
L628	32.46	S85° 23' 05.39"E	N2036055.81, E6050311.88	N2036053.20, E6050344.24
L629	76.53	S85° 23' 05.39"E	N2036053.20, E6050344.24	N2036047.04, E6050420.52
L635	90.82	N68° 45' 58.92"E	N2036056.31, E6050519.04	N2036089.21, E6050603.70

CURVE TABLE: RETAINING WALL 4

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C612	2019.00	58.14	1°38'59.39"	N2035649.12, E6049885.47	N2035675.46, E6049737.30
C613	919.00	137.66	8°34'56.11"	N2035711.08, E6049804.94	N2035784.08, E6049921.49
C614	219.00	32.68	8°33'02.23"	N2035784.08, E6049921.49	N2035805.34, E6049946.27
C615	119.00	15.13	7°17'10.85"	N2035887.61, E6050028.82	N2035898.95, E6050038.83
C616	66.00	29.96	26°00'40.15"	N2035898.95, E6050038.83	N2035917.72, E6050061.86
C617	119.00	16.77	8°04'24.70"	N2035917.72, E6050061.86	N2035926.15, E6050076.34
C618	2619.00	170.16	3°43'21.18"	N2035926.15, E6050076.34	N2036026.42, E6050213.78
C619	141.00	104.81	42°35'20.49"	N2036026.42, E6050213.78	N2036055.81, E6050311.88
C620	319.00	73.34	13°10'23.53"	N2036047.04, E6050420.52	N2036049.56, E6050493.65
C621	119.00	26.33	12°40'32.16"	N2036049.56, E6050493.65	N2036056.31, E6050519.04

LINE TABLE: RETAINING WALL 39

LINE #	LENGTH	BEARING	START POINT	END POINT
L630	9.00	S4° 36' 54.61"W	N2036053.44, E6050341.25	N2036044.47, E6050340.52
L631	31.66	S85° 23' 05.29"E	N2036044.47, E6050340.52	N2036041.92, E6050372.08
L632	4.98	S85° 23' 07.12"E	N2036041.92, E6050372.08	N2036041.52, E6050377.05
L633	13.00	S85° 14' 13.78"E	N2036041.52, E6050377.05	N2036040.44, E6050390.00
L634	86.14	S85° 14' 54.18"E	N2036040.44, E6050390.00	N2036033.31, E6050475.84

SCALE VERIFICATION

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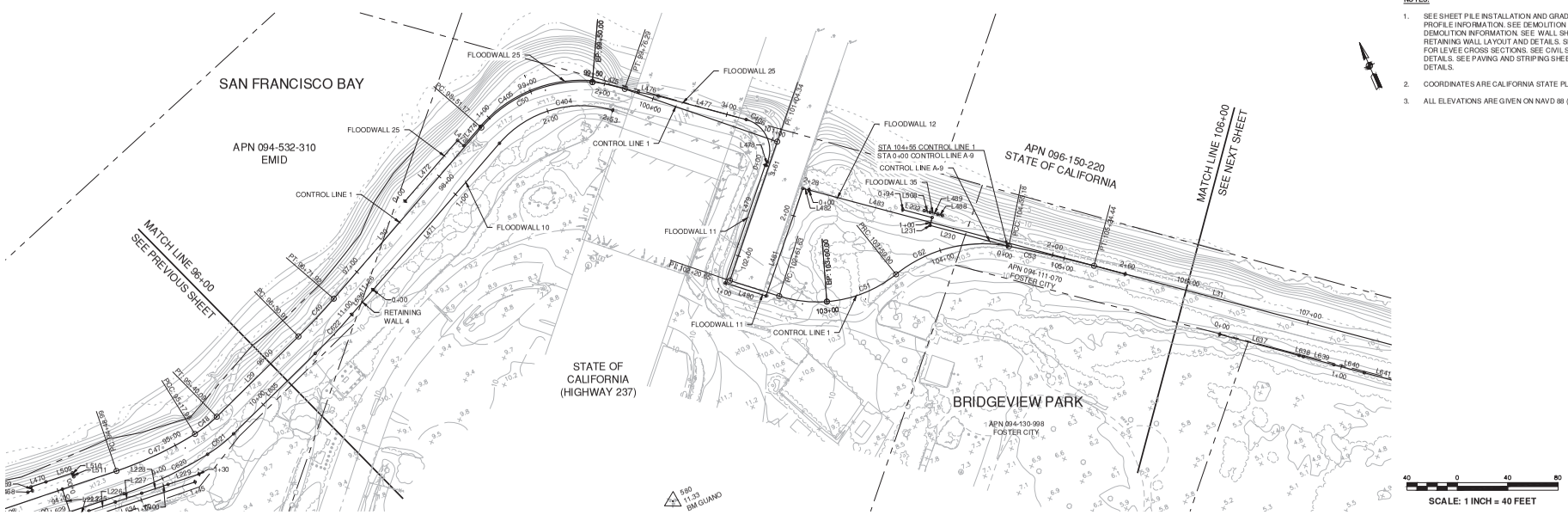

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L30	179.25	N64° 03' 59.46"E	N2036123.32, E6050634.40	N2036201.71, E6050795.60

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C49	500.00	41.01	4°41'59.46"	N2036106.92, E6050596.82	N2036123.32, E6050634.40
C50	105.00	98.83	53°55'37.50"	N2036201.71, E6050795.60	N2036200.00, E6050890.80
C51	100.00	59.90	34°19'07.89"	N2035966.59, E6050992.98	N2035964.84, E6051051.96
C52	110.00	95.28	49°37'46.32"	N2035964.84, E6051051.96	N2035949.83, E6051143.07
C53	1000.00	69.26	3°58'06.36"	N2035949.83, E6051143.07	N2035908.98, E6051198.98

LINE TABLE: CONTROL LINE A-9

LINE #	LENGTH	BEARING	START POINT	END POINT
L230	63.47	N51° 51' 51.27"W	N2035950.59, E6051141.94	N2035989.78, E6051092.01
L231	63.47	N51° 51' 51.27"W	N2035950.59, E6051141.94	N2035989.78, E6051092.01
L232	24.10	N51° 51' 51.28"W	N2035994.90, E6051096.03	N2036009.78, E6051077.07

LINE TABLE: RETAINING WALL 4

LINE #	LENGTH	BEARING	START POINT	END POINT
L636	25.76	N64° 04' 01.61"E	N2036106.23, E6050642.71	N2036117.50, E6050665.87

CURVE TABLE: RETAINING WALL 4

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C622	519.00	42.57	4°41'59.46"	N2036089.21, E6050603.70	N2036106.23, E6050642.71

LINE TABLE: FLOODWALL 10

LINE #	LENGTH	BEARING	START POINT	END POINT
L471	153.49	N64° 03' 59.03"E	N2036117.50, E6050665.87	N2036184.62, E6050803.91

CURVE TABLE: FLOODWALL 10

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C404	86.00	99.01	65°57'52.19"	N2036184.62, E6050803.91	N2036173.13, E6050896.83

LINE TABLE: FLOODWALL 11

LINE #	LENGTH	BEARING	START POINT	END POINT
L479	98.73	S42° 06' 26.58"W	N2036085.35, E6050990.82	N2036012.11, E6050924.62
L480	34.06	S49° 09' 23.31"E	N2036012.11, E6050924.62	N2035989.83, E6050950.39
L481	90.15	N42° 12' 09.22"E	N2035989.83, E6050950.39	N2036056.61, E6051010.95
L482	5.03	S51° 51' 51.28"E	N2036056.61, E6051010.95	N2036053.50, E6051014.90

LINE TABLE: FLOODWALL 12

LINE #	LENGTH	BEARING	START POINT	END POINT
L483	259.59	S51° 51' 51.28"E	N2036053.50, E6051014.90	N2035893.20, E6051219.08

LINE TABLE: FLOODWALL 25

LINE #	LENGTH	BEARING	START POINT	END POINT
L472	63.67	N64° 03' 59.46"E	N2036172.01, E6050717.00	N2036199.86, E6050774.25
L473	6.49	S25° 56' 00.54"E	N2036199.86, E6050774.25	N2036194.02, E6050777.09
L474	20.01	N64° 03' 44.96"E	N2036194.02, E6050777.09	N2036202.77, E6050795.08
L475	37.82	S52° 51' 38.70"E	N2036201.24, E6050890.98	N2036178.40, E6050921.13
L476	16.12	S55° 18' 46.15"E	N2036178.40, E6050921.13	N2036169.23, E6050934.38
L477	72.31	S51° 46' 11.46"E	N2036169.23, E6050934.38	N2036124.48, E6050991.18
L478	2.99	S44° 47' 41.06"W	N2036086.98, E6050993.47	N2036084.86, E6050991.36

CURVE TABLE: FLOODWALL 25

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C405	106.18	99.51	53°41'54.20"	N2036202.77, E6050795.08	N2036201.24, E6050890.98
C406	25.17	42.42	96°33'52.51"	N2036124.48, E6050991.18	N2036086.98, E6050993.47

LINE TABLE: FLOODWALL 35

LINE #	LENGTH	BEARING	START POINT	END POINT
L488	3.83	N51° 51' 51.28"W	N2035993.15, E6051104.19	N2035995.52, E6051101.18
L489	6.17	N51° 51' 51.28"W	N2035995.52, E6051101.18	N2035999.32, E6051096.33
L508	5.00	N51° 51' 51.28"W	N2035999.32, E6051096.33	N2036002.41, E6051092.39

SCALE VERIFICATION

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SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

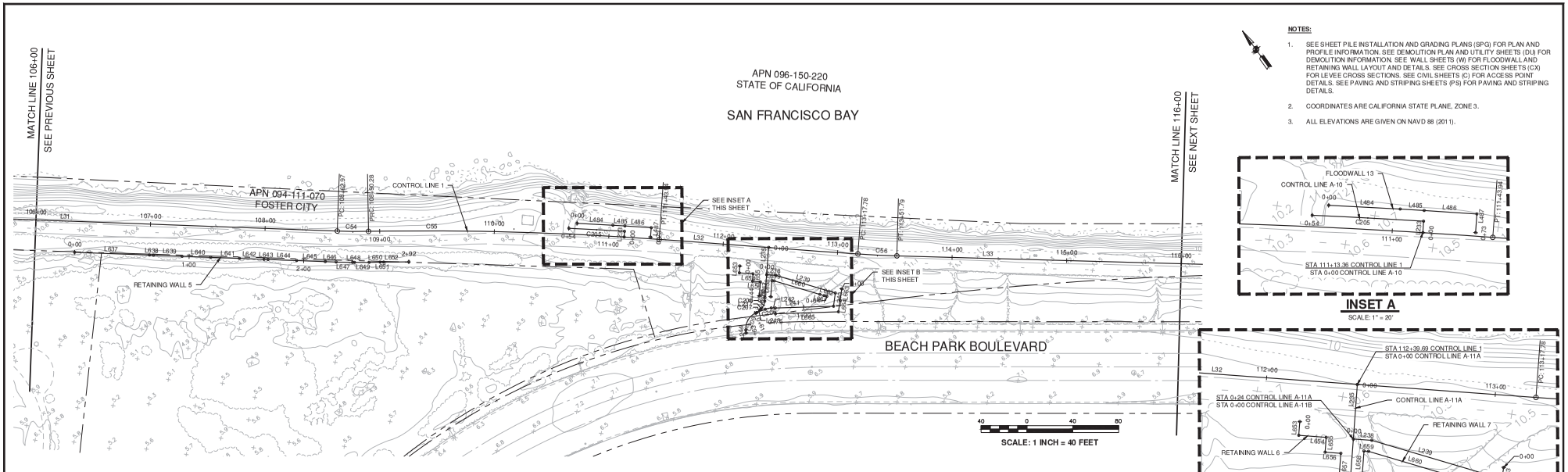
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 11
SHEET 017 OF 384
CIP PROJ. NUMBER
CIP 301-657



NOTES:

1. SEE SHEET PILE INSTALLATION AND GRADING PLANS (SPG) FOR PLAN AND PROFILE INFORMATION. SEE DEMOLITION PLAN AND UTILITY SHEETS (DU) FOR DEMOLITION INFORMATION. SEE WALL SHEETS (W) FOR FLOODWALL AND RETAINING WALL LAYOUT AND DETAILS. SEE CROSS SECTION SHEETS (CX) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS) FOR PAVING AND STRIPING DETAILS.
2. COORDINATES ARE CALIFORNIA STATE PLANE, ZONE 3.
3. ALL ELEVATIONS ARE GIVEN ON NAVD 88 (2011).

INSET A
SCALE: 1" = 20'

INSET B
SCALE: 1" = 20'

LINE TABLE: CONTROL LINE 1				
LINE #	LENGTH	BEARING	START POINT	END POINT
L31	338.52	S51° 51' 51.27"E	N2035908.98, E6051198.98	N2035699.93, E6051465.25
L32	173.84	S49° 48' 10.99"E	N2035528.94, E6051688.08	N2035416.74, E6051820.86
L33	399.33	S52° 24' 05.39"E	N2035395.38, E6051847.33	N2035151.75, E6052163.72

CURVE TABLE: CONTROL LINE 1					
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C54	500.00	27.31	3°07'46.38"	N2035699.93, E6051465.25	N2035683.66, E6051487.18
C55	2800.00	253.67	5°11'26.67"	N2035683.66, E6051487.18	N2035528.94, E6051688.08
C56	750.00	34.01	2°35'54.40"	N2035416.74, E6051820.86	N2035395.38, E6051847.33

LINE TABLE: CONTROL LINE A-10				
LINE #	LENGTH	BEARING	START POINT	END POINT
L233	5.00	N39° 26' 58.58"E	N2035548.55, E6051664.62	N2035552.41, E6051667.79

LINE TABLE: CONTROL LINE A-11A				
LINE #	LENGTH	BEARING	START POINT	END POINT
L235	43.75	S40° 11' 49.01"W	N2035467.14, E6051761.21	N2035433.72, E6051732.97
L236	3.27	S40° 11' 49.01"W	N2035433.72, E6051732.97	N2035431.22, E6051730.86
L237	1.66	S78° 22' 28.90"W	N2035427.88, E6051725.24	N2035427.55, E6051723.61

CURVE TABLE: CONTROL LINE A-11A					
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C206	10.00	6.66	38°10'39.89"	N2035431.22, E6051730.86	N2035427.88, E6051725.24
C207	13.58	5.57	23°30'02.61"	N2035427.55, E6051723.61	N2035427.51, E6051718.08

LINE TABLE: CONTROL LINE A-11B				
LINE #	LENGTH	BEARING	START POINT	END POINT
L238	8.07	S49° 48' 10.99"E	N2035448.91, E6051745.81	N2035443.70, E6051751.97
L239	54.16	S37° 27' 59.01"E	N2035443.70, E6051751.97	N2035400.72, E6051784.91
L240	11.68	S44° 10' 59.15"W	N2035400.72, E6051784.91	N2035392.34, E6051776.78
L241	50.79	N55° 41' 09.80"W	N2035392.34, E6051776.78	N2035420.98, E6051734.82
L242	3.44	N54° 50' 29.95"W	N2035420.98, E6051734.82	N2035422.96, E6051732.01
L243	8.04	N75° 28' 35.70"W	N2035425.22, E6051727.12	N2035427.24, E6051719.33
L244	2.59	S31° 28' 39.24"W	N2035420.53, E6051702.72	N2035418.32, E6051701.36

CURVE TABLE: CONTROL LINE A-11B					
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C208	15.05	5.42	20°38'05.75"	N2035422.96, E6051732.01	N2035425.22, E6051727.12
C209	15.05	19.19	73°02'45.06"	N2035427.24, E6051719.33	N2035420.53, E6051702.72

CURVE TABLE: CONTROL LINE A-10					
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C205	2805.00	48.66	0°59'37.88"	N2035552.41, E6051667.79	N2035583.08, E6051630.02

LINE TABLE: RETAINING WALL 8				
LINE #	LENGTH	BEARING	START POINT	END POINT
L663	10.10	S44° 10' 59.15"W	N2035400.33, E6051791.51	N2035393.09, E6051784.47
L664	10.10	S44° 10' 59.15"W	N2035393.09, E6051784.47	N2035385.84, E6051777.43
L665	55.00	N55° 41' 09.80"W	N2035385.84, E6051777.43	N2035416.85, E6051732.00

LINE TABLE: RETAINING WALL 6				
LINE #	LENGTH	BEARING	START POINT	END POINT
L653	6.00	S40° 11' 49.01"W	N2035468.80, E6051731.37	N2035464.21, E6051727.50
L654	12.00	S49° 48' 10.99"E	N2035464.21, E6051727.50	N2035456.47, E6051736.66
L655	6.50	S40° 11' 49.01"W	N2035456.47, E6051736.66	N2035451.50, E6051732.47
L656	6.86	S49° 48' 10.99"E	N2035451.50, E6051732.47	N2035447.07, E6051737.71
L657	12.34	S40° 11' 49.01"W	N2035447.07, E6051737.71	N2035437.65, E6051729.75

LINE TABLE: RETAINING WALL 7				
LINE #	LENGTH	BEARING	START POINT	END POINT
L658	14.08	N40° 11' 49.01"E	N2035431.20, E6051737.39	N2035441.95, E6051746.47
L659	2.00	S49° 48' 10.99"E	N2035441.95, E6051746.47	N2035440.66, E6051748.00
L660	41.50	S37° 27' 59.01"E	N2035440.66, E6051748.00	N2035407.72, E6051773.25
L661	3.87	S37° 27' 59.01"E	N2035407.72, E6051773.25	N2035404.65, E6051775.60
L662	2.44	S37° 27' 59.01"E	N2035404.65, E6051775.60	N2035402.71, E6051777.09

LINE TABLE: RETAINING WALL 5				
LINE #	LENGTH	BEARING	START POINT	END POINT
L637	65.28	S51° 51' 51.27"E	N2035819.65, E6051269.04	N2035779.34, E6051320.38
L638	3.51	S51° 51' 51.27"E	N2035779.34, E6051320.38	N2035777.17, E6051323.15
L639	25.00	S51° 51' 51.27"E	N2035777.17, E6051323.15	N2035761.73, E6051342.81
L640	25.00	S51° 51' 51.27"E	N2035761.73, E6051342.81	N2035746.30, E6051362.47
L641	25.00	S51° 51' 51.27"E	N2035746.30, E6051362.47	N2035730.86, E6051382.14
L642	21.49	S51° 51' 51.27"E	N2035730.86, E6051382.14	N2035717.59, E6051399.04
L643	3.51	S51° 51' 51.27"E	N2035717.59, E6051399.04	N2035715.42, E6051401.80
L644	25.00	S51° 51' 51.27"E	N2035715.42, E6051401.80	N2035699.98, E6051421.46
L645	25.00	S51° 51' 51.27"E	N2035699.98, E6051421.46	N2035684.54, E6051441.13
L646	9.47	S51° 51' 51.27"E	N2035684.54, E6051441.13	N2035678.69, E6051448.58
L647	14.38	S52° 38' 47.87"E	N2035678.69, E6051448.58	N2035669.97, E6051460.01
L648	1.70	S53° 31' 15.48"E	N2035669.97, E6051460.01	N2035668.96, E6051461.38
L649	12.69	S54° 18' 12.08"E	N2035668.96, E6051461.38	N2035661.55, E6051471.68
L650	9.62	S54° 53' 40.01"E	N2035661.55, E6051471.68	N2035656.02, E6051479.56
L651	3.03	S54° 45' 49.52"E	N2035656.02, E6051479.56	N2035654.27, E6051482.03
L652	22.00	S54° 28' 32.87"E	N2035654.27, E6051482.03	N2035641.49, E6051499.94

LINE TABLE: FLOODWALL 13				
LINE #	LENGTH	BEARING	START POINT	END POINT
L484	31.22	S50° 57' 41.48"E	N2035582.35, E6051638.41	N2035562.68, E6051662.66
L485	10.50	S50° 32' 09.96"E	N2035562.68, E6051662.66	N2035556.01, E6051670.77
L486	23.03	S50° 11' 39.04"E	N2035556.01, E6051670.77	N2035541.26, E6051688.46
L487	8.17	S40° 02' 43.45"W	N2035541.26, E6051688.46	N2035535.01, E6051683.21

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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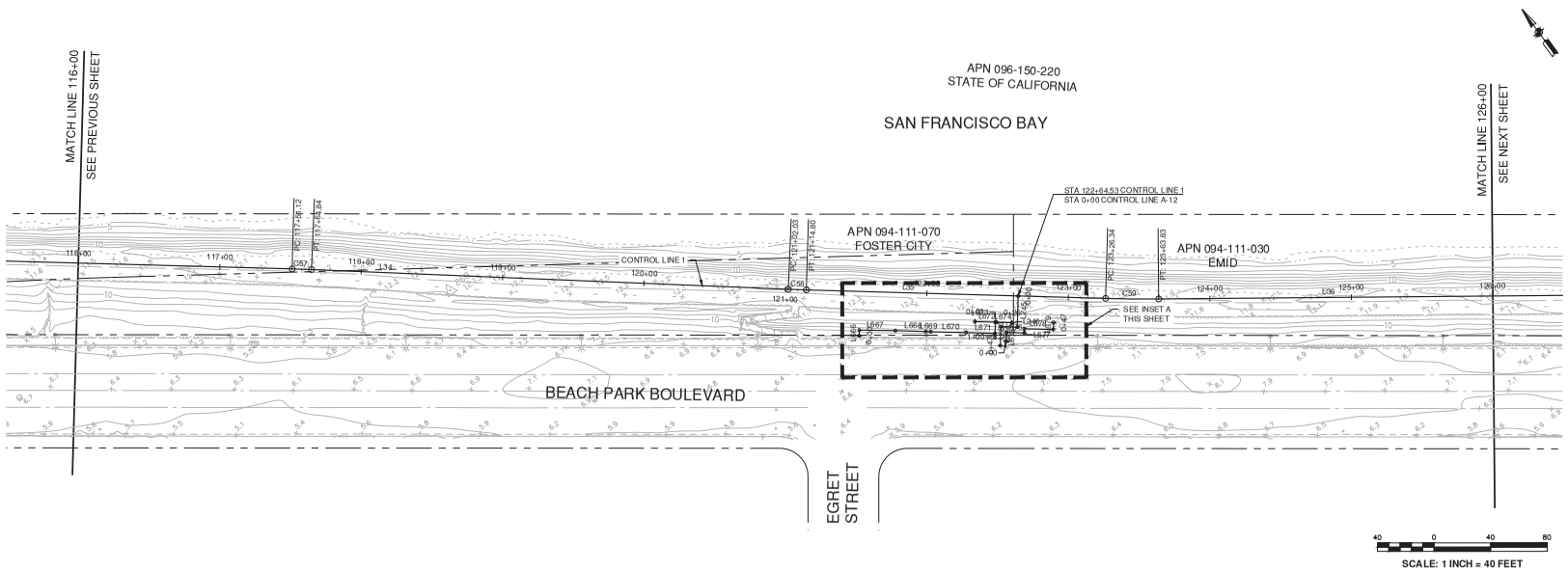
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 12
SHEET 018 OF 384
CIP PROJ. NUMBER
CIP 301-657



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LINE TABLE: CONTROL LINE 1

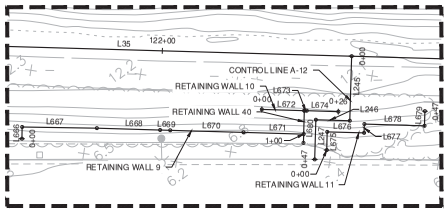
LINE #	LENGTH	BEARING	START POINT	END POINT
L34	337.19	S51° 36' 55.67"E	N2035143.30, E6052174.53	N2034933.02, E6052438.85
L35	211.54	S52° 20' 48.21"E	N2034926.06, E6052448.90	N2034796.84, E6052616.38
L36	906.11	S54° 29' 41.47"E	N2034774.50, E6052646.49	N2034248.25, E6053384.12

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C57	1000.00	13.72	0°47'09.72"	N2035151.75, E6052163.72	N2035143.30, E6052174.53
C58	1000.00	12.76	0°43'52.54"	N2034933.92, E6052438.85	N2034926.06, E6052448.90
C59	1000.00	37.49	2°08'53.26"	N2034796.84, E6052616.38	N2034774.50, E6052646.49

LINE TABLE: CONTROL LINE A-12

LINE #	LENGTH	BEARING	START POINT	END POINT
L245	22.00	S37° 39' 11.79"W	N2034834.59, E6052567.45	N2034817.17, E6052554.01
L246	11.58	N52° 20' 48.21"W	N2034817.17, E6052554.01	N2034824.25, E6052544.84
L247	13.54	S37° 39' 11.79"W	N2034824.25, E6052544.84	N2034813.53, E6052536.57



INSET A
SCALE: 1" = 20'

LINE TABLE: RETAINING WALL 9

LINE #	LENGTH	BEARING	START POINT	END POINT
L666	4.00	N36° 58' 54.99"E	N2034877.94, E6052460.04	N2034881.13, E6052462.45
L667	25.46	S53° 01' 05.21"E	N2034881.13, E6052462.45	N2034865.81, E6052482.79
L668	21.56	S52° 20' 48.21"E	N2034865.81, E6052482.79	N2034852.65, E6052499.85
L669	3.44	S52° 20' 48.21"E	N2034852.65, E6052499.85	N2034850.55, E6052502.58
L670	25.00	S52° 20' 48.21"E	N2034850.55, E6052502.58	N2034835.27, E6052522.37
L671	20.53	S52° 20' 48.21"E	N2034835.27, E6052522.37	N2034822.73, E6052538.63

LINE TABLE: RETAINING WALL 10

LINE #	LENGTH	BEARING	START POINT	END POINT
L672	14.50	S52° 20' 48.21"E	N2034837.93, E6052532.03	N2034829.07, E6052543.51
L673	0.82	S52° 20' 48.21"E	N2034829.07, E6052543.51	N2034828.57, E6052544.16
L674	10.77	S52° 20' 48.21"E	N2034828.57, E6052544.16	N2034821.99, E6052552.68

LINE TABLE: RETAINING WALL 11

LINE #	LENGTH	BEARING	START POINT	END POINT
L675	6.20	N37° 35' 21.36"E	N2034813.73, E6052541.78	N2034818.64, E6052545.56
L676	12.59	S52° 20' 48.21"E	N2034818.64, E6052545.56	N2034810.95, E6052555.53
L677	3.00	N37° 39' 11.79"E	N2034810.95, E6052555.53	N2034813.33, E6052557.36
L678	20.50	S52° 20' 48.21"E	N2034813.33, E6052557.36	N2034800.81, E6052573.59
L679	5.00	N37° 39' 11.79"E	N2034800.81, E6052573.59	N2034804.76, E6052576.65

LINE TABLE: RETAINING WALL 40

LINE #	LENGTH	BEARING	START POINT	END POINT
L680	11.00	S37° 39' 11.79"W	N2034829.07, E6052543.51	N2034820.36, E6052536.79

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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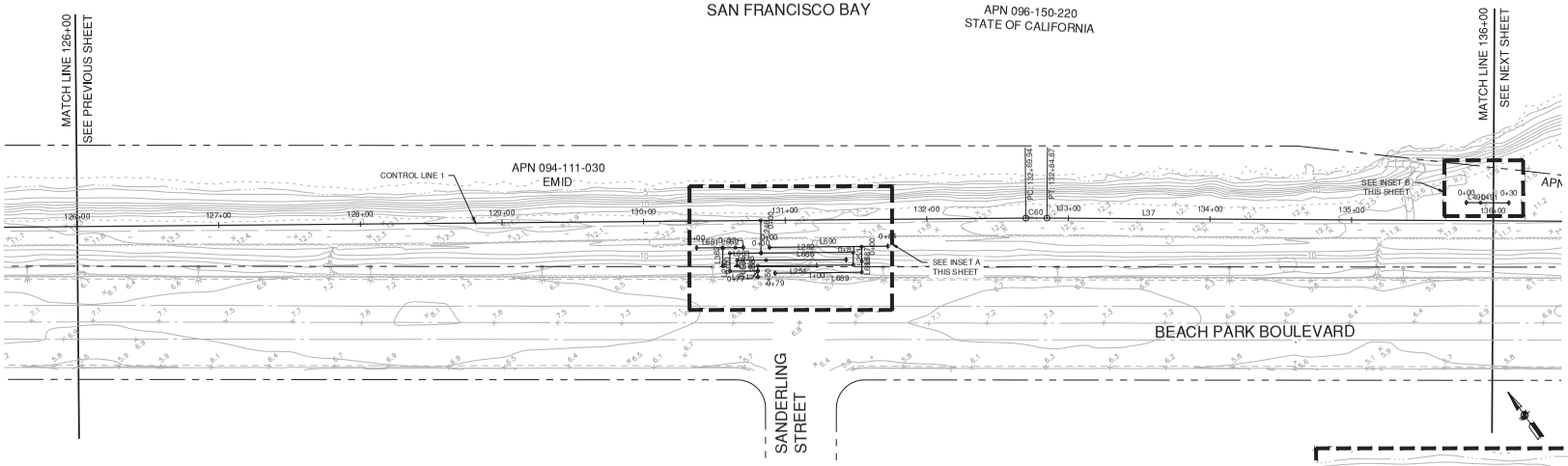
SHEET
SCL 13
SHEET 019 OF 384

CIP PROJ. NUMBER
CIP 301-657



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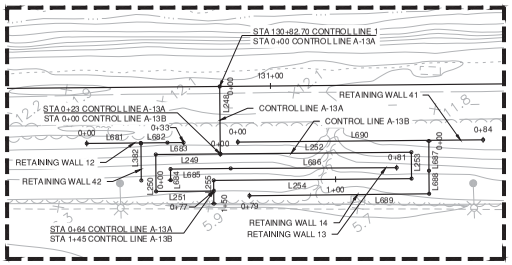
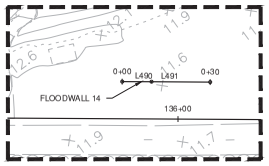
40 0 40 80

SCALE: 1 INCH = 40 FEET



INSET A
SCALE: 1" = 20'



INSET B
SCALE: 1" = 20'

LINE TABLE: CONTROL LINE 1				
LINE #	LENGTH	BEARING	START POINT	END POINT
L37	485.57	S53° 38' 21.06"E	N2034239.49, E6053396.21	N2033951.61, E6053787.24

CURVE TABLE: CONTROL LINE 1					
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C60	1000.00	14.93	0°51'20.41"	N2034248.25, E6053384.12	N2034239.49, E6053396.21

LINE TABLE: CONTROL LINE A-13A				
LINE #	LENGTH	BEARING	START POINT	END POINT
L248	23.00	S35° 30' 18.53"W	N2034356.99, E6053231.69	N2034338.27, E6053218.34
L249	22.00	N54° 28' 04.62"W	N2034338.27, E6053218.34	N2034351.06, E6053200.43
L250	12.59	S35° 30' 18.53"W	N2034351.06, E6053200.43	N2034340.81, E6053193.12
L251	19.65	S54° 19' 38.75"E	N2034340.81, E6053193.12	N2034329.35, E6053209.09

LINE TABLE: CONTROL LINE A-13B				
LINE #	LENGTH	BEARING	START POINT	END POINT
L252	65.12	S54° 29' 41.47"E	N2034338.27, E6053218.34	N2034300.45, E6053271.35
L253	9.00	S35° 30' 18.53"W	N2034300.45, E6053271.35	N2034293.12, E6053266.12
L254	67.46	N54° 29' 41.47"W	N2034293.12, E6053266.12	N2034332.30, E6053211.20
L255	7.93	S35° 36' 39.12"W	N2034332.30, E6053211.20	N2034325.86, E6053206.59

LINE TABLE: RETAINING WALL 12				
LINE #	LENGTH	BEARING	START POINT	END POINT
L681	18.42	S54° 29' 41.47"E	N2034367.95, E6053183.62	N2034357.25, E6053198.62
L682	9.08	S54° 29' 41.47"E	N2034357.25, E6053198.62	N2034351.98, E6053206.01
L683	5.50	S54° 29' 41.47"E	N2034351.98, E6053206.01	N2034348.79, E6053210.48

LINE TABLE: RETAINING WALL 14				
LINE #	LENGTH	BEARING	START POINT	END POINT
L687	10.14	S35° 43' 37.61"W	N2034300.05, E6053278.43	N2034291.82, E6053272.51
L688	7.86	S35° 43' 37.61"W	N2034291.82, E6053272.51	N2034285.43, E6053267.92
L689	61.24	N54° 36' 55.41"W	N2034285.43, E6053267.92	N2034320.89, E6053217.99

LINE TABLE: FLOODWALL 14				
LINE #	LENGTH	BEARING	START POINT	END POINT
L490	10.00	S53° 38' 21.06"E	N2034074.19, E6053642.11	N2034068.26, E6053650.16
L491	20.00	S53° 38' 21.06"E	N2034068.26, E6053650.16	N2034056.40, E6053666.26

LINE TABLE: RETAINING WALL 13				
LINE #	LENGTH	BEARING	START POINT	END POINT
L684	3.81	N35° 30' 18.53"E	N2034340.98, E6053199.39	N2034344.08, E6053201.60
L685	20.49	S54° 29' 41.47"E	N2034344.08, E6053201.60	N2034332.18, E6053218.28
L686	56.60	S54° 15' 54.43"E	N2034332.18, E6053218.28	N2034299.13, E6053264.22

LINE TABLE: RETAINING WALL 41				
LINE #	LENGTH	BEARING	START POINT	END POINT
L690	83.62	S54° 29' 27.20"E	N2034338.04, E6053225.54	N2034289.47, E6053293.61

LINE TABLE: RETAINING WALL 42				
LINE #	LENGTH	BEARING	START POINT	END POINT
L382	12.58	S35° 30' 18.53"W	N2034357.03, E6053198.55	N2034346.79, E6053191.25

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
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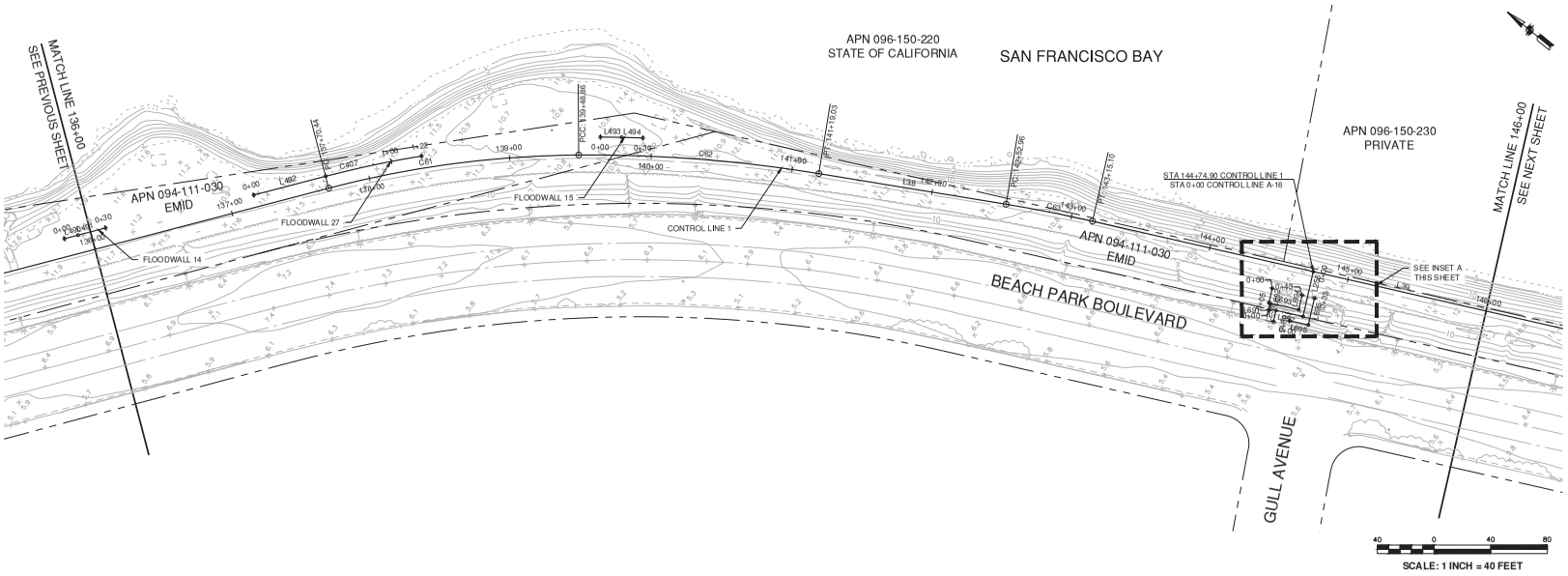
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 14
SHEET 020 OF 384

CIP PROJ. NUMBER
CIP 301-657



NOTES:

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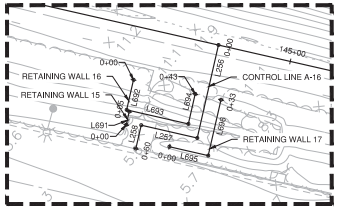

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L38	133.93	S29° 41' 27.13"E	N2033689.24, E6054012.84	N2033572.89, E6054079.18
L39	445.64	S26° 07' 49.87"E	N2033517.99, E6054108.27	N2033117.89, E6054304.53

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C61	720.00	178.42	14°11'54.72"	N2033951.61, E6053787.24	N2033829.19, E6053916.42
C62	1000.00	170.17	9°44'59.21"	N2033829.19, E6053916.42	N2033689.24, E6054012.84
C63	1000.00	62.14	3°33'37.26"	N2033572.89, E6054079.18	N2033517.99, E6054108.27

LINE TABLE: CONTROL LINE A-16

LINE #	LENGTH	BEARING	START POINT	END POINT
L256	32.50	S63° 52' 10.13"W	N2033374.53, E6054178.64	N2033360.22, E6054149.46
L257	19.58	N26° 07' 49.87"W	N2033360.22, E6054149.46	N2033377.80, E6054140.83
L258	8.17	S63° 52' 10.13"W	N2033377.80, E6054140.83	N2033374.20, E6054133.50

LINE TABLE: FLOODWALL 27

LINE #	LENGTH	BEARING	START POINT	END POINT
L492	52.46	S53° 38' 21.06"E	N2033989.69, E6053750.13	N2033958.59, E6053792.38

LINE TABLE: RETAINING WALL 15

LINE #	LENGTH	BEARING	START POINT	END POINT
L691	4.63	N63° 52' 10.13"E	N2033381.85, E6054137.73	N2033383.89, E6054141.89

LINE TABLE: RETAINING WALL 17

LINE #	LENGTH	BEARING	START POINT	END POINT
L695	13.58	S26° 07' 49.87"E	N2033365.72, E6054141.19	N2033353.53, E6054147.17
L696	19.50	N63° 52' 10.13"E	N2033353.53, E6054147.17	N2033362.12, E6054164.68

CURVE TABLE: FLOODWALL 27

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C407	728.67	69.23	5°26'37.79"	N2033958.59, E6053792.38	N2033914.96, E6053846.10

LINE TABLE: RETAINING WALL 16

LINE #	LENGTH	BEARING	START POINT	END POINT
L692	10.51	S63° 52' 10.13"W	N2033389.58, E6054151.22	N2033384.95, E6054141.78
L693	21.58	S26° 07' 49.87"E	N2033384.95, E6054141.78	N2033365.57, E6054151.29
L694	10.50	N63° 52' 10.13"E	N2033365.57, E6054151.29	N2033370.20, E6054160.71

LINE TABLE: FLOODWALL 15

LINE #	LENGTH	BEARING	START POINT	END POINT
L493	15.02	S38° 06' 26.35"E	N2033825.33, E6053935.89	N2033813.52, E6053945.16
L494	15.02	S37° 16' 02.74"E	N2033813.52, E6053945.16	N2033801.57, E6053954.25

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

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SHEET
SCL 15
SHEET 021 OF 384

CIP PROJ. NUMBER
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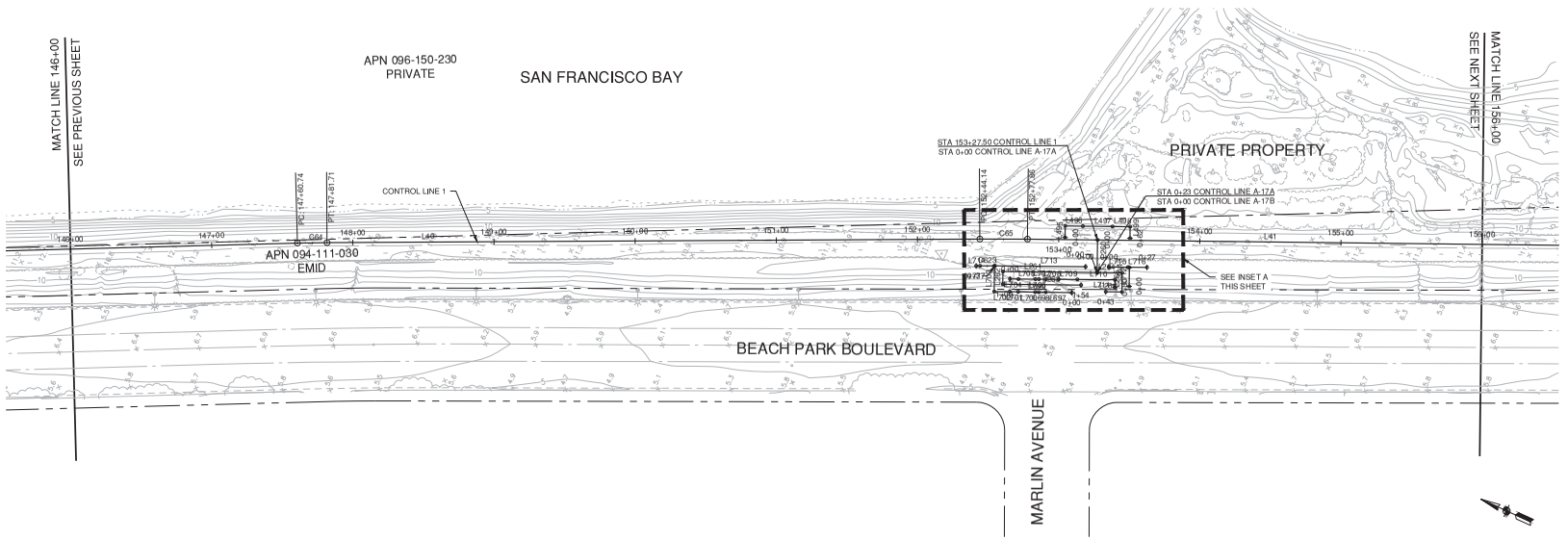

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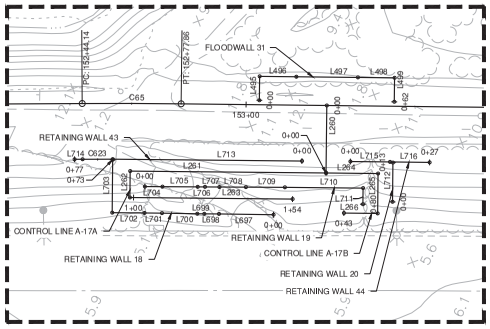
40 0 40 80

SCALE: 1 INCH = 40 FEET



INSET A
SCALE: 1" = 20'

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L40	462.43	S24° 55' 46.04"E	N2033098.98, E6054531.57	N2032679.63, E6054508.49
L41	1116.18	S23° 57' 48.49"E	N2032648.93, E6054522.44	N2031628.96, E6054975.78

LINE TABLE: CONTROL LINE A-17B

LINE #	LENGTH	BEARING	START POINT	END POINT
L264	17.75	S24° 02' 02.68"E	N2032594.22, E6054521.56	N2032578.01, E6054528.79
L265	13.58	S66° 02' 11.51"W	N2032578.01, E6054528.79	N2032572.50, E6054516.38
L266	11.50	N23° 57' 48.49"W	N2032572.50, E6054516.38	N2032583.00, E6054511.71

LINE TABLE: RETAINING WALL 20

LINE #	LENGTH	BEARING	START POINT	END POINT
L712	13.37	N65° 57' 20.41"E	N2032569.53, E6054522.07	N2032574.98, E6054534.28

LINE TABLE: RETAINING WALL 43

LINE #	LENGTH	BEARING	START POINT	END POINT
L713	64.50	N24° 02' 39.59"W	N2032603.38, E6054521.85	N2032662.28, E6054495.57
L714	2.71	N24° 55' 46.04"W	N2032671.62, E6054491.26	N2032674.08, E6054490.11

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C64	1000.00	20.96	1°12'03.84"	N2033117.89, E6054304.53	N2033098.98, E6054313.57
C65	2000.00	33.72	0°57'57.55"	N2032679.63, E6054508.49	N2032648.93, E6054522.44

LINE TABLE: FLOODWALL 31

LINE #	LENGTH	BEARING	START POINT	END POINT
L495	8.17	N66° 02' 11.51"E	N2032625.19, E6054534.63	N2032628.51, E6054542.10
L496	12.49	S23° 57' 48.49"E	N2032628.51, E6054542.10	N2032617.09, E6054547.17
L497	21.00	S23° 57' 48.49"E	N2032617.09, E6054547.17	N2032597.90, E6054555.70
L498	12.49	S23° 57' 48.49"E	N2032597.90, E6054555.70	N2032586.49, E6054560.77
L499	8.17	S66° 02' 11.51"W	N2032586.49, E6054560.77	N2032583.17, E6054553.31

CURVE TABLE: RETAINING WALL 43

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C623	1981.00	10.29	0°17'50.97"	N2032662.28, E6054495.57	N2032671.62, E6054491.26

LINE TABLE: RETAINING WALL 44

LINE #	LENGTH	BEARING	START POINT	END POINT
L715	13.50	S24° 02' 39.59"E	N2032588.31, E6054526.57	N2032575.98, E6054534.07
L716	13.50	S23° 58' 10.03"E	N2032575.98, E6054534.07	N2032563.64, E6054539.55

LINE TABLE: CONTROL LINE A-17A

LINE #	LENGTH	BEARING	START POINT	END POINT
L260	23.02	S66° 02' 11.51"W	N2032603.57, E6054542.60	N2032594.22, E6054521.56
L261	66.74	N24° 03' 11.23"W	N2032594.22, E6054521.56	N2032655.17, E6054494.36
L262	9.00	S65° 57' 20.41"W	N2032655.17, E6054494.36	N2032651.50, E6054486.14
L263	55.43	S24° 02' 39.59"E	N2032651.50, E6054486.14	N2032600.88, E6054508.72

LINE TABLE: RETAINING WALL 18

LINE #	LENGTH	BEARING	START POINT	END POINT
L697	18.58	N23° 47' 25.09"W	N2032604.56, E6054501.18	N2032621.56, E6054493.69
L698	5.00	N24° 01' 17.13"W	N2032621.56, E6054493.69	N2032626.13, E6054491.65
L699	2.42	N23° 46' 54.28"W	N2032626.13, E6054491.65	N2032628.34, E6054490.67
L700	12.01	N23° 46' 27.61"W	N2032628.34, E6054490.67	N2032639.34, E6054485.83
L701	5.99	N23° 50' 19.90"W	N2032639.34, E6054485.83	N2032644.81, E6054483.41
L702	11.00	N24° 02' 42.76"W	N2032644.81, E6054483.41	N2032654.86, E6054478.93
L703	18.00	N65° 57' 20.41"E	N2032654.86, E6054478.93	N2032662.19, E6054495.37

LINE TABLE: RETAINING WALL 19

LINE #	LENGTH	BEARING	START POINT	END POINT
L704	6.00	S24° 17' 33.40"E	N2032648.44, E6054491.65	N2032642.97, E6054494.12
L705	12.02	S24° 17' 49.08"E	N2032642.97, E6054494.12	N2032632.02, E6054499.06
L706	2.48	S24° 16' 31.47"E	N2032632.02, E6054499.06	N2032629.76, E6054500.08
L707	4.91	S24° 04' 43.35"E	N2032629.76, E6054500.08	N2032625.28, E6054502.08
L708	9.02	S24° 17' 33.40"E	N2032625.28, E6054502.08	N2032617.06, E6054505.79
L709	13.31	S24° 20' 29.17"E	N2032617.06, E6054505.79	N2032604.93, E6054511.28
L710	26.65	S24° 04' 50.30"E	N2032604.93, E6054511.28	N2032580.61, E6054522.15
L711	5.50	S65° 57' 20.41"W	N2032580.61, E6054522.15	N2032578.37, E6054517.13

SCALE VERIFICATION

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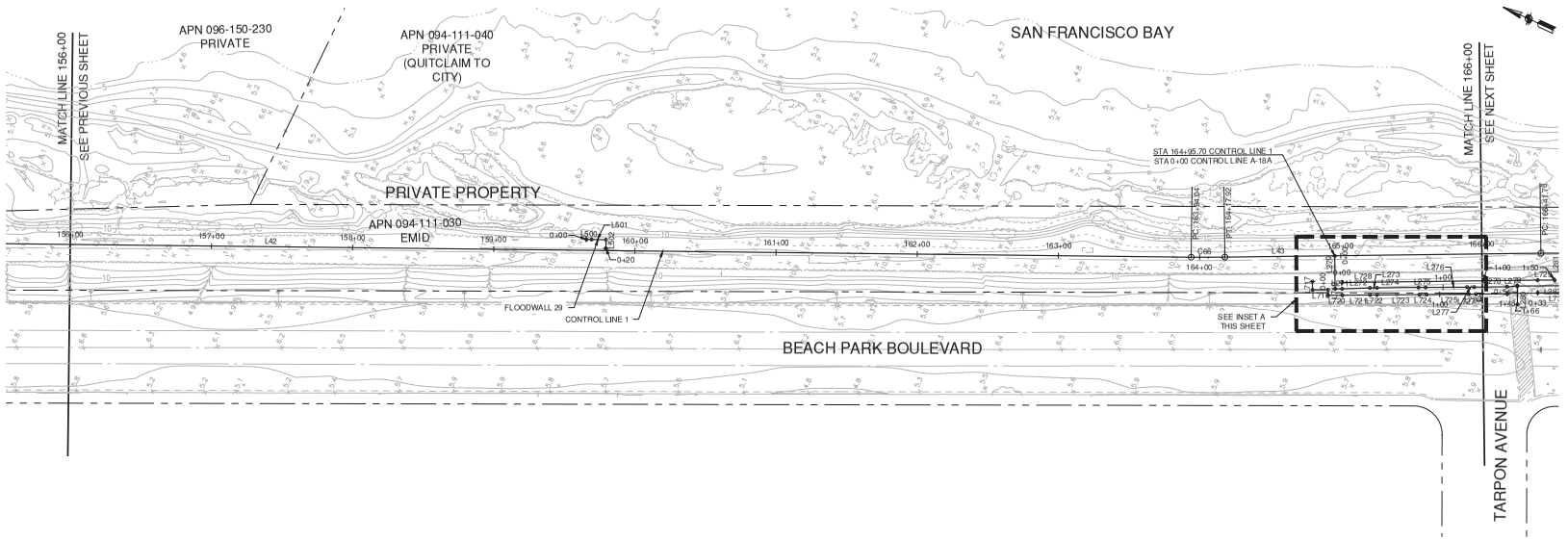

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L42	1116.18	S23° 57' 48.49"E	N2032648.93, E6054522.44	N2031628.96, E6054975.78
L43	223.85	S25° 19' 55.29"E	N2031607.25, E6054985.74	N2031404.92, E6055081.52

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C66	1000.00	23.89	1°22'06.80"	N2031628.96, E6054975.78	N2031607.25, E6054985.74

LINE TABLE: CONTROL LINE A-18A

LINE #	LENGTH	BEARING	START POINT	END POINT
L270	23.48	S64° 40' 23.05"W	N2031536.96, E6055019.02	N2031526.91, E6054997.80
L271	4.98	S25° 04' 54.98"E	N2031526.91, E6054997.80	N2031522.40, E6054999.91
L272	19.69	S26° 32' 16.63"E	N2031522.40, E6054999.91	N2031504.79, E6055008.70
L273	5.02	S25° 17' 53.60"E	N2031504.79, E6055008.70	N2031500.25, E6055010.85
L274	29.38	S25° 05' 13.40"E	N2031500.25, E6055010.85	N2031473.64, E6055023.31
L275	5.02	S25° 17' 43.76"E	N2031473.64, E6055023.31	N2031469.11, E6055025.45
L276	29.39	S25° 05' 14.98"E	N2031469.11, E6055025.45	N2031442.49, E6055037.91
L277	5.01	S25° 14' 49.36"E	N2031442.49, E6055037.91	N2031437.96, E6055040.05

LINE TABLE: RETAINING WALL 22

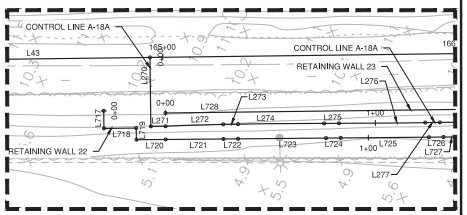
LINE #	LENGTH	BEARING	START POINT	END POINT
L717	6.00	S64° 40' 04.72"W	N2031543.72, E6054995.90	N2031541.15, E6054990.48
L718	11.00	S25° 19' 55.28"E	N2031541.15, E6054990.48	N2031531.21, E6054995.19
L719	3.96	S64° 40' 04.72"W	N2031531.21, E6054995.19	N2031529.51, E6054991.61
L720	9.96	S25° 05' 58.39"E	N2031529.51, E6054991.61	N2031520.49, E6054995.83
L721	19.70	S25° 04' 54.98"E	N2031520.49, E6054995.83	N2031502.65, E6055004.18
L722	5.00	S25° 18' 03.90"E	N2031502.65, E6055004.18	N2031498.13, E6055006.32
L723	30.00	S25° 05' 12.48"E	N2031498.13, E6055006.32	N2031470.96, E6055019.04
L724	5.00	S25° 17' 51.53"E	N2031470.96, E6055019.04	N2031466.44, E6055021.18
L725	30.00	S25° 05' 15.23"E	N2031466.44, E6055021.18	N2031439.27, E6055033.90
L726	5.00	S25° 17' 51.53"E	N2031439.27, E6055033.90	N2031434.75, E6055036.03
L727	22.19	S25° 05' 44.45"E	N2031434.75, E6055036.03	N2031414.66, E6055045.44

LINE TABLE: FLOODWALL 29

LINE #	LENGTH	BEARING	START POINT	END POINT
L500	3.75	S23° 57' 48.49"E	N2032023.72, E6054808.71	N2032020.29, E6054810.24
L501	10.17	S23° 57' 48.49"E	N2032020.29, E6054810.24	N2032011.00, E6054814.37
L502	6.16	S66° 02' 11.51"W	N2032011.00, E6054814.37	N2032008.50, E6054808.74

LINE TABLE: RETAINING WALL 23

LINE #	LENGTH	BEARING	START POINT	END POINT
L728	138.53	S25° 19' 55.29"E	N2031524.31, E6055003.98	N2031399.10, E6055063.25



INSET A
SCALE: 1" = 20'

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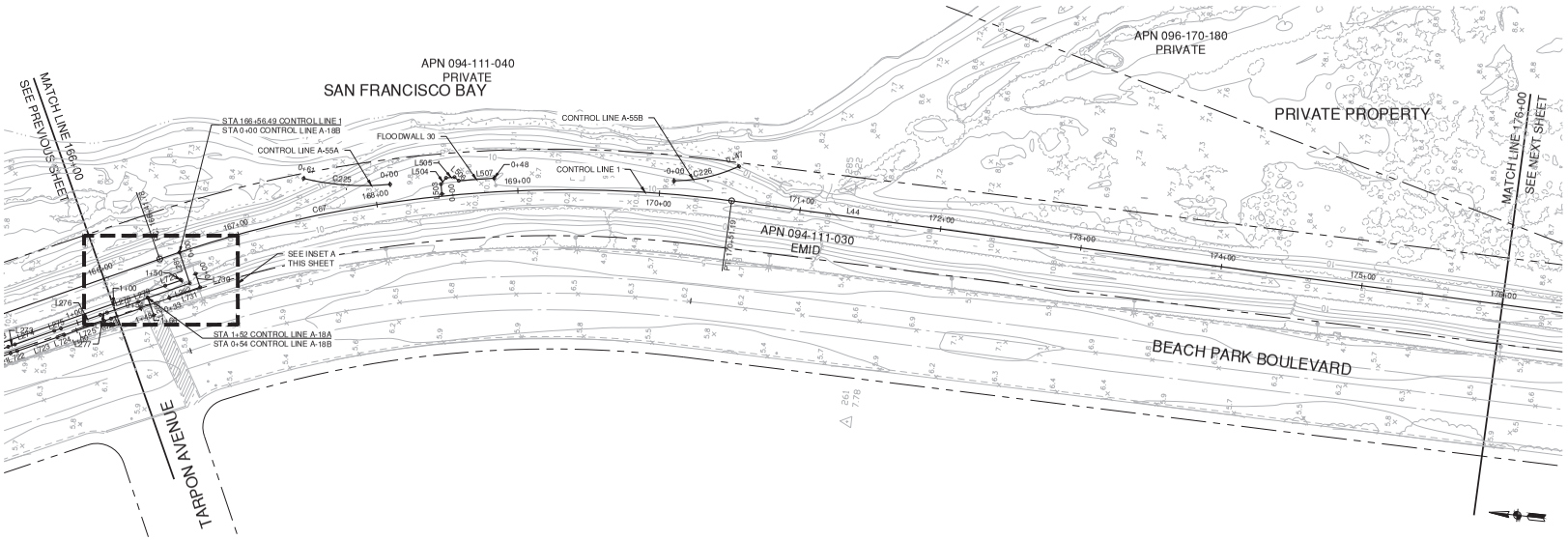

40 0 40 80

SCALE: 1 INCH = 40 FEET

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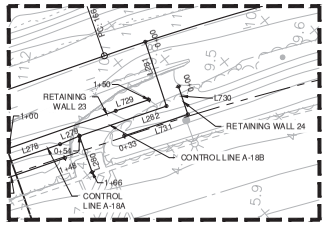

INSET A

SCALE: 1" = 20'

LINE TABLE: CONTROL LINE 1				
LINE #	LENGTH	BEARING	START POINT	END POINT
L44	689.74	S1° 37' 50.09"W	N2031007.93, E6055164.82	N2030318.46, E6055145.20

CURVE TABLE: CONTROL LINE 1					
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C67	870.00	409.41	26°57'45.37"	N2031404.92, E6055081.52	N2031007.93, E6055164.82

LINE TABLE: CONTROL LINE A-18A				
LINE #	LENGTH	BEARING	START POINT	END POINT
L278	23.39	S25° 06' 21.55"E	N2031437.96, E6055040.05	N2031416.78, E6055049.97
L279	7.19	S28° 51' 44.74"E	N2031416.78, E6055049.97	N2031410.49, E6055053.44
L280	13.03	S64° 40' 04.71"W	N2031410.49, E6055053.44	N2031404.91, E6055041.66

LINE TABLE: CONTROL LINE A-18B				
LINE #	LENGTH	BEARING	START POINT	END POINT
L281	23.06	S65° 38' 12.25"W	N2031391.58, E6055087.70	N2031382.06, E6055066.70
L282	31.36	N25° 00' 14.55"W	N2031382.06, E6055066.70	N2031410.49, E6055053.44

LINE TABLE: RETAINING WALL 23				
LINE #	LENGTH	BEARING	START POINT	END POINT
L729	11.92	S24° 43' 23.66"E	N2031399.10, E6055063.25	N2031388.28, E6055068.24

CURVE TABLE: CONTROL LINE A-55A					
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C225	182.44	61.40	19°16'59.01"	N2031248.86, E6055151.06	N2031309.93, E6055148.73

LINE TABLE: FLOODWALL 30				
LINE #	LENGTH	BEARING	START POINT	END POINT
L503	6.99	N78° 08' 42.28"E	N2031211.72, E6055148.10	N2031213.16, E6055154.94
L504	5.67	S56° 40' 32.96"E	N2031213.16, E6055154.94	N2031210.04, E6055159.68
L505	6.02	S11° 21' 23.46"E	N2031210.04, E6055159.68	N2031204.14, E6055160.86
L506	3.86	S34° 10' 18.69"W	N2031204.14, E6055160.86	N2031200.94, E6055158.69
L507	25.14	S9° 59' 59.38"E	N2031200.94, E6055158.69	N2031176.18, E6055163.06

LINE TABLE: RETAINING WALL 24				
LINE #	LENGTH	BEARING	START POINT	END POINT
L730	10.00	S65° 16' 37.16"W	N2031378.70, E6055073.75	N2031374.52, E6055064.66
L731	22.92	N24° 43' 22.84"W	N2031374.52, E6055064.66	N2031395.34, E6055055.08

CURVE TABLE: CONTROL LINE A-55B					
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C226	107.52	47.40	25°15'28.55"	N2031049.88, E6055174.59	N2031005.32, E6055189.60

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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FOSTER CITY LEVEE IMPROVEMENTS
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SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 18
SHEET 024 OF 384

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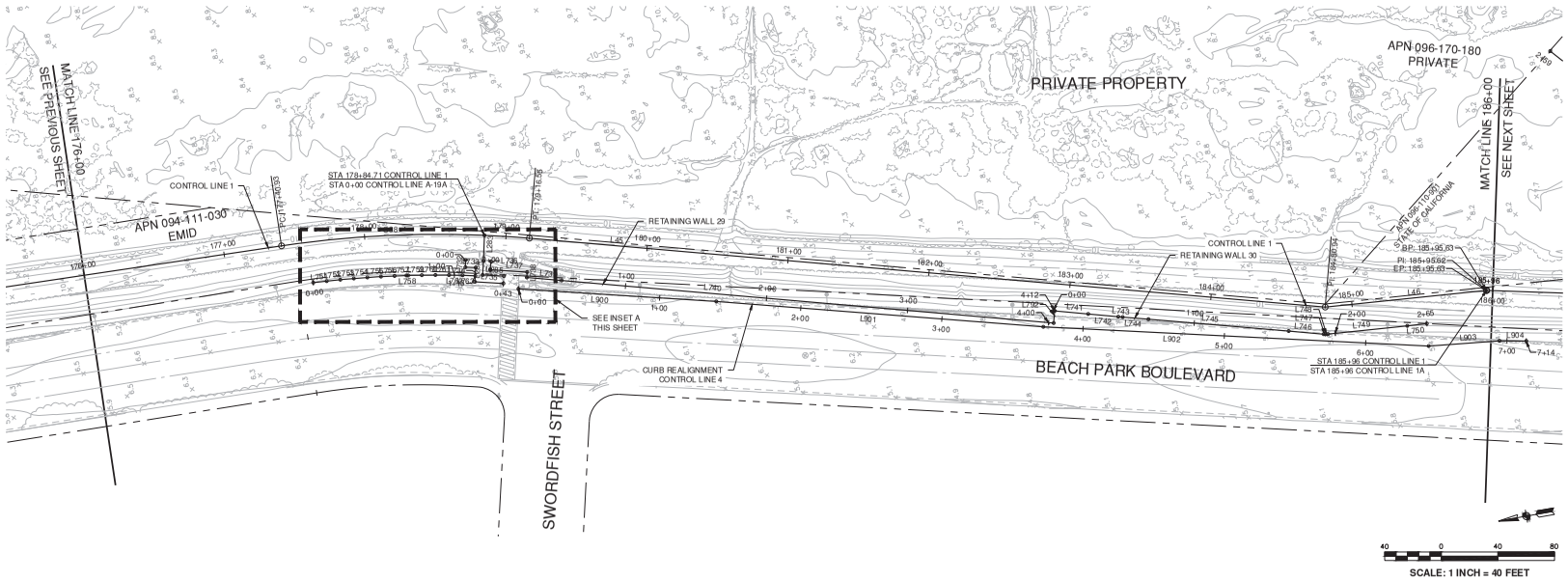

SCALE: 1 INCH = 40 FEET

NOTES:

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L45	564.40	S15° 02' 48.73"W	N2030145.10, E6055119.79	N2029600.05, E6054973.26
L46	114.67	S4° 11' 38.81"W	N2029600.05, E6054973.26	N2029485.69, E6054964.88

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C68	750.00	175.62	13°24'58.64"	N2030318.46, E6055145.20	N2030145.10, E6055119.79

LINE TABLE: CONTROL LINE 19A

LINE #	LENGTH	BEARING	START POINT	END POINT
L283	18.13	N77° 54' 02.93"W	N2030176.01, E6055127.40	N2030179.81, E6055109.67
L284	9.88	N76° 26' 18.05"W	N2030179.81, E6055109.67	N2030182.12, E6055100.07
L285	15.00	S13° 33' 20.69"W	N2030182.12, E6055100.07	N2030167.54, E6055096.56

LINE TABLE: RETAINING WALL 26

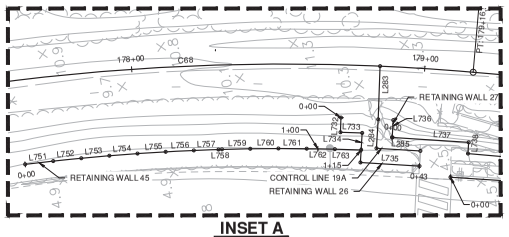
LINE #	LENGTH	BEARING	START POINT	END POINT
L732	5.00	N78° 04' 24.69"W	N2030192.19, E6055112.47	N2030193.22, E6055107.58
L733	7.39	S11° 55' 35.31"W	N2030193.22, E6055107.58	N2030185.99, E6055106.05
L734	10.07	N76° 26' 47.53"W	N2030185.99, E6055106.05	N2030188.36, E6055096.26
L735	20.17	S13° 33' 20.69"W	N2030188.36, E6055096.26	N2030168.75, E6055091.53

LINE TABLE: RETAINING WALL 29

LINE #	LENGTH	BEARING	START POINT	END POINT
L737	26.14	S13° 45' 23.61"W	N2030176.19, E6055102.75	N2030150.80, E6055096.54
L738	3.85	N76° 19' 39.82"W	N2030150.80, E6055096.54	N2030151.71, E6055092.80
L739	24.65	S15° 02' 48.79"W	N2030151.71, E6055092.80	N2030127.90, E6055086.40
L740	348.99	S15° 02' 48.79"W	N2030127.90, E6055086.40	N2029790.87, E6054995.80
L792	8.62	S74° 57' 11.13"E	N2029790.87, E6054995.80	N2029788.64, E6055004.12

LINE TABLE: RETAINING WALL 45

LINE #	LENGTH	BEARING	START POINT	END POINT
L751	9.62	S3° 28' 06.30"W	N2030300.97, E6055115.68	N2030291.37, E6055115.09
L752	9.62	S4° 13' 56.49"W	N2030291.37, E6055115.09	N2030281.78, E6055114.38
L753	9.62	S4° 59' 46.69"W	N2030281.78, E6055114.38	N2030272.21, E6055113.55
L754	9.62	S5° 45' 36.89"W	N2030272.21, E6055113.55	N2030262.64, E6055112.58
L755	9.62	S6° 31' 27.09"W	N2030262.64, E6055112.58	N2030253.08, E6055111.49
L756	9.62	S7° 17' 17.28"W	N2030253.08, E6055111.49	N2030243.54, E6055110.27
L757	8.42	S8° 00' 15.90"W	N2030243.54, E6055110.27	N2030235.21, E6055109.10
L758	1.20	S8° 23' 10.99"W	N2030235.21, E6055109.10	N2030234.02, E6055108.92
L759	9.62	S8° 48' 57.68"W	N2030234.02, E6055108.92	N2030224.52, E6055107.45
L760	9.62	S9° 34' 47.88"W	N2030224.52, E6055107.45	N2030215.04, E6055105.85
L761	9.62	S10° 20' 38.07"W	N2030215.04, E6055105.85	N2030205.58, E6055104.12
L762	9.62	S11° 06' 28.27"W	N2030205.58, E6055104.12	N2030196.14, E6055102.27
L763	8.98	S11° 52' 18.47"W	N2030196.14, E6055102.27	N2030187.35, E6055100.42



INSET A

SCALE: 1" = 20'

LINE TABLE: RETAINING WALL 27

LINE #	LENGTH	BEARING	START POINT	END POINT
L736	5.91	N76° 11' 29.14"W	N2030174.78, E6055108.49	N2030176.19, E6055102.75

LINE TABLE: RETAINING WALL 30

LINE #	LENGTH	BEARING	START POINT	END POINT
L741	24.76	S15° 19' 42.69"W	N2029789.60, E6055004.38	N2029765.73, E6054997.84
L742	21.34	S15° 20' 13.93"W	N2029765.73, E6054997.84	N2029745.15, E6054992.19
L743	3.10	S15° 20' 13.93"W	N2029745.15, E6054992.19	N2029742.16, E6054991.37
L744	18.24	S14° 39' 28.38"W	N2029742.16, E6054991.37	N2029724.51, E6054986.76
L745	99.47	S14° 56' 25.18"W	N2029724.51, E6054986.76	N2029628.41, E6054961.11
L746	24.80	S15° 11' 17.22"W	N2029628.41, E6054961.11	N2029604.47, E6054954.62
L747	1.25	S15° 02' 48.73"W	N2029604.47, E6054954.62	N2029603.27, E6054954.29
L748	1.82	S4° 11' 38.81"W	N2029603.27, E6054954.29	N2029601.46, E6054954.16
L749	56.38	S4° 11' 38.81"W	N2029601.46, E6054954.16	N2029545.23, E6054950.04
L750	13.86	S3° 28' 28.82"W	N2029545.23, E6054950.04	N2029531.40, E6054949.20

LINE TABLE: CONTROL LINE 4

LINE #	LENGTH	BEARING	START POINT	END POINT
L900	140.09	S13° 44' 32.07"W	N2030159.00, E6055085.93	N2030022.92, E6055052.65
L901	231.75	S14° 32' 23.94"W	N2030022.92, E6055052.65	N2029798.59, E6054994.46
L902	272.65	S12° 57' 24.24"W	N2029798.59, E6054994.46	N2029532.88, E6054933.33
L903	50.16	S5° 54' 23.20"W	N2029532.88, E6054933.33	N2029482.98, E6054928.17

SCALE VERIFICATION

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SHEET
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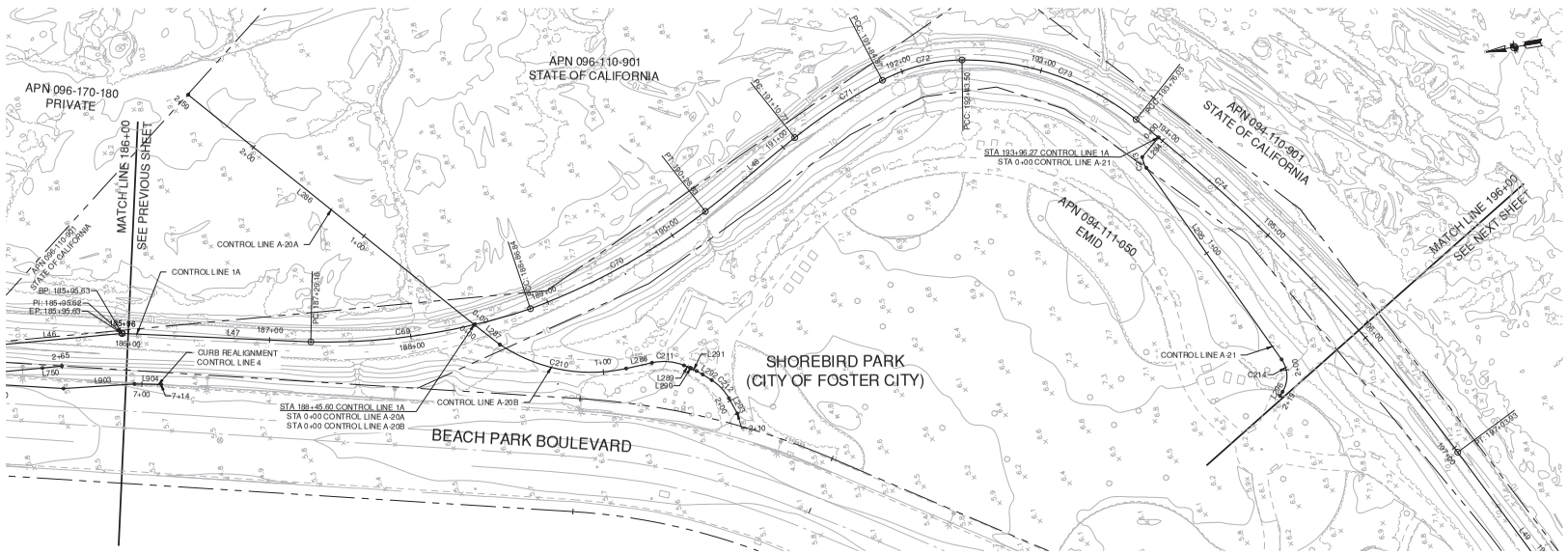

NOTES:

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LINE TABLE: CONTROL LINE 1A

LINE #	LENGTH	BEARING	START POINT	END POINT
L47	133.53	S12° 06' 26.14"W	N2029485.69, E6054964.88	N2029355.13, E6054936.87
L48	81.93	S29° 58' 29.02"E	N2029064.97, E6054981.70	N2028994.00, E6055022.63

LINE TABLE: CONTROL LINE 4

LINE #	LENGTH	BEARING	START POINT	END POINT
L904	18.97	S10° 28' 35.12"W	N2029482.98, E6054928.17	N2029464.33, E6054924.72

CURVE TABLE: CONTROL LINE 1A

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C69	460.70	157.68	19°36'36.75"	N2029355.13, E6054936.87	N2029198.24, E6054934.33
C70	460.92	142.00	17°39'04.57"	N2029198.24, E6054934.33	N2029064.97, E6054981.70
C71	394.00	74.10	10°46'31.13"	N2028994.00, E6055022.63	N2028926.24, E6055052.35
C72	124.00	58.63	27°05'27.54"	N2028926.24, E6055052.35	N2028868.35, E6055057.16
C73	194.00	132.53	39°08'29.00"	N2028868.35, E6055057.16	N2028753.99, E6054995.41
C74	1244.00	327.91	15°06'09.31"	N2028753.99, E6054995.41	N2028568.75, E6054725.98

LINE TABLE: CONTROL LINE A-21

LINE #	LENGTH	BEARING	START POINT	END POINT
L294	18.00	N41° 07' 43.00"W	N2028740.55, E6054980.27	N2028754.11, E6054968.43
L295	165.61	S64° 17' 03.59"W	N2028752.53, E6054960.44	N2028680.67, E6054811.23
L296	3.41	N48° 44' 43.82"W	N2028683.76, E6054788.58	N2028686.01, E6054786.01

CURVE TABLE: CONTROL LINE A-21

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C213	19.28	8.20	24°22'48.90"	N2028754.11, E6054968.43	N2028752.53, E6054960.44
C214	20.72	24.22	66°59'08.39"	N2028680.67, E6054811.23	N2028683.76, E6054788.58

LINE TABLE: CONTROL LINE A-20A

LINE #	LENGTH	BEARING	START POINT	END POINT
L286	259.34	N48° 17' 19.24"E	N2029239.18, E6054929.80	N2029411.74, E6055123.40

LINE TABLE: CONTROL LINE A-20B

LINE #	LENGTH	BEARING	START POINT	END POINT
L287	22.87	S47° 18' 05.54"W	N2029239.18, E6054929.80	N2029223.68, E6054913.00
L288	18.72	S2° 58' 59.83"E	N2029138.48, E6054881.51	N2029119.78, E6054882.48
L289	4.44	S31° 26' 09.94"W	N2029097.80, E6054876.91	N2029094.01, E6054874.59
L290	1.25	S34° 19' 01.09"W	N2029094.01, E6054874.59	N2029092.98, E6054873.89
L291	4.04	S35° 09' 00.64"W	N2029092.98, E6054873.89	N2029089.67, E6054871.56
L292	7.51	S41° 51' 39.53"W	N2029085.82, E6054868.43	N2029080.23, E6054863.42
L293	12.35	S70° 12' 44.71"W	N2029070.38, E6054848.79	N2029066.20, E6054837.17

CURVE TABLE: CONTROL LINE A-20B

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C210	114.97	93.37	46°32'00.28"	N2029223.68, E6054913.00	N2029138.48, E6054881.51
C211	38.34	23.03	34°25'09.77"	N2029119.78, E6054882.48	N2029097.80, E6054876.91
C212	36.00	17.81	28°21'05.18"	N2029080.23, E6054863.42	N2029070.38, E6054848.79

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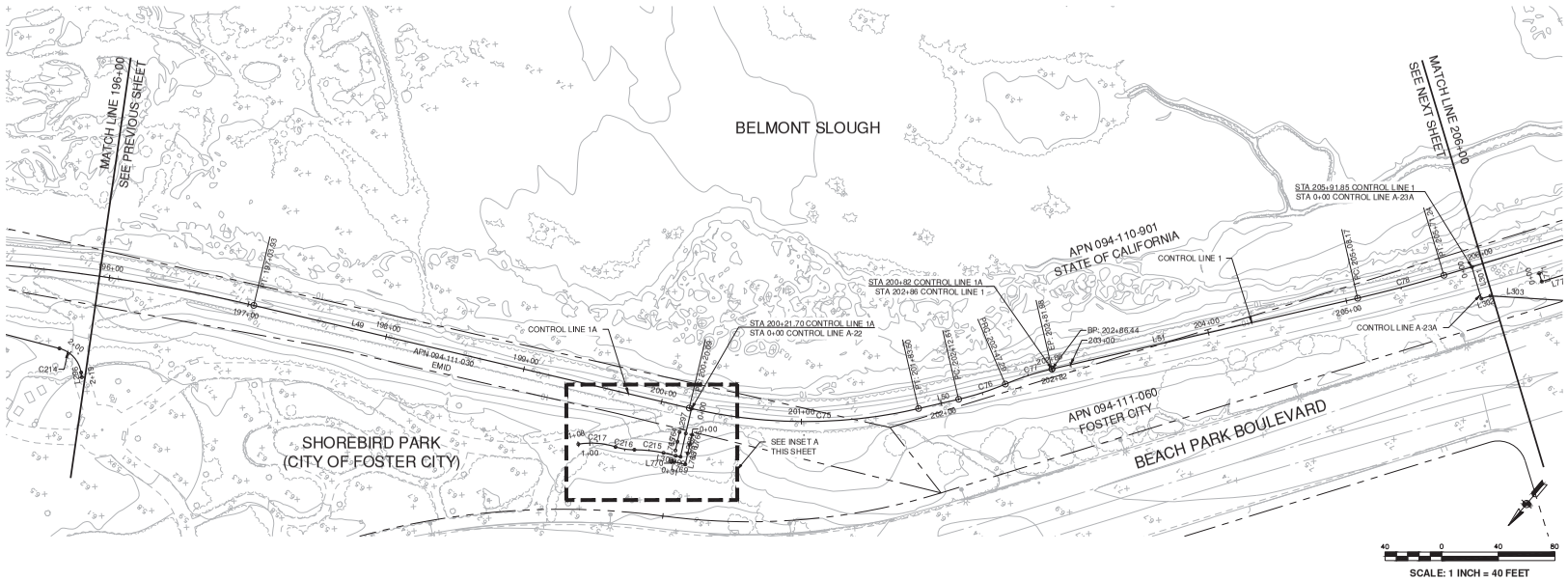

SCALE: 1 INCH = 40 FEET

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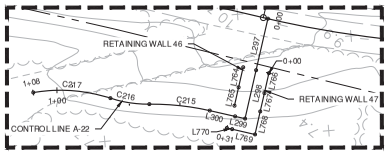

INSET A
SCALE: 1" = 20'

LINE TABLE: CONTROL LINE 1A

LINE #	LENGTH	BEARING	START POINT	END POINT
L49	316.16	S63° 02' 29.32"W	N2028568.75, E6054725.98	N2028425.42, E6054444.18
L50	29.11	S36° 44' 33.21"W	N2028321.07, E6054320.30	N2028297.75, E6054302.88

CURVE TABLE: CONTROL LINE 1A

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C75	356.00	163.40	26°17'56.11"	N2028425.42, E6054444.18	N2028321.07, E6054320.30
C76	200.00	34.68	9°56'10.92"	N2028297.75, E6054302.88	N2028268.30, E6054284.64
C77	200.00	34.68	9°56'10.92"	N2028268.30, E6054284.64	N2028238.85, E6054266.40

LINE TABLE: CONTROL LINE A-22

LINE #	LENGTH	BEARING	START POINT	END POINT
L297	18.00	N27° 13' 03.03"W	N2028424.69, E6054442.75	N2028440.70, E6054434.51
L298	16.91	N27° 26' 50.53"W	N2028440.70, E6054434.51	N2028455.71, E6054426.72
L299	3.50	N62° 33' 09.47"E	N2028455.71, E6054426.72	N2028457.32, E6054429.82
L300	8.83	N62° 33' 09.47"E	N2028457.32, E6054429.82	N2028461.39, E6054437.66

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L51	221.73	S36° 44' 33.21"W	N2028238.85, E6054266.40	N2028061.17, E6054133.76

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C78	1000.00	63.06	3°36'47.89"	N2028061.17, E6054133.76	N2028009.48, E6054097.65

CURVE TABLE: CONTROL LINE A-22

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C215	88.84	20.76	13°23'19.72"	N2028461.39, E6054437.66	N2028473.02, E6054454.81
C216	41.19	13.49	18°45'53.19"	N2028473.02, E6054454.81	N2028480.02, E6054466.27
C217	55.48	26.64	27°30'42.89"	N2028480.02, E6054466.27	N2028495.56, E6054487.59

LINE TABLE: CONTROL LINE A-23A

LINE #	LENGTH	BEARING	START POINT	END POINT
L301	23.29	N56° 52' 14.68"W	N2027992.21, E6054086.38	N2028004.94, E6054066.87
L302	6.69	S33° 07' 45.32"W	N2028004.94, E6054066.87	N2027999.34, E6054063.22

LINE TABLE: RETAINING WALL 46

LINE #	LENGTH	BEARING	START POINT	END POINT
L764	7.00	N27° 26' 50.53"W	N2028442.77, E6054438.51	N2028448.98, E6054435.28
L765	6.42	N27° 26' 50.53"W	N2028448.98, E6054435.28	N2028454.68, E6054432.32

LINE TABLE: RETAINING WALL 47

LINE #	LENGTH	BEARING	START POINT	END POINT
L766	7.00	N27° 26' 50.53"W	N2028438.62, E6054430.52	N2028444.83, E6054427.30
L767	6.42	N27° 26' 50.53"W	N2028444.83, E6054427.30	N2028450.53, E6054424.34
L768	8.00	N27° 26' 50.53"W	N2028450.53, E6054424.34	N2028457.63, E6054420.65
L769	8.00	N62° 33' 09.47"E	N2028457.63, E6054420.65	N2028461.31, E6054427.75
L770	1.83	N62° 33' 09.47"E	N2028461.31, E6054427.75	N2028462.16, E6054429.38

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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CONSULTING CIVIL ENGINEERS
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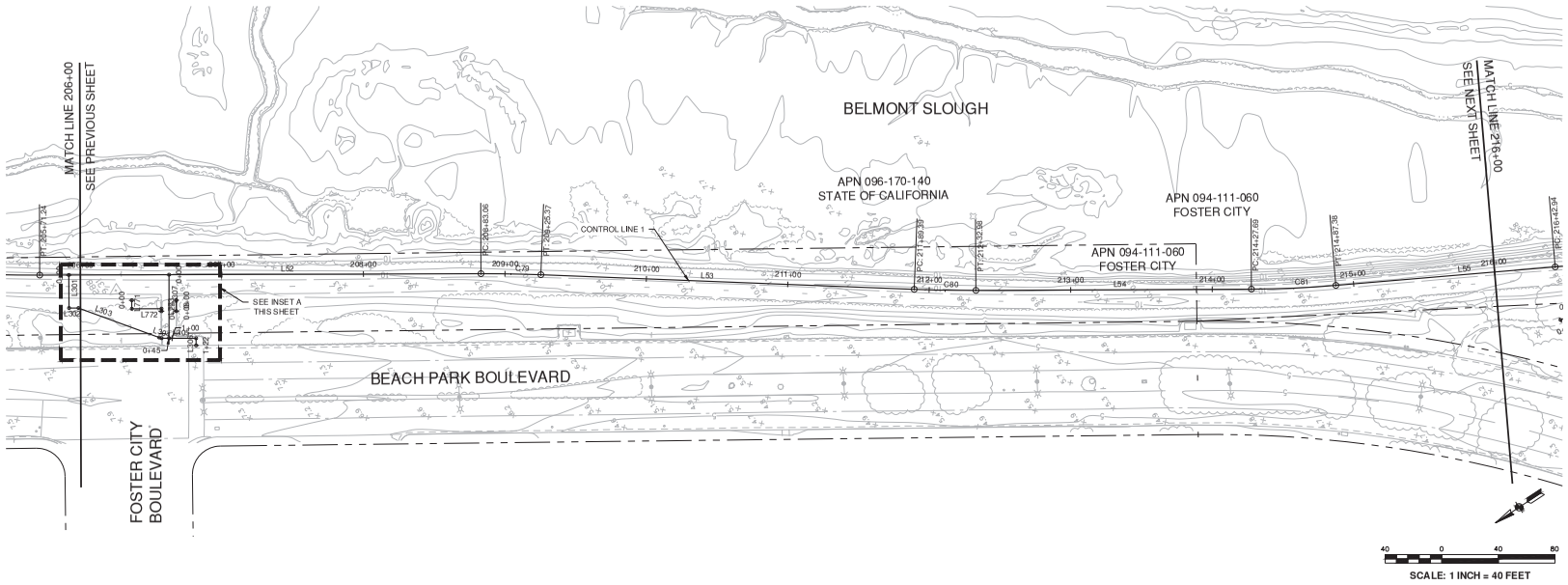
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 21
SHEET 027 OF 384

CIP PROJ. NUMBER
CIP 301-657



NOTES:

1. SEE SHEET PILE INSTALLATION AND GRADING PLANS (SPG) FOR PLAN AND PROFILE INFORMATION. SEE DEMOLITION PLAN AND UTILITY SHEETS (DU) FOR DEMOLITION INFORMATION. SEE WALL SHEETS (W) FOR FLOODWALL AND RETAINING WALL LAYOUT AND DETAILS. SEE CROSS SECTION SHEETS (CX) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS) FOR PAVING AND STRIPING DETAILS.
2. COORDINATES ARE CALIFORNIA STATE PLANE, ZONE 3.
3. ALL ELEVATIONS ARE GIVEN ON NAVD 88 (2011).

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L52	311.82	S33° 07' 45.32"W	N2028009.48, E6054097.65	N2027748.35, E6053927.23
L53	264.02	S35° 33' 12.99"W	N2027713.41, E6053903.36	N2027498.61, E6053749.84
L54	194.71	S33° 03' 22.65"W	N2027462.61, E6053725.28	N2027299.42, E6053619.07
L55	155.56	S28° 29' 46.66"W	N2027248.15, E6053588.54	N2027111.43, E6053514.32

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C79	1000.00	42.31	2°25'27.66"	N2027748.35, E6053927.23	N2027713.41, E6053903.36
C80	1000.00	43.59	2°29'50.33"	N2027498.61, E6053749.84	N2027462.61, E6053725.28
C81	750.00	59.69	4°33'35.99"	N2027299.42, E6053619.07	N2027248.15, E6053588.54

LINE TABLE: RETAINING WALL 31

LINE #	LENGTH	BEARING	START POINT	END POINT
L771	6.00	N56° 52' 14.68"W	N2027964.90, E6054047.06	N2027968.18, E6054042.04
L772	21.00	S33° 07' 45.32"W	N2027968.18, E6054042.04	N2027950.59, E6054030.56

LINE TABLE: CONTROL LINE A-23A

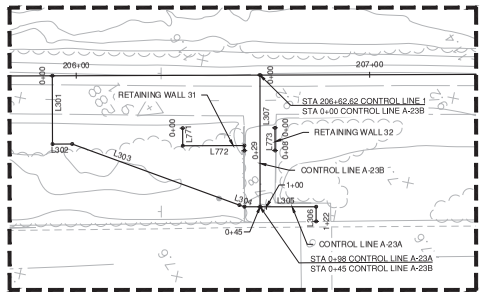
LINE #	LENGTH	BEARING	START POINT	END POINT
L303	60.68	S53° 24' 00.43"W	N2027999.34, E6054063.22	N2027963.16, E6054014.50
L304	1.81	S50° 59' 33.90"W	N2027963.16, E6054014.50	N2027962.02, E6054013.10
L305	24.41	S33° 21' 46.00"W	N2027962.02, E6054013.10	N2027941.64, E6053999.67
L306	5.01	N56° 44' 34.91"W	N2027941.64, E6053999.67	N2027944.39, E6053995.48

LINE TABLE: CONTROL LINE A-23B

LINE #	LENGTH	BEARING	START POINT	END POINT
L307	44.89	N56° 43' 51.06"W	N2027932.95, E6054047.71	N2027957.58, E6054010.17

LINE TABLE: RETAINING WALL 32

LINE #	LENGTH	BEARING	START POINT	END POINT
L773	7.75	N56° 52' 14.68"W	N2027938.56, E6054029.87	N2027942.79, E6054023.38



INSET A
SCALE: 1" = 20'

SCALE VERIFICATION

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SHEET
SCL 22
SHEET 028 OF 384
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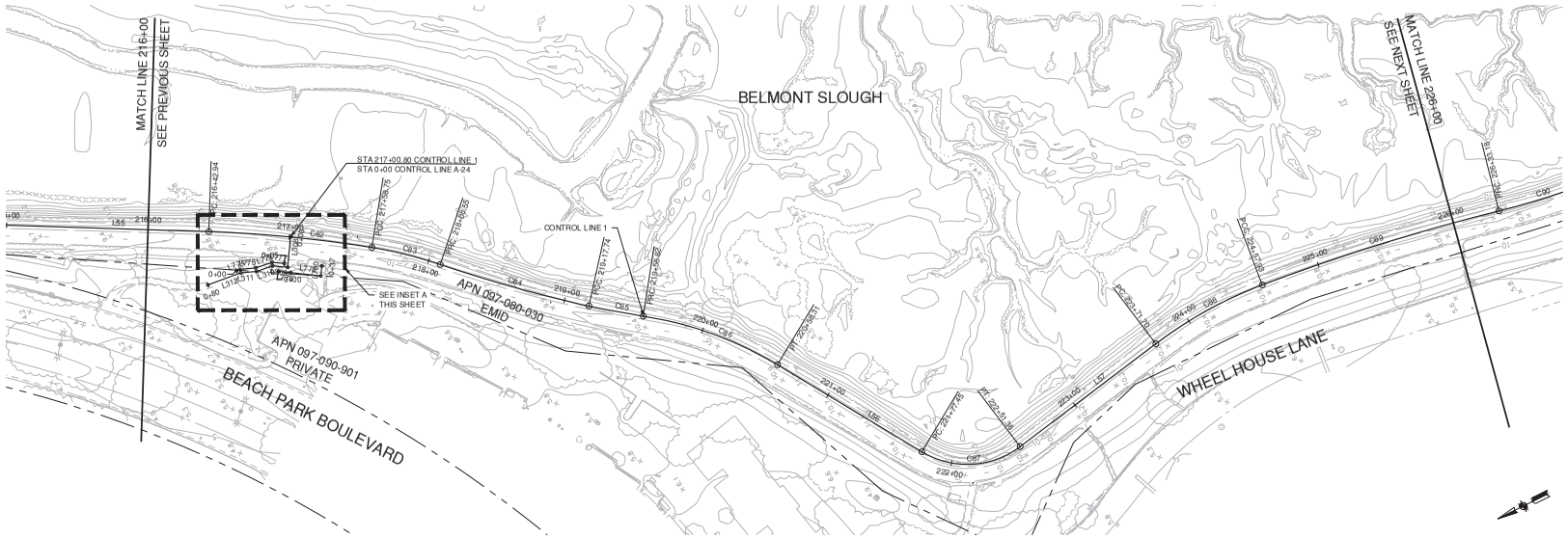

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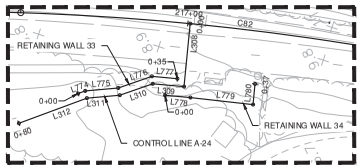
40 0 40 80

SCALE: 1 INCH = 40 FEET



INSET A

SCALE: 1" = 20'

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L56	119.13	S57° 45' 32.14"W	N2026794.52, E6053250.01	N2026730.97, E6053149.24
L57	120.34	S10° 32' 28.99"E	N2026667.19, E6053121.36	N2026548.87, E6053143.38

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C82	900.00	115.81	7°22'22.64"	N2027111.43, E6053514.32	N2027013.48, E6053452.68
C83	300.00	49.80	9°30'39.99"	N2027013.48, E6053452.68	N2026975.73, E6053420.29
C84	1000.00	109.19	6°15'21.34"	N2026975.73, E6053420.29	N2026894.95, E6053346.91
C85	600.00	39.08	3°43'54.96"	N2026894.95, E6053346.91	N2026863.85, E6053323.25
C86	260.00	101.50	22°21'59.16"	N2026863.85, E6053323.25	N2026794.52, E6053250.01
C87	62.00	73.91	68°18'01.14"	N2026730.97, E6053149.24	N2026667.19, E6053121.36
C88	300.00	86.23	16°28'08.31"	N2026548.87, E6053143.38	N2026463.01, E6053146.84
C89	1500.00	175.25	6°41'38.74"	N2026463.01, E6053146.84	N2026290.15, E6053118.61

LINE TABLE: CONTROL LINE A-24

LINE #	LENGTH	BEARING	START POINT	END POINT
L308	21.56	N57° 49' 11.39"W	N2027061.50, E6053485.10	N2027072.98, E6053466.85
L309	10.71	N31° 53' 19.95"E	N2027072.98, E6053466.85	N2027082.07, E6053472.50
L310	11.88	N7° 29' 10.11"E	N2027082.07, E6053472.50	N2027093.86, E6053474.05
L311	11.31	N21° 33' 08.02"E	N2027093.86, E6053474.05	N2027104.37, E6053478.20
L312	24.68	N6° 23' 50.19"E	N2027104.37, E6053478.20	N2027128.90, E6053480.95

LINE TABLE: RETAINING WALL 33

LINE #	LENGTH	BEARING	START POINT	END POINT
L774	2.60	S6° 23' 50.19"W	N2027106.34, E6053480.94	N2027103.76, E6053480.65
L775	11.33	S21° 33' 08.02"W	N2027103.76, E6053480.65	N2027093.22, E6053476.49
L776	12.11	S7° 29' 10.11"W	N2027093.22, E6053476.49	N2027081.21, E6053474.91
L777	8.75	S31° 53' 19.95"W	N2027081.21, E6053474.91	N2027073.79, E6053470.29

LINE TABLE: RETAINING WALL 34

LINE #	LENGTH	BEARING	START POINT	END POINT
L778	8.65	S31° 53' 14.82"W	N2027080.07, E6053467.13	N2027072.73, E6053462.56
L779	21.51	S33° 04' 39.85"W	N2027072.73, E6053462.56	N2027054.70, E6053450.82
L780	7.07	S58° 05' 13.63"E	N2027054.70, E6053450.82	N2027050.97, E6053456.83

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0 1"

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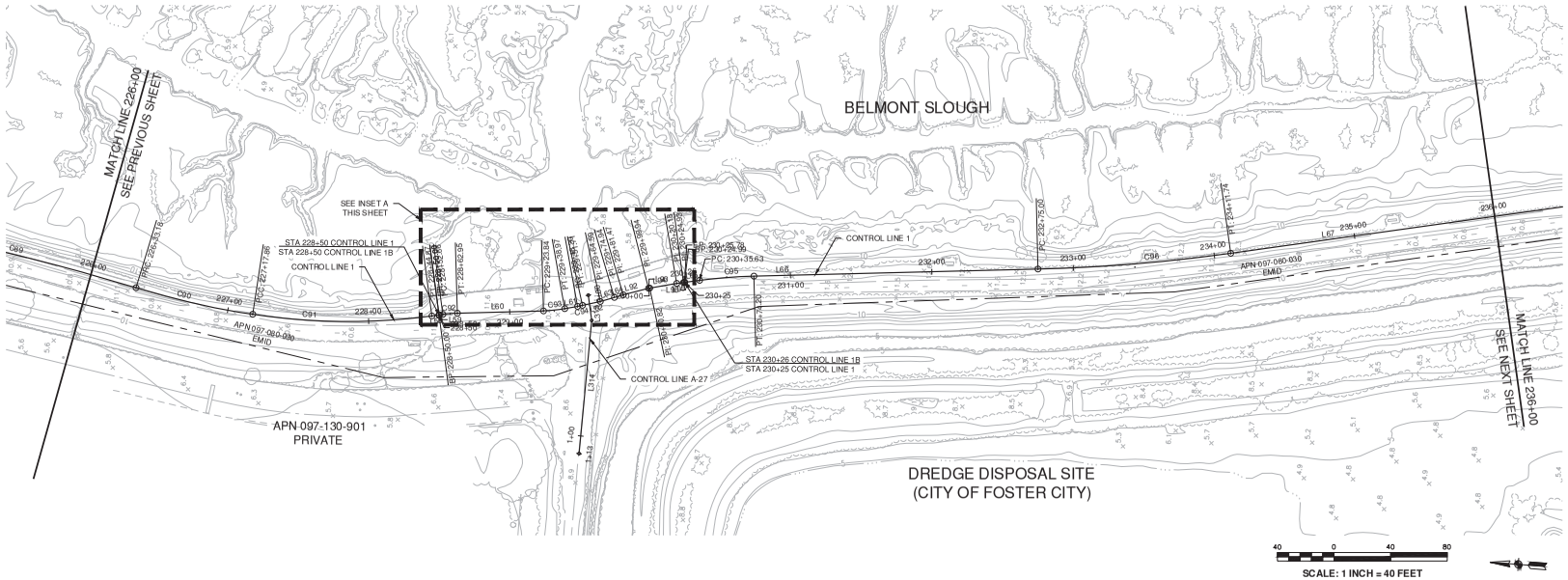
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 23
SHEET 029 OF 384

CIP PROJ. NUMBER
CIP 301-657



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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L58	5.13	S11° 54' 53.66"E	N2026080.15, E6053114.65	N2026075.13, E6053115.71
L65	10.64	S11° 54' 53.66"E	N2025903.91, E6053151.84	N2025893.50, E6053154.03
L66	200.80	S5° 46' 37.73"E	N2025855.41, E6053159.96	N2025655.63, E6053180.17
L67	398.37	S12° 18' 21.94"E	N2025520.66, E6053201.65	N2025131.44, E6053286.56

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C90	580.00	84.68	8°21'54.59"	N2026290.15, E6053118.61	N2026206.46, E6053106.19
C91	450.00	127.01	16°10'17.13"	N2026206.46, E6053106.19	N2026080.15, E6053114.65
C95	360.00	38.56	6°08'15.93"	N2025893.50, E6053154.03	N2025855.41, E6053159.96
C96	1200.00	136.74	6°31'44.21"	N2025655.63, E6053180.17	N2025520.66, E6053201.65

LINE TABLE: CONTROL LINE A-27

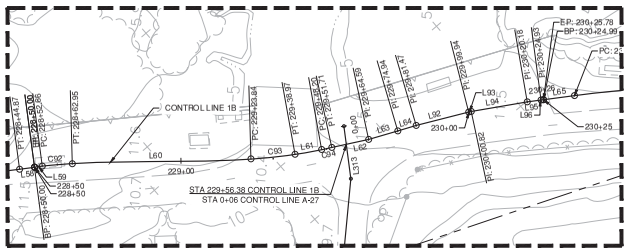
LINE #	LENGTH	BEARING	START POINT	END POINT
L313	18.05	S78° 05' 06.34"W	N2025971.04, E6053137.67	N2025967.32, E6053120.01
L314	94.49	N88° 55' 50.43"W	N2025967.32, E6053120.01	N2025969.08, E6053025.54

LINE TABLE: CONTROL LINE 1B

LINE #	LENGTH	BEARING	START POINT	END POINT
L59	2.66	S11° 48' 59.18"E	N2026075.14, E6053115.76	N2026072.54, E6053116.30
L60	60.89	S5° 55' 05.63"E	N2026062.37, E6053117.89	N2026001.81, E6053124.17
L61	9.23	S14° 34' 57.66"E	N2025986.94, E6053126.85	N2025978.00, E6053129.18
L62	12.88	S16° 35' 33.14"E	N2025974.63, E6053130.12	N2025962.28, E6053133.80
L63	10.35	S20° 47' 22.52"E	N2025962.28, E6053133.80	N2025952.60, E6053137.47
L64	6.53	S20° 47' 22.52"E	N2025952.60, E6053137.47	N2025946.50, E6053139.79
L92	18.47	S18° 40' 22.11"E	N2025946.50, E6053139.79	N2025929.01, E6053145.70
L93	0.89	S16° 27' 14.90"E	N2025929.01, E6053145.70	N2025928.15, E6053145.95
L94	19.36	S14° 08' 00.88"E	N2025928.15, E6053145.95	N2025909.38, E6053150.68
L95	4.75	S11° 54' 53.66"E	N2025909.38, E6053150.68	N2025904.73, E6053151.66
L96	4.75	S11° 54' 53.66"E	N2025909.38, E6053150.68	N2025904.73, E6053151.66

CURVE TABLE: CONTROL LINE 1B

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C92	100.00	10.29	5°53'53.55"	N2026072.54, E6053116.30	N2026062.37, E6053117.89
C93	100.00	15.12	8°39'52.04"	N2026001.81, E6053124.17	N2025986.94, E6053126.85
C94	100.00	3.51	2°00'35.48"	N2025978.00, E6053129.18	N2025974.63, E6053130.12



INSET A
SCALE: 1" = 20'

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SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 24
SHEET 030 OF 384
CIP PROJ. NUMBER
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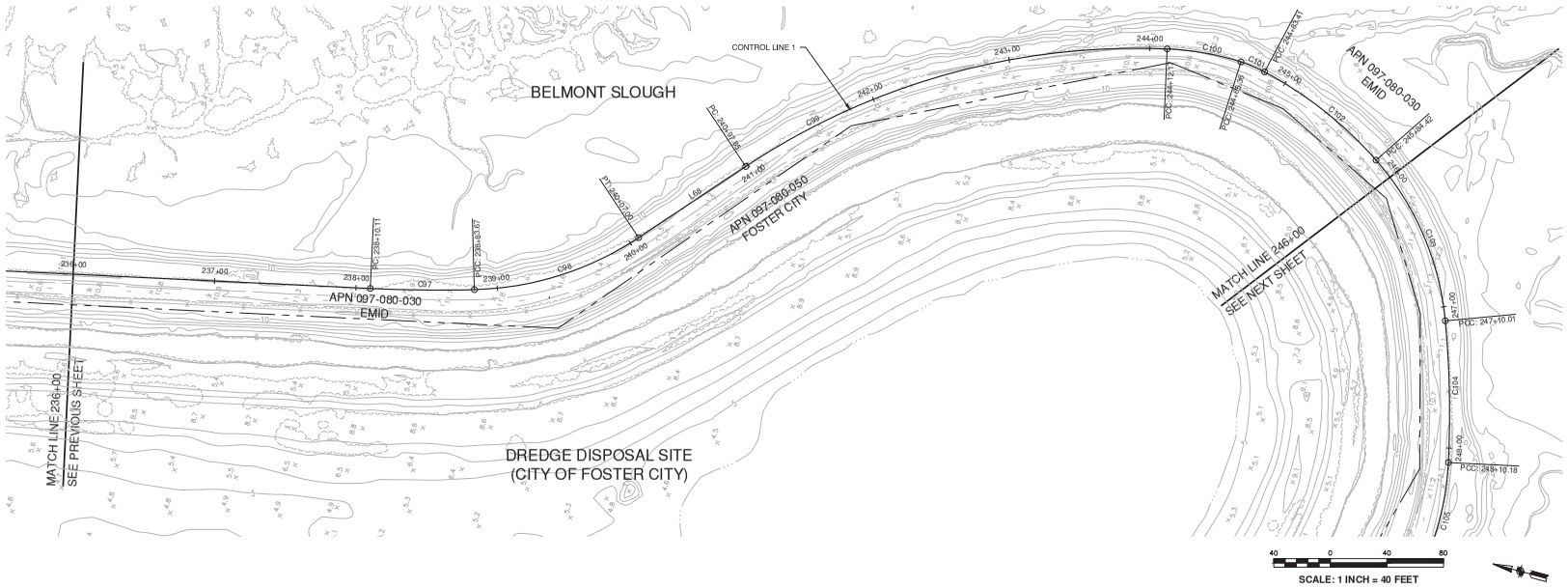

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L68	90.84	S48° 38' 30.74"E	N2024957.65, E6053370.41	N2024897.62, E6053438.60

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C97	1000.00	73.56	4°12'52.41"	N2025131.44, E6053286.56	N2025060.22, E6053304.86
C98	220.00	123.34	32°07'16.39"	N2025060.22, E6053304.86	N2024957.65, E6053370.41
C99	500.00	314.32	36°01'05.41"	N2024897.62, E6053438.60	N2024631.60, E6053596.13
C100	200.00	53.20	15°14'23.17"	N2024631.60, E6053596.13	N2024578.76, E6053600.76
C101	100.00	18.05	10°20'29.73"	N2024578.76, E6053600.76	N2024560.90, E6053598.31
C102	280.00	101.01	20°40'07.71"	N2024560.90, E6053598.31	N2024468.63, E6053558.59

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SHEET
SCL 25
SHEET 031 OF 384

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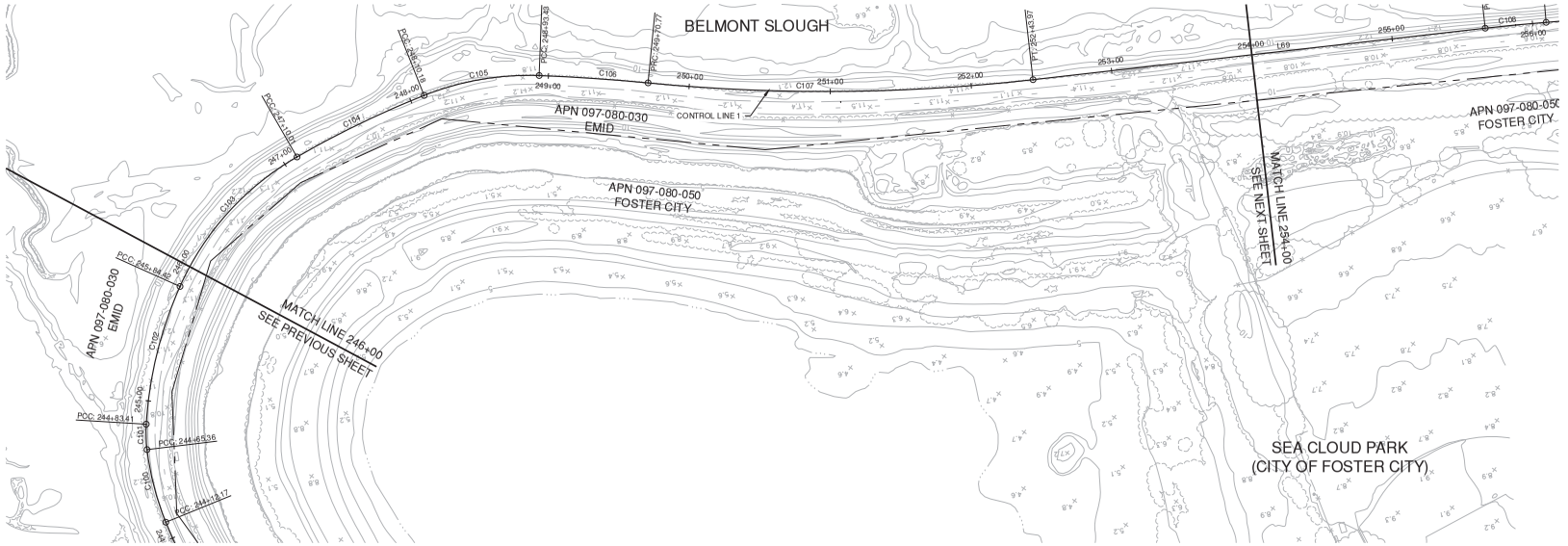

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CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C103	200.00	125.60	35°58'49.48"	N2024468.63, E6053558.59	N2024391.92, E6053461.75
C104	700.00	100.17	8°11'55.42"	N2024391.92, E6053461.75	N2024363.84, E6053365.69
C105	200.00	83.25	23°50'54.26"	N2024363.84, E6053365.69	N2024363.45, E6053283.04
C106	1300.00	77.34	3°24'30.77"	N2024363.45, E6053283.04	N2024381.31, E6053207.81
C107	1300.00	273.20	12°02'28.13"	N2024381.31, E6053207.81	N2024424.17, E6052938.49

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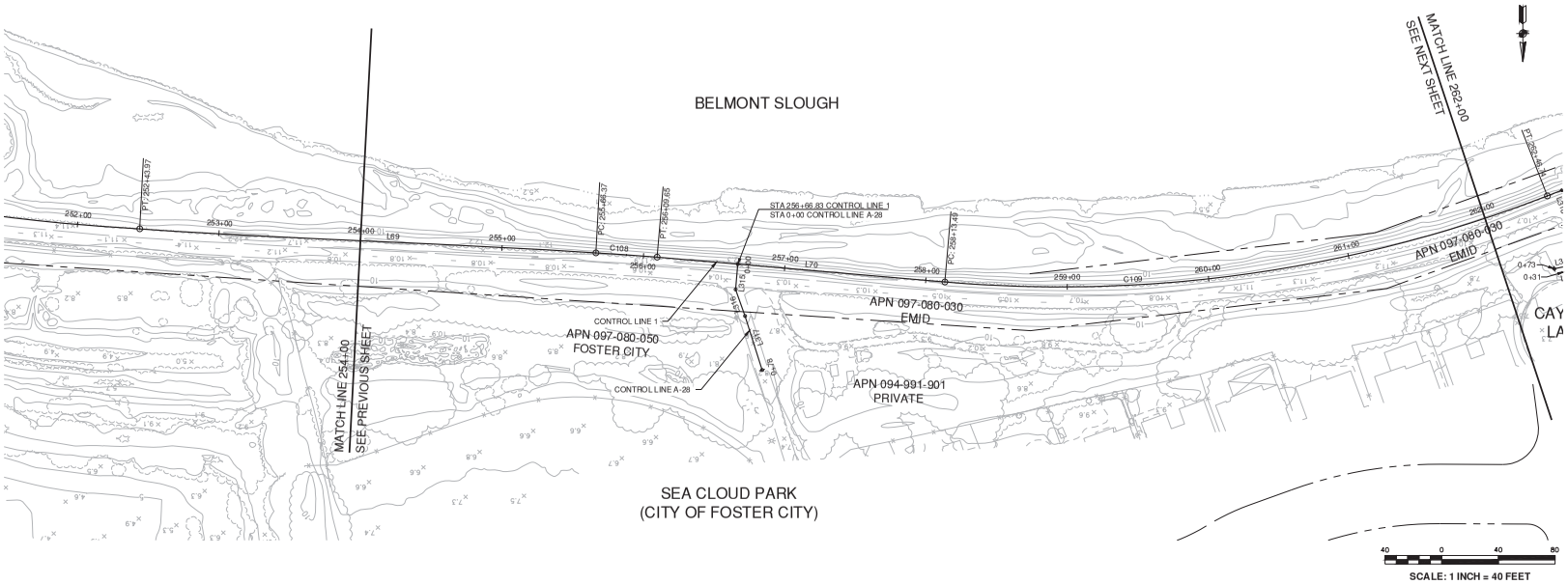
SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 26
SHEET 032 OF 384

CIP PROJ. NUMBER
CIP 301-657



NOTES:

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L69	322.40	N86° 58' 42.91"W	N2024424.17, E6052938.49	N2024441.16, E6052616.54
L70	203.84	N85° 04' 15.63"W	N2024444.17, E6052573.36	N2024461.68, E6052370.28

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C108	1300.00	43.28	1°54'27.28"	N2024441.16, E6052616.54	N2024444.17, E6052573.36
C109	950.00	433.25	26°07'47.89"	N2024461.68, E6052370.28	N2024400.89, E6051945.10

LINE TABLE: CONTROL LINE A-28

LINE #	LENGTH	BEARING	START POINT	END POINT
L315	18.00	N4° 55' 44.37"E	N2024449.08, E6052516.40	N2024467.01, E6052517.95
L316	19.90	N19° 34' 41.55"W	N2024467.01, E6052517.95	N2024485.76, E6052511.28
L317	40.00	N17° 32' 20.53"W	N2024485.76, E6052511.28	N2024523.90, E6052499.23

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
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PROJECT NUMBER: FOST.12.16
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CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 27
SHEET 033 OF 384
CIP PROJ. NUMBER
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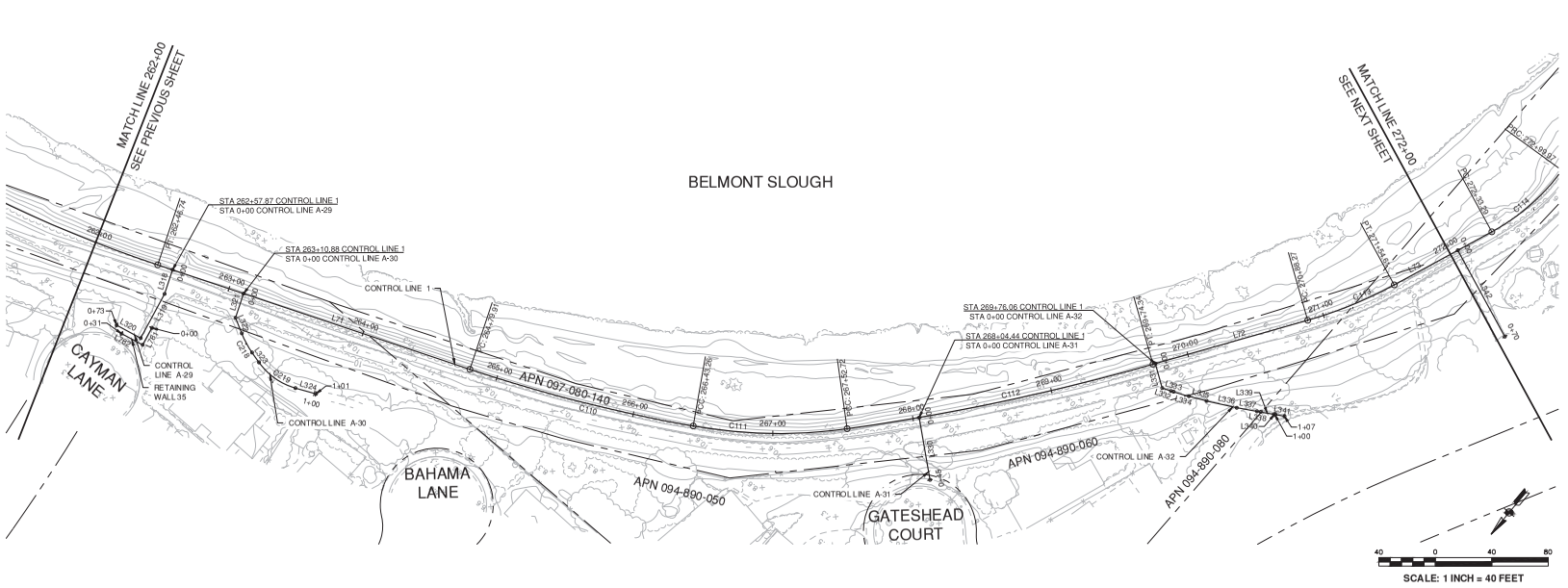

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L71	233.17	S68° 47' 56.48"W	N2024400.89, E6051945.10	N2024316.57, E6051727.71
L72	113.93	S34° 26' 08.82"W	N2024004.78, E6051357.68	N2023910.82, E6051293.26
L73	78.68	S21° 45' 54.03"W	N2023852.41, E6051262.07	N2023779.34, E6051232.90

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C110	1100.00	163.35	8°30'29.75"	N2024316.57, E6051727.71	N2024246.43, E6051580.36
C111	350.00	109.46	17°55'07.74"	N2024246.43, E6051580.36	N2024178.32, E6051495.24
C112	1600.00	221.62	7°56'10.17"	N2024178.32, E6051495.24	N2024004.78, E6051357.68
C113	300.00	66.34	12°40'14.79"	N2023910.82, E6051293.26	N2023852.41, E6051262.07

LINE TABLE: CONTROL LINE A-29

LINE #	LENGTH	BEARING	START POINT	END POINT
L318	18.00	N21° 12' 03.52"W	N2024396.87, E6051934.72	N2024413.65, E6051928.21
L319	35.61	N11° 19' 29.78"W	N2024413.65, E6051928.21	N2024448.57, E6051921.22
L320	19.35	N78° 48' 01.89"E	N2024448.57, E6051921.22	N2024452.32, E6051940.20

LINE TABLE: CONTROL LINE A-30

LINE #	LENGTH	BEARING	START POINT	END POINT
L321	18.00	N21° 12' 03.52"W	N2024377.70, E6051885.31	N2024394.48, E6051878.80
L322	11.96	N61° 18' 39.29"W	N2024394.48, E6051878.80	N2024400.22, E6051868.30
L323	8.56	N74° 46' 49.92"W	N2024405.98, E6051854.03	N2024408.23, E6051845.77
L324	15.10	S65° 50' 32.87"W	N2024405.76, E6051814.26	N2024399.58, E6051800.48

CURVE TABLE: CONTROL LINE A-30

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C218	65.63	15.43	13°28'10.63"	N2024400.22, E6051868.30	N2024405.98, E6051854.03
C219	46.90	32.23	39°22'37.21"	N2024408.23, E6051845.77	N2024405.76, E6051814.26

LINE TABLE: CONTROL LINE A-31

LINE #	LENGTH	BEARING	START POINT	END POINT
L330	44.91	N49° 30' 11.28"W	N2024139.55, E6051461.01	N2024168.71, E6051426.86

LINE TABLE: CONTROL LINE A-32

LINE #	LENGTH	BEARING	START POINT	END POINT
L331	18.00	N55° 33' 51.18"W	N2024003.36, E6051356.71	N2024013.54, E6051341.86
L332	6.52	S69° 28' 22.38"W	N2024013.54, E6051341.86	N2024011.25, E6051335.76
L333	1.98	S65° 05' 35.63"W	N2024011.25, E6051335.76	N2024010.42, E6051333.96
L334	11.22	S66° 37' 10.99"W	N2024010.42, E6051333.96	N2024005.97, E6051323.67
L335	13.03	S65° 11' 35.45"W	N2024005.97, E6051323.67	N2024000.50, E6051311.84
L336	21.88	S63° 12' 53.77"W	N2024000.50, E6051311.84	N2023990.64, E6051292.30
L337	14.54	S60° 10' 53.06"W	N2023990.64, E6051292.30	N2023983.41, E6051279.69
L338	2.65	S59° 11' 56.08"W	N2023983.41, E6051279.69	N2023982.05, E6051277.41
L339	9.43	S60° 24' 23.32"W	N2023982.05, E6051277.41	N2023977.40, E6051269.21
L340	1.18	S61° 27' 01.64"W	N2023977.40, E6051269.21	N2023976.83, E6051268.17
L341	6.58	S60° 47' 36.30"W	N2023976.83, E6051268.17	N2023973.62, E6051262.43

LINE TABLE: RETAINING WALL 35

LINE #	LENGTH	BEARING	START POINT	END POINT
L781	13.73	N11° 20' 07.24"W	N2024437.83, E6051919.80	N2024451.28, E6051917.10
L782	16.94	N78° 21' 30.83"E	N2024451.28, E6051917.10	N2024454.70, E6051933.70

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SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 28
SHEET 034 OF 384

CIP PROJ. NUMBER
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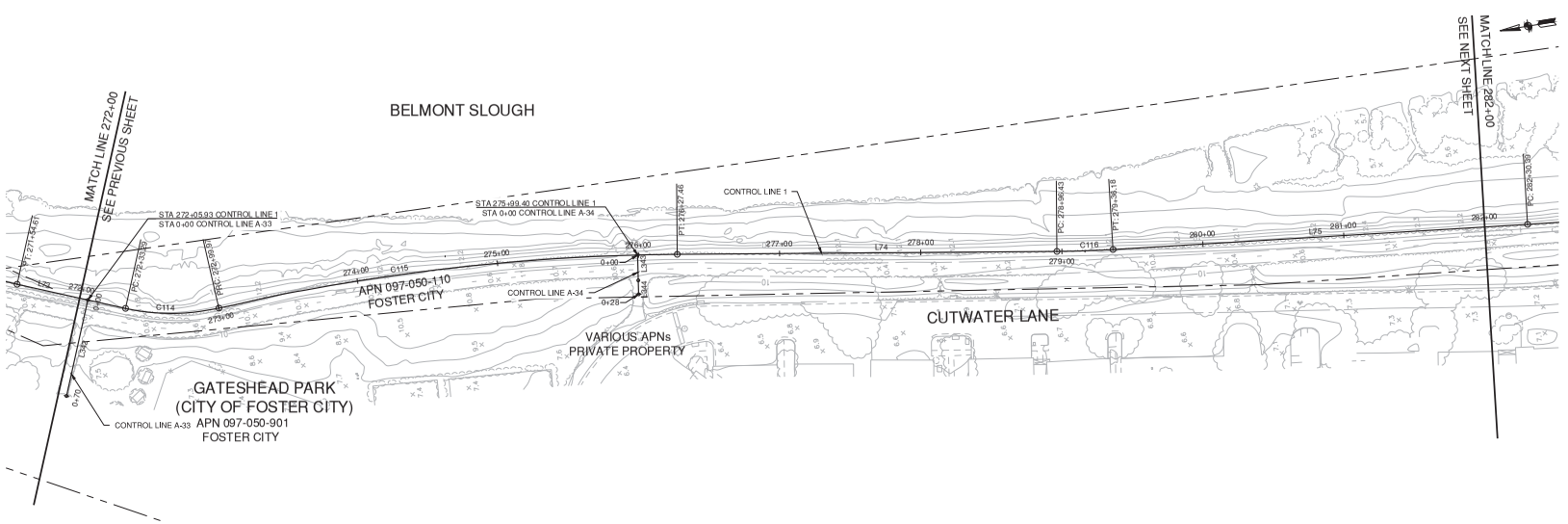

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40 0 40 80

SCALE: 1 INCH = 40 FEET

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L74	268.97	S8° 48' 12.71"W	N2023387.51, E6051207.98	N2023121.71, E6051166.82
L75	294.21	S5° 45' 58.94"W	N2023082.28, E6051161.78	N2022789.56, E6051132.22

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C114	150.00	66.68	25°28'14.08"	N2023779.34, E6051232.90	N2023714.02, E6051222.52
C115	1500.00	327.49	12°30'32.76"	N2023714.02, E6051222.52	N2023387.51, E6051207.98
C116	750.00	39.76	3°02'13.77"	N2023121.71, E6051166.82	N2023082.28, E6051161.78

LINE TABLE: CONTROL LINE A-33

LINE #	LENGTH	BEARING	START POINT	END POINT
L342	69.65	N68° 14' 05.97"W	N2023804.75, E6051243.04	N2023830.58, E6051178.36

LINE TABLE: CONTROL LINE A-34

LINE #	LENGTH	BEARING	START POINT	END POINT
L343	18.05	N82° 16' 05.43"W	N2023415.28, E6051212.02	N2023417.70, E6051194.13
L344	9.83	N82° 13' 52.72"W	N2023417.70, E6051194.13	N2023419.03, E6051184.39

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SHEET
SCL 29
SHEET 035 OF 384

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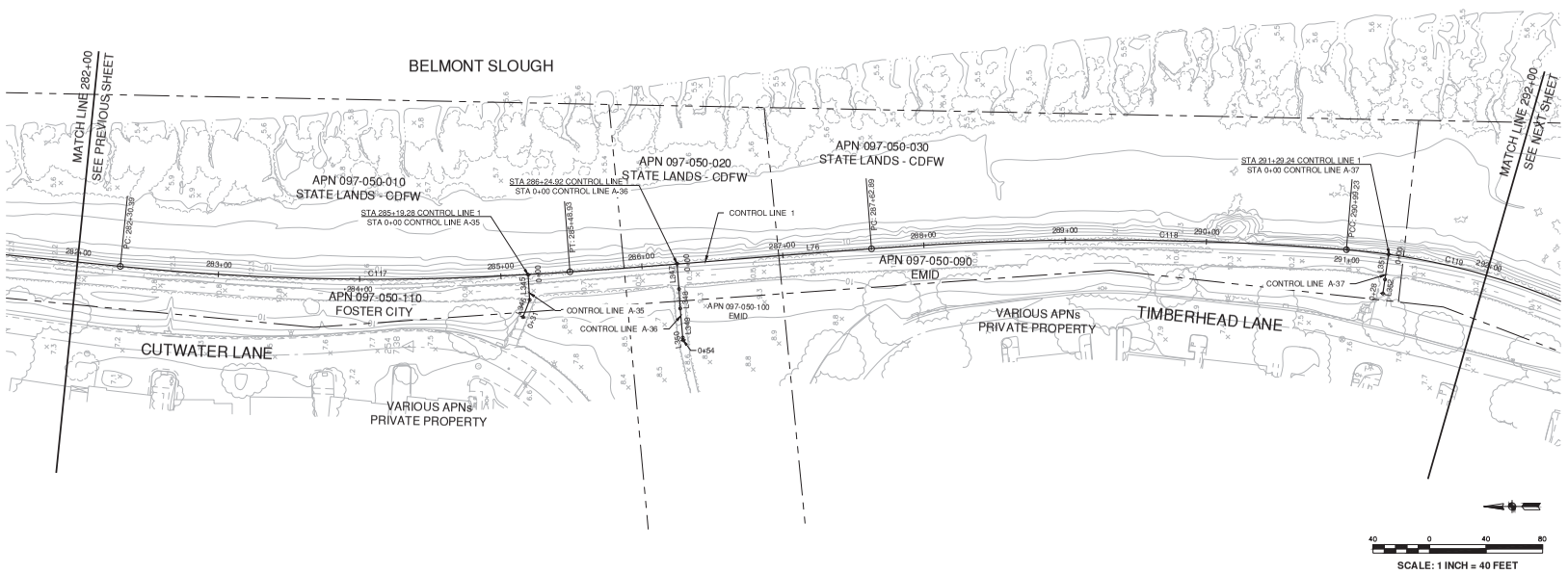

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L76	213.96	S4° 22' 23.03"E	N2022471.46, E6051128.35	N2022258.12, E6051144.66

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C117	1800.00	318.54	10°08'21.97"	N2022789.56, E6051132.22	N2022471.46, E6051128.35
C118	2150.00	336.34	8°57'47.65"	N2022258.12, E6051144.66	N2021922.13, E6051144.03
C119	500.00	260.50	29°51'02.77"	N2021922.13, E6051144.03	N2021679.36, E6051057.98

LINE TABLE: CONTROL LINE A-35

LINE #	LENGTH	BEARING	START POINT	END POINT
L345	17.96	S86° 34' 12.99"W	N2022501.03, E6051126.33	N2022499.95, E6051108.40
L346	13.02	N68° 27' 34.48"W	N2022499.95, E6051108.40	N2022504.73, E6051096.29

LINE TABLE: CONTROL LINE A-36

LINE #	LENGTH	BEARING	START POINT	END POINT
L347	18.00	S85° 37' 36.97"W	N2022395.70, E6051134.14	N2022394.32, E6051116.19
L348	13.89	S86° 13' 32.99"W	N2022394.32, E6051116.19	N2022393.41, E6051102.34
L349	20.74	S85° 10' 57.22"W	N2022393.41, E6051102.34	N2022391.67, E6051081.67
L350	1.78	S79° 59' 44.82"W	N2022391.67, E6051081.67	N2022391.36, E6051079.92

LINE TABLE: CONTROL LINE A-37

LINE #	LENGTH	BEARING	START POINT	END POINT
L351	18.00	N81° 58' 16.69"W	N2021892.30, E6051140.73	N2021894.82, E6051122.91
L352	10.07	N81° 08' 21.96"W	N2021894.82, E6051122.91	N2021896.37, E6051112.96

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SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 30
SHEET 036 OF 384
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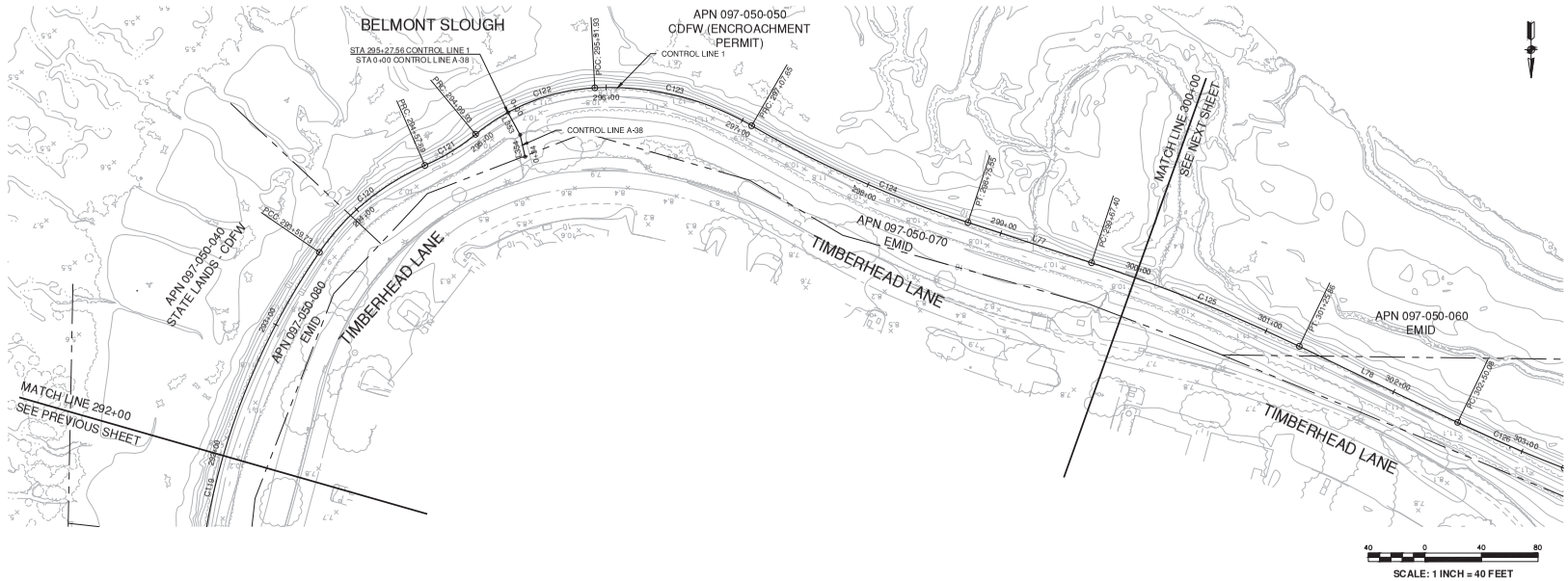

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L77	91.85	N71° 53' 04.88"W	N2021658.20, E6050599.39	N2021686.76, E6050512.10

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C120	175.00	97.96	32°04'22.95"	N2021679.36, E6051057.98	N2021617.83, E6050983.40
C121	150.00	42.23	16°07'53.10"	N2021617.83, E6050983.40	N2021595.81, E6050947.53
C122	144.00	92.01	36°36'31.55"	N2021595.81, E6050947.53	N2021562.93, E6050863.27
C123	200.00	115.71	33°08'57.08"	N2021562.93, E6050863.27	N2021589.69, E6050752.35
C124	800.00	167.90	12°01'30.76"	N2021589.69, E6050752.35	N2021658.20, E6050599.39

LINE TABLE: CONTROL LINE A-38

LINE #	LENGTH	BEARING	START POINT	END POINT
L353	18.00	N28° 37' 24.67"W	N2021580.33, E6050924.69	N2021596.13, E6050916.07
L354	15.93	N12° 54' 38.63"W	N2021596.13, E6050916.07	N2021611.66, E6050912.51

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SHEET
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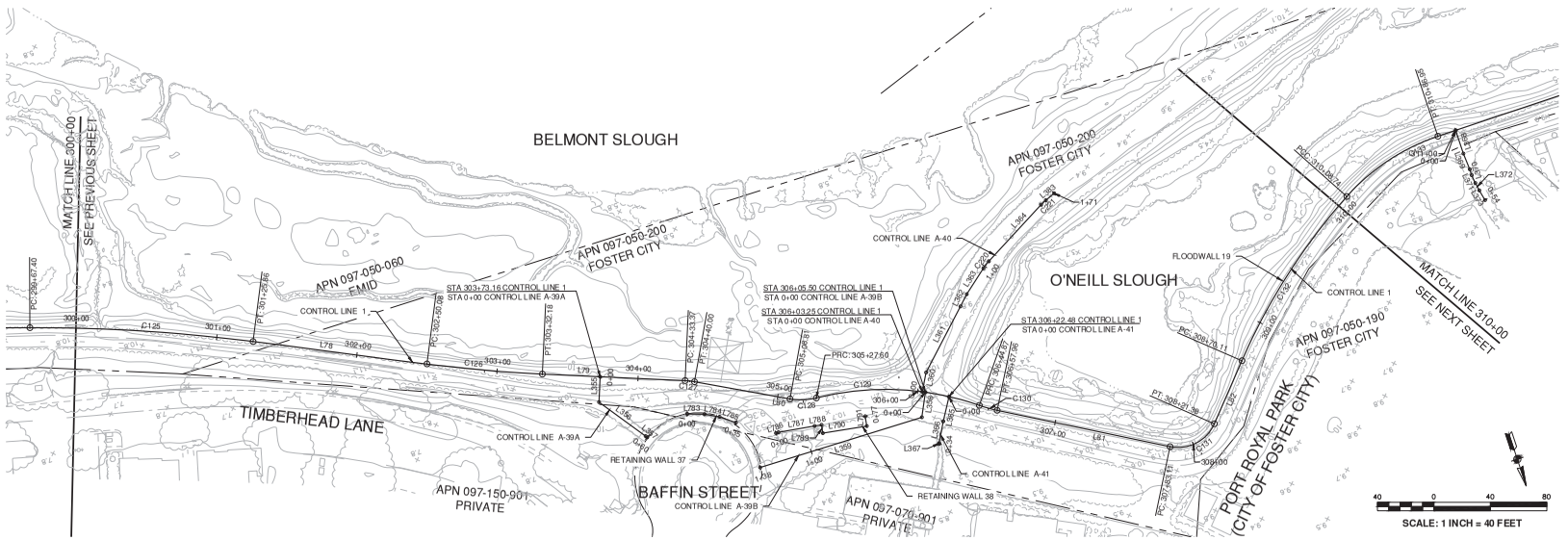

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L78	124.23	N64° 19' 07.55"W	N2021745.82, E6050365.18	N2021799.65, E6050253.22
L79	101.19	N69° 01' 20.25"W	N2021832.15, E6050177.86	N2021868.38, E6050083.37
L80	68.81	N61° 25' 25.15"W	N2021871.16, E6050077.36	N2021904.07, E6050016.93
L81	125.15	N59° 47' 34.13"W	N2021957.88, E6049880.21	N2022020.85, E6049772.05
L82	48.74	S41° 53' 49.27"W	N2022015.35, E6049737.12	N2021979.08, E6049704.57

LINE TABLE: RETAINING WALL 37

LINE #	LENGTH	BEARING	START POINT	END POINT
L783	12.29	N70° 49' 30.63"W	N2021891.21, E6050089.40	N2021895.25, E6050077.79
L784	10.84	N61° 26' 30.67"W	N2021895.25, E6050077.79	N2021900.43, E6050068.27
L785	12.29	N52° 03' 30.72"W	N2021900.43, E6050068.27	N2021907.99, E6050058.58

LINE TABLE: RETAINING WALL 38

LINE #	LENGTH	BEARING	START POINT	END POINT
L786	1.92	S89° 37' 22.22"W	N2021923.91, E6050034.00	N2021923.90, E6050032.07
L787	25.92	N81° 33' 02.99"W	N2021923.90, E6050032.07	N2021927.71, E6050006.43
L788	4.99	N81° 14' 26.09"W	N2021927.71, E6050006.43	N2021928.47, E6050001.50
L789	5.99	N9° 07' 54.92"E	N2021928.47, E6050001.50	N2021934.39, E6050002.45
L790	31.50	N80° 52' 05.08"W	N2021934.39, E6050002.45	N2021939.39, E6049971.35
L791	7.00	S9° 07' 54.92"W	N2021939.39, E6049971.35	N2021932.47, E6049970.24

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C125	1200.00	158.46	7°33'57.33"	N2021686.76, E6050512.10	N2021745.82, E6050365.18
C126	1000.00	82.09	4°42'12.70"	N2021799.65, E6050253.22	N2021832.15, E6050177.86
C127	50.00	6.63	7°35'55.10"	N2021868.38, E6050083.37	N2021871.16, E6050077.36
C128	44.00	18.79	24°27'48.47"	N2021904.07, E6050016.93	N2021909.32, E6049999.04
C129	200.00	117.27	33°35'38.70"	N2021909.32, E6049999.04	N2021950.58, E6049891.06
C130	100.00	13.09	7°29'59.22"	N2021950.58, E6049891.06	N2021957.88, E6049880.21
C131	28.00	38.27	78°18'36.60"	N2022020.85, E6049772.05	N2022015.35, E6049737.12
C132	440.00	138.62	18°03'04.85"	N2021979.08, E6049704.57	N2021892.05, E6049597.41

LINE TABLE: CONTROL LINE A-39A

LINE #	LENGTH	BEARING	START POINT	END POINT
L355	18.00	N20° 58' 39.75"E	N2021846.83, E6050139.60	N2021863.63, E6050146.04
L356	40.87	N35° 29' 50.74"W	N2021863.63, E6050146.04	N2021896.91, E6050122.31
L357	1.42	N33° 34' 06.91"W	N2021896.91, E6050122.31	N2021898.09, E6050121.53

LINE TABLE: CONTROL LINE A-39B

LINE #	LENGTH	BEARING	START POINT	END POINT
L358	18.00	N26° 25' 44.64"E	N2021929.71, E6049924.36	N2021945.83, E6049932.38
L359	119.91	S88° 52' 11.10"E	N2021945.83, E6049932.38	N2021943.46, E6050052.26

LINE TABLE: CONTROL LINE A-40

LINE #	LENGTH	BEARING	START POINT	END POINT
L360	13.86	S29° 25' 49.49"W	N2021928.72, E6049926.38	N2021916.64, E6049919.57
L361	52.75	S45° 47' 58.88"W	N2021916.64, E6049919.57	N2021879.87, E6049881.76
L362	9.76	S45° 47' 58.88"W	N2021879.87, E6049881.76	N2021873.07, E6049874.76
L363	21.85	S51° 01' 15.91"W	N2021873.07, E6049874.76	N2021859.32, E6049857.78
L364	54.52	S61° 05' 19.06"W	N2021855.82, E6049852.57	N2021829.46, E6049804.84
L383	7.67	S68° 37' 09.46"W	N2021827.49, E6049800.64	N2021824.69, E6049793.49

CURVE TABLE: CONTROL LINE A-40

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C220	35.77	6.28	10°04'03.15"	N2021859.32, E6049857.78	N2021855.82, E6049852.57
C221	35.35	4.65	7°31'50.40"	N2021829.46, E6049804.84	N2021827.49, E6049800.64

LINE TABLE: CONTROL LINE A-41

LINE #	LENGTH	BEARING	START POINT	END POINT
L365	18.00	N31° 17' 42.17"E	N2021937.91, E6049909.49	N2021953.29, E6049918.84
L366	15.78	N29° 25' 48.71"E	N2021953.29, E6049918.84	N2021967.03, E6049926.60
L367	0.62	N19° 56' 09.84"E	N2021967.03, E6049926.60	N2021967.61, E6049926.81

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
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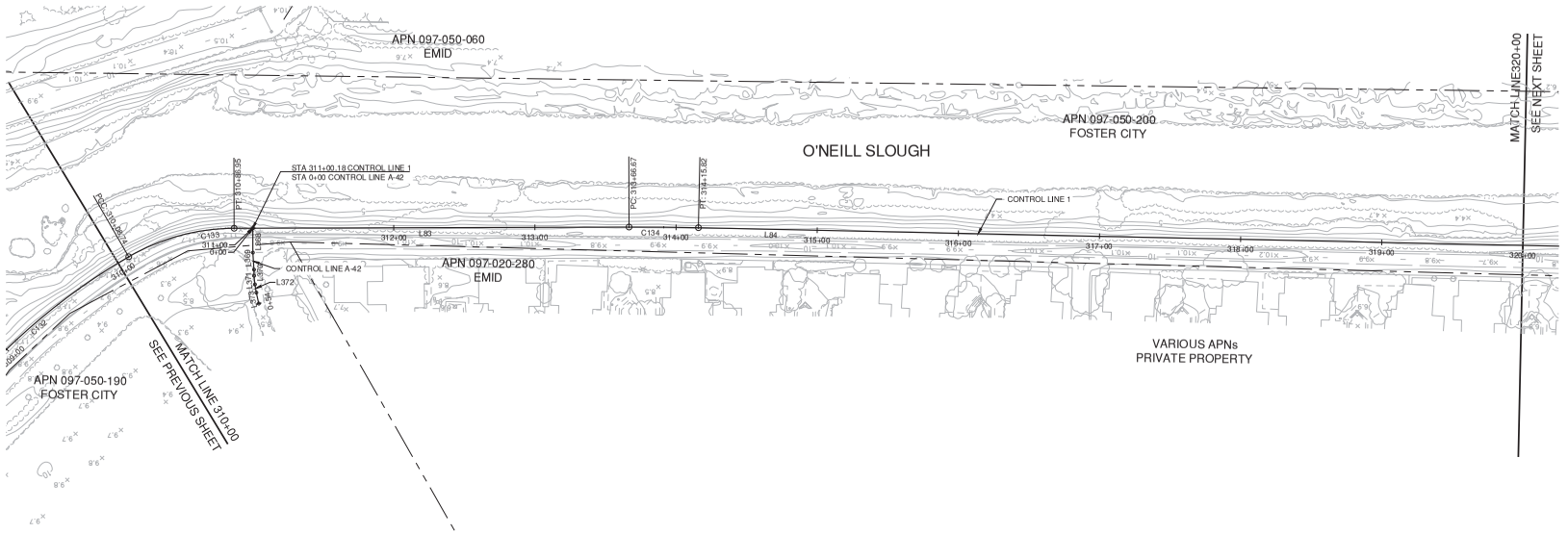
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 32
SHEET 038 OF 384
CIP PROJ. NUMBER
CIP 301-657



NOTES:

1. SEE SHEET PILE INSTALLATION AND GRADING PLANS (SPG) FOR PLAN AND PROFILE INFORMATION. SEE DEMOLITION PLAN AND UTILITY SHEETS (DU) FOR DEMOLITION INFORMATION. SEE WALL SHEETS (W) FOR FLOODWALL AND RETAINING WALL LAYOUT AND DETAILS. SEE CROSS SECTION SHEETS (CX) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS) FOR PAVING AND STRIPING DETAILS.
2. COORDINATES ARE CALIFORNIA STATE PLANE, ZONE 3.
3. ALL ELEVATIONS ARE GIVEN ON NAVD 88 (2011).

40 0 40 80

SCALE: 1 INCH = 40 FEET

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L83	279.73	S89° 49' 17.4"W	N2021871.89, E6049522.76	N2021871.02, E6049243.03
L84	771.84	N88° 46' 13.72"W	N2021871.47, E6049193.89	N2021888.03, E6048422.23

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C133	150.00	78.21	29°52'23.36"	N2021892.05, E6049597.41	N2021871.89, E6049522.76
C134	2000.00	49.15	1°24'28.81"	N2021871.02, E6049243.03	N2021871.47, E6049193.89

LINE TABLE: CONTROL LINE A-42

LINE #	LENGTH	BEARING	START POINT	END POINT
L368	17.33	N0° 07' 51.58"W	N2021871.85, E6049509.51	N2021889.18, E6049509.47
L369	12.05	N0° 43' 53.64"W	N2021889.18, E6049509.47	N2021901.20, E6049508.68
L370	4.37	N0° 32' 31.91"E	N2021901.20, E6049508.68	N2021905.57, E6049508.73
L371	6.16	N6° 25' 14.47"W	N2021905.57, E6049508.73	N2021911.70, E6049508.04
L372	5.90	N9° 56' 38.76"W	N2021911.70, E6049508.04	N2021917.51, E6049507.02
L373	7.94	N12° 35' 24.04"W	N2021917.51, E6049507.02	N2021925.26, E6049505.29

SCALE VERIFICATION

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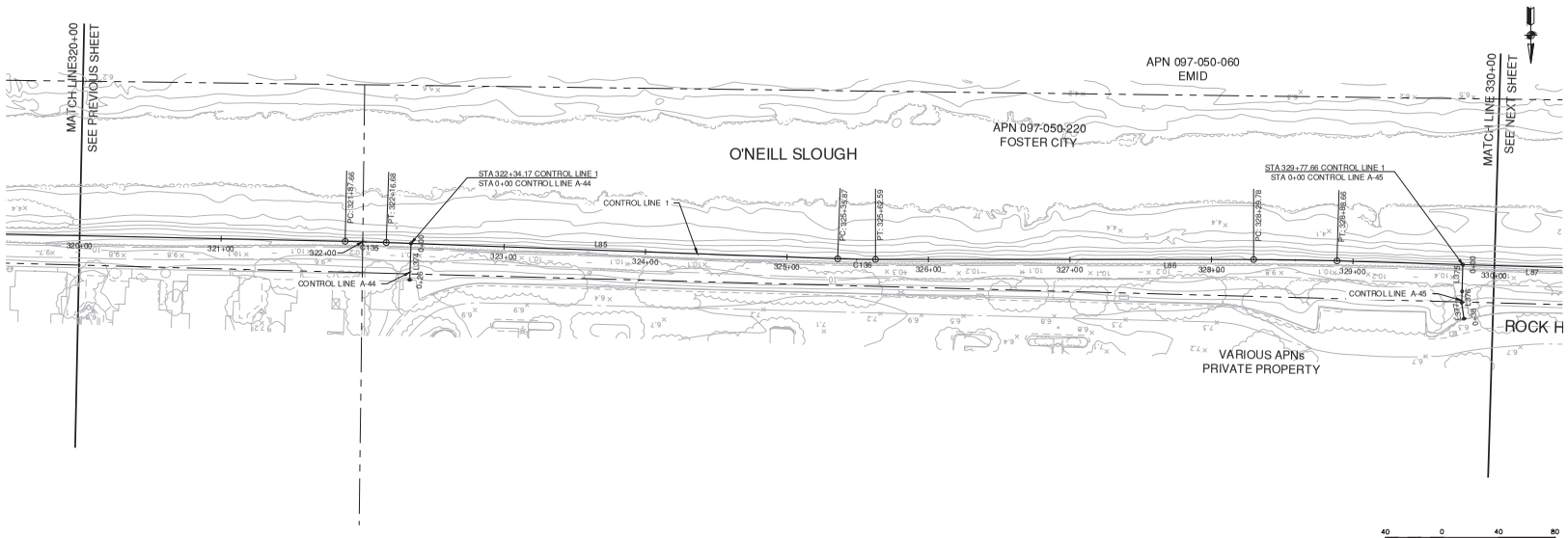
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 33
SHEET 039 OF 384

CIP PROJ. NUMBER
CIP 301-657



NOTES:

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40 0 40 80

SCALE: 1 INCH = 40 FEET

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L85	319.20	N87° 56' 20.81"W	N2021888.86, E6048393.22	N2021900.34, E6048074.23
L86	267.19	N89° 58' 47.67"W	N2021900.83, E6048047.52	N2021900.92, E6047780.33

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C135	2000.00	29.02	0°49'52.91"	N2021888.03, E6048422.23	N2021888.86, E6048393.22
C136	750.00	26.71	2°02'26.86"	N2021900.34, E6048074.23	N2021900.83, E6048047.52

LINE TABLE: CONTROL LINE A-44

LINE #	LENGTH	BEARING	START POINT	END POINT
L374	25.79	N2° 03' 39.90"E	N2021889.49, E6048375.74	N2021915.27, E6048376.66

LINE TABLE: CONTROL LINE A-45

LINE #	LENGTH	BEARING	START POINT	END POINT
L375	19.00	N1° 42' 24.49"E	N2021904.46, E6047632.49	N2021923.45, E6047633.06
L376	8.00	N1° 42' 24.49"E	N2021923.45, E6047633.06	N2021931.45, E6047633.30
L377	11.38	N8° 06' 45.82"W	N2021931.45, E6047633.30	N2021942.71, E6047631.69

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SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 34
SHEET 040 OF 384

CIP PROJ. NUMBER
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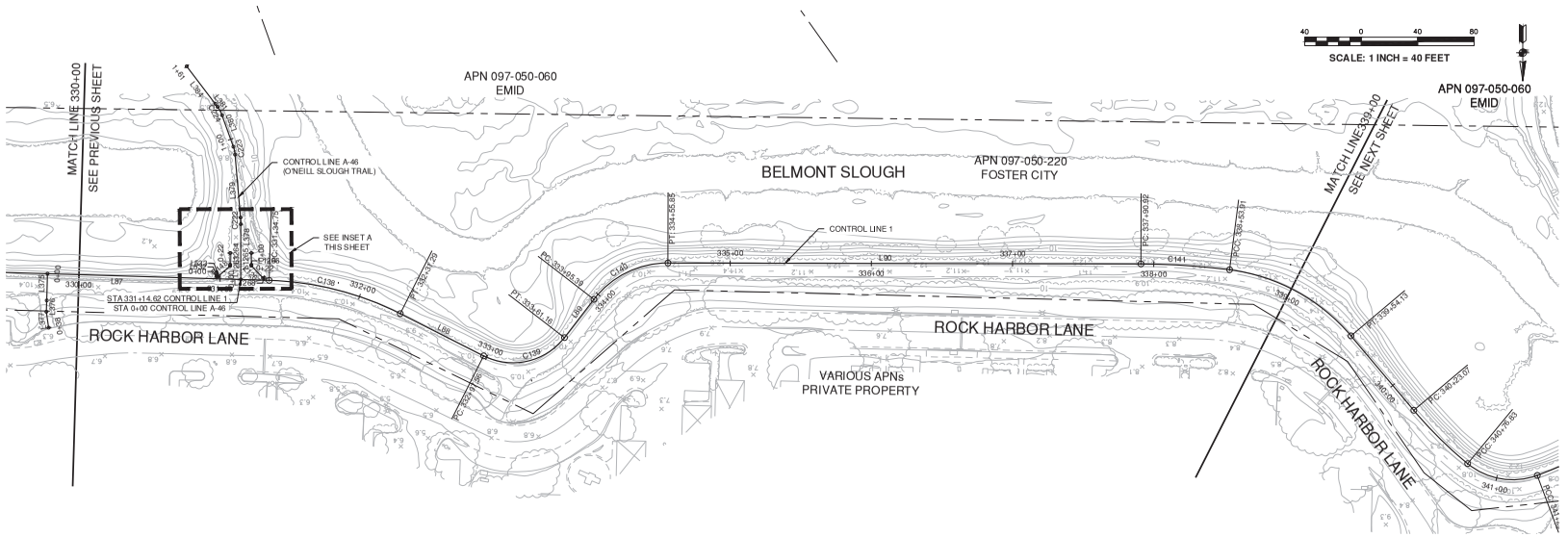

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LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L87	246.09	N88° 17' 35.51"W	N2021901.81, E6047721.46	N2021909.14, E6047475.48
L88	66.26	N63° 09' 00.72"W	N2021932.76, E6047382.67	N2021962.68, E6047323.55
L89	34.23	S37° 37' 27.17"W	N2021949.73, E6047266.34	N2021922.62, E6047245.44
L90	335.07	N89° 53' 18.23"W	N2021896.91, E6047193.04	N2021897.56, E6046857.97

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C138	220.00	96.54	25°08'34.80"	N2021909.14, E6047475.48	N2021932.76, E6047382.67
C139	46.00	63.61	79°13'32.11"	N2021962.68, E6047323.55	N2021949.73, E6047266.34
C140	66.00	60.46	52°29'14.60"	N2021922.62, E6047245.44	N2021896.91, E6047193.04
C141	500.00	62.99	7°13'03.20"	N2021897.56, E6046857.97	N2021901.64, E6046795.16

LINE TABLE: CONTROL LINE A-46

LINE #	LENGTH	BEARING	START POINT	END POINT
L378	39.17	S0° 03' 03.43"W	N2021908.54, E6047495.60	N2021869.37, E6047495.56
L379	44.77	S4° 56' 16.27"E	N2021864.71, E6047495.76	N2021820.11, E6047499.62
L380	23.73	S19° 47' 03.45"E	N2021814.50, E6047500.85	N2021792.17, E6047508.88
L381	2.67	S37° 09' 53.77"E	N2021786.30, E6047512.06	N2021784.17, E6047513.67
L384	33.45	S37° 09' 53.77"E	N2021784.17, E6047513.67	N2021757.52, E6047533.88

LINE TABLE: FLOODWALL 20

LINE #	LENGTH	BEARING	START POINT	END POINT
L532	1.00	N88° 17' 44.06"W	N2021906.52, E6047512.84	N2021906.55, E6047511.85
L533	0.98	S49° 11' 26.60"W	N2021906.55, E6047511.85	N2021905.91, E6047511.11
L1263	1.00	S3° 29' 26.17"W	N2021899.04, E6047503.15	N2021898.05, E6047503.09
L1264	8.20	S0° 03' 03.43"W	N2021898.05, E6047503.09	N2021889.84, E6047503.08

LINE TABLE: FLOODWALL 21

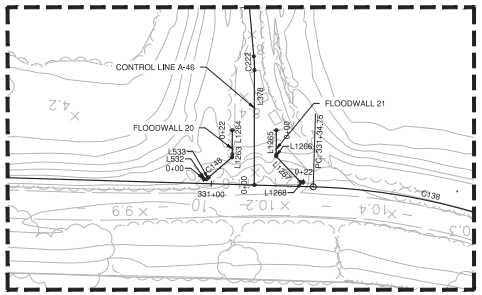
LINE #	LENGTH	BEARING	START POINT	END POINT
L1265	8.29	N0° 03' 03.43"E	N2021889.86, E6047488.08	N2021898.15, E6047488.09
L1266	0.60	N1° 42' 24.49"E	N2021898.15, E6047488.09	N2021898.74, E6047488.11
L1267	12.03	N43° 19' 36.30"W	N2021898.74, E6047488.11	N2021907.49, E6047479.85
L1268	1.01	N88° 21' 37.10"W	N2021907.49, E6047479.85	N2021907.52, E6047478.84

CURVE TABLE: CONTROL LINE A-46

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C222	53.59	4.67	4°59'19.69"	N2021869.37, E6047495.56	N2021864.71, E6047495.76
C223	22.24	5.76	14°50'47.18"	N2021820.11, E6047499.62	N2021814.50, E6047500.85
C224	22.07	6.70	17°22'50.32"	N2021792.17, E6047508.88	N2021786.30, E6047512.06

CURVE TABLE: FLOODWALL 20

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C148	25986.98	10.51	0°01'23.45"	N2021905.91, E6047511.11	N2021899.04, E6047503.15



INSET A
SCALE: 1" = 20'

SCALE VERIFICATION
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CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

SHEET
SCL 35
SHEET 041 OF 384
CIP PROJ. NUMBER
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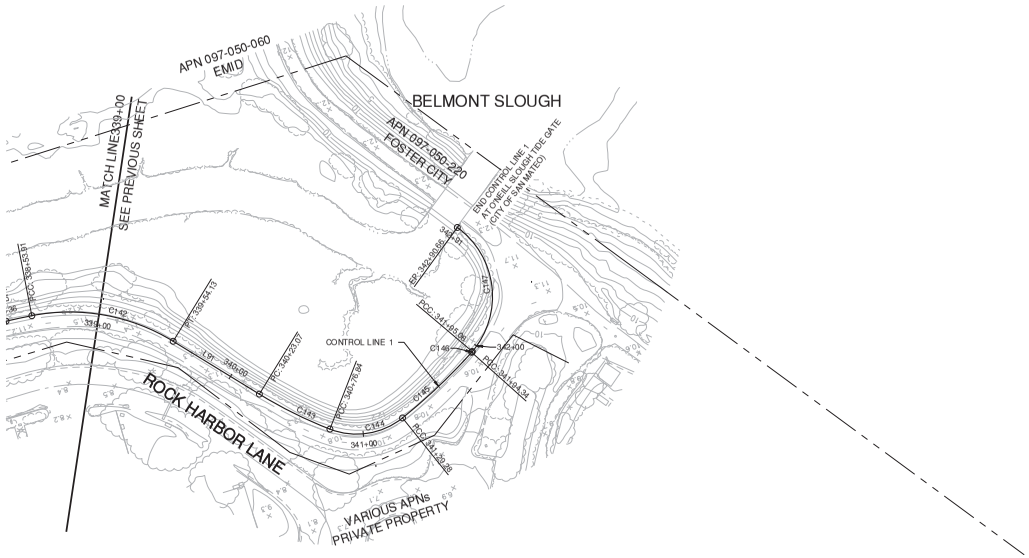

NOTES:

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40 0 40 80

SCALE: 1 INCH = 40 FEET

LINE TABLE: CONTROL LINE 1

LINE #	LENGTH	BEARING	START POINT	END POINT
L91	68.94	N40° 08' 06.79"W	N2021948.52, E6046709.17	N2022001.23, E6046664.73

CURVE TABLE: CONTROL LINE 1

CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT
C142	135.00	100.22	42°32'08.24"	N2021901.64, E6046795.16	N2021948.52, E6046709.17
C143	300.00	53.77	10°16'06.25"	N2022001.23, E6046664.73	N2022039.02, E6046626.59
C144	50.00	52.44	60°05'30.99"	N2022039.02, E6046626.59	N2022047.32, E6046577.21
C145	400.00	65.06	9°19'10.75"	N2022047.32, E6046577.21	N2022019.70, E6046518.38
C146	25.00	0.72	1°39'05.61"	N2022019.70, E6046518.38	N2022019.33, E6046517.76
C147	58.15	95.60	94°11'11.27"	N2022019.33, E6046517.76	N2021935.83, E6046500.87

SCALE VERIFICATION

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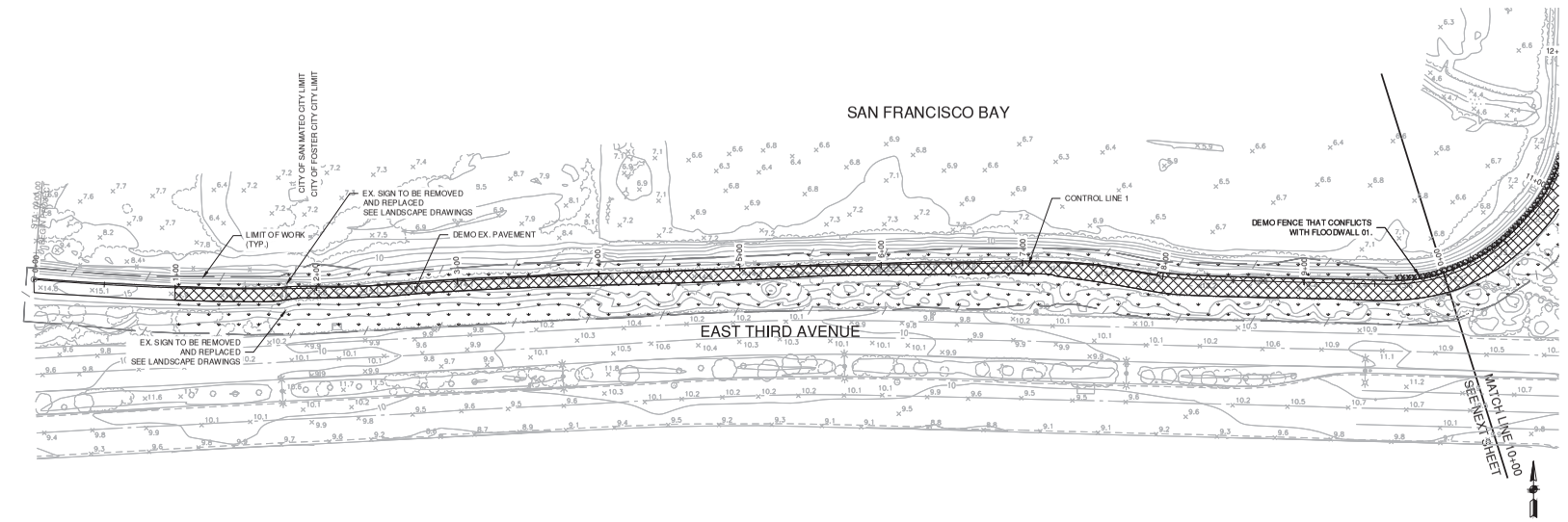
CIP 301-657

SURVEY CONTROL LAYOUT AND R.O.W.

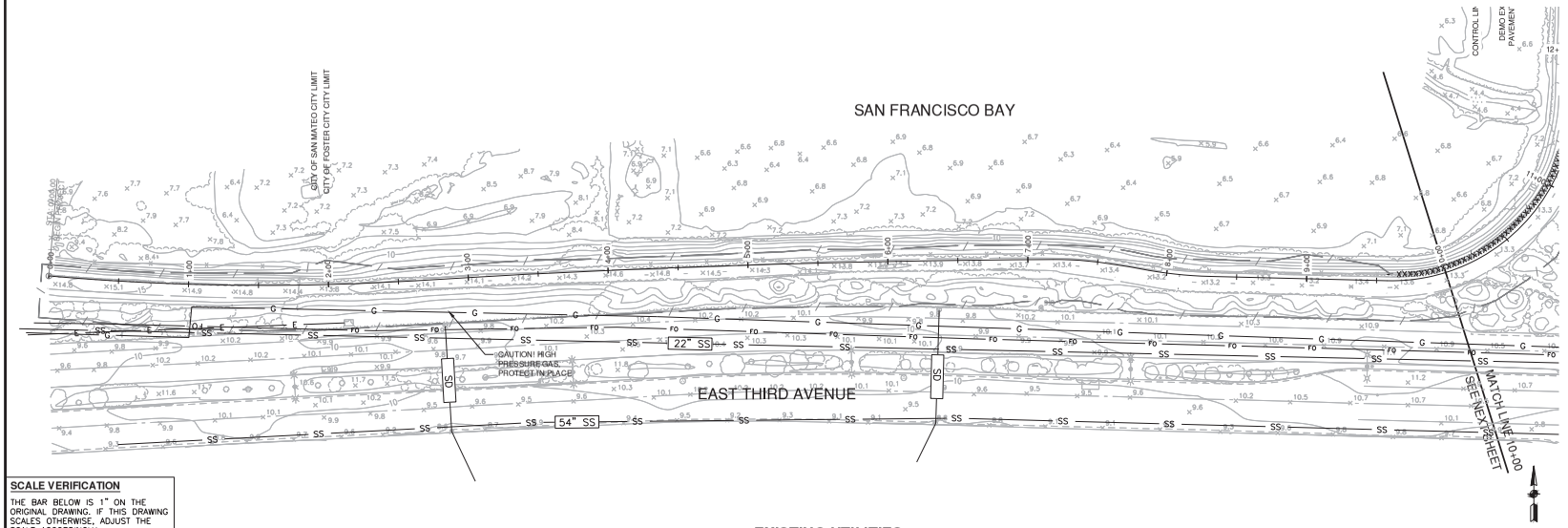
SHEET
SCL 36
SHEET 042 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

SCALE: 1" = 40'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SC SHEETS) FOR PROJECT CONTROL LINE AND OTHER CONTROL INFORMATION.
   SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR PROJECT PLAN AND PROFILE INFORMATION.
   SEE FLOODWALL AND RETAINING WALL SHEETS (W SHEETS) FOR FLOODWALL AND RETAINING WALL LAYOUT.
   SEE CROSS SECTION SHEETS (TCX SHEETS) FOR LEVEE CROSS SECTIONS.
   SEE CIVIL SHEETS (C SHEETS) FOR ACCESS POINT DETAILS.
   SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING DETAILS. SEE SITE AMENITIES AND SIGNAGE SHEETS (L SHEETS) FOR DISPOSITION OF TRAIL AMENITIES AND SIGNS REMOVED AND REPLACED.
2. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES IN KIND THAT ARE SHOWN AS PROTECTED IN PLACE. EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
4. POTHOLE TO VERIFY LOCATION AND DEPTH OF CONFLICTING UTILITIES PRIOR TO CONSTRUCTION.
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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SCALE VERIFICATION

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0 1"

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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1	ARO	07/31/20	CONFROM SET

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PUBLIC WORKS DEPARTMENT
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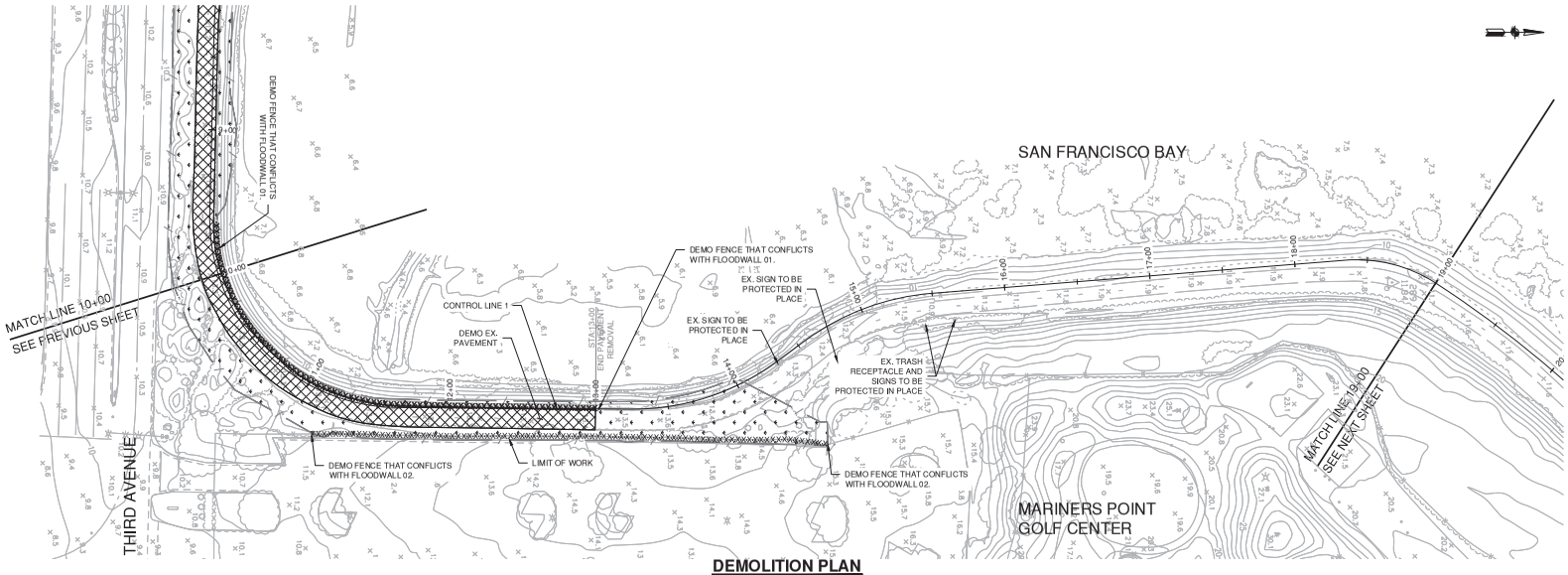
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

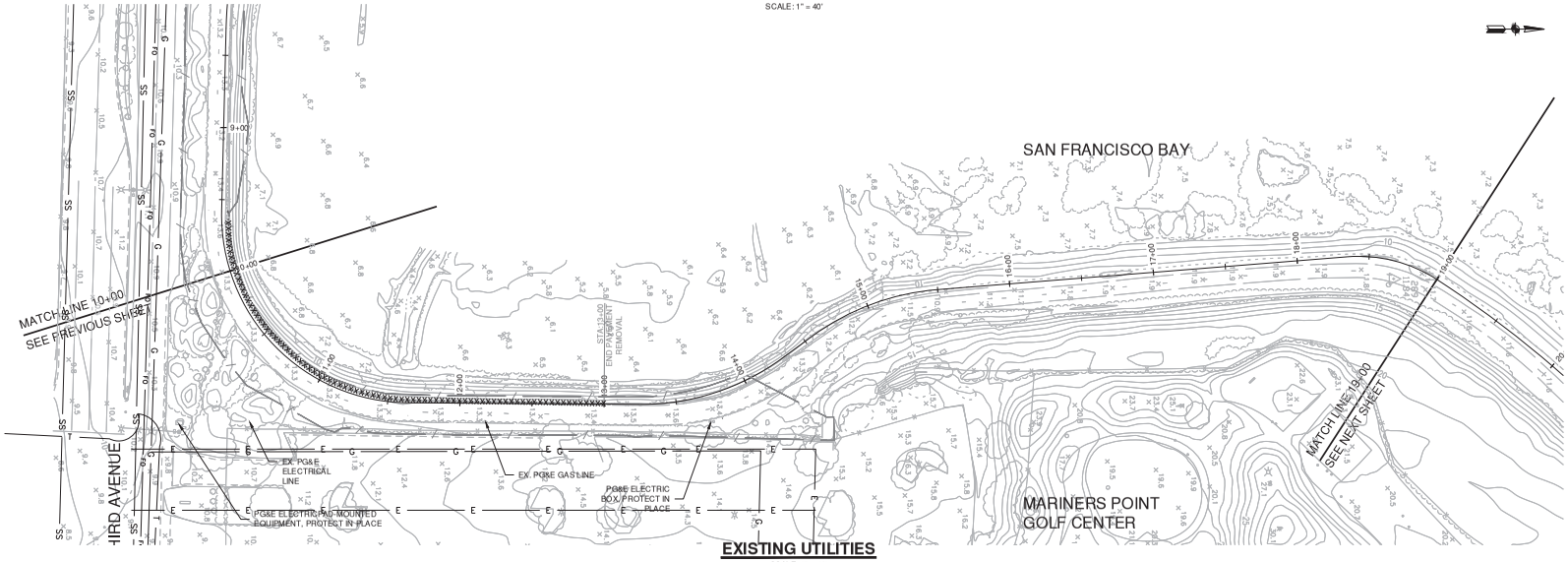
SHEET
DU 01
SHEET 043 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

SCALE: 1" = 40'

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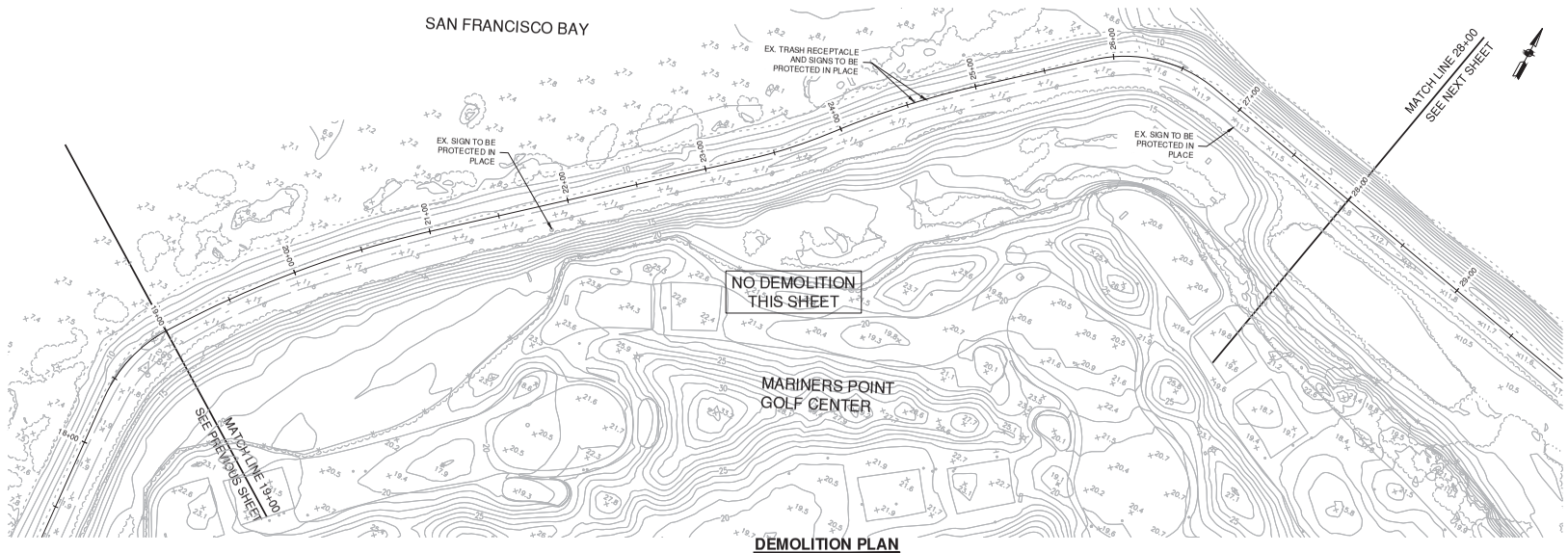
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

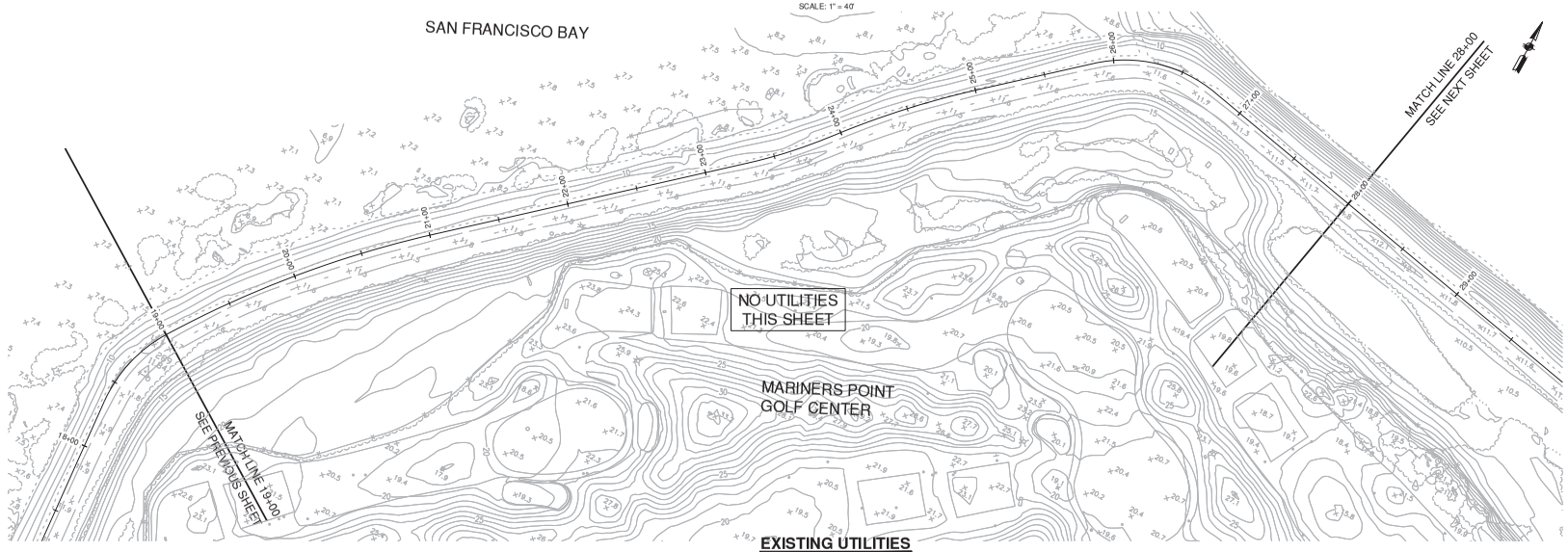
DEMOLITION AND UTILITIES

SHEET
DU 02
SHEET 044 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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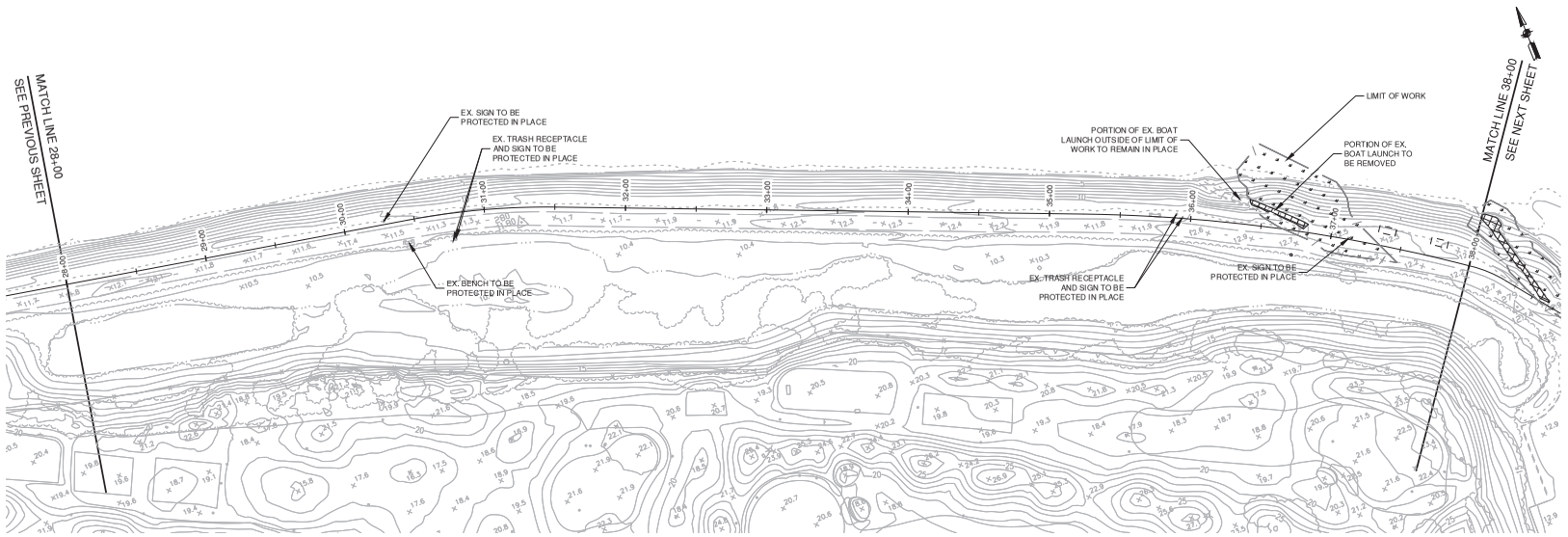
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 03
SHEET 045 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

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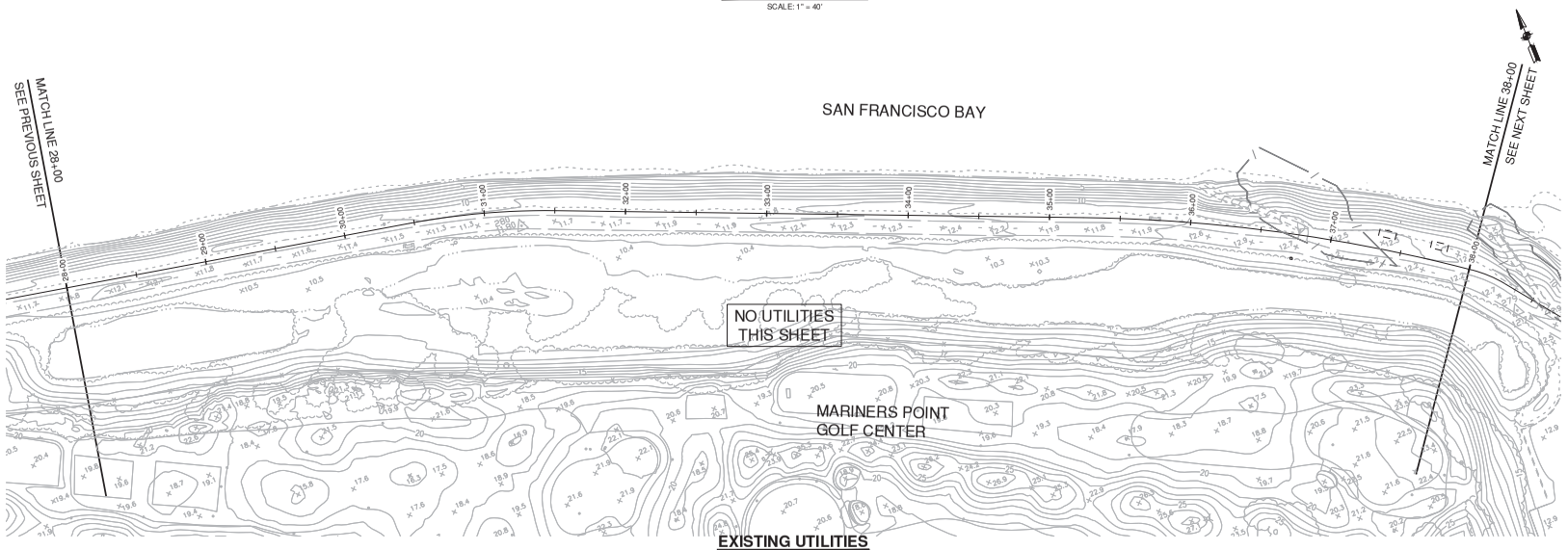

EXISTING UTILITIES

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PUBLIC WORKS DEPARTMENT
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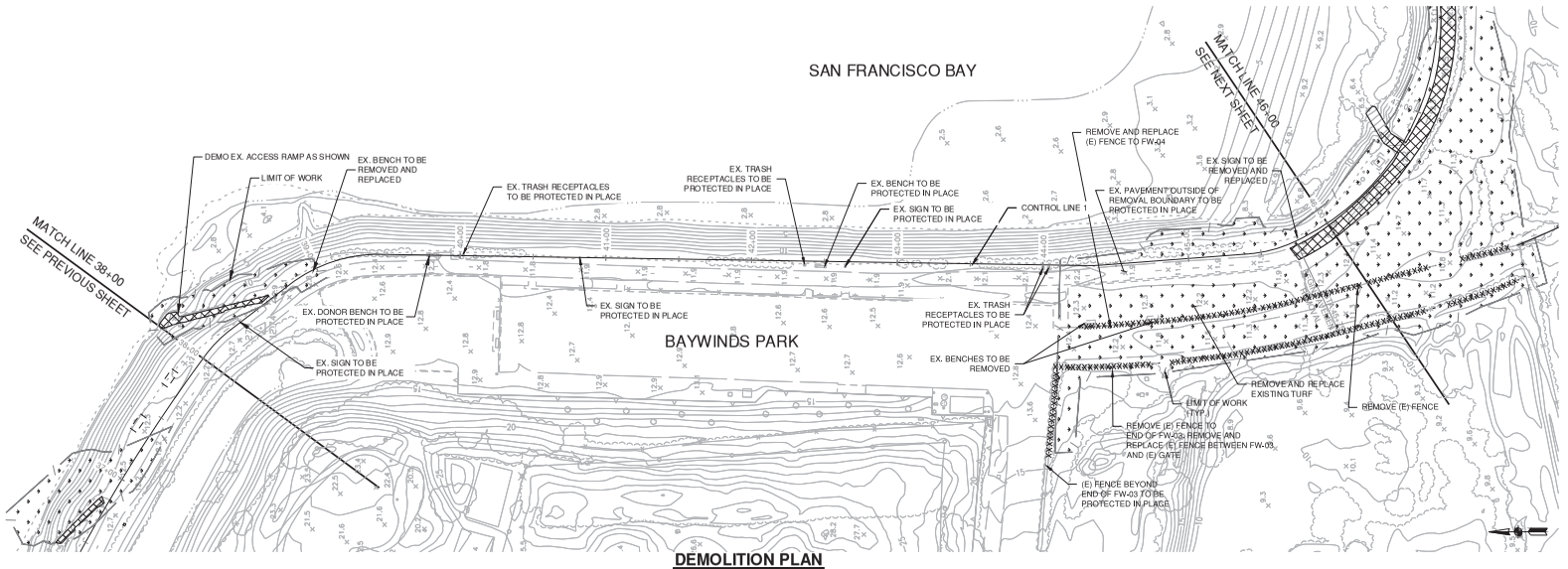
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 04
SHEET 046 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

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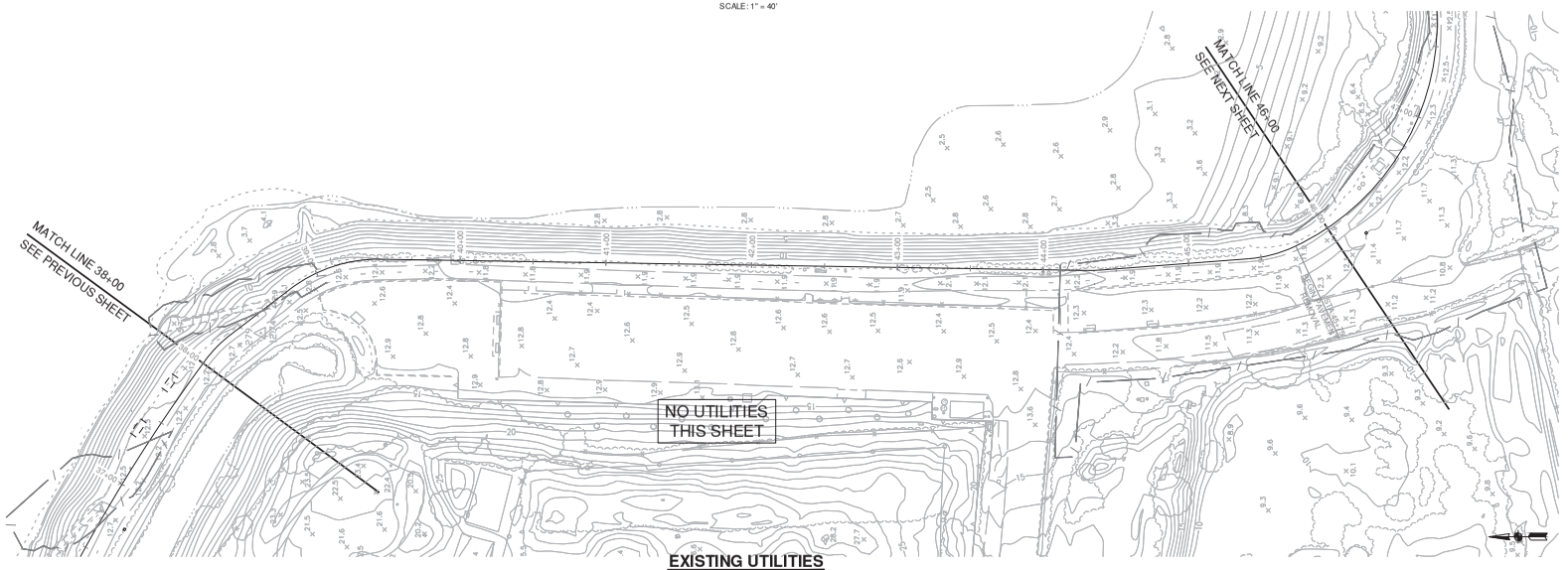

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FOSTER CITY LEVEE IMPROVEMENTS
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DEMOLITION AND UTILITIES

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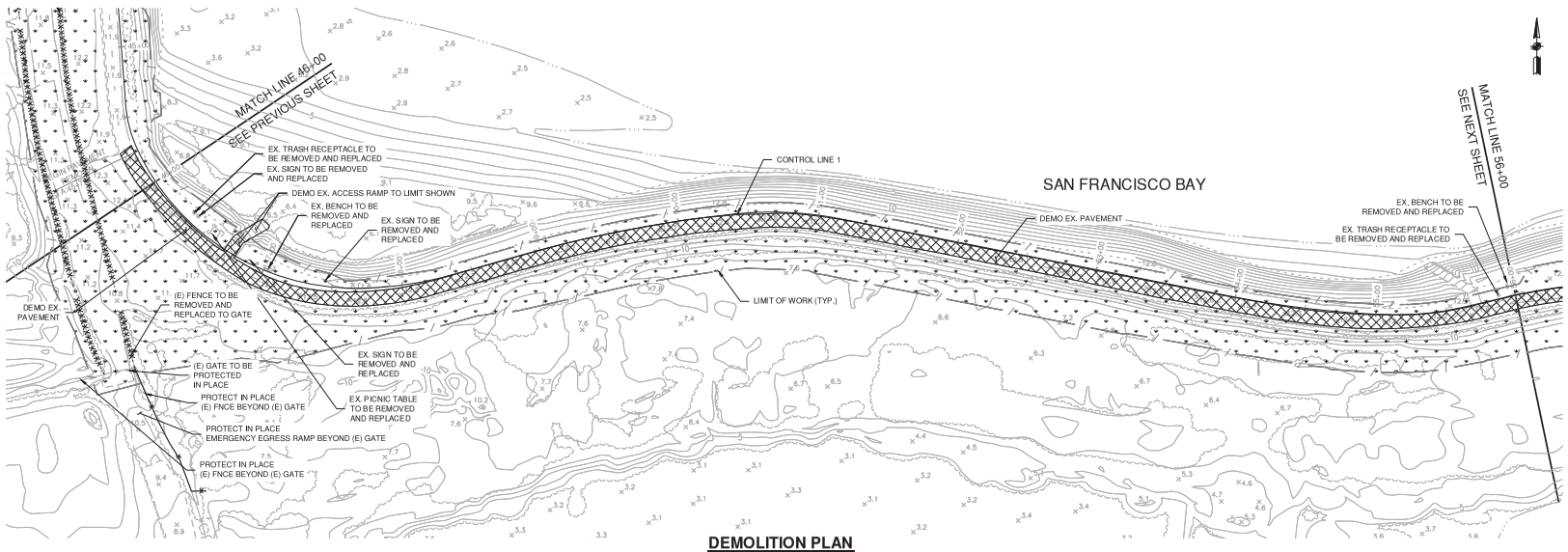

DEMOLITION PLAN

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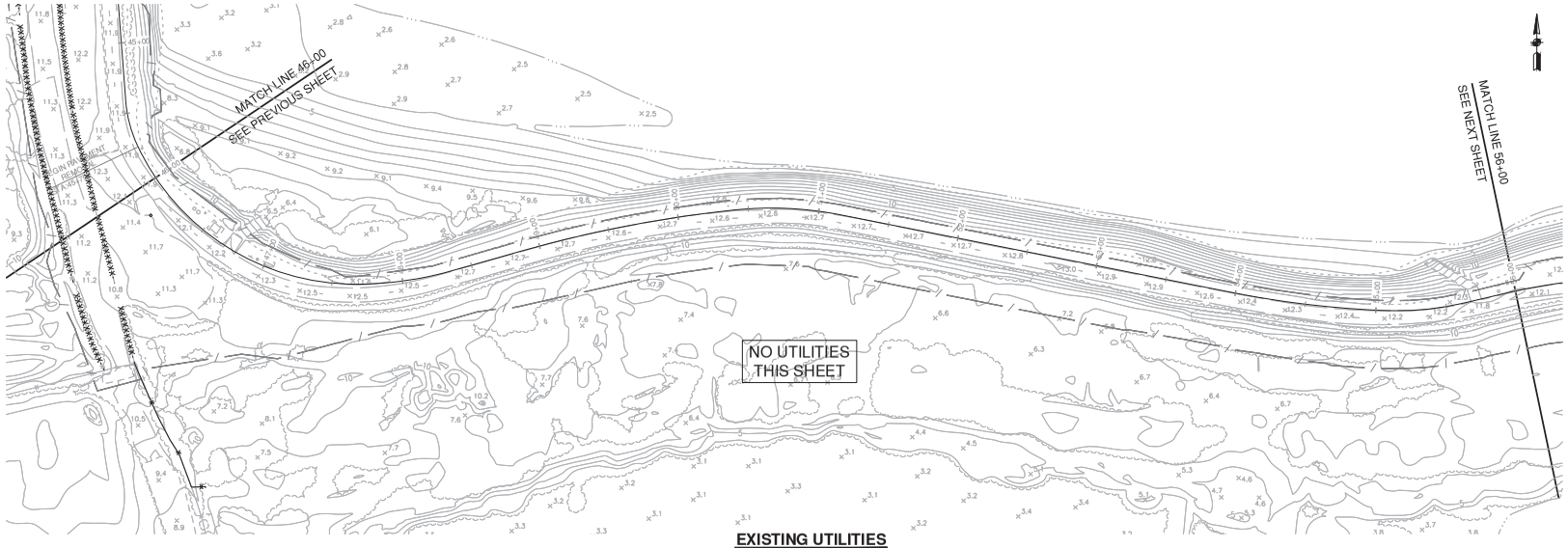

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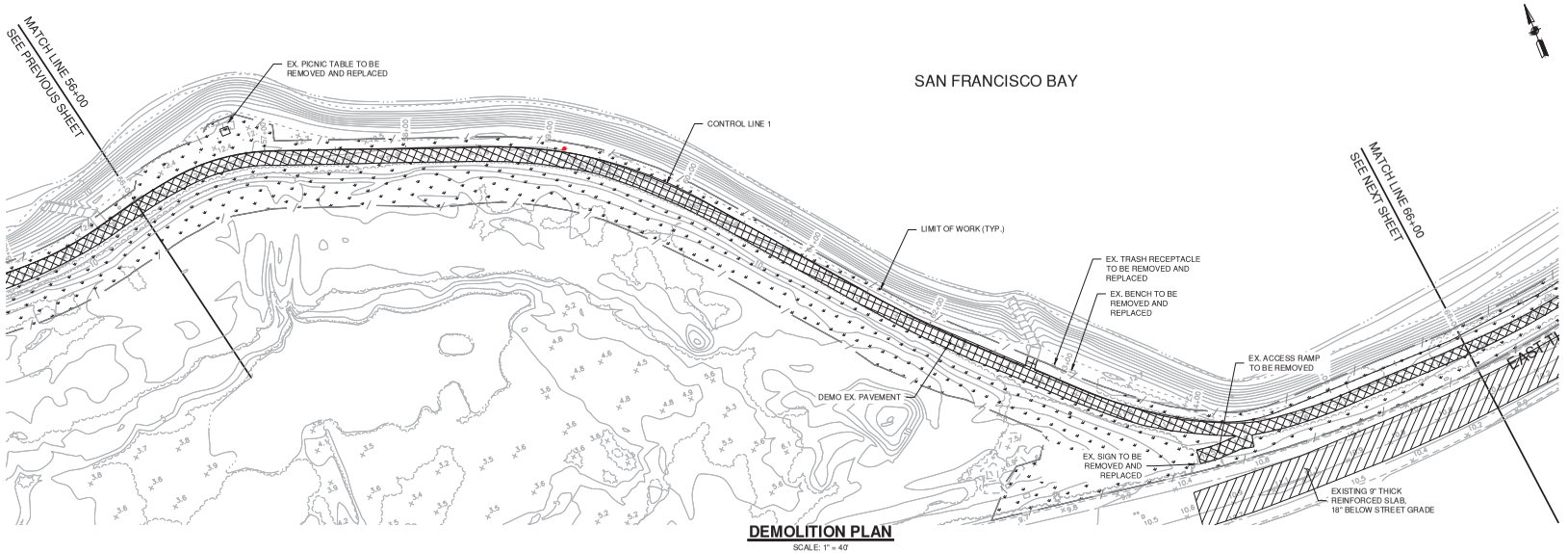
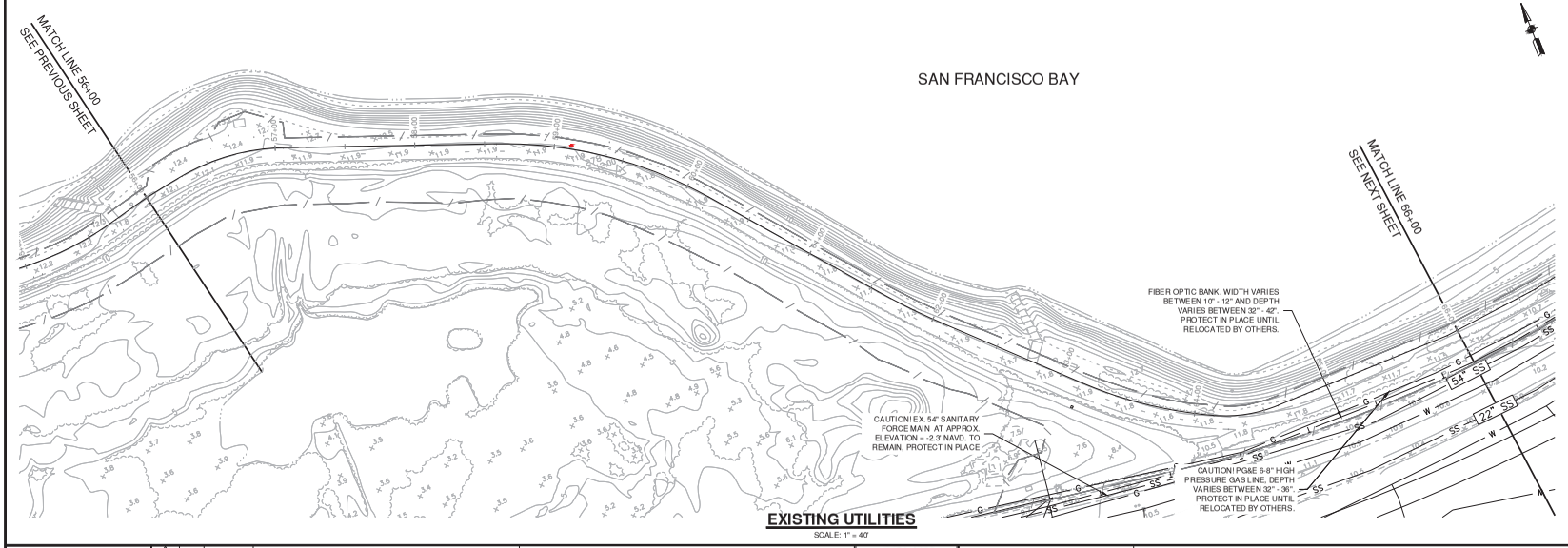
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

SCALE: 1" = 40'

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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SCALE VERIFICATION

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0 1"

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE:	4/24/2020
SCALE:	AS SHOWN
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PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

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PUBLIC WORKS DEPARTMENT
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 07
SHEET 049 OF 384
CIP PROJ. NUMBER
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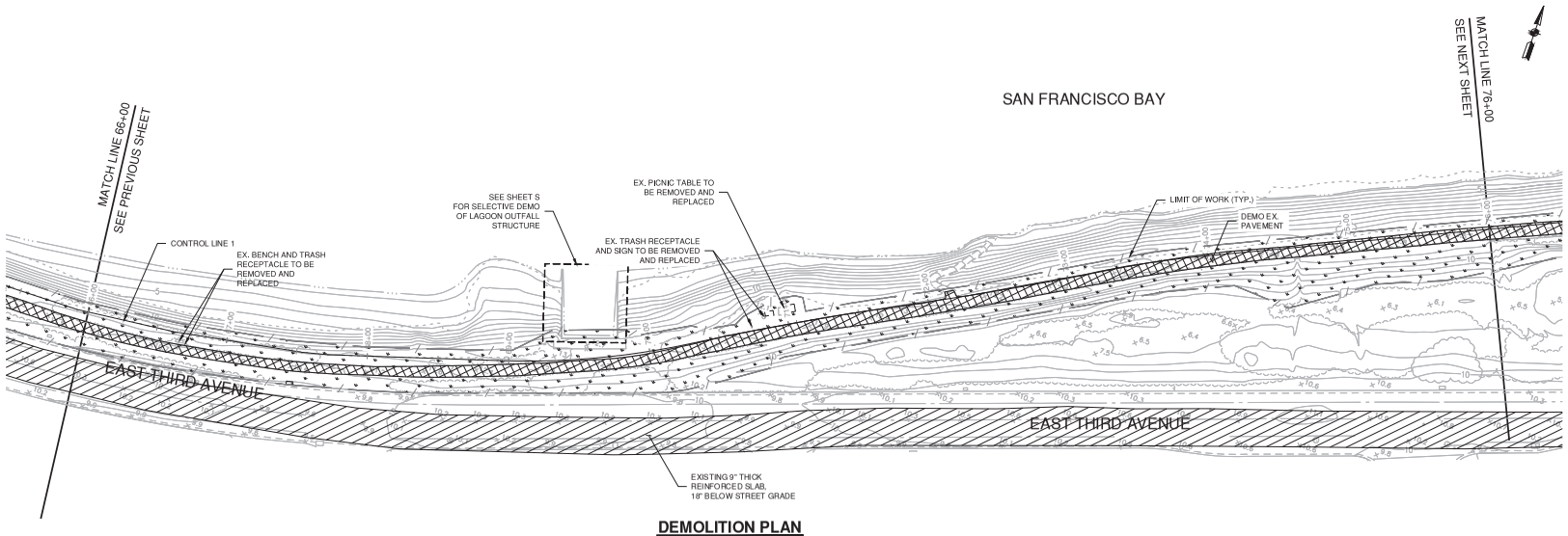
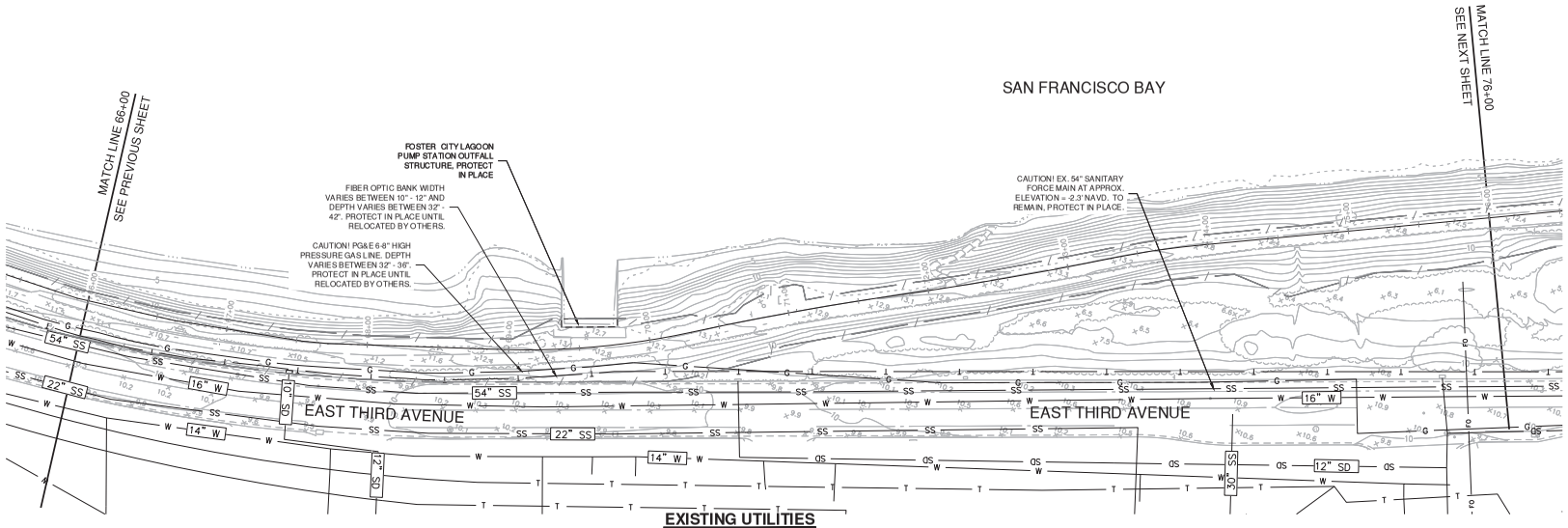


DEMOLITION PLAN

SCALE: 1" = 40'



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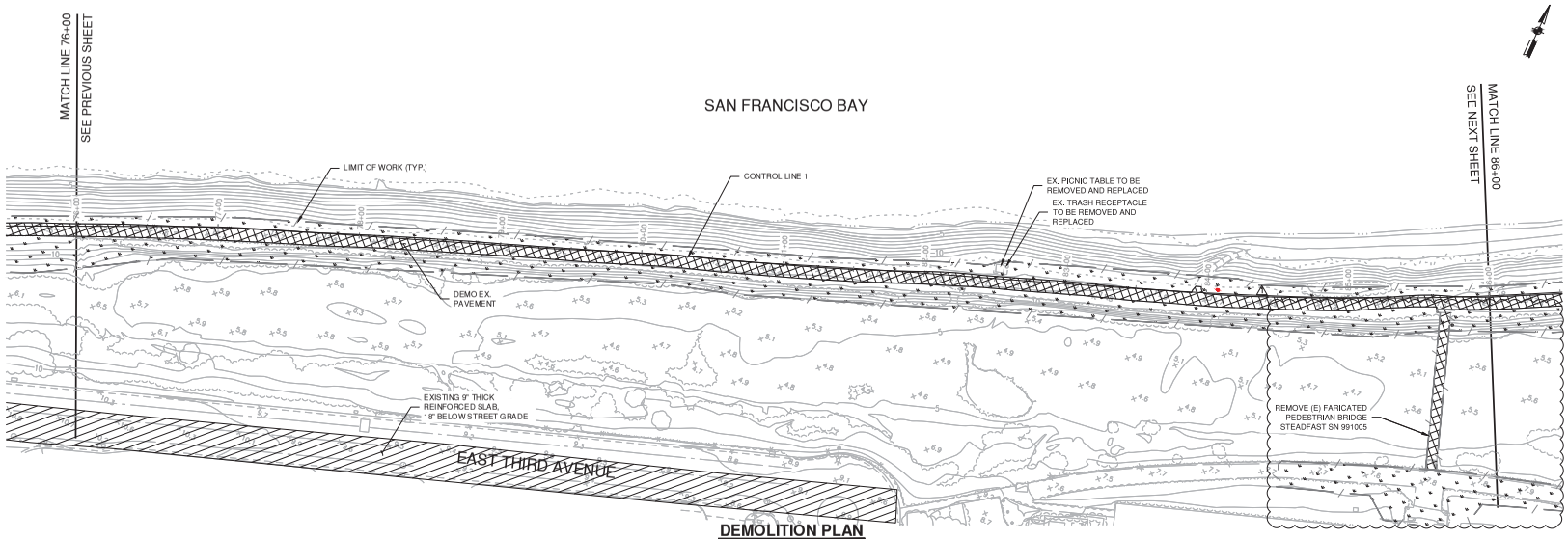
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

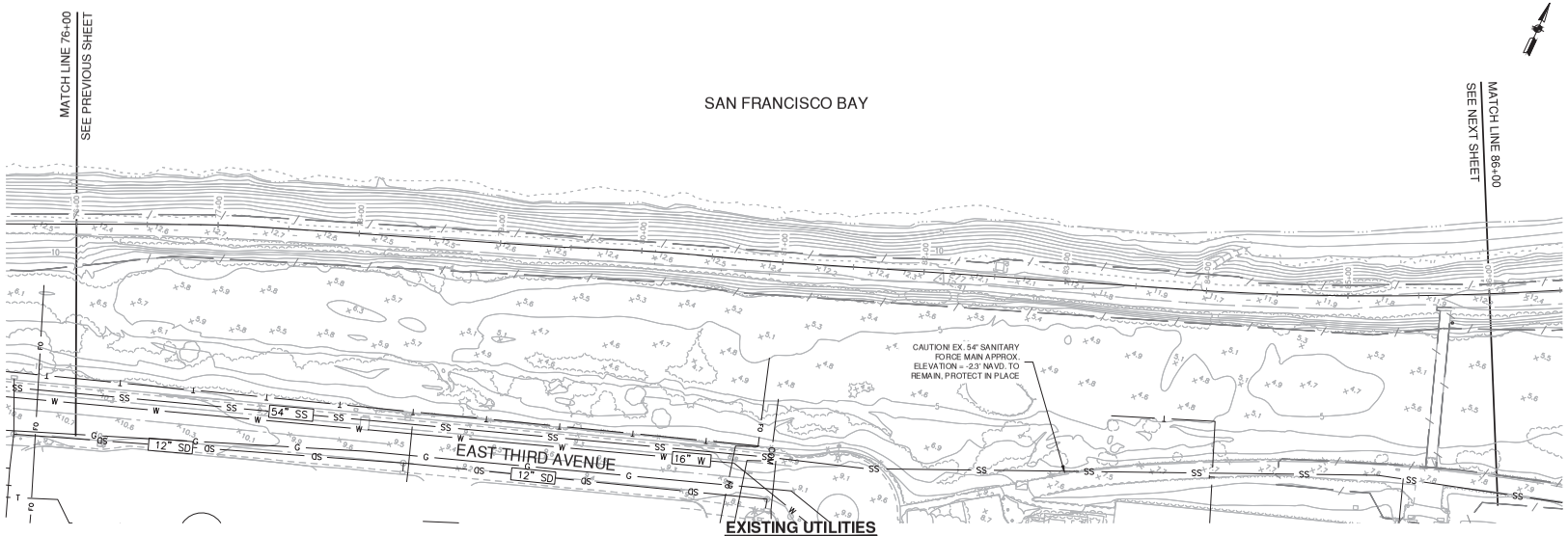
DEMOLITION AND UTILITIES

SHEET
DU 08
SHEET 050 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 09
SHEET 051 OF 384
CIP PROJ. NUMBER
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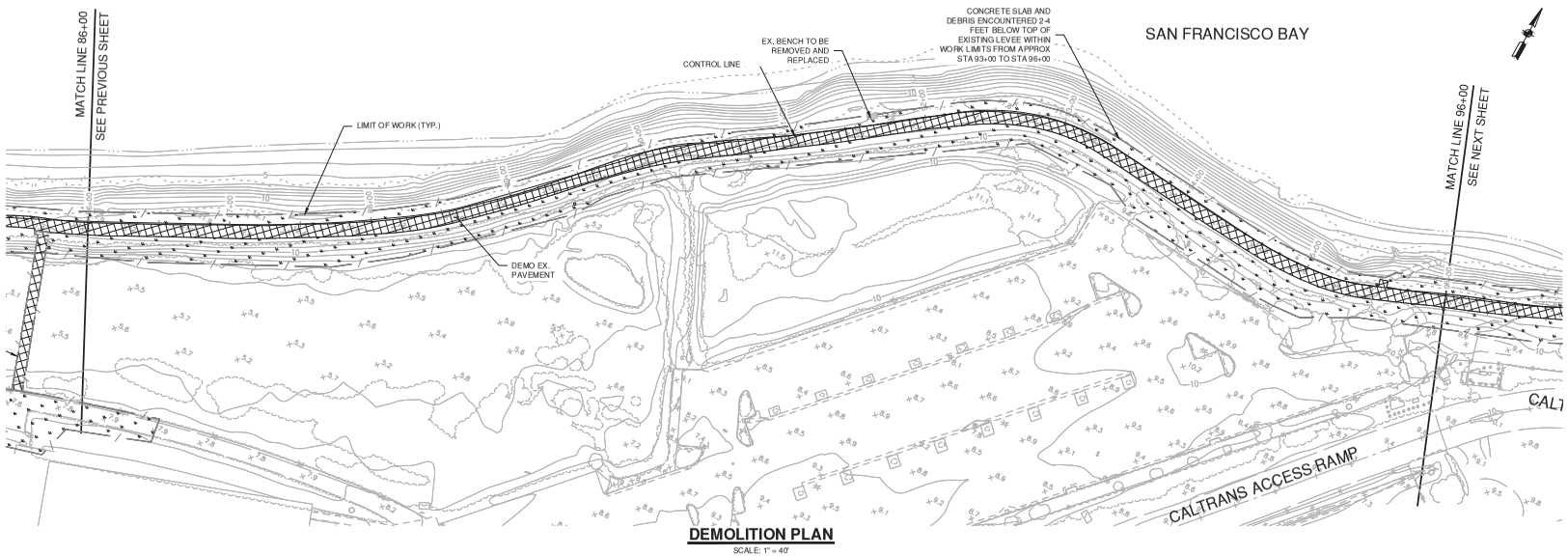
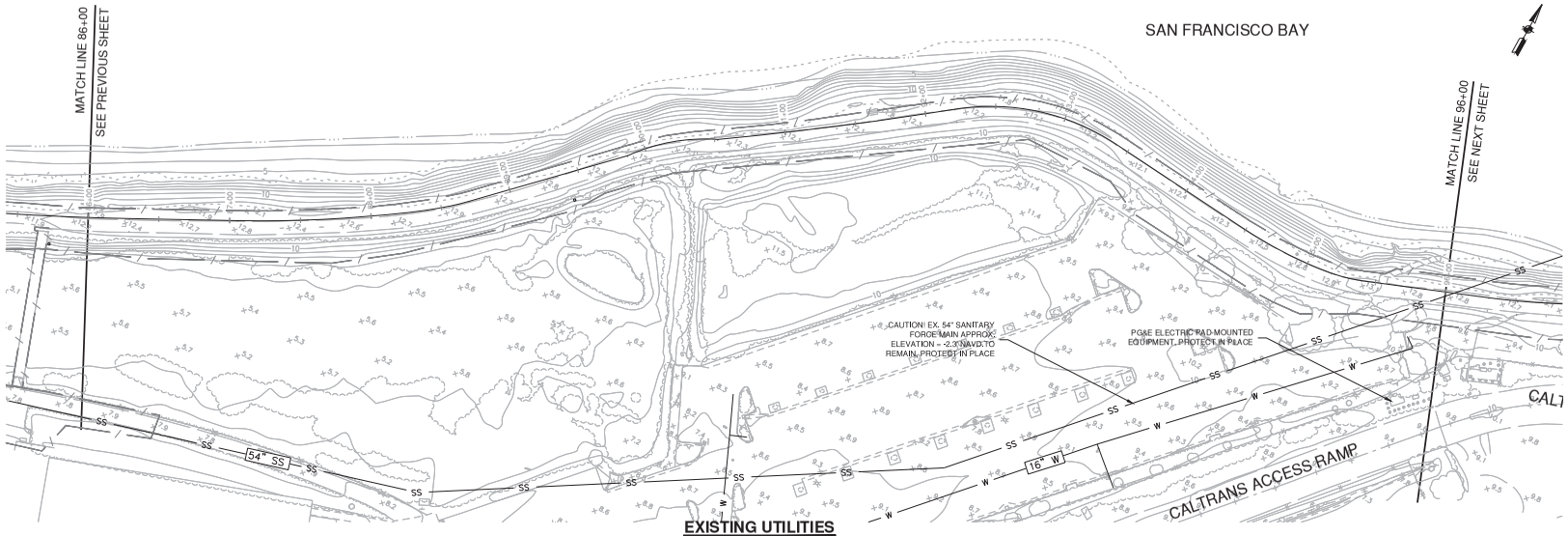


DEMOLITION PLAN

SCALE: 1" = 40'



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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 10
SHEET 052 OF 384
CIP PROJ. NUMBER
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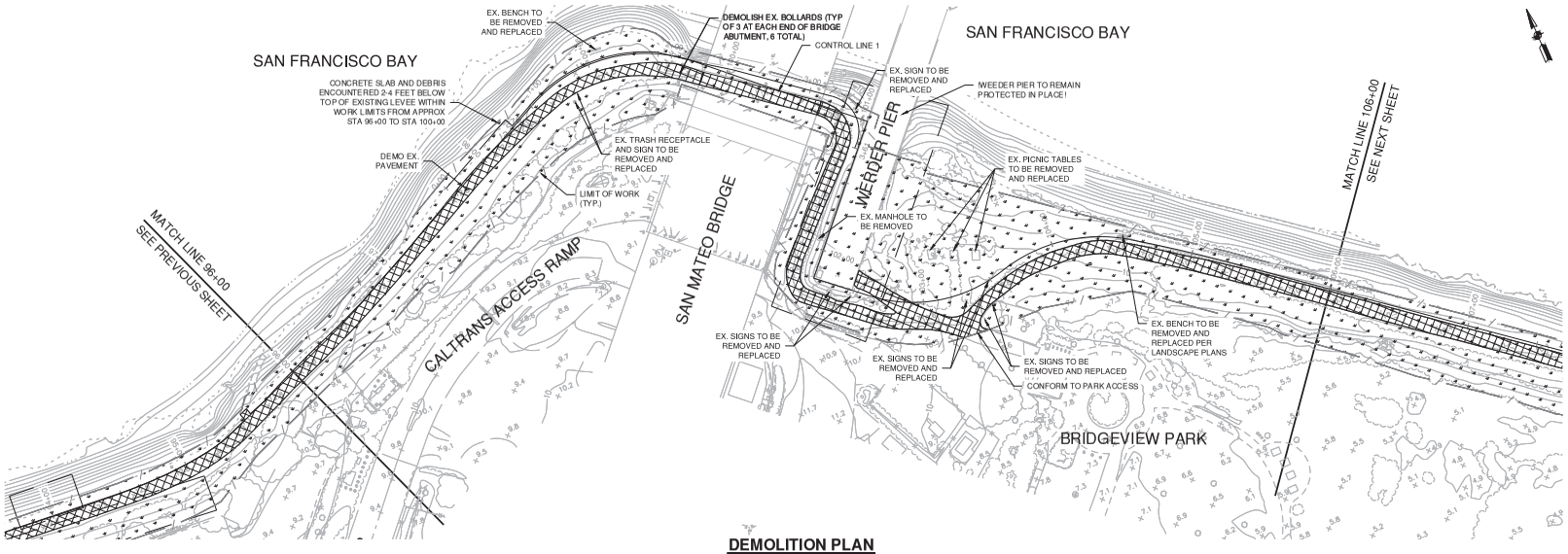
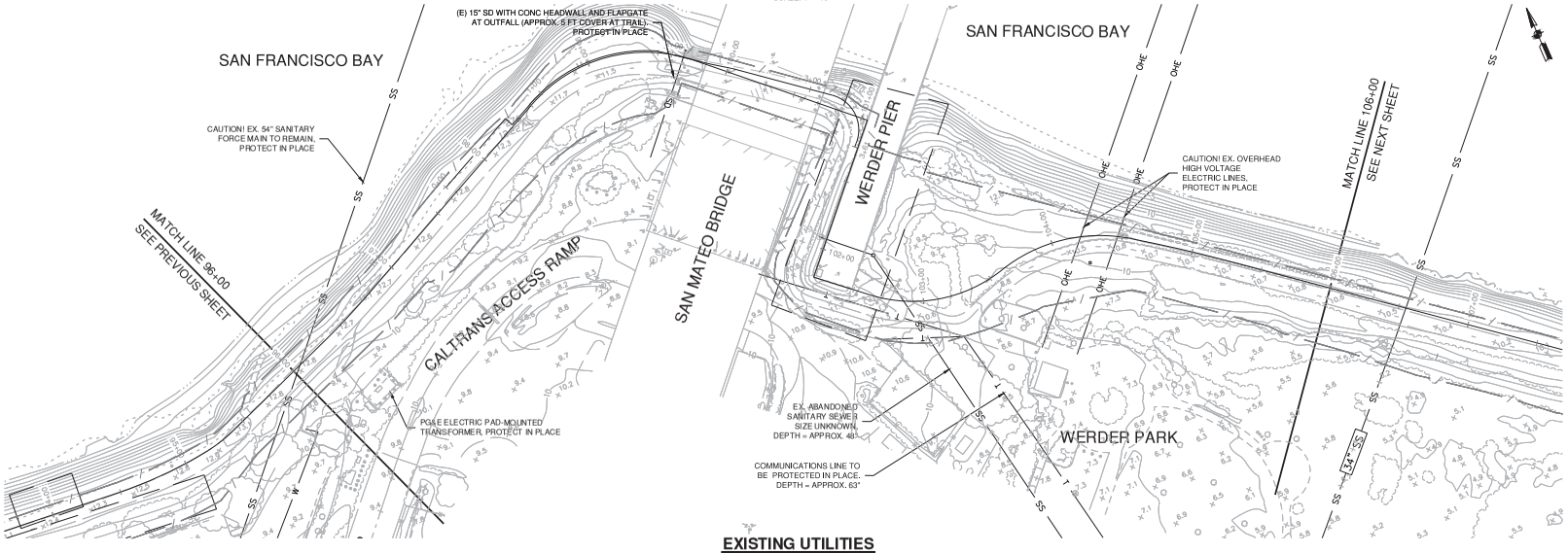


DEMOLITION PLAN

SCALE: 1" = 40'



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DEMOLITION AND UTILITIES

SHEET
DU 11
SHEET 053 OF 384

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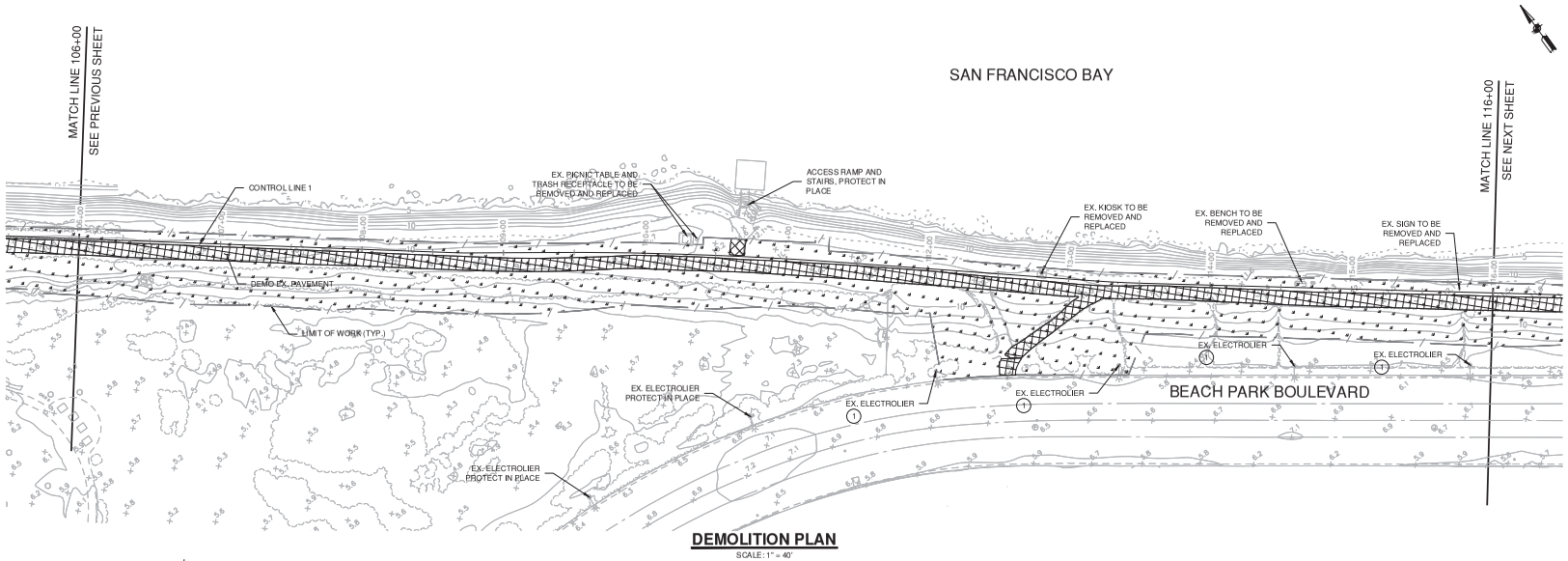
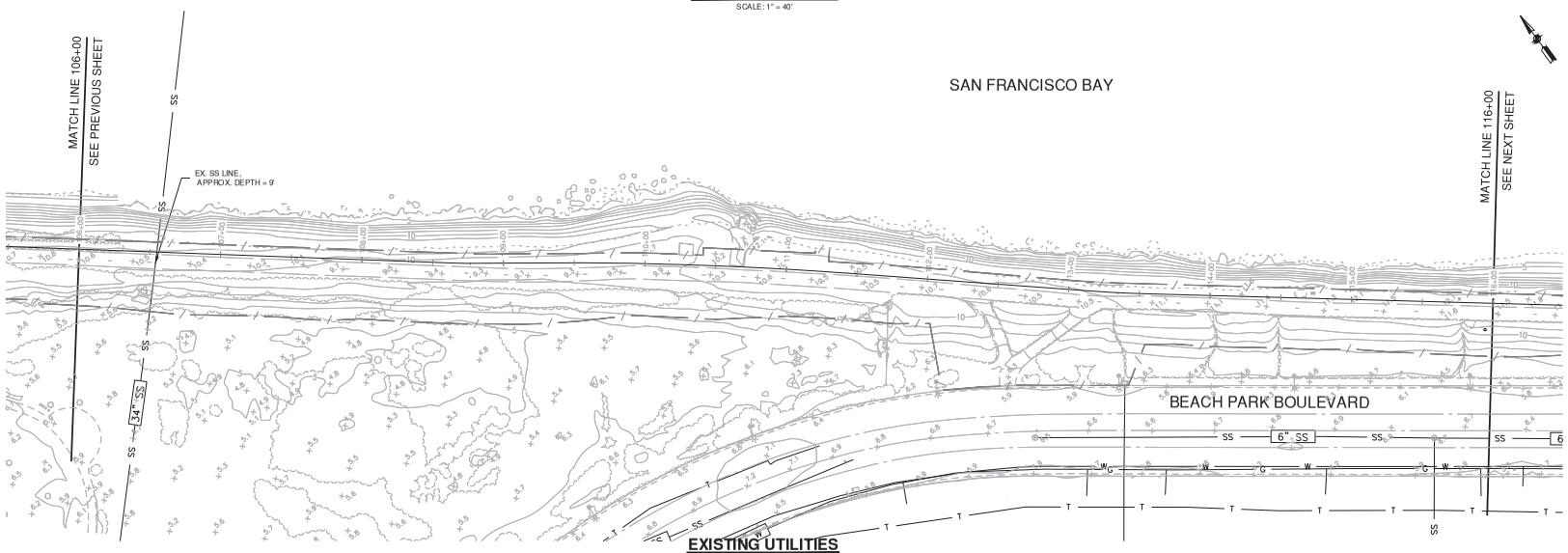


DEMOLITION PLAN

SCALE: 1" = 40'



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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SHEET NOTE

(1) REMOVE AND REPLACE ELECTROLIER PER (1/C5) (2/C5)

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ES
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFROM SET

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PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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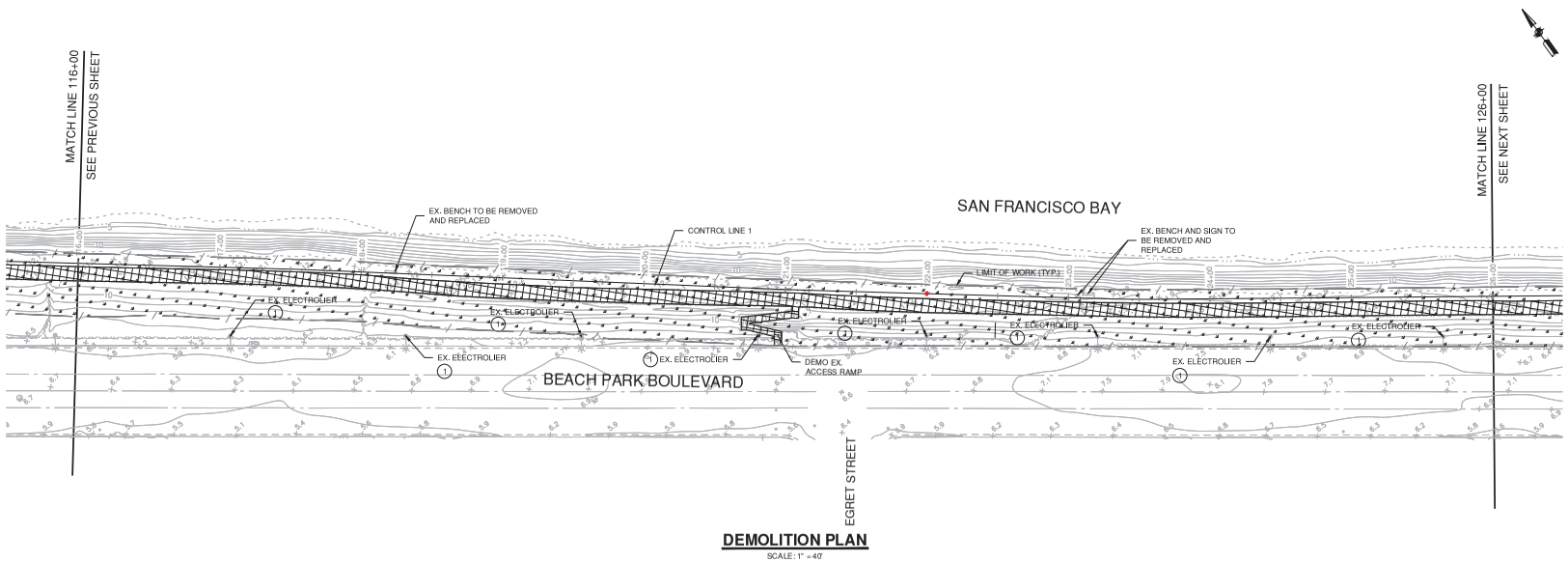
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 12
SHEET 054 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'

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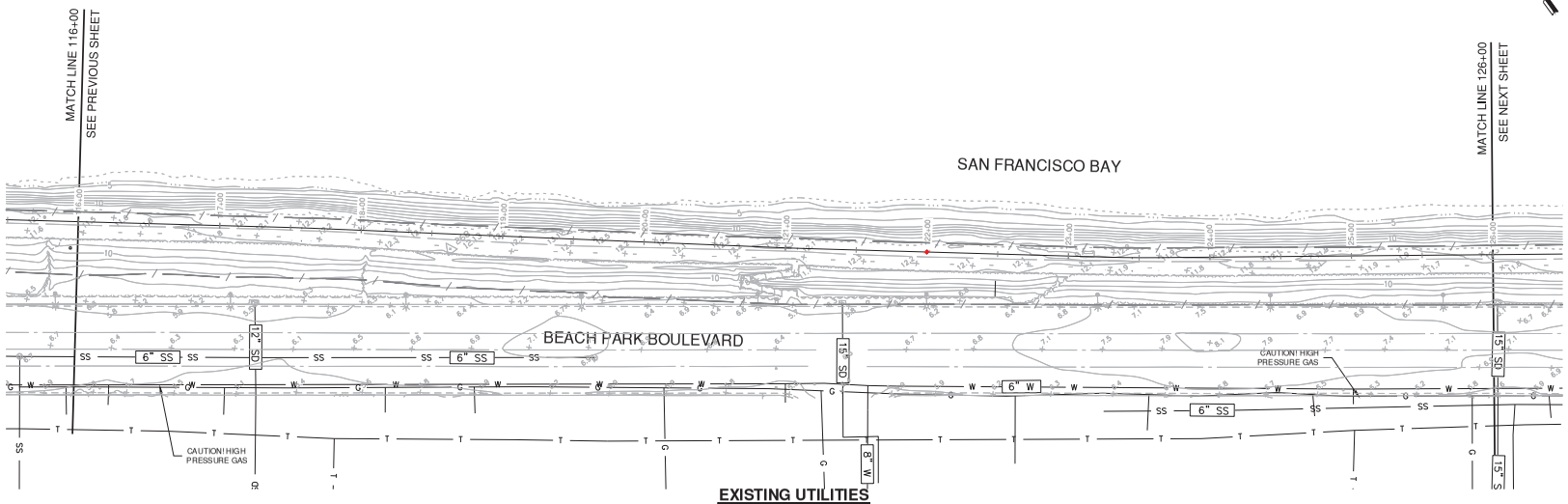
LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SHEET NOTE

(1) REMOVE AND REPLACE ELECTROLIER PER 1/C5 2/C5



EXISTING UTILITIES

SCALE: 1" = 40'

SCALE VERIFICATION

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SCALE: 1 INCH = 40 FEET

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DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

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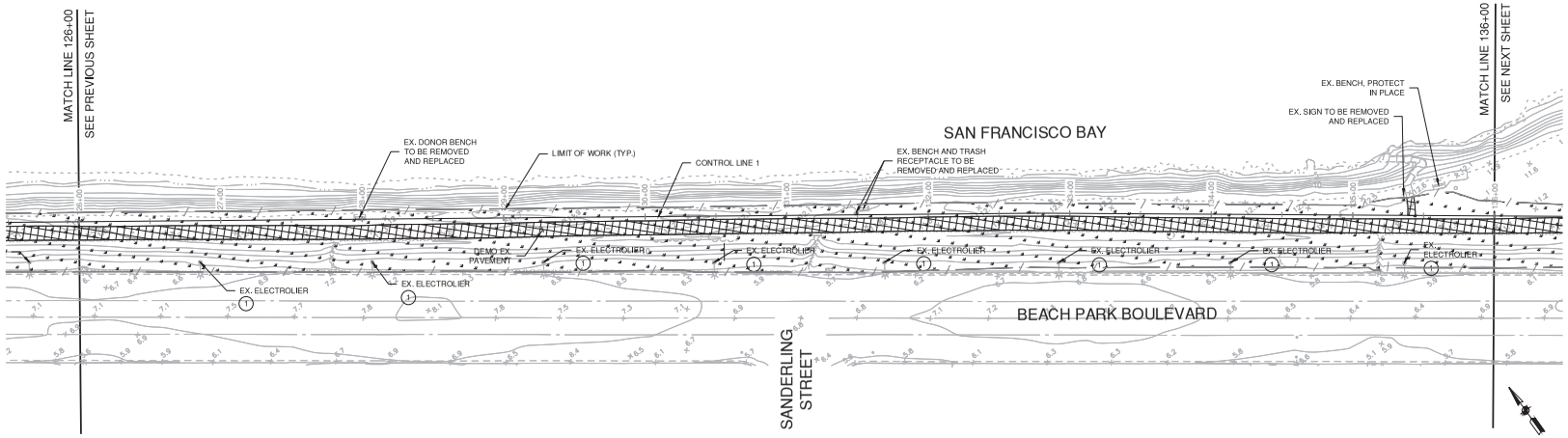
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

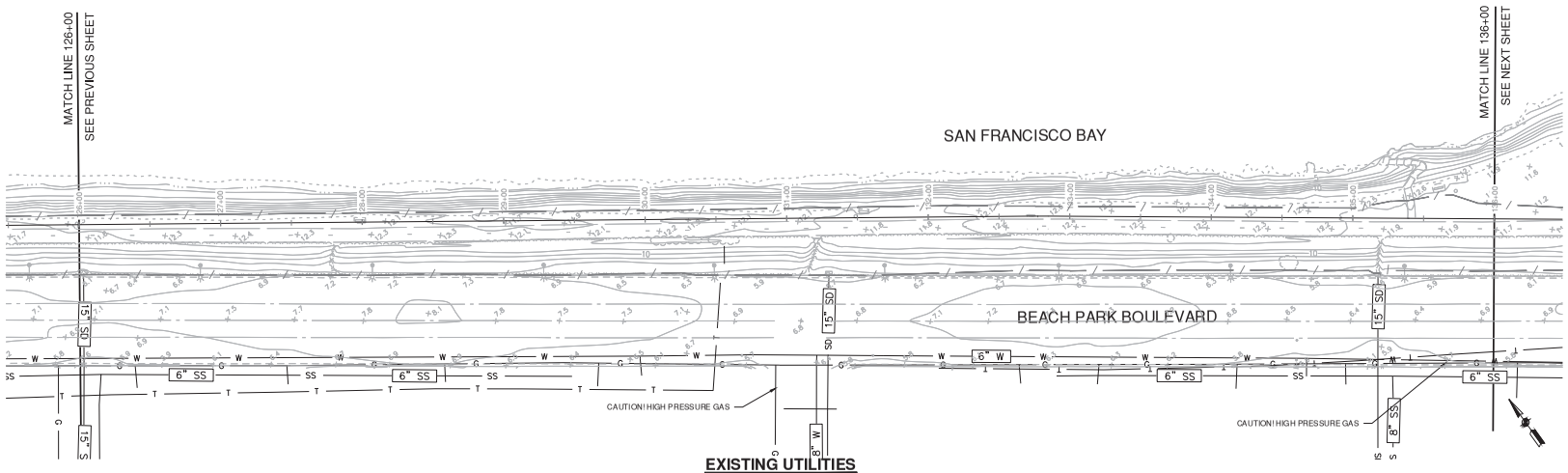
DEMOLITION AND UTILITIES

SHEET
DU 13
SHEET 055 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SHEET NOTE

(1) REMOVE AND REPLACE ELECTROLIER PER 1/C5 2/C5

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DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
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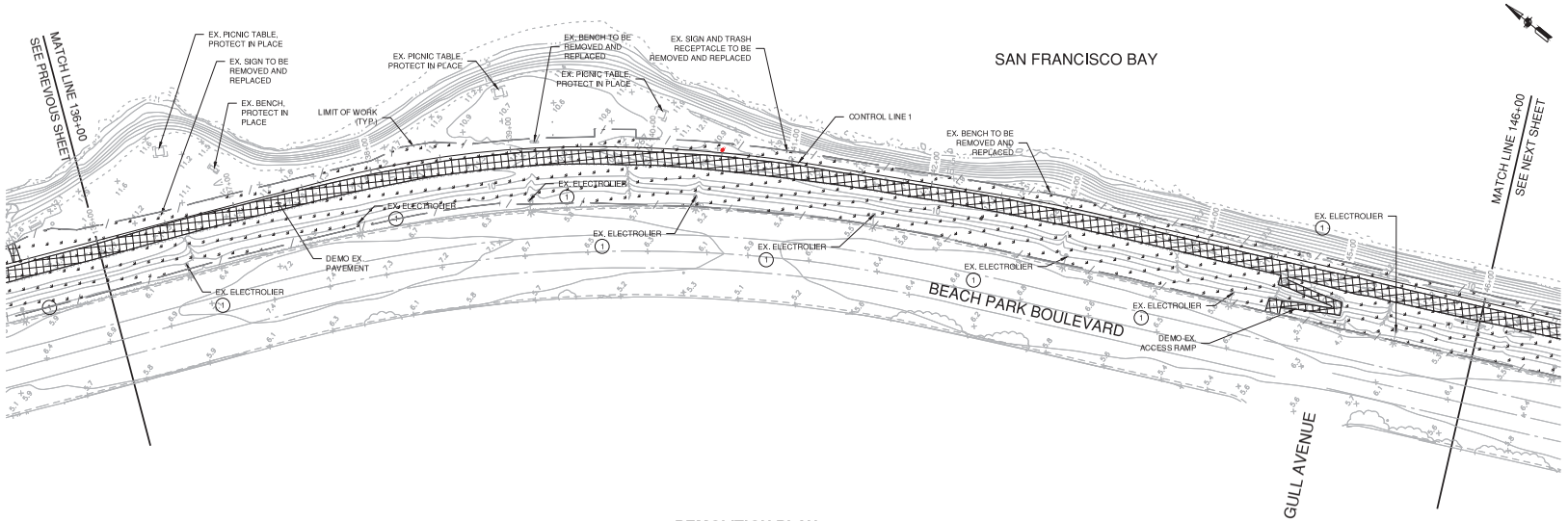
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

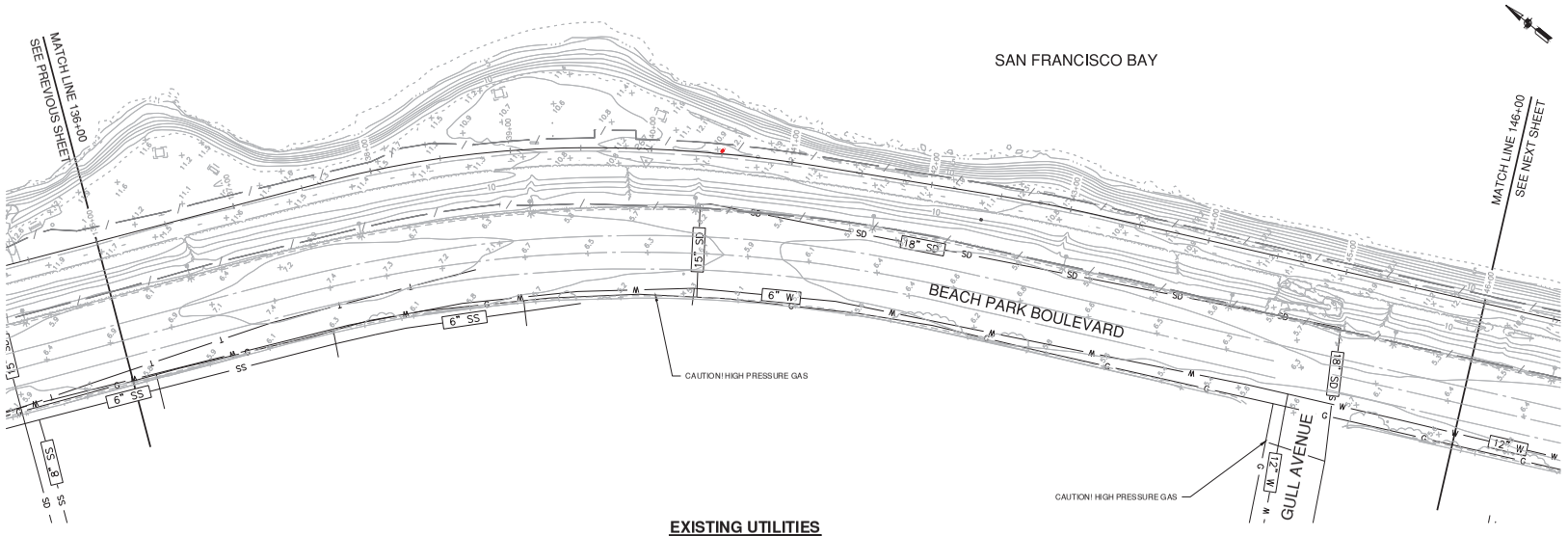
DEMOLITION AND UTILITIES

SHEET
DU 14
SHEET 056 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SHEET NOTE

(1) REMOVE AND REPLACE ELECTROLIER PER 1/GS & 2/GS

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40 0 40 80

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DATE:	4/24/2020		
SCALE:	AS SHOWN		
DRAWN BY:	ES		
PROJECT NUMBER:	FOST.12.16		
DESIGNED BY:	ES		
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SURVEYED BY:	WILSEY-HAM		

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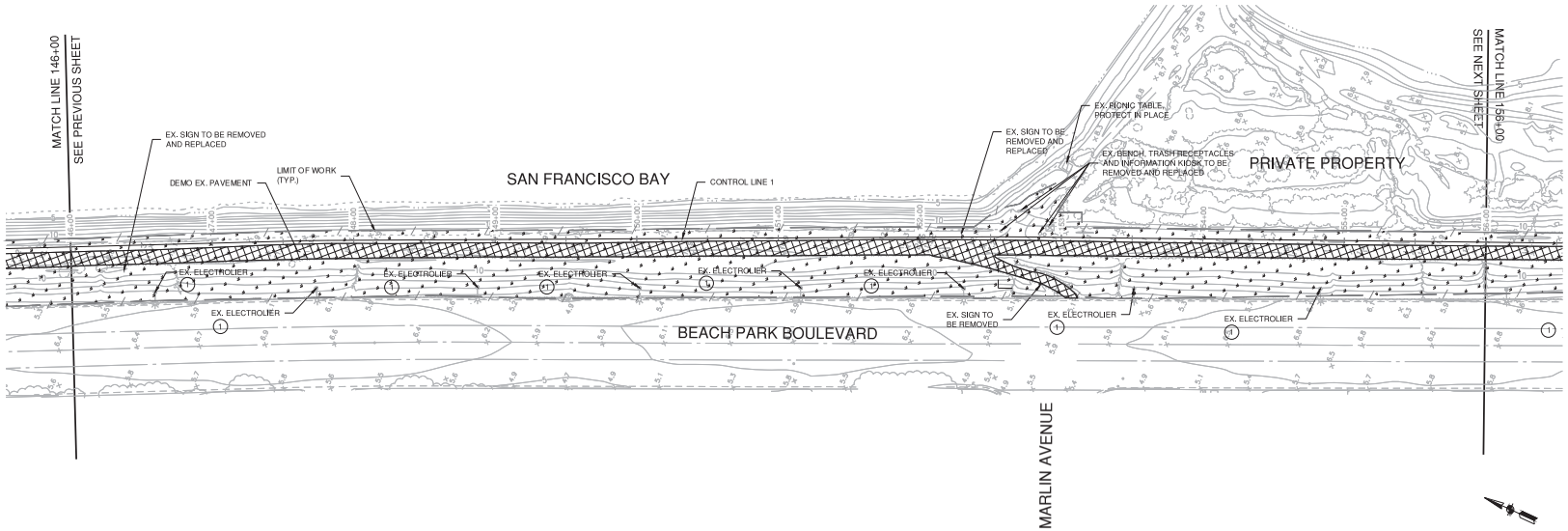
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

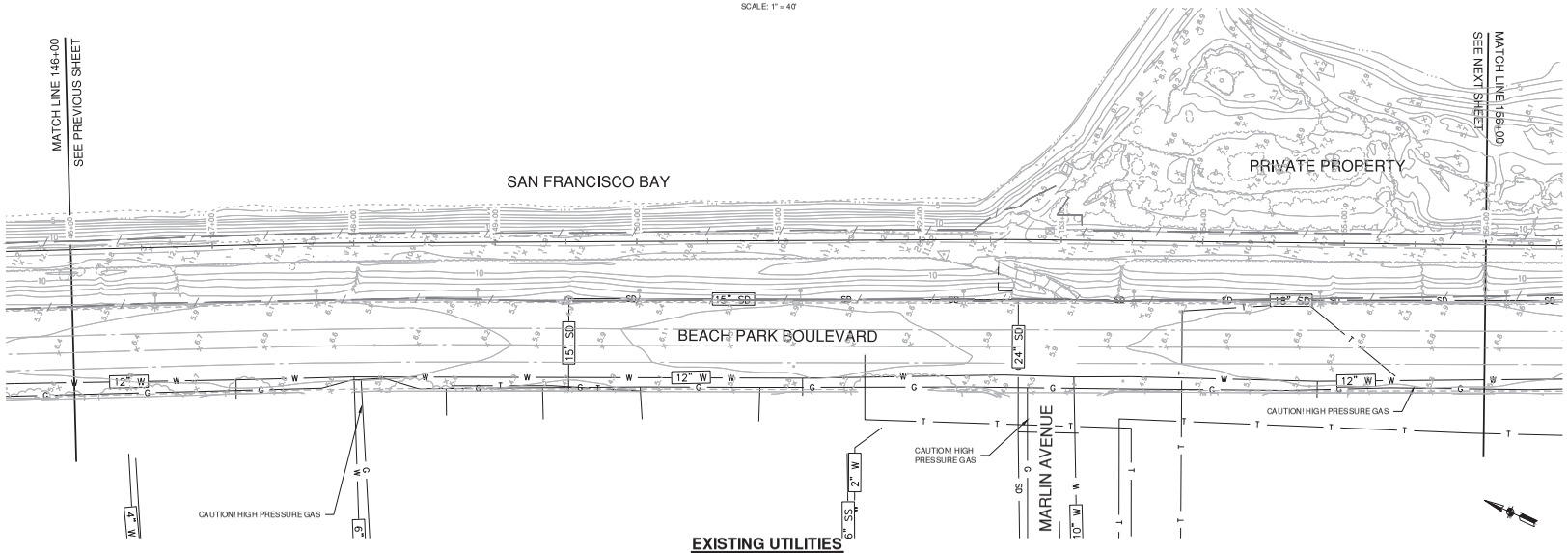
DEMOLITION AND UTILITIES

SHEET
DU 15
SHEET 057 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SHEET NOTE

(1) REMOVE AND REPLACE ELECTROLIER PER 1/C5 2/C5

SCALE VERIFICATION

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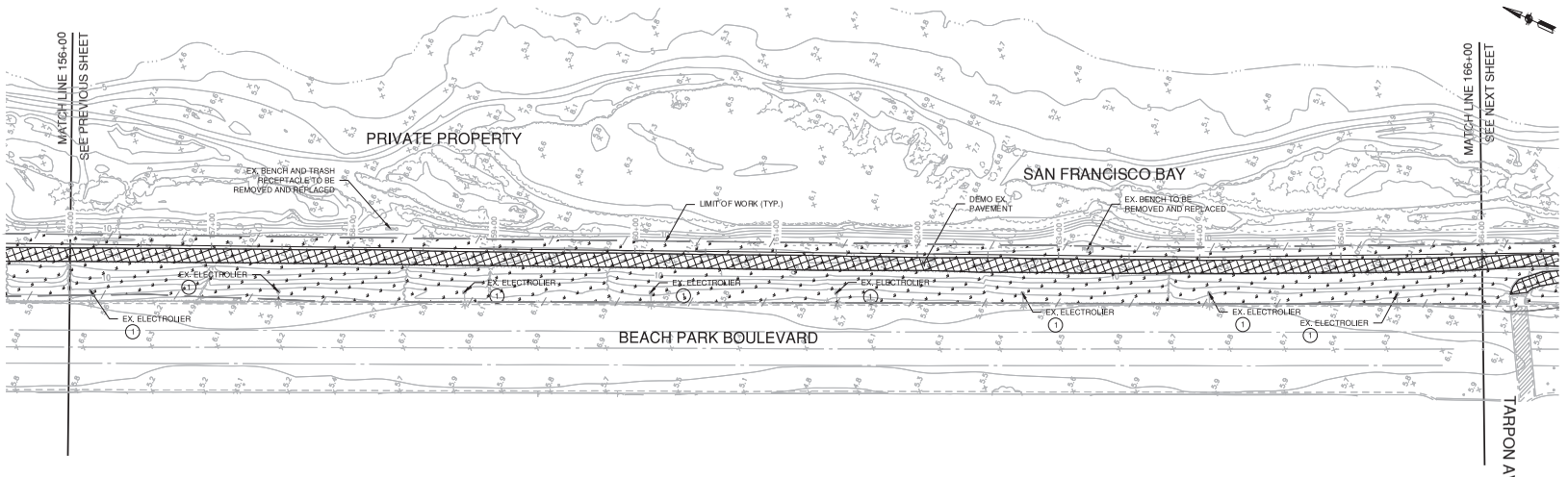
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

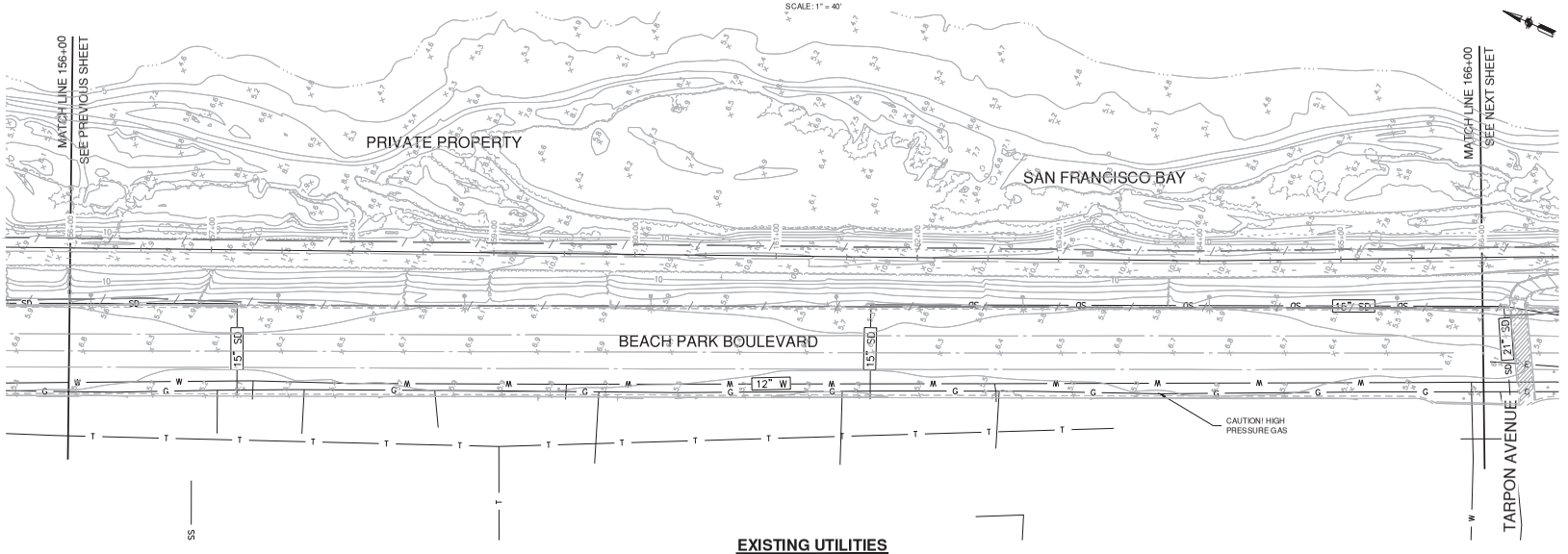
SHEET
DU 16
SHEET 058 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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LEGEND:

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- CLEAR AND GRUB

SHEET NOTE

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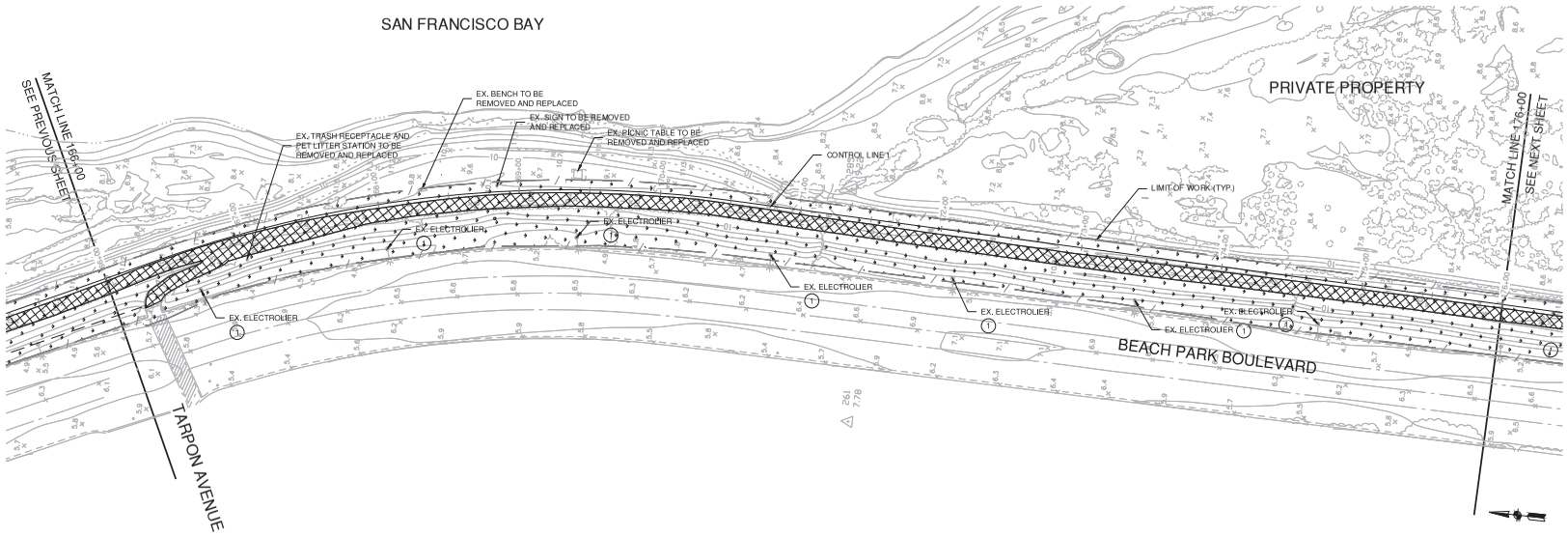
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

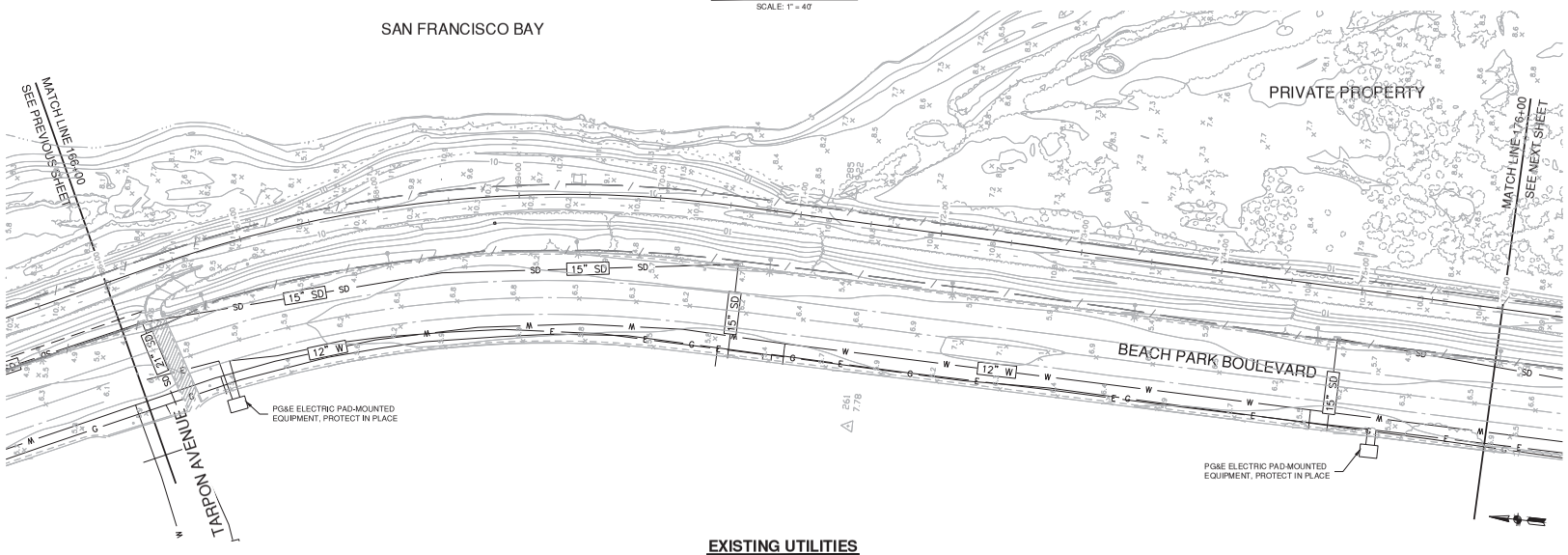
DEMOLITION AND UTILITIES

SHEET
DU 17
SHEET 059 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

SCALE: 1" = 40'

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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SHEET NOTE

(1) REMOVE AND REPLACE ELECTROLIER PER 1/C5 2/C5

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0 1"

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFROM SET

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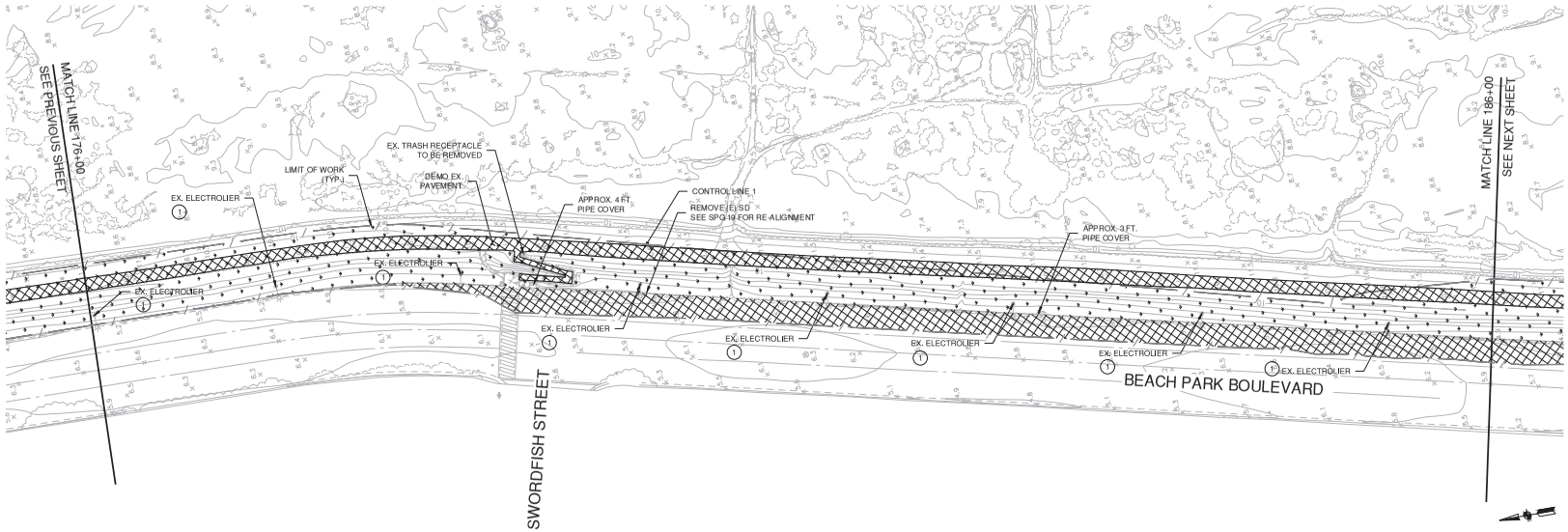
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

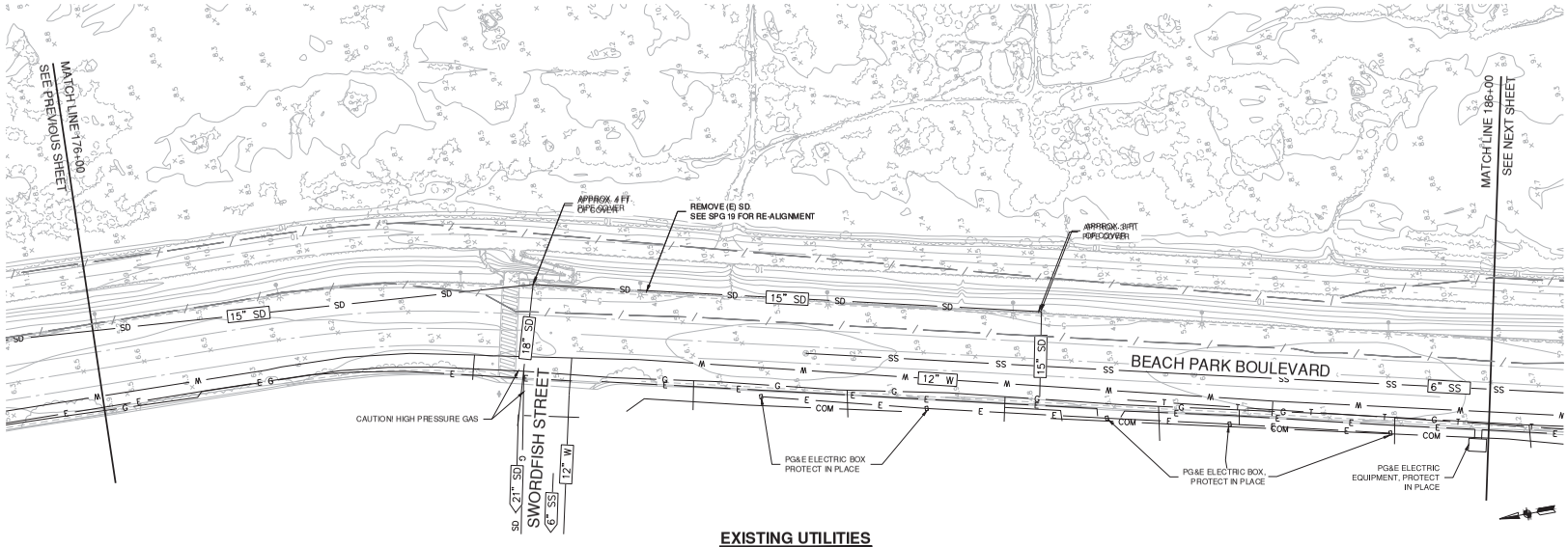
DEMOLITION AND UTILITIES

SHEET
DU 18
SHEET 060 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SHEET NOTE

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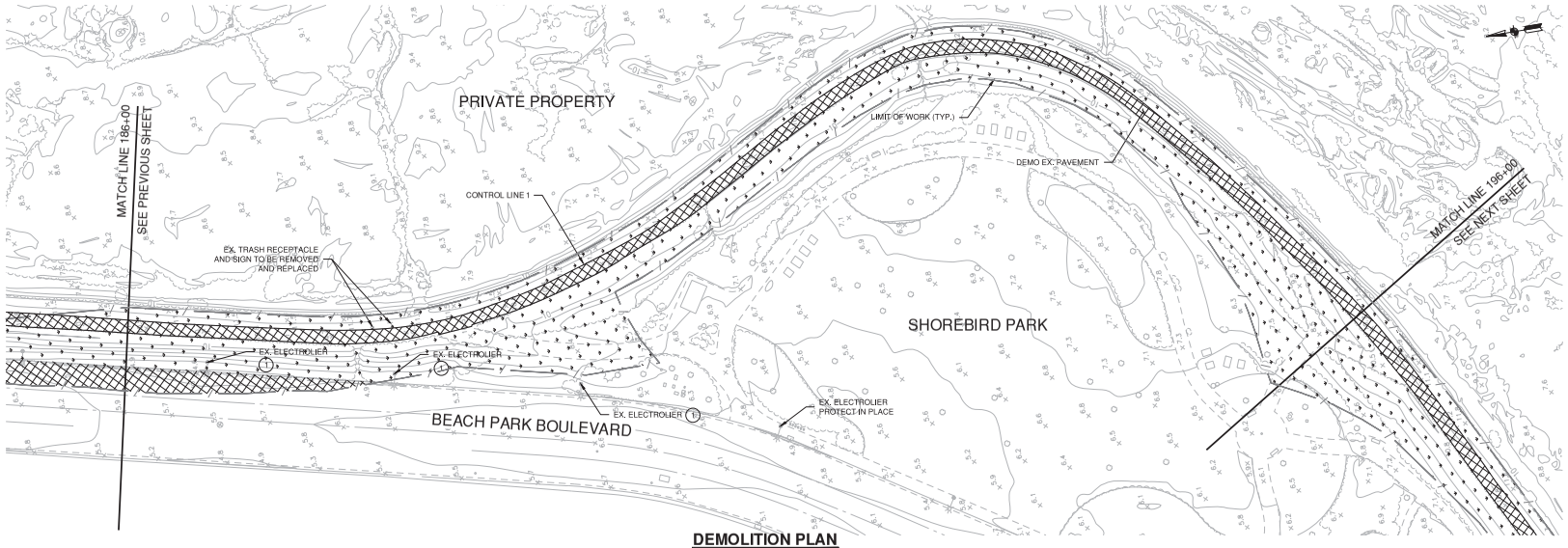
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

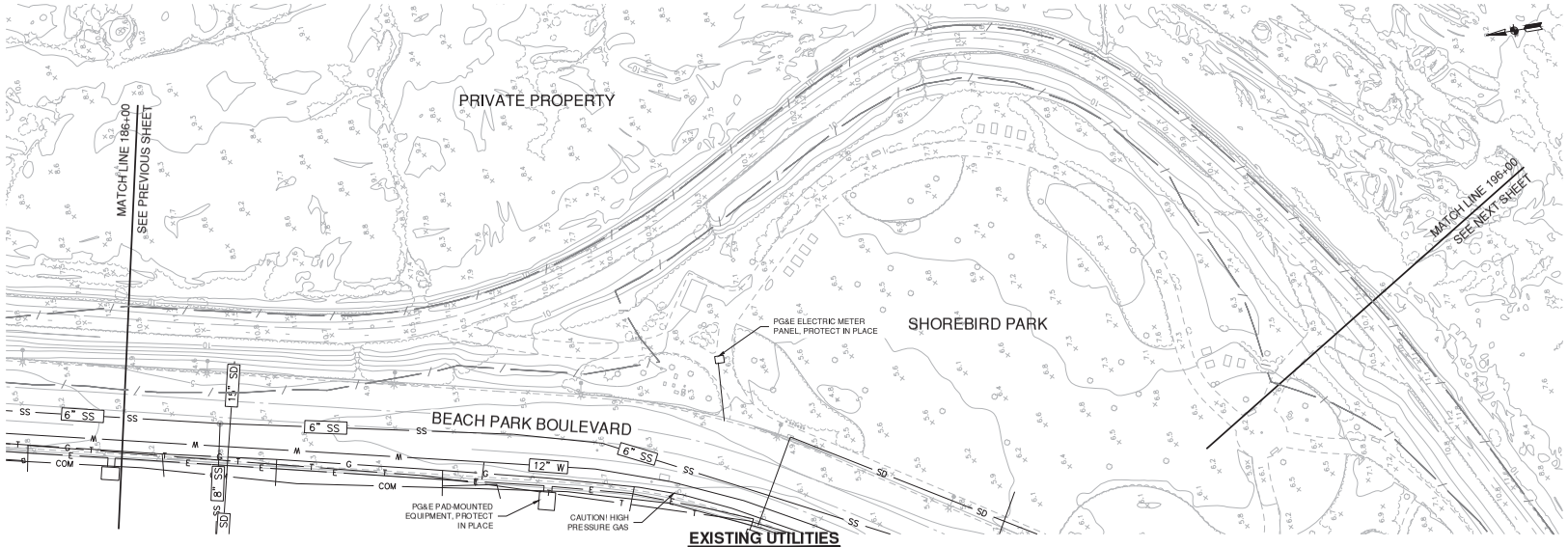
DEMOLITION AND UTILITIES

SHEET
DU 19
SHEET 061 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SHEET NOTE

(1) REMOVE AND REPLACE ELECTROLIER PER 1/C5 2/C5

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DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
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NO.	BY	DATE	REVISIONS
3			
2			
1			
0			
4	ARO	07/31/20	CONFROM SET

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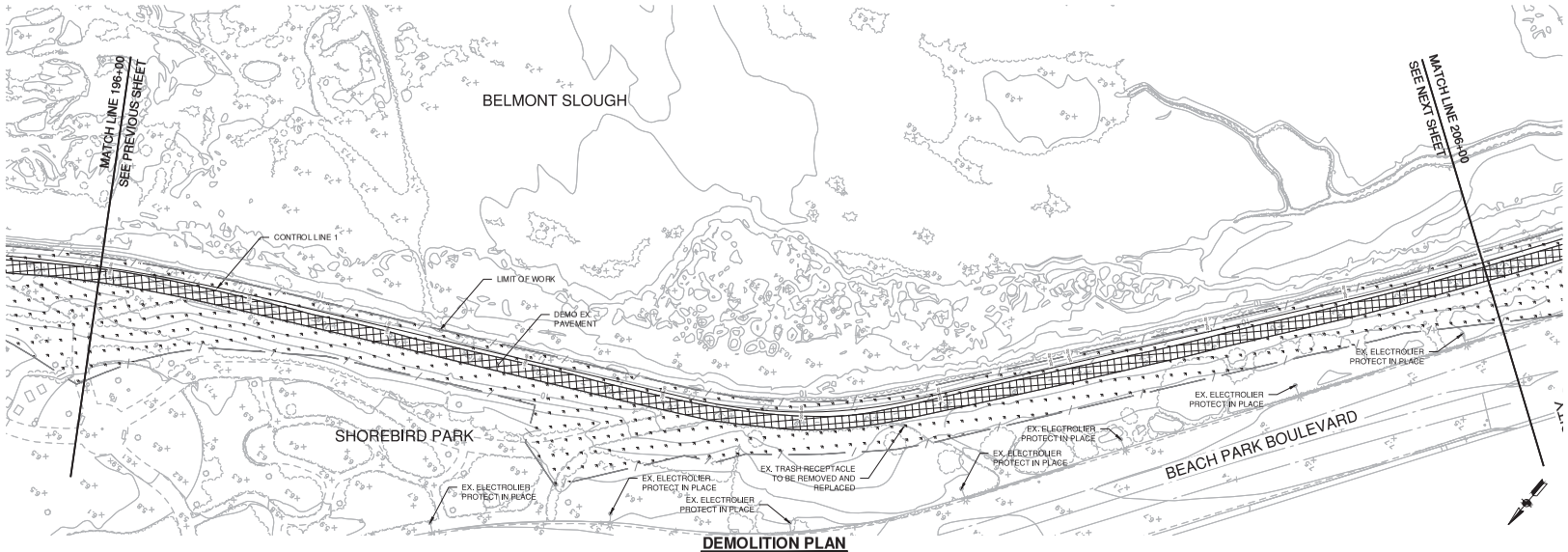
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

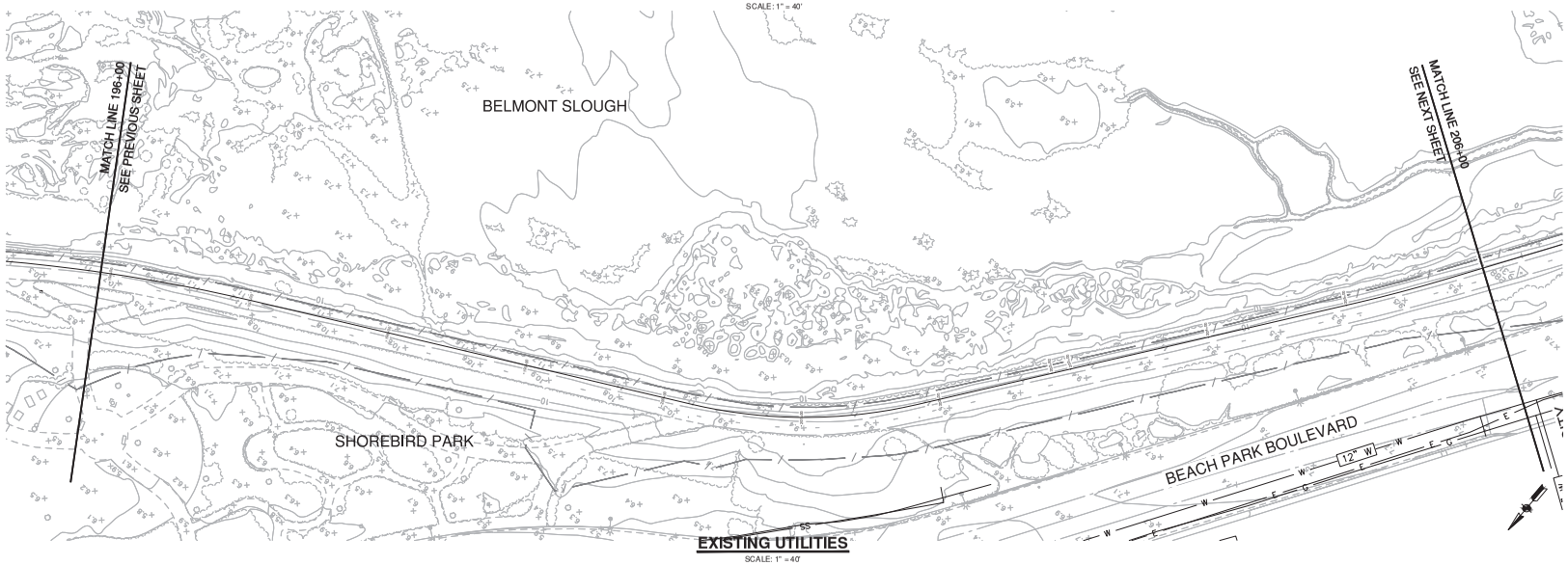
DEMOLITION AND UTILITIES

SHEET
DU 20
SHEET 062 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 21
SHEET 063 OF 384
CIP PROJ. NUMBER
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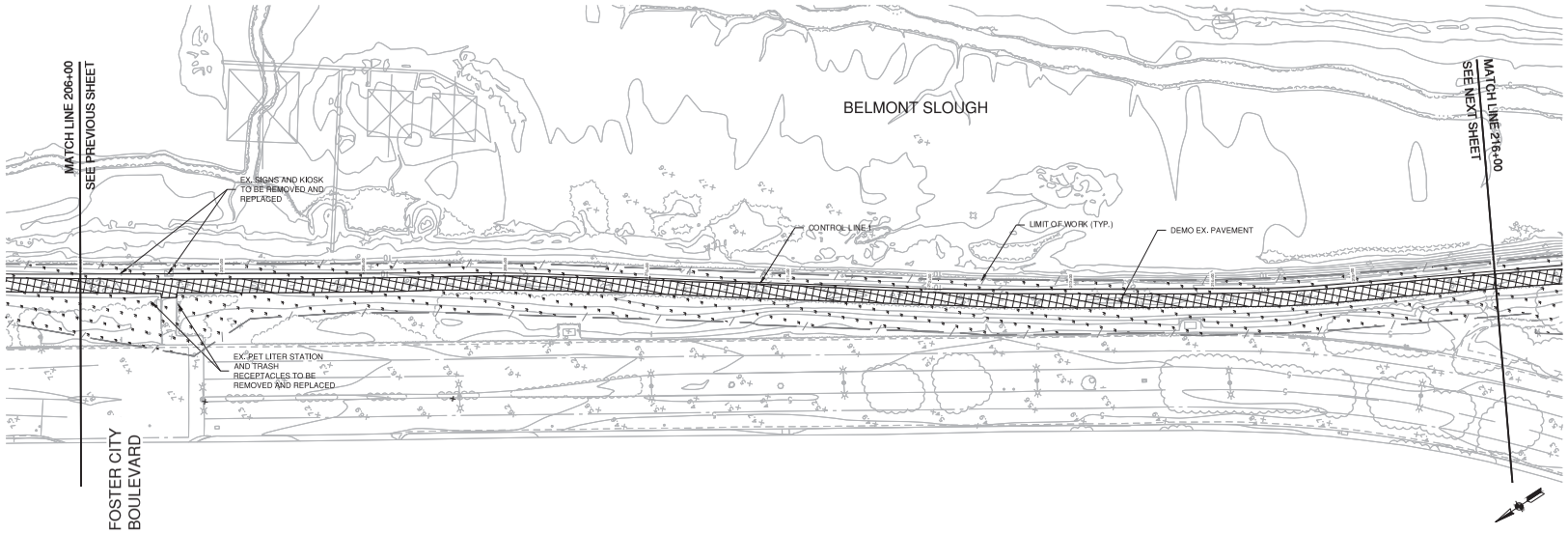
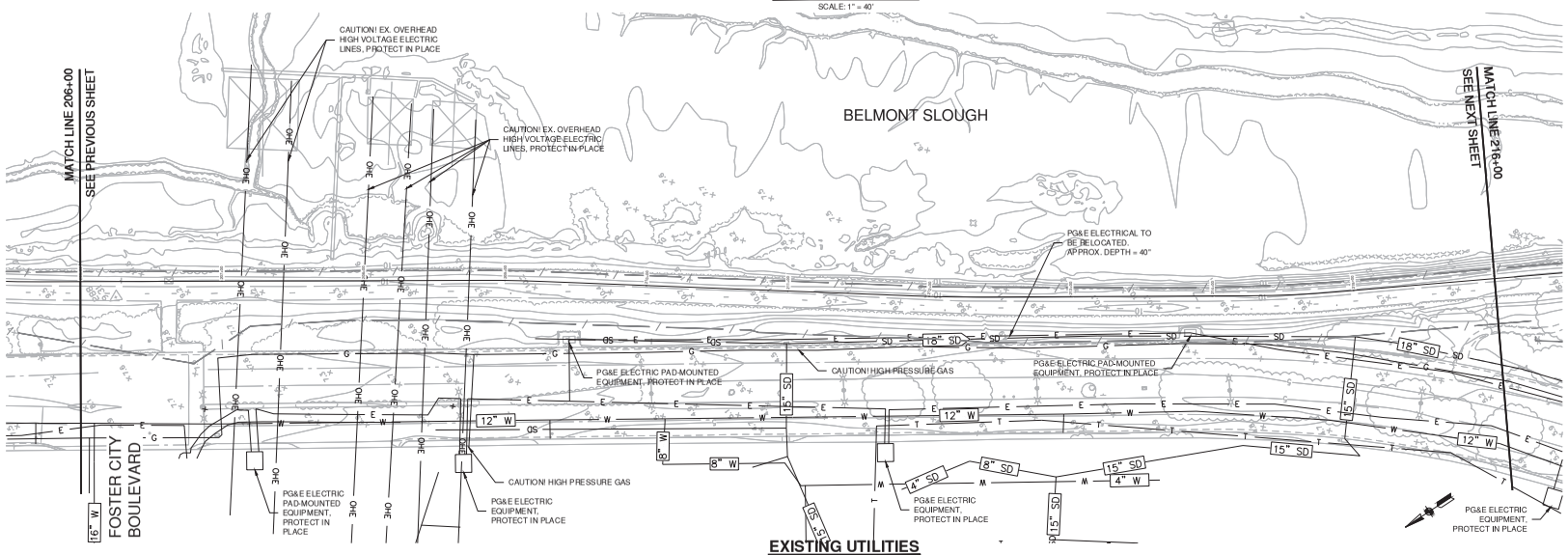


DEMOLITION PLAN

SCALE: 1" = 40'



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SHEET 064 OF 384

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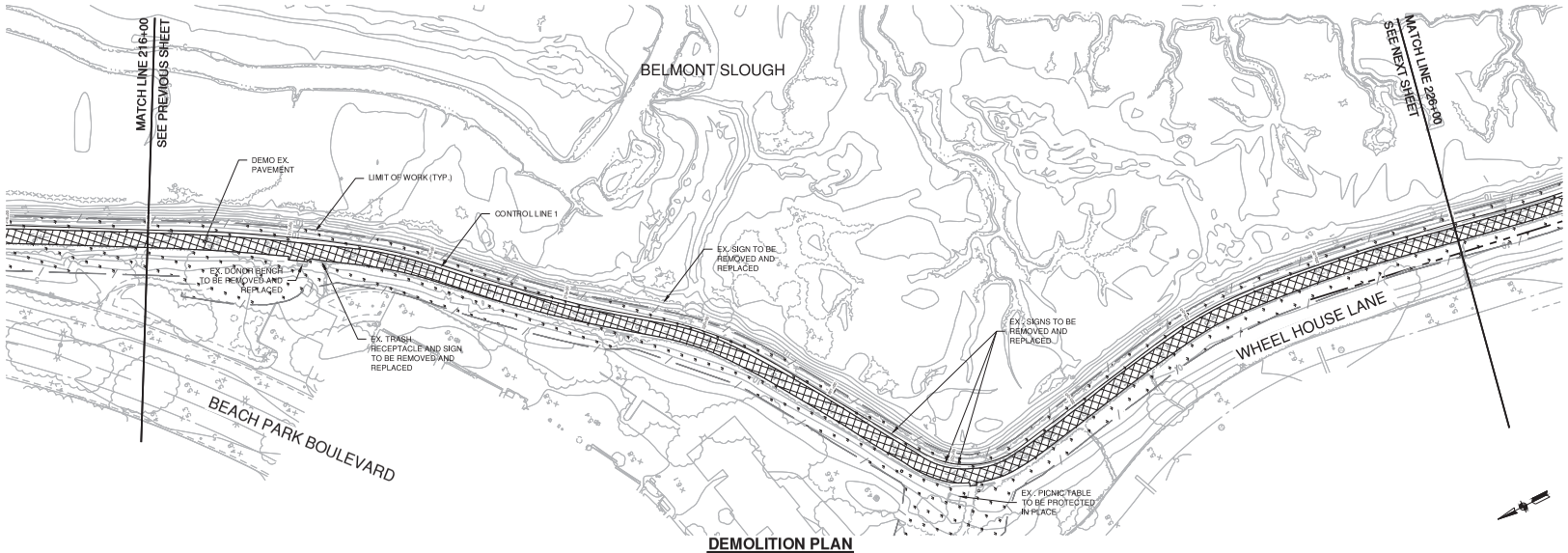
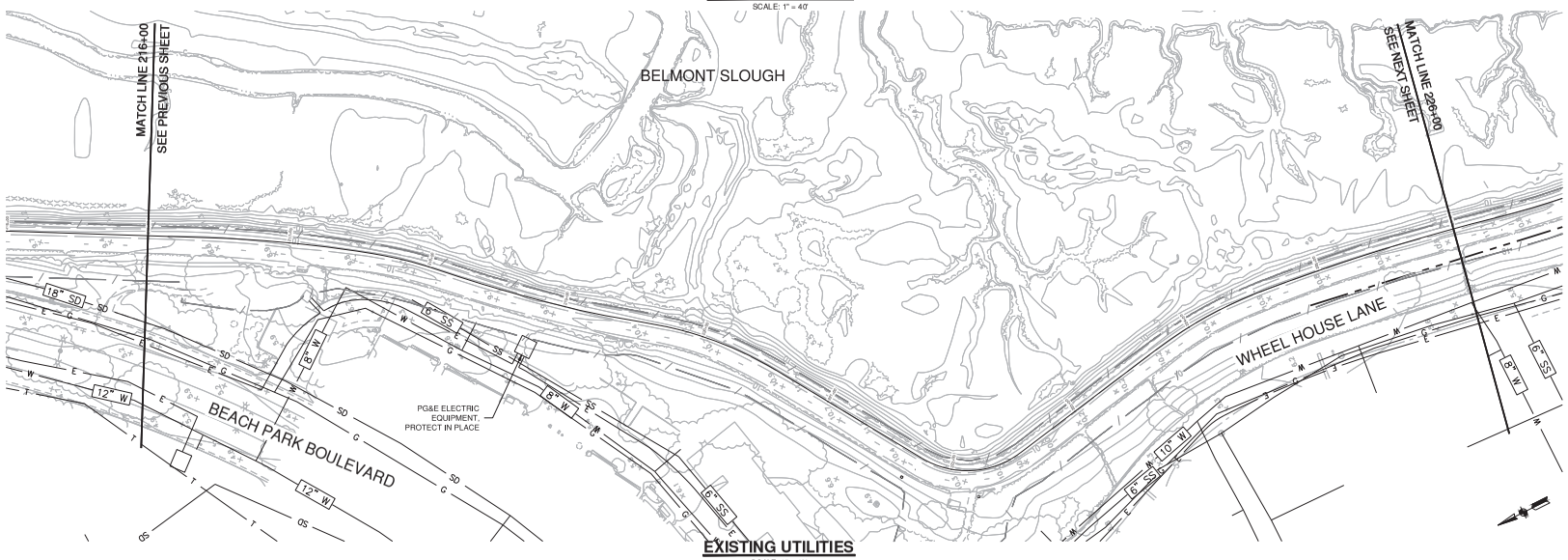


DEMOLITION PLAN

SCALE: 1" = 40'



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LEGEND:

- LIMIT OF WORK
- CLEAR AND GRUB
- DEMO PAVEMENT

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SCALE: 1 INCH = 40 FEET

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DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

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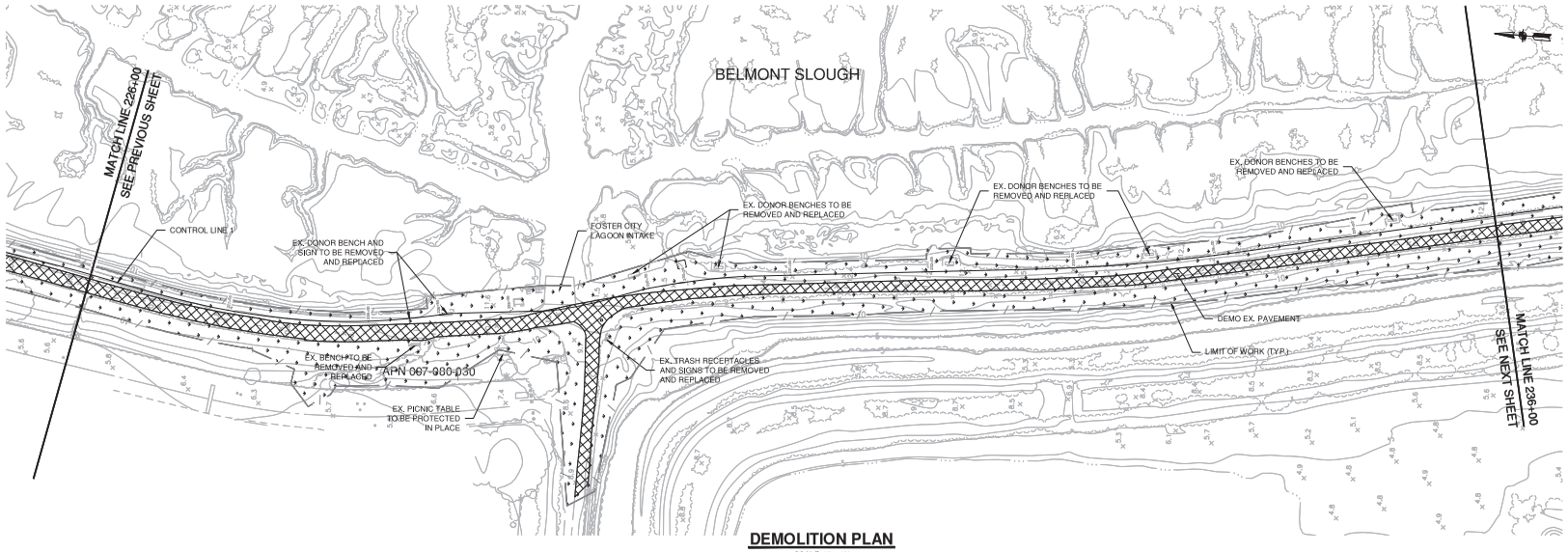
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

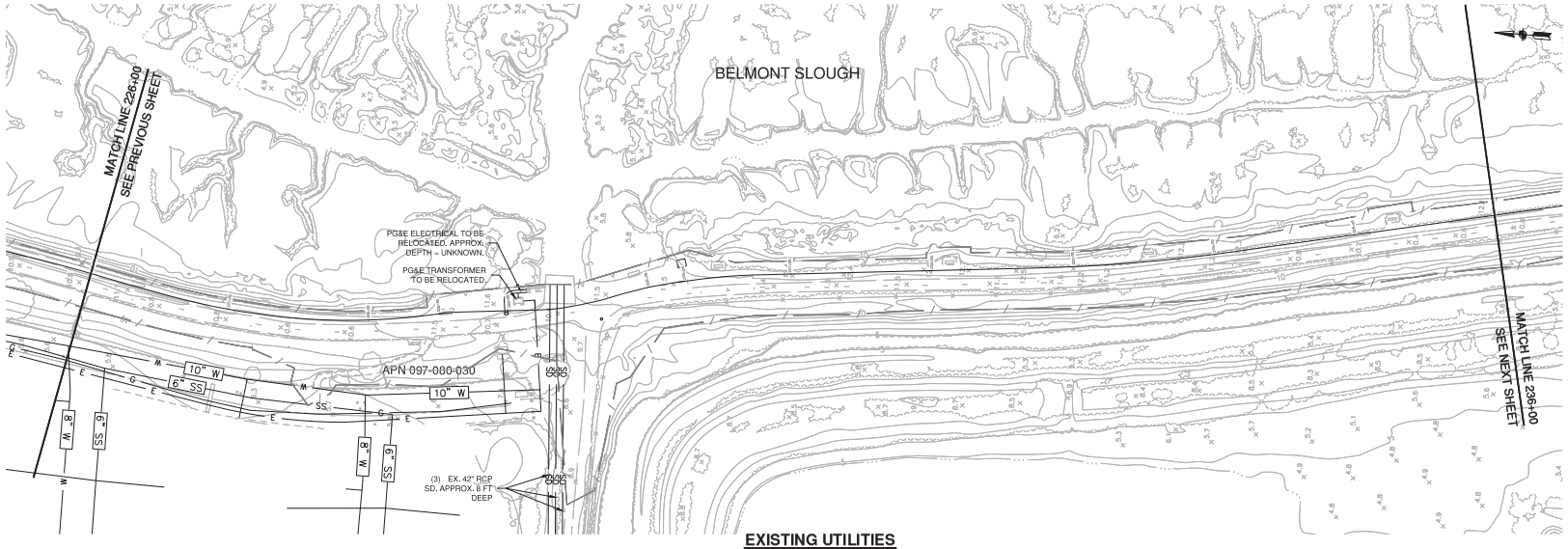
SHEET
DU 23
SHEET 065 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

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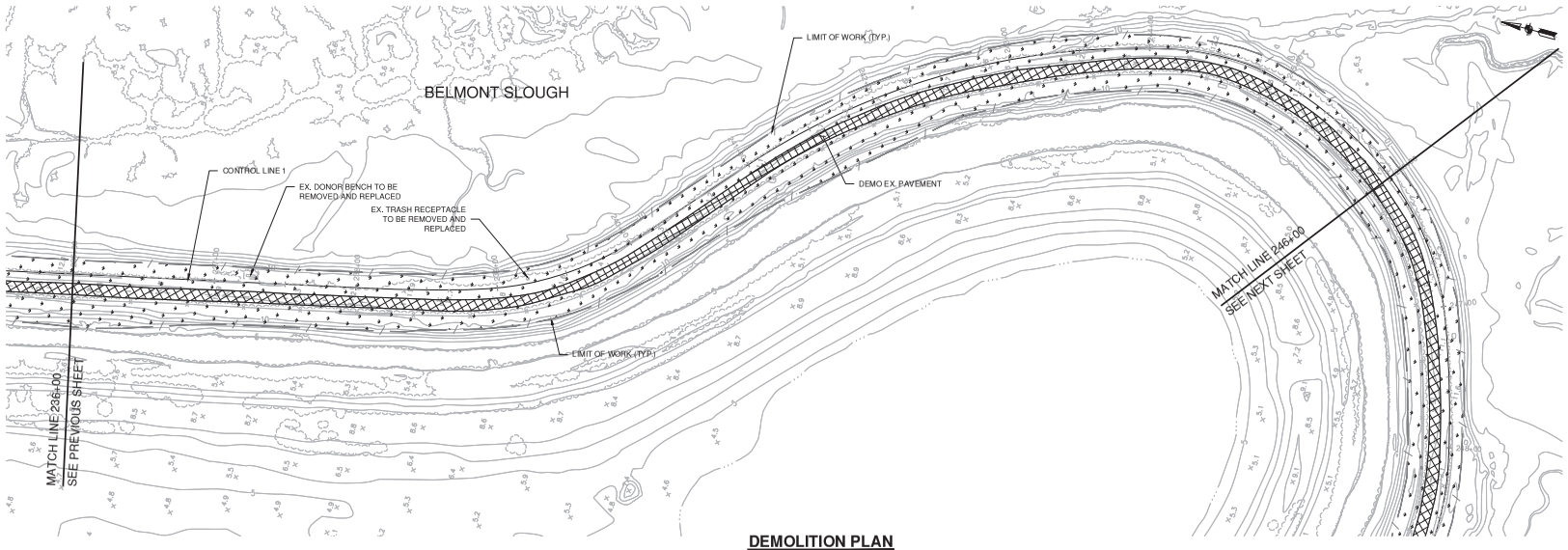
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 24
SHEET 066 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

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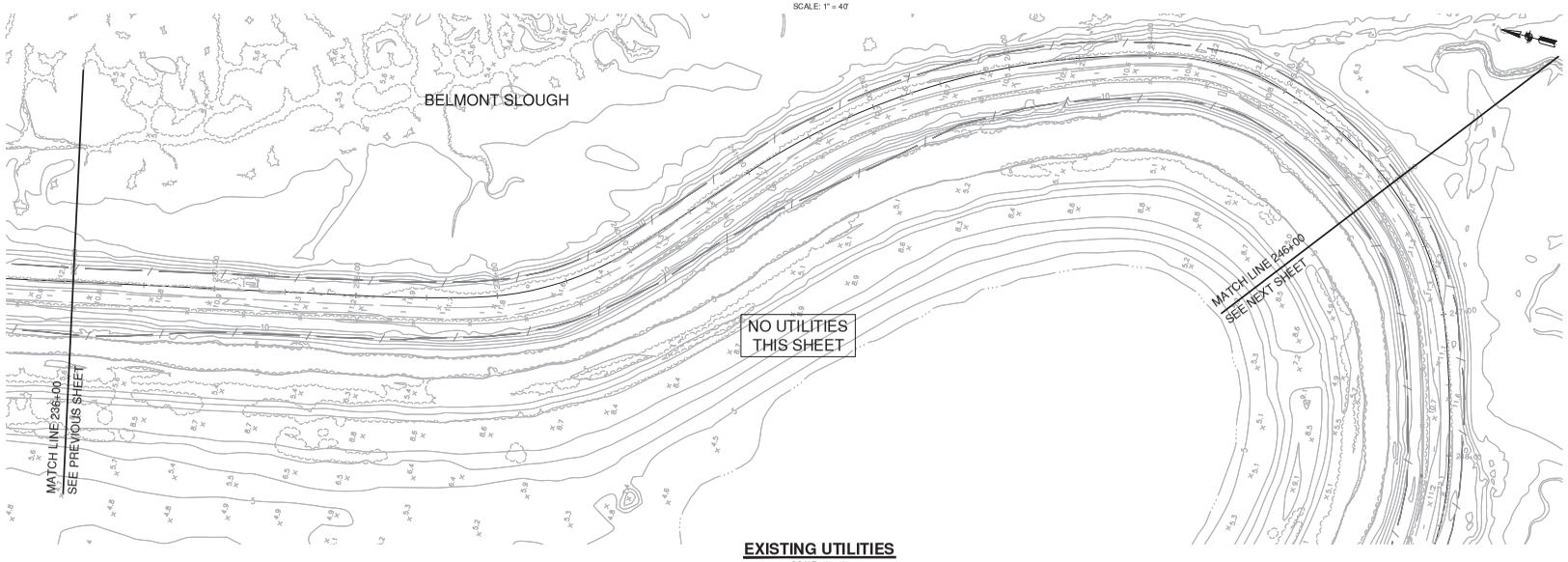

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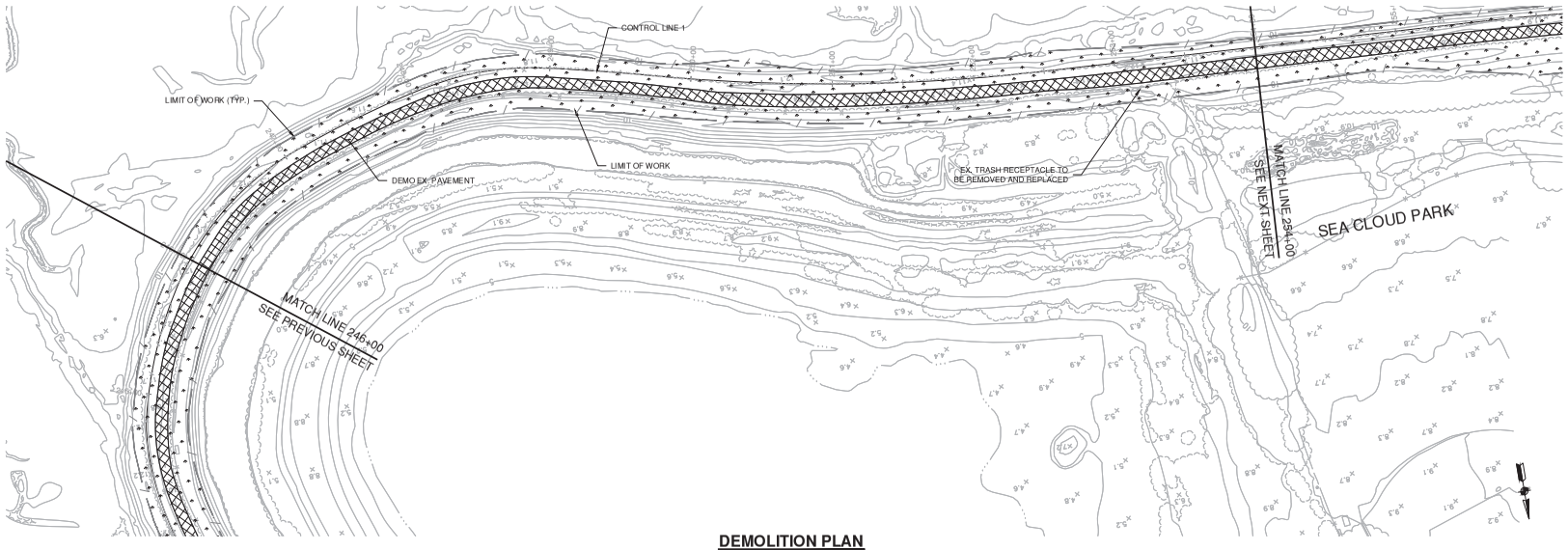
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 25
SHEET 067 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

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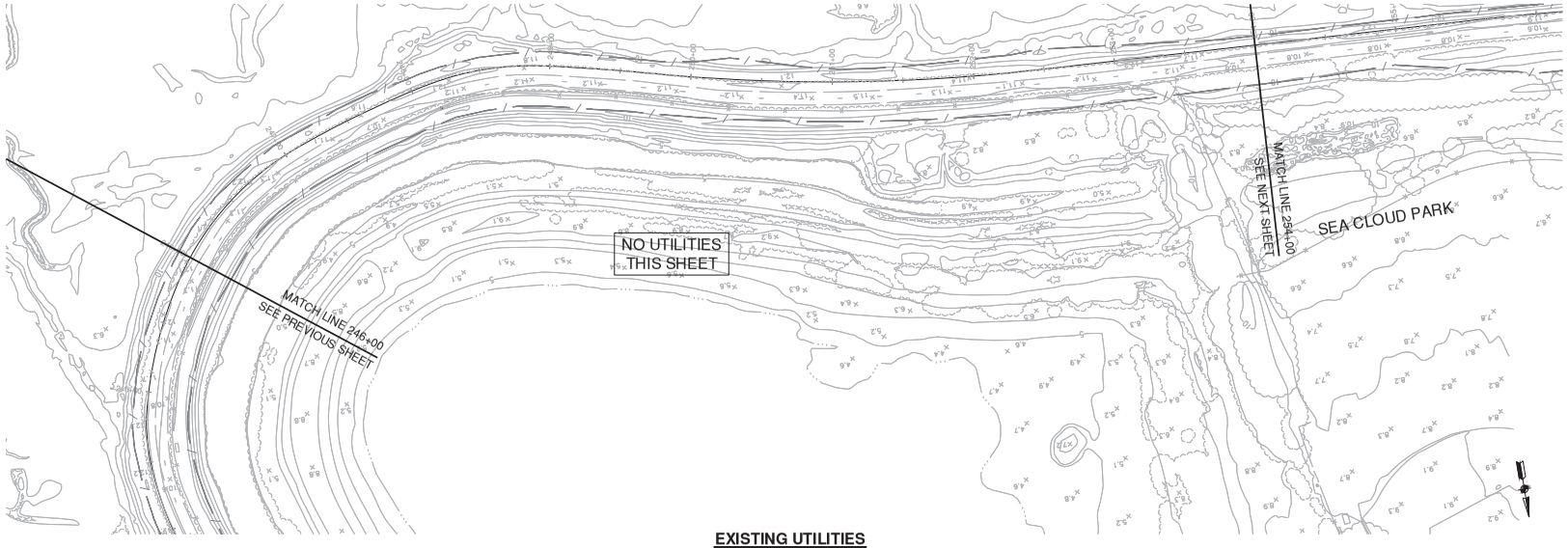

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 26
SHEET 068 OF 384
CIP PROJ. NUMBER
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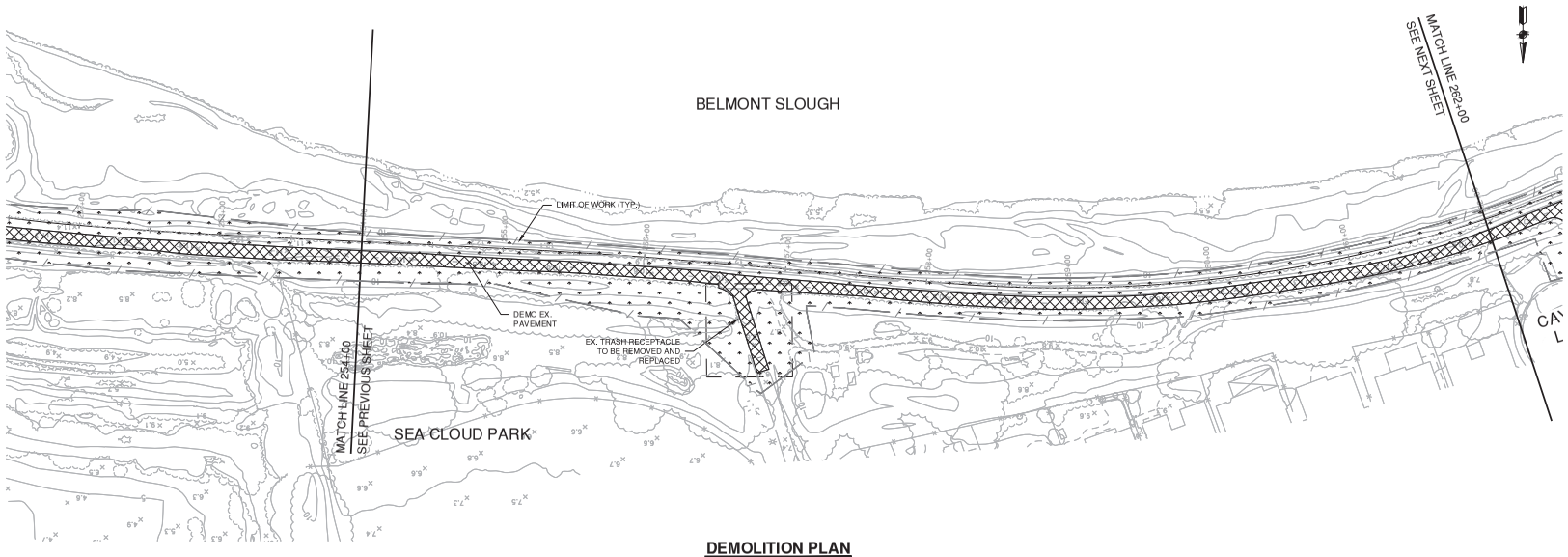
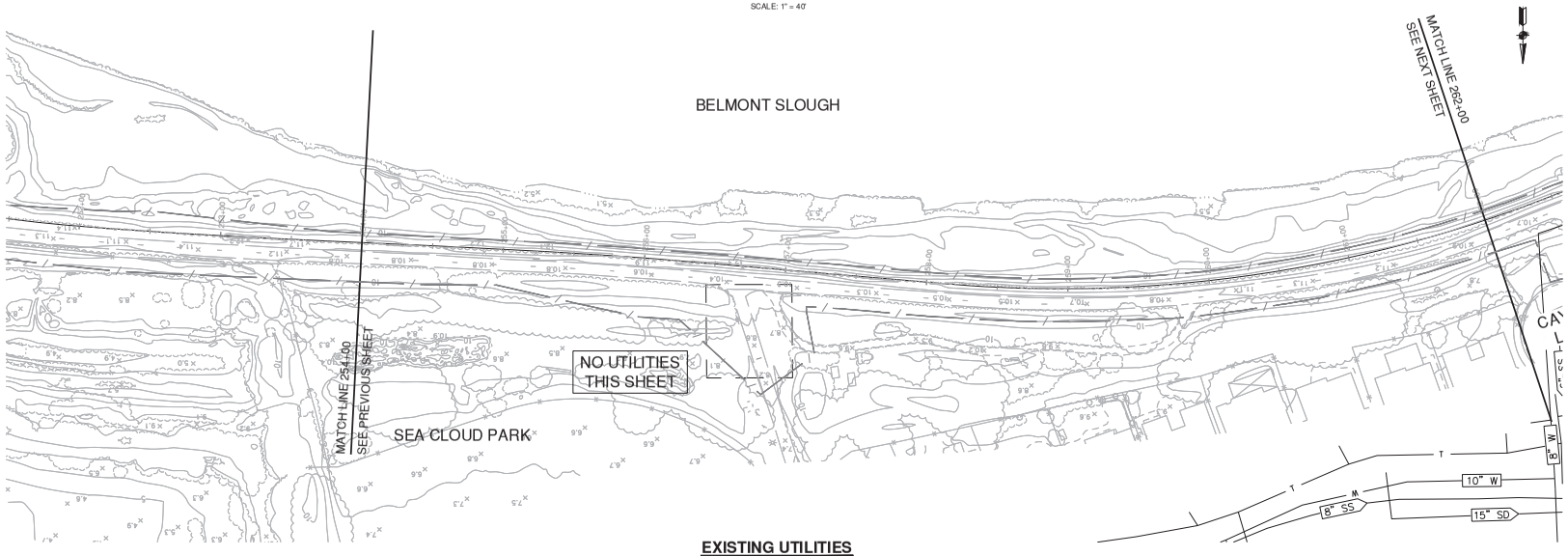


DEMOLITION PLAN

SCALE: 1" = 40'



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DEMOLITION AND UTILITIES

SHEET
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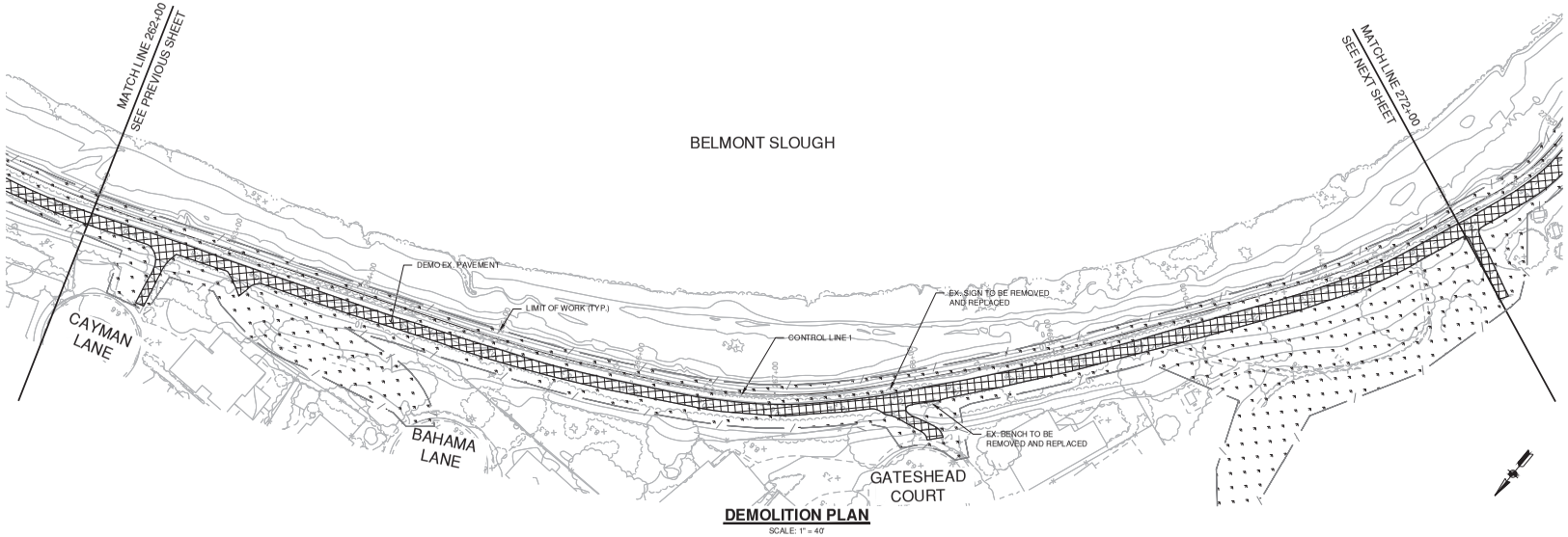

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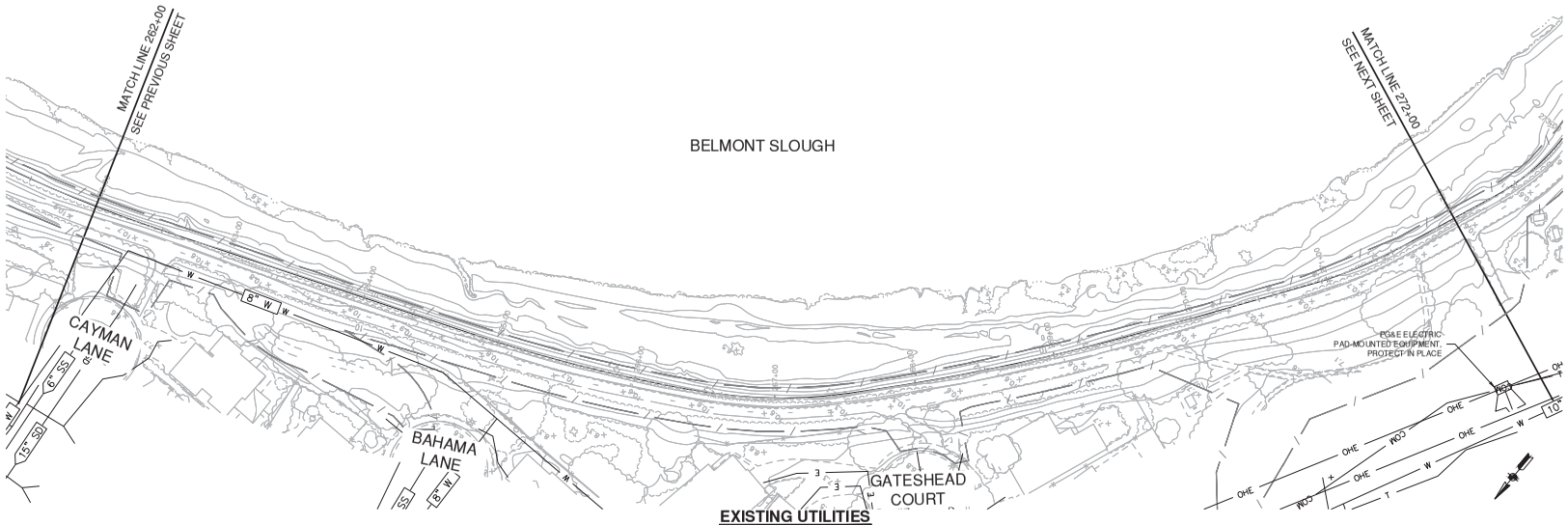

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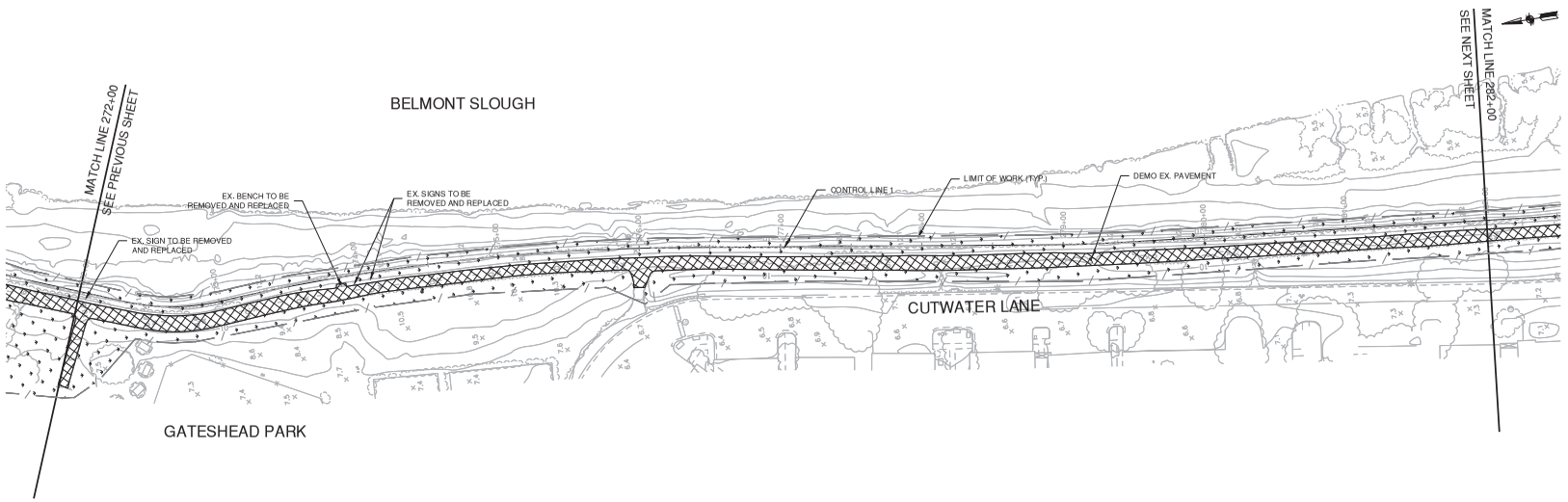
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

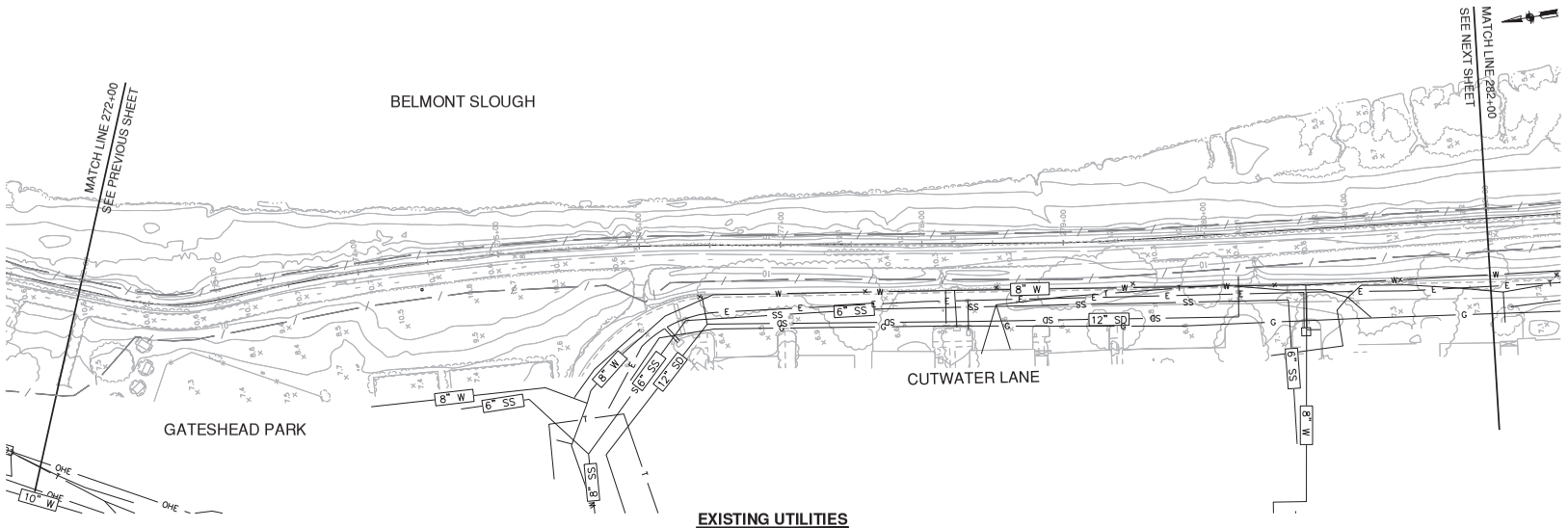
SHEET
DU 28
SHEET 070 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

SCALE: 1" = 40'

NOTES:

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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

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40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ES
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 29
SHEET 071 OF 384

CIP PROJ. NUMBER
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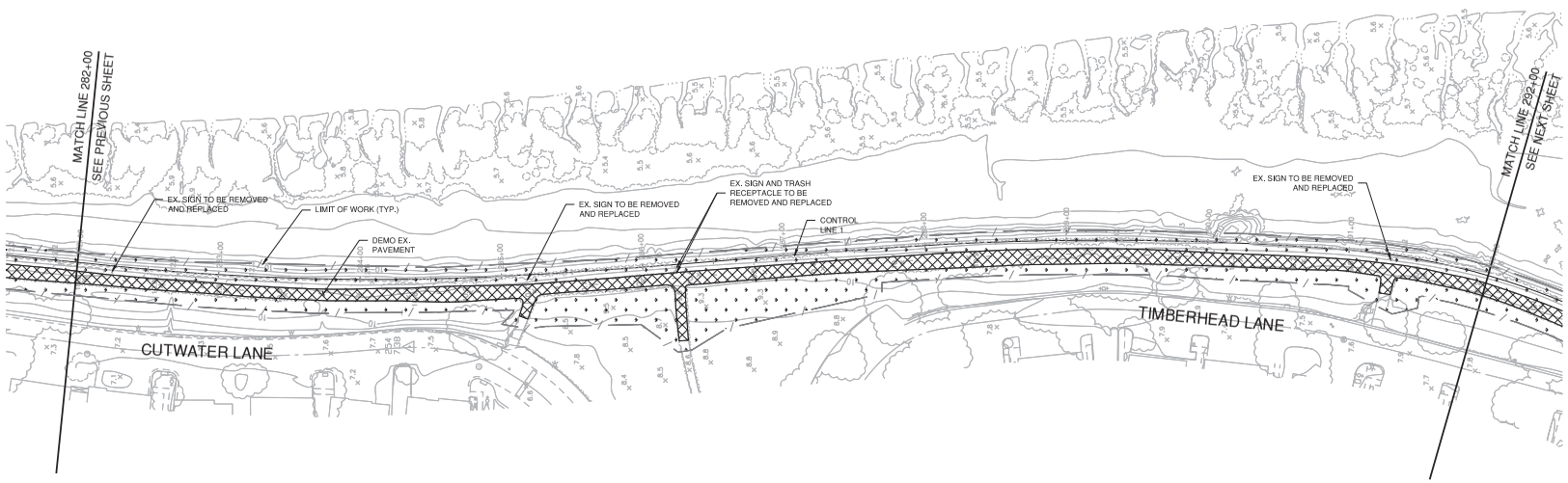
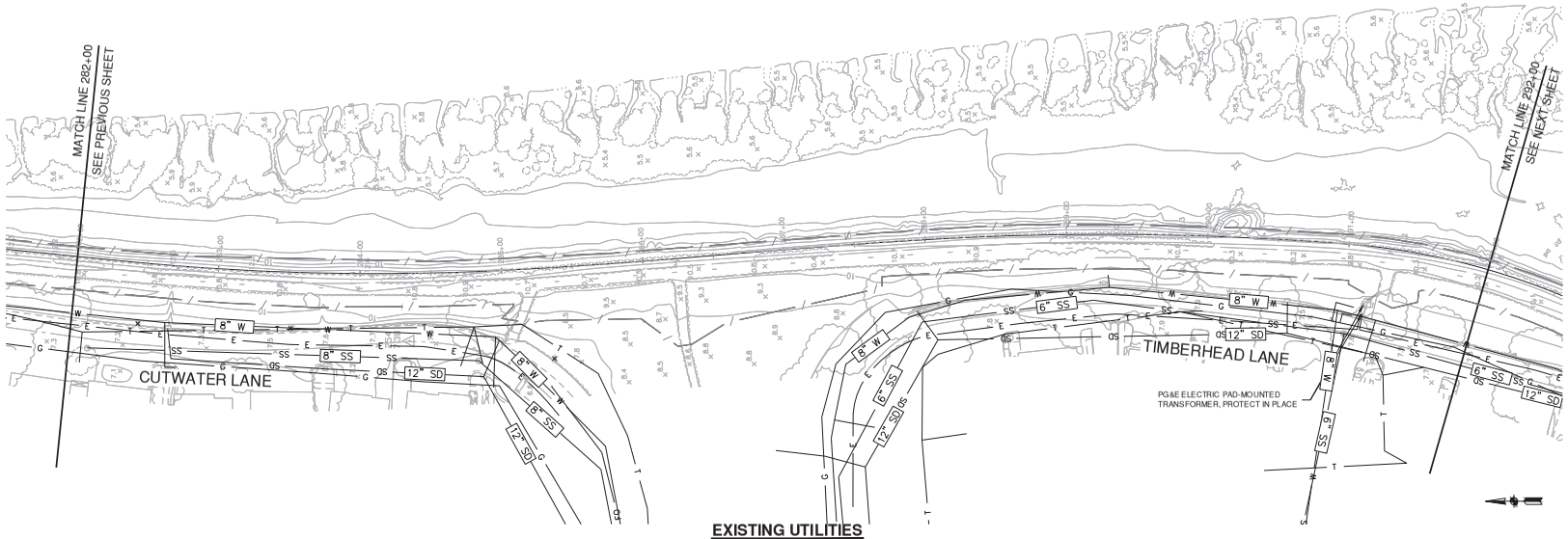


DEMOLITION PLAN

SCALE: 1" = 40'



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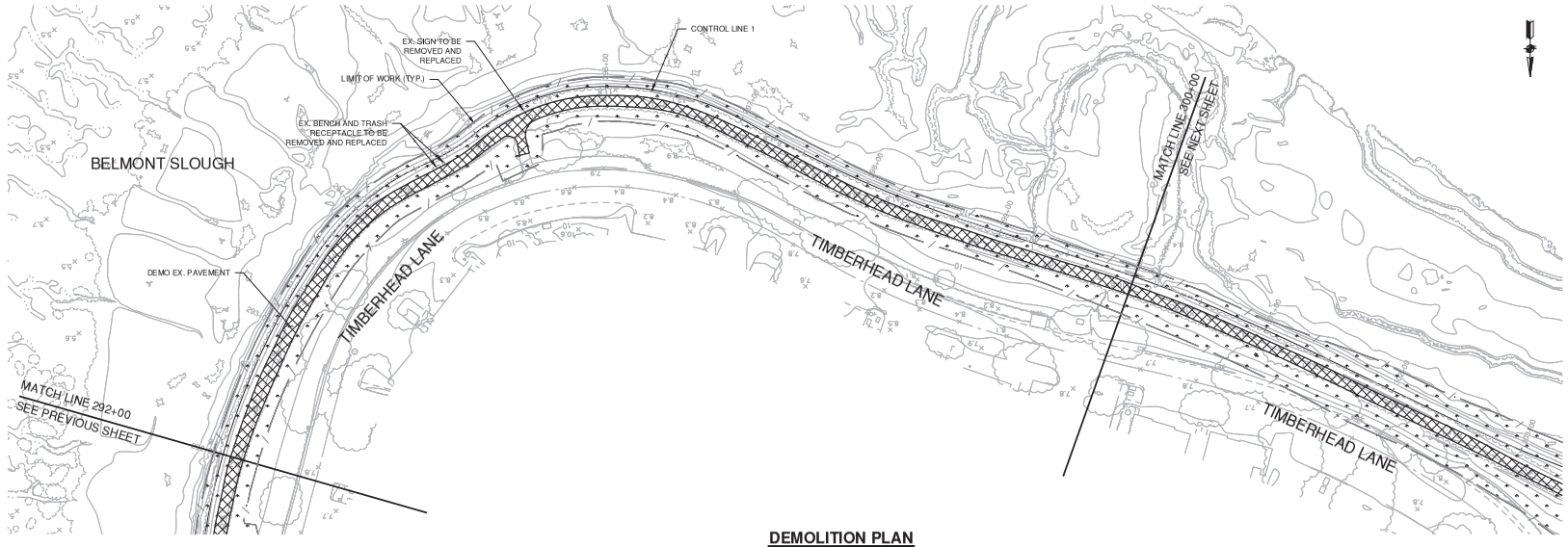
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

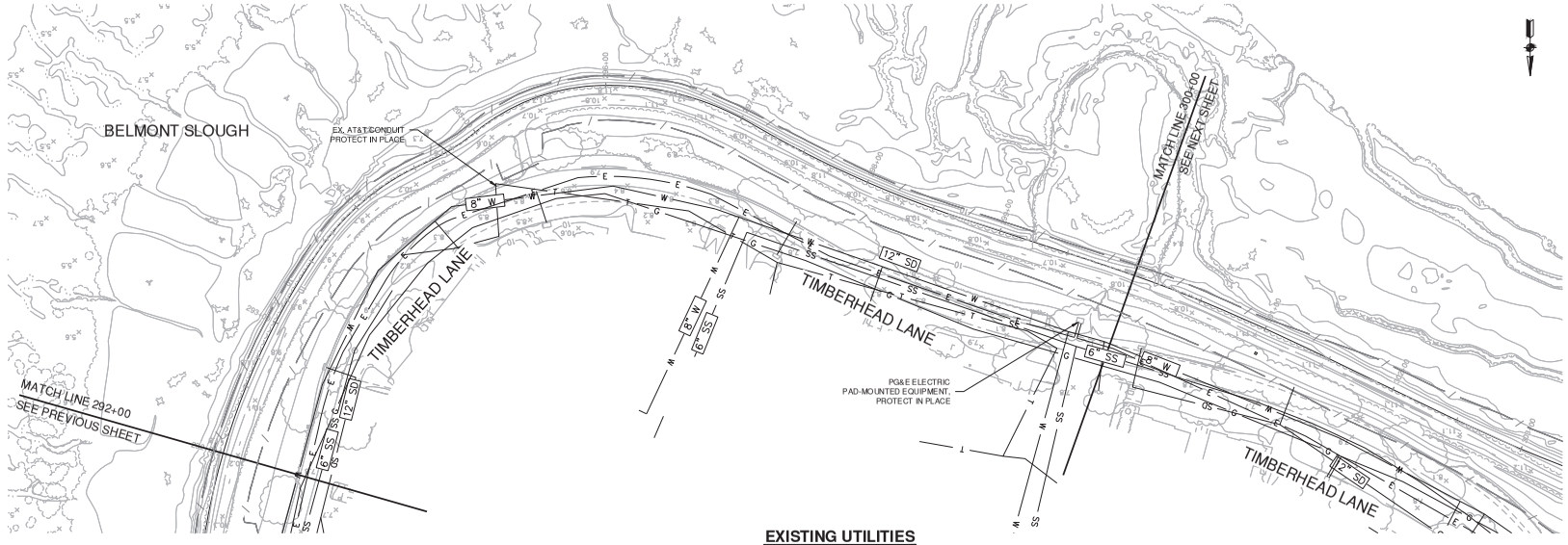
DEMOLITION AND UTILITIES

SHEET
DU 30
SHEET 072 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 31
SHEET 073 OF 384
CIP PROJ. NUMBER
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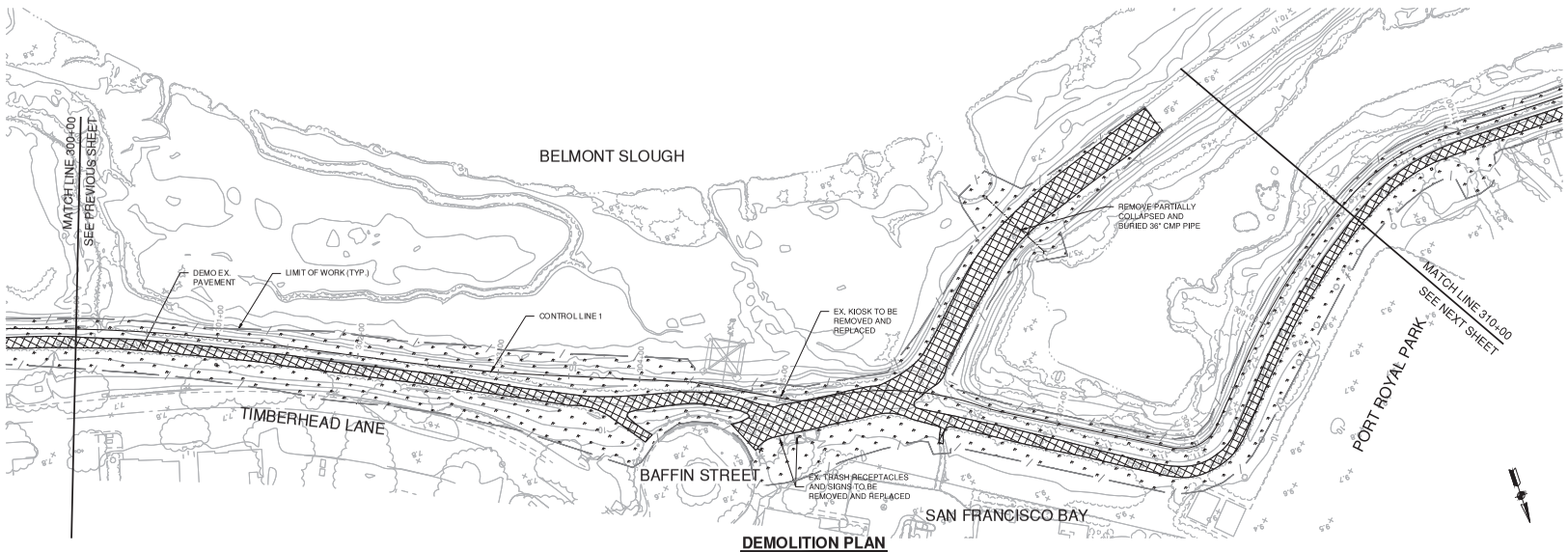
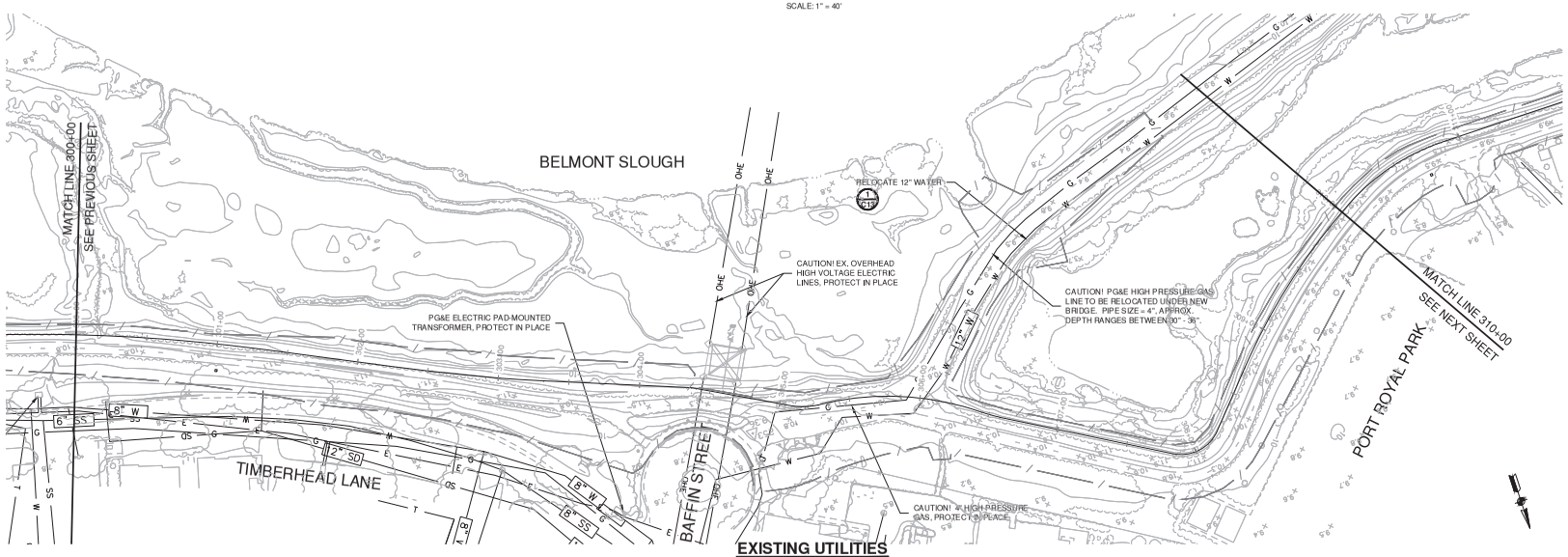


DEMOLITION PLAN

SCALE: 1" = 40'



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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 32
SHEET 074 OF 384
CIP PROJ. NUMBER
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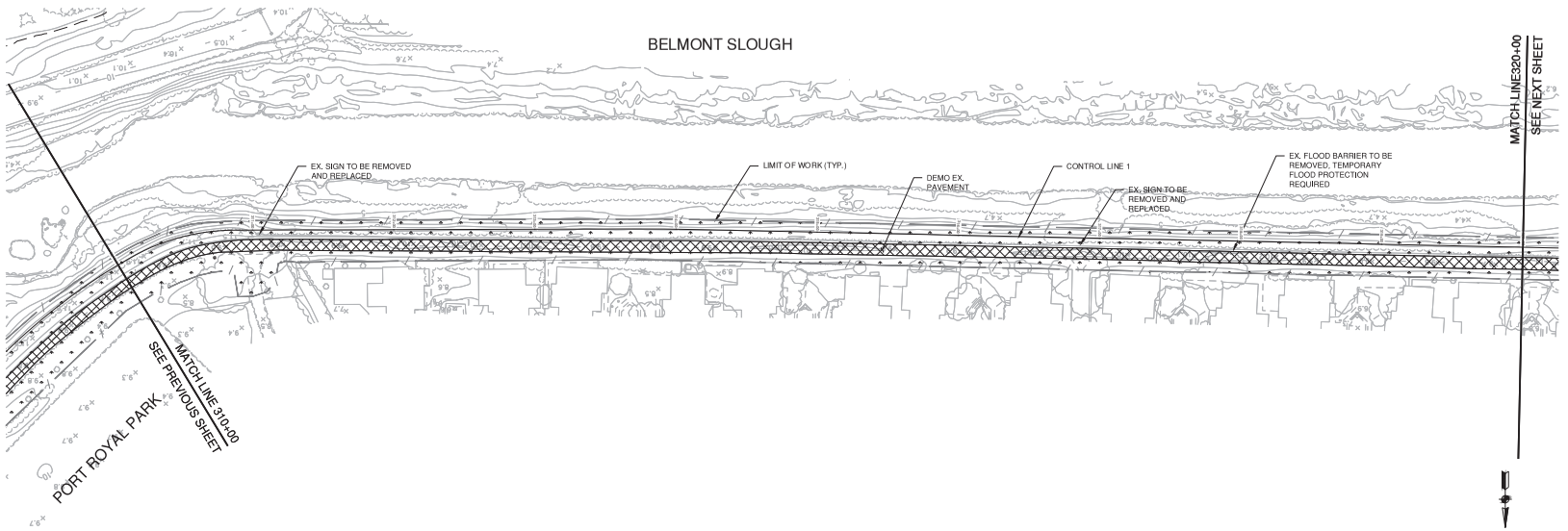
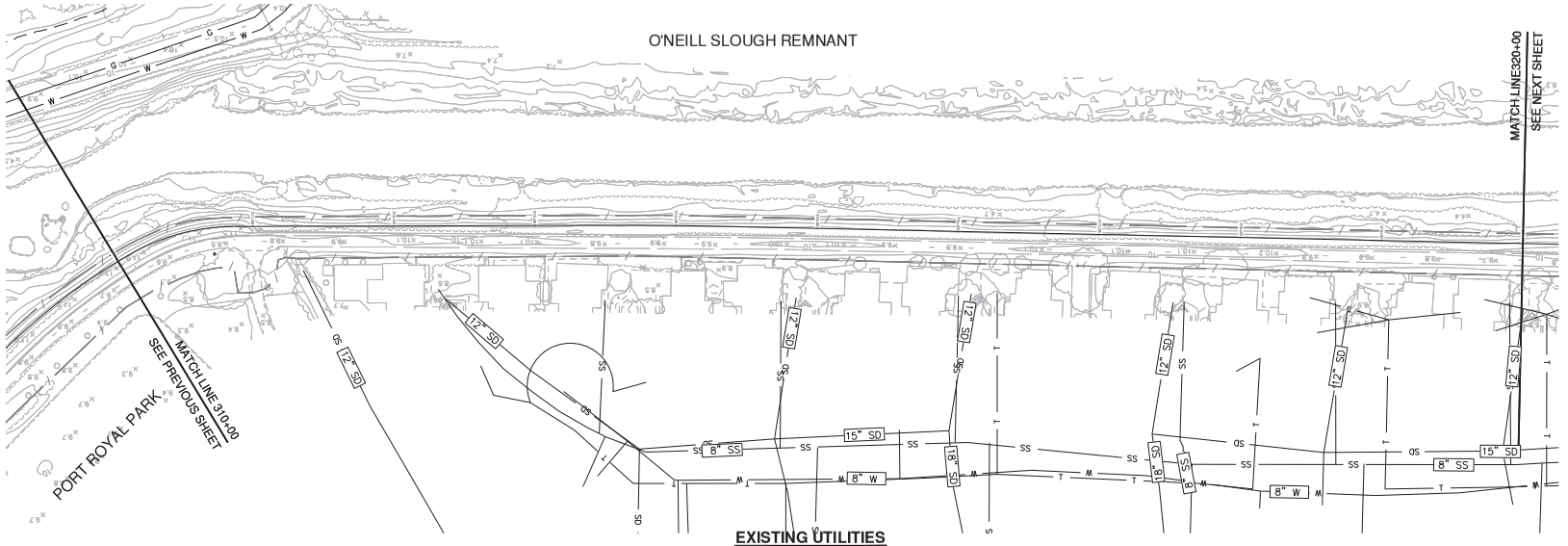


DEMOLITION PLAN

SCALE: 1" = 40'



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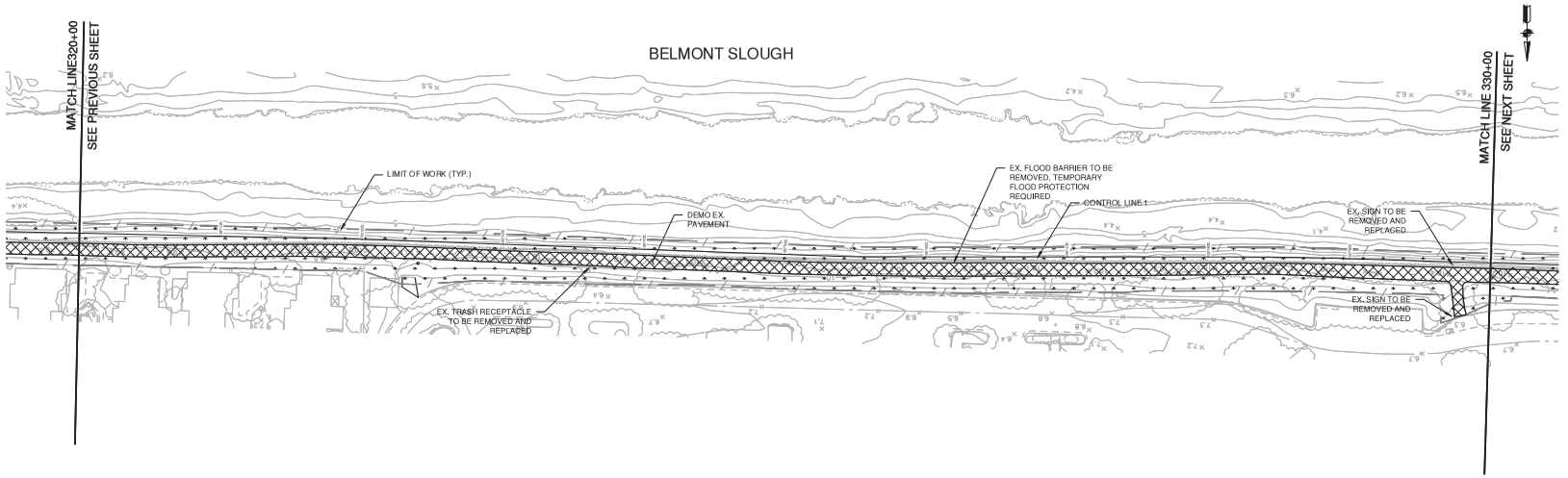

DEMOLITION PLAN

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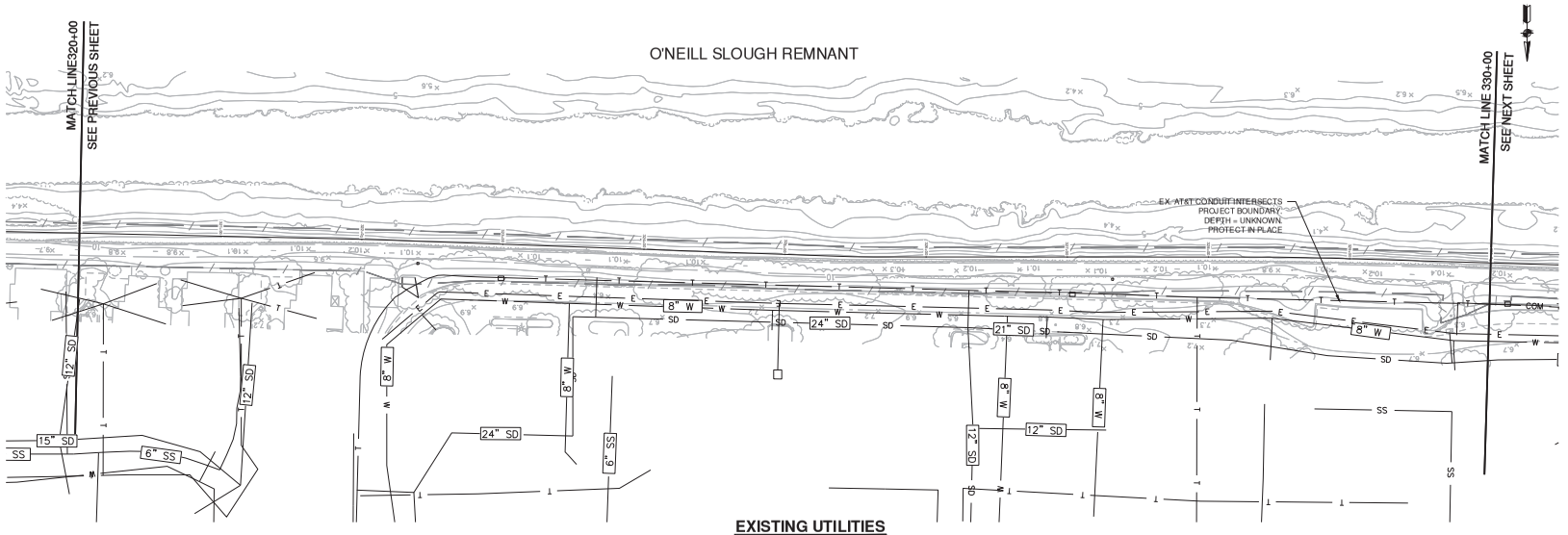

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4. POTHOLE TO VERIFY LOCATION AND DEPTH OF CONFLICTING UTILITIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL CLEAR WORK AREAS OF ALL SURFACE AND SUBSURFACE DELETERIOUS MATERIALS, INCLUDING ABANDONED BURIED STRUCTURES, UTILITIES, IRRIGATION LINES, PAVEMENTS, DEBRIS, TREES, SHRUBS, AND ASSOCIATED ROOTS. TREE ROOT BALLS SHOULD BE REMOVED DOWN TO A DEPTH OF AT LEAST 3 FEET BELOW FINISHED GRADE. REMOVE ALL ASSOCIATED FOUNDATIONS, AS WELL AS BURIED UTILITIES, WHICH COULD ACT AS WATER TRAPS OR COULD DETERIORATE. ALL VEGETATION, DEBRIS, AND DELETERIOUS MATERIALS SHALL BE REMOVED FROM AREAS TO BE GRADED. BACKFILL EXCAVATIONS EXTENDING BELOW THE PLANNED FINISH SITE GRADES WITH ENGINEERED FILL.
6. FOLLOWING CLEARING, CONTRACTOR SHALL STRIP THE SITE TO REMOVE SURFACE ORGANIC MATERIALS. CONTRACTOR SHALL STRIP ORGANICS FROM THE GROUND SURFACE TO A DEPTH OF AT LEAST 2 TO 3 INCHES BELOW THE SURFACE. ACTUAL DEPTH OF STRIPPING SHOULD BE EVALUATED BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. IF APPROVED, THE ORGANICS MAY BE USED IN FUTURE LANDSCAPE AREAS OR OTHERWISE SHOULD BE OFF-HAULED.

LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ES
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFROM SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

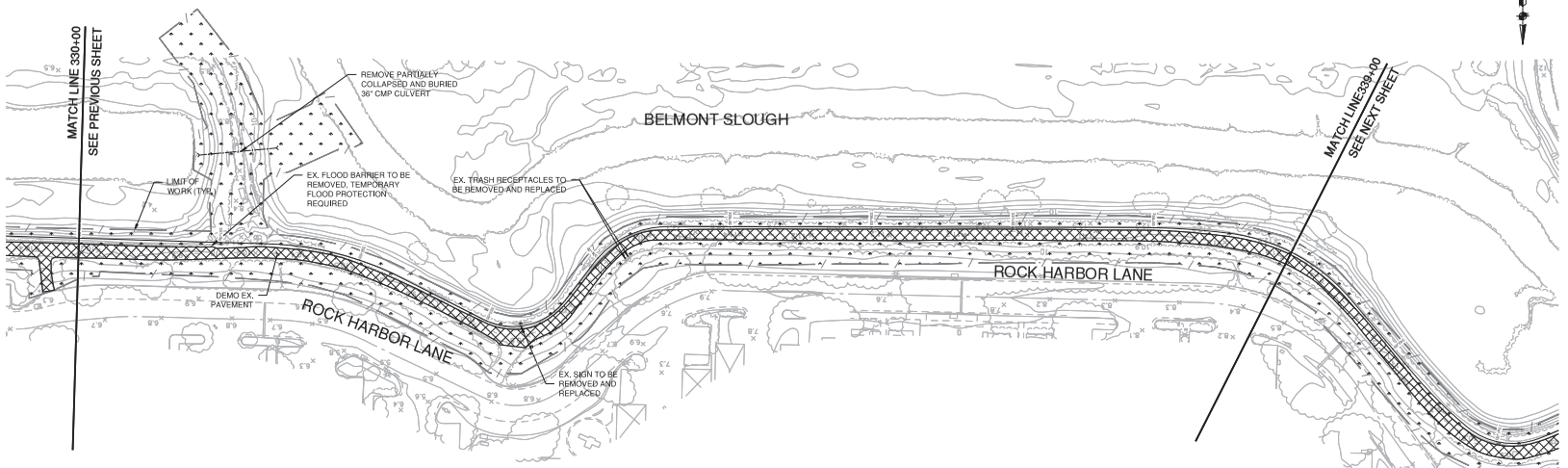
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

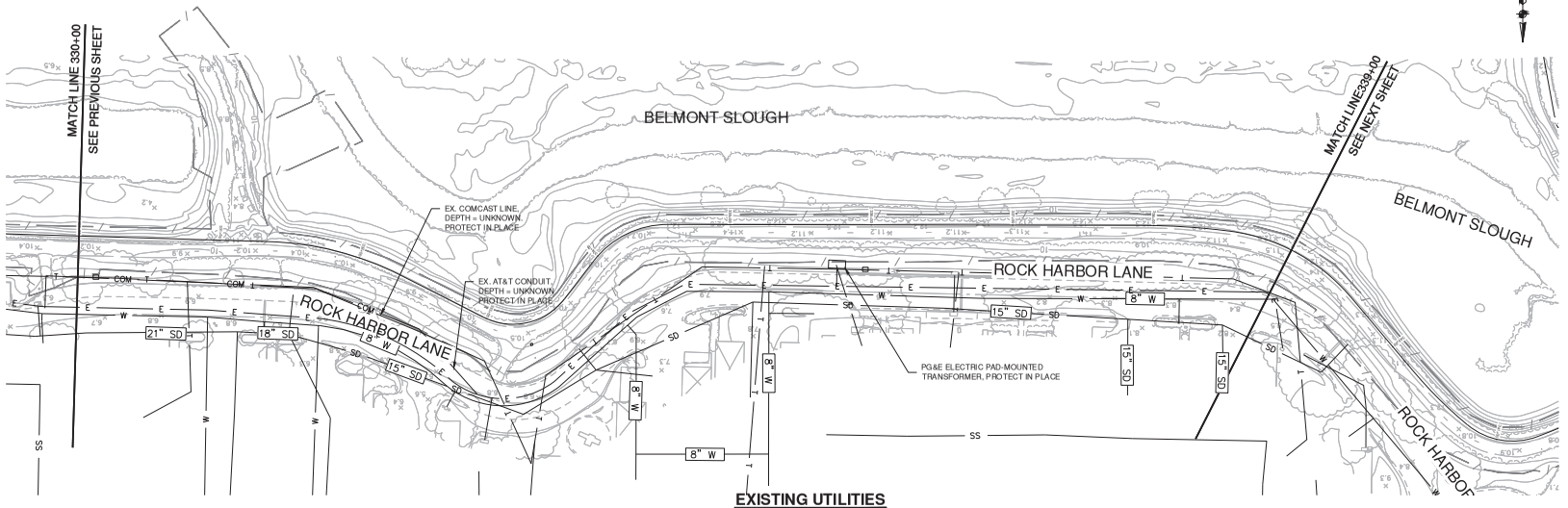
SHEET
DU 34
SHEET 076 OF 384

CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

SCALE: 1" = 40'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SC SHEETS) FOR PROJECT CONTROL LINE AND OTHER CONTROL INFORMATION.
   SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR PROJECT PLAN AND PROFILE INFORMATION.
   SEE FLOODWALL AND RETAINING WALL SHEETS (W SHEETS) FOR FLOODWALL AND RETAINING WALL LAYOUT.
   SEE CROSS SECTION SHEETS (TCX SHEETS) FOR LEVEE CROSS SECTIONS.
   SEE CIVIL SHEETS (C SHEETS) FOR ACCESS POINT DETAILS.
   SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING DETAILS. SEE SITE AMENITIES AND SIGNAGE SHEETS (L SHEETS) FOR DISPOSITION OF TRAIL AMENITIES AND SIGNS REMOVED AND REPLACED.
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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SCALE VERIFICATION

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0 1"

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ES
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFROM SET

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PUBLIC WORKS DEPARTMENT
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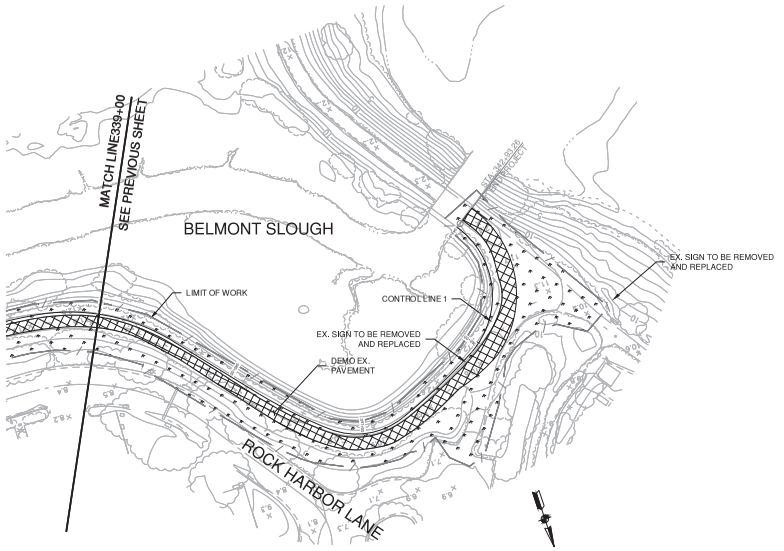
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

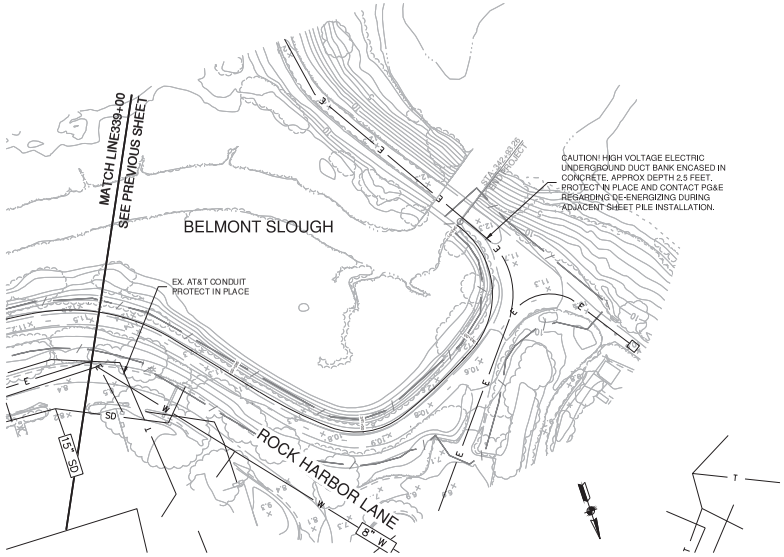
DEMOLITION AND UTILITIES

SHEET
DU 35
SHEET 077 OF 384
CIP PROJ. NUMBER
CIP 301-657



DEMOLITION PLAN

SCALE: 1" = 40'



EXISTING UTILITIES

SCALE: 1" = 40'

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LEGEND:

- LIMIT OF WORK
- DEMO PAVEMENT
- CLEAR AND GRUB

SCALE VERIFICATION

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0 1"

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ES
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFROM SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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SANTA CLARA, CA 95050
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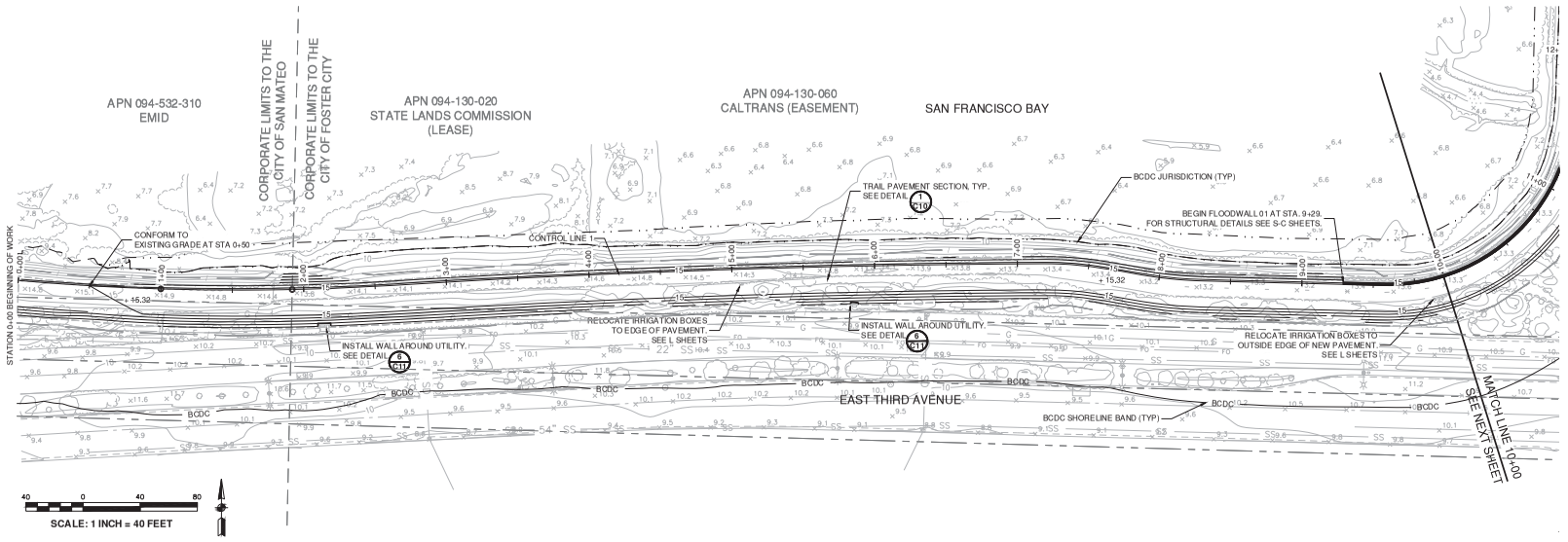
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DEMOLITION AND UTILITIES

SHEET
DU 36
SHEET 078 OF 384
CIP PROJ. NUMBER
CIP 301-657



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SCL SHEETS) FOR PROJECT CONTROL LINE, FLOODWALL AND RETAINING WALL LAYOUTS, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE FLOODWALL SHEETS (FW SHEETS) FOR FLOODWALL PROFILES. SEE RETAINING WALL (RW) SHEETS RETAINING WALL PROFILES. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS) OTHER PROJECT DETAILS. SEE ACCESS POINT SHEETS (AP SHEETS) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS (SC SHEETS) FOR CONTROL LINE LAYOUTS.
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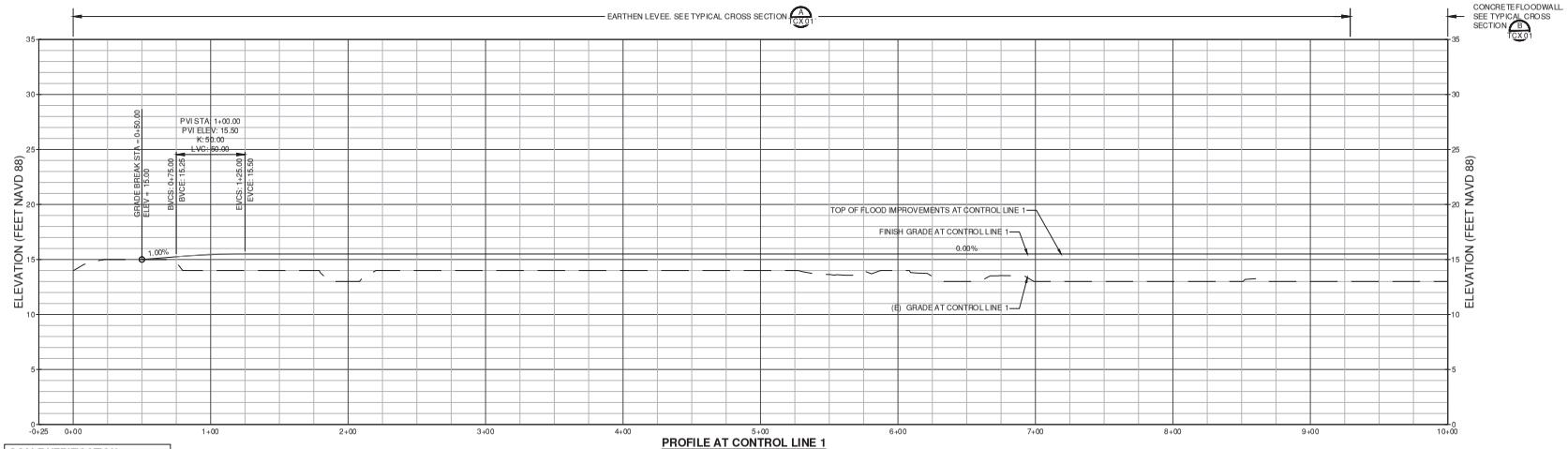
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. ALL IMPROVEMENTS ON CITY OF FOSTER CITY OR ESTERO MUNICIPAL DISTRICT PROPERTY UNLESS OTHERWISE NOTED.
7. PROJECT STATIONING FOLLOWS CONTROL LINE 1 UNLESS OTHERWISE NOTED.
8. CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION SAFETY. CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED TO PREVENT MOVEMENT OF INSTALLED AND EXISTING STRUCTURES.



PROFILE AT CONTROL LINE 1
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

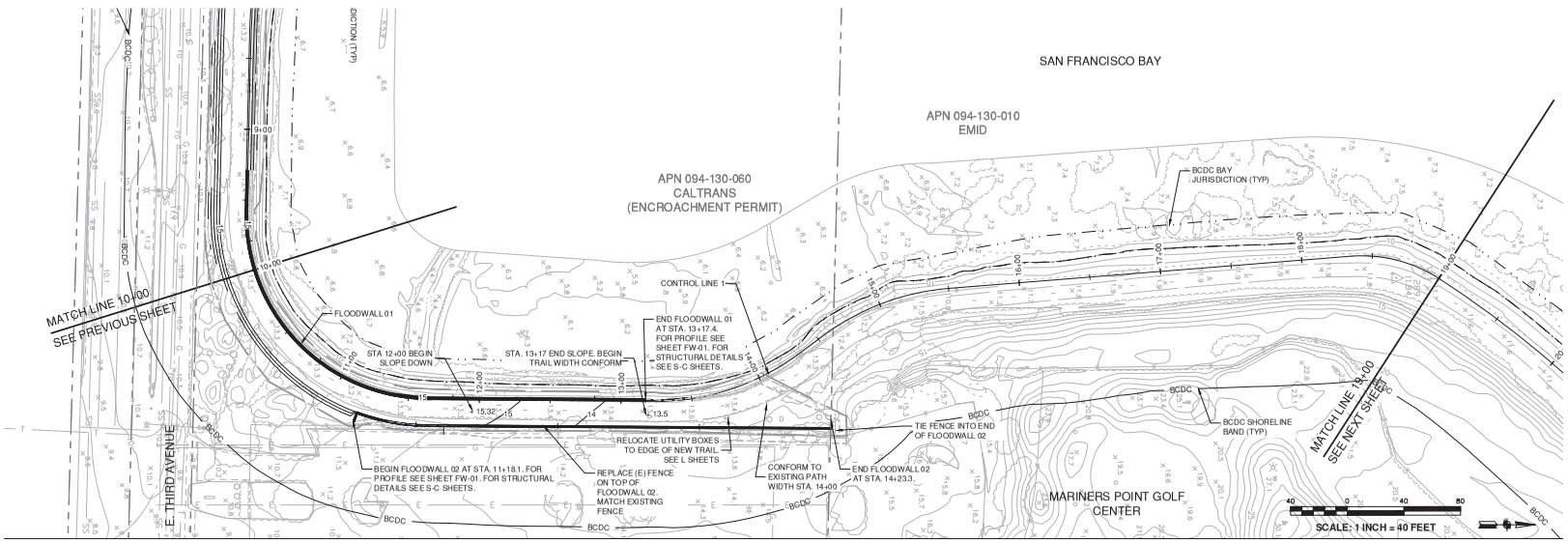
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 01
SHEET 79 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/30/2020 FILE PATH: C:\Users\ADavis\Desktop\SPGADDENDUM NO. 3\SPG 01-04.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SCL SHEETS) FOR PROJECT CONTROL LINE, FLOODWALL AND RETAINING WALL LAYOUTS, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE FLOODWALL SHEETS (FW SHEETS) FOR FLOODWALL PROFILES. SEE RETAINING WALL (RW) SHEETS RETAINING WALL PROFILES. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS) OTHER PROJECT DETAILS. SEE ACCESS POINT SHEETS (AP SHEETS) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS (SC SHEETS) FOR CONTROL LINE LAYOUTS.
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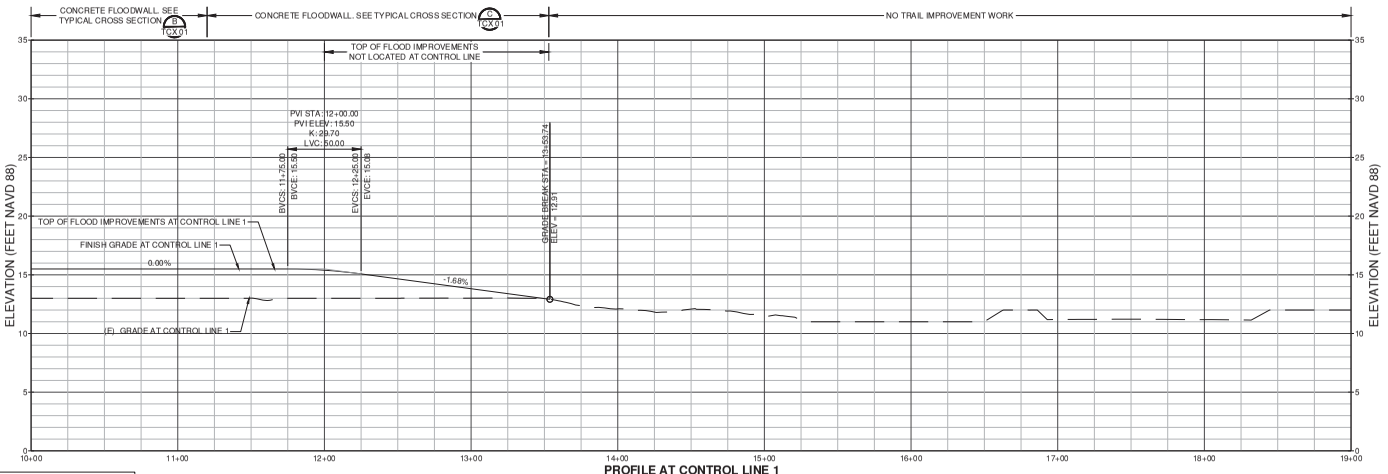

PROFILE AT CONTROL LINE 1
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020		
SCALE:	AS SHOWN		
DRAWN BY:	ARO		
PROJECT NUMBER:	FOST.12.16		
DESIGNED BY:	ARO		
CHECKED BY:	CDA		
SURVEYED BY:	WILSEY-HAM		

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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(408) 246-4848

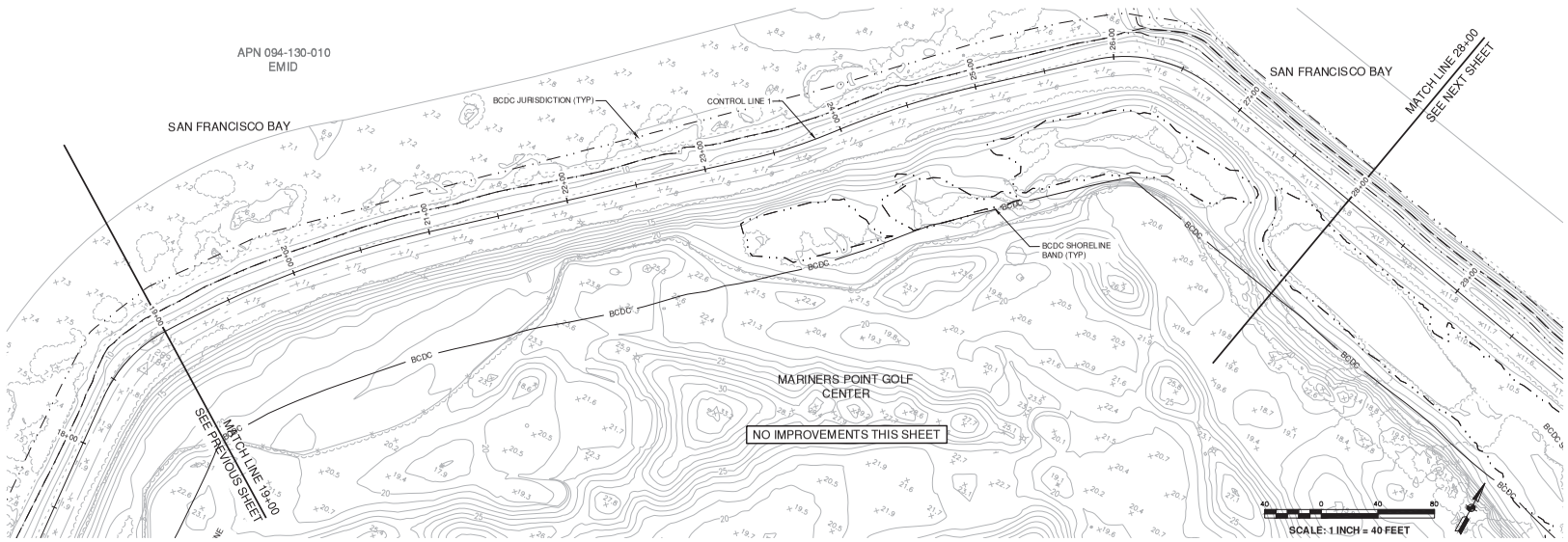
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 02
SHEET 80 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/30/2020 FILE PATH: C:\Users\AOrer\Desktop\SPG ADDENDUM NO. 3\SPG 01-04.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



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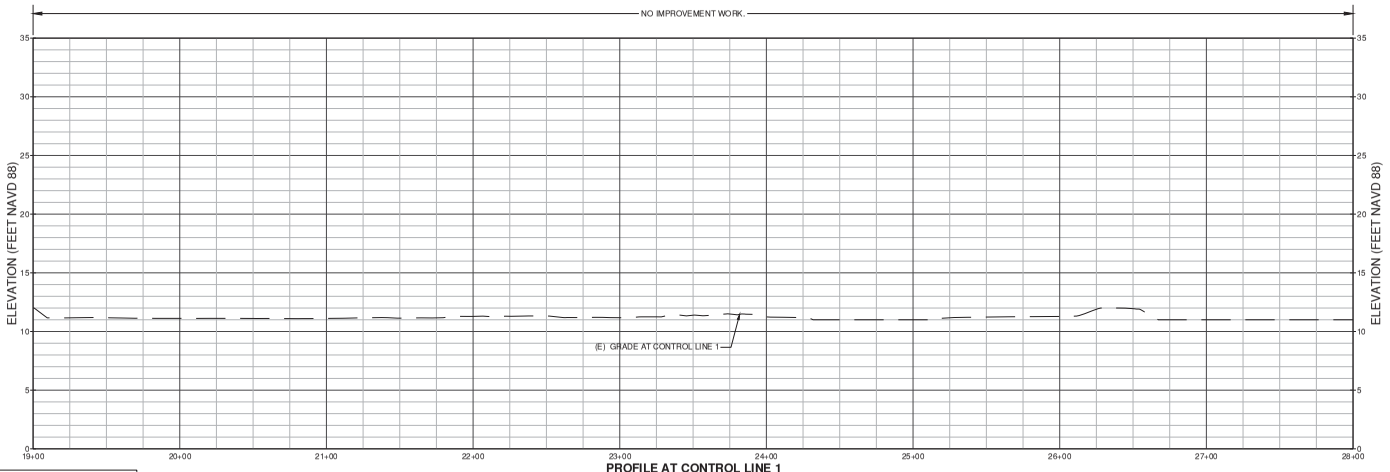

PROFILE AT CONTROL LINE 1
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VERT. SCALE: 1" = 5'

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0 1"

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DRAWN BY: ARO
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CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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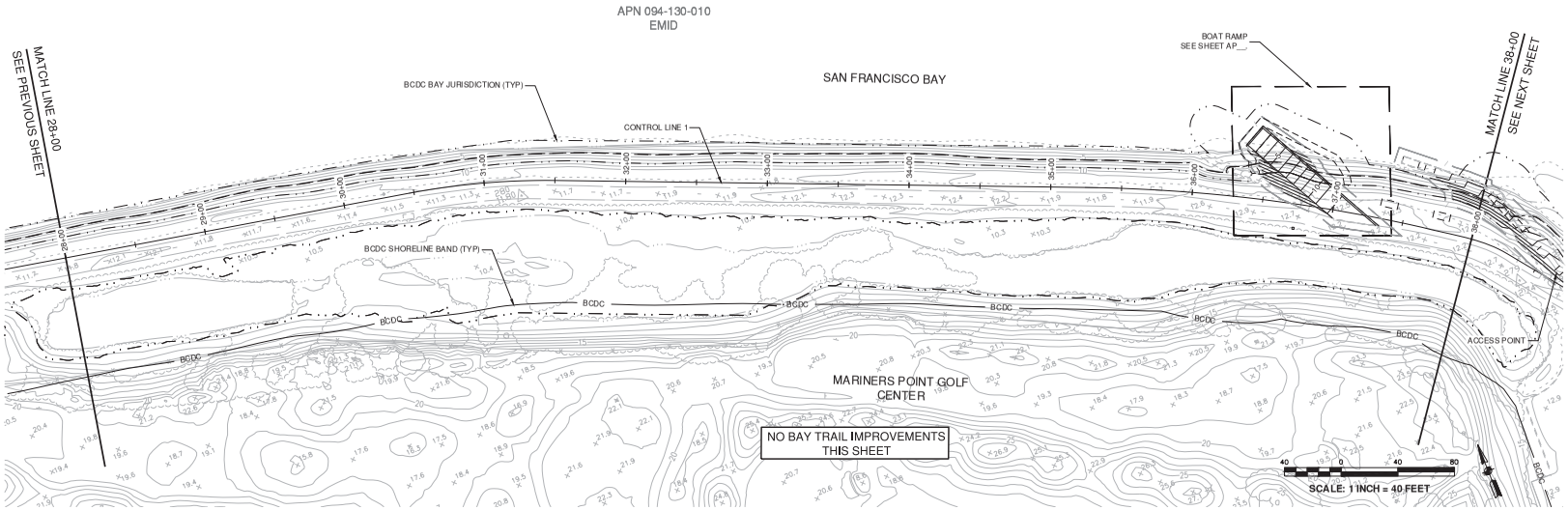
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 03
SHEET 81 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/30/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPGADDENDUM\NO. SSPG 01-04.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

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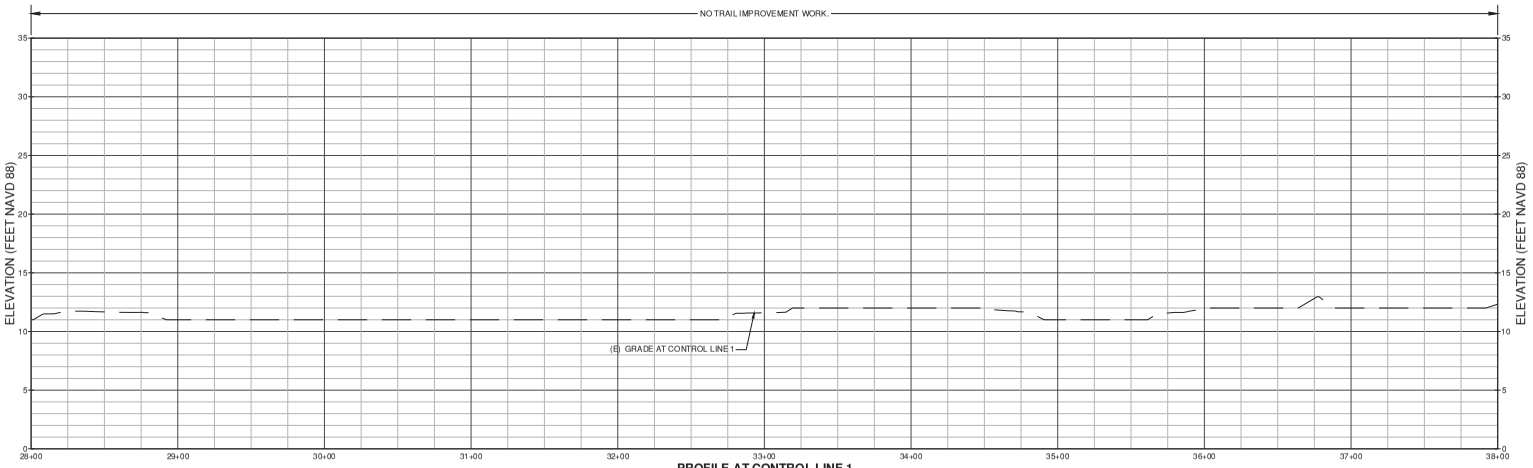
8. CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION SAFETY. CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED TO PREVENT MOVEMENT OF INSTALLED AND EXISTING STRUCTURES.



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

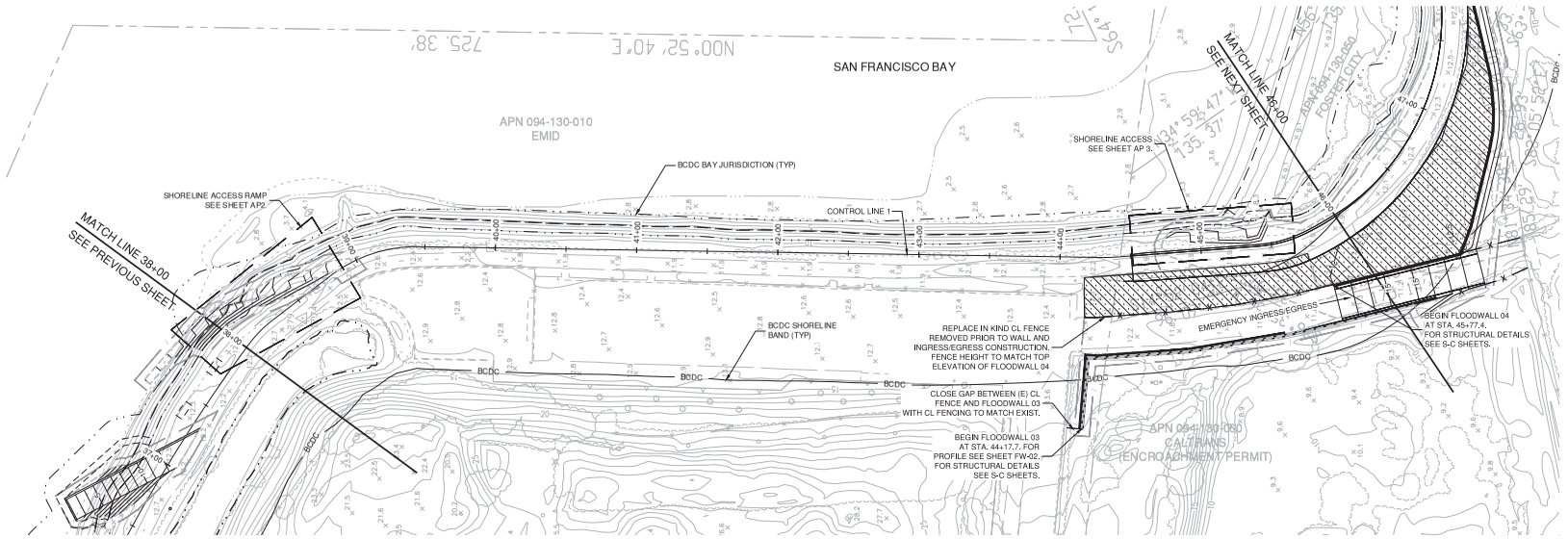
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 04
SHEET 82 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/30/2020 FILE PATH: C:\Users\Aaron\Desktop\SPG\ADDENDUM\NO. SSPG 01-04.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



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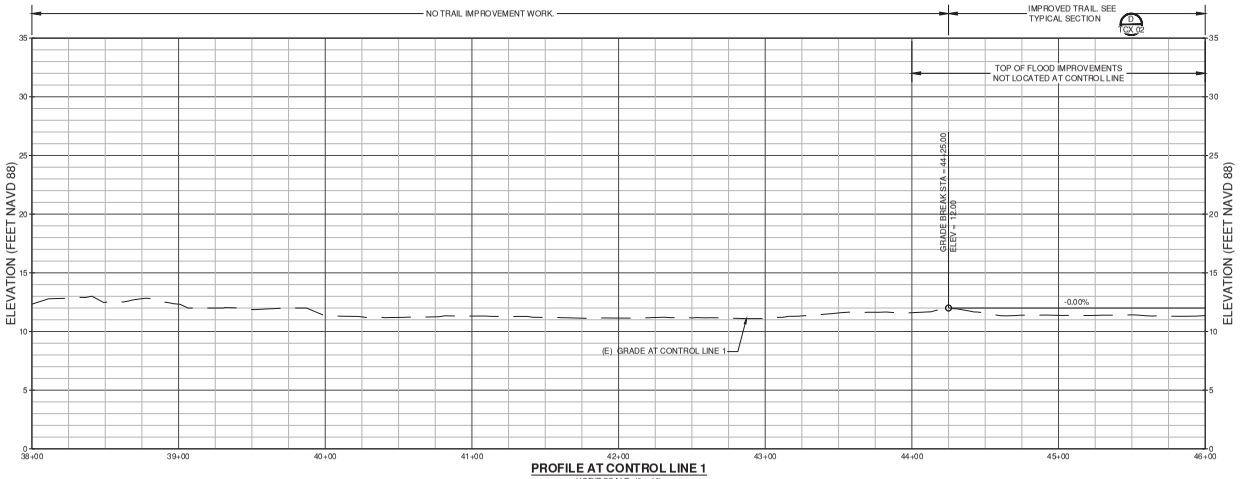
LEGEND:

TURF

40 0 40 80

SCALE: 1 INCH = 40 FEET



PROFILE AT CONTROL LINE 1

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VERT. SCALE: 1" = 5'

SCALE VERIFICATION

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0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WLSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

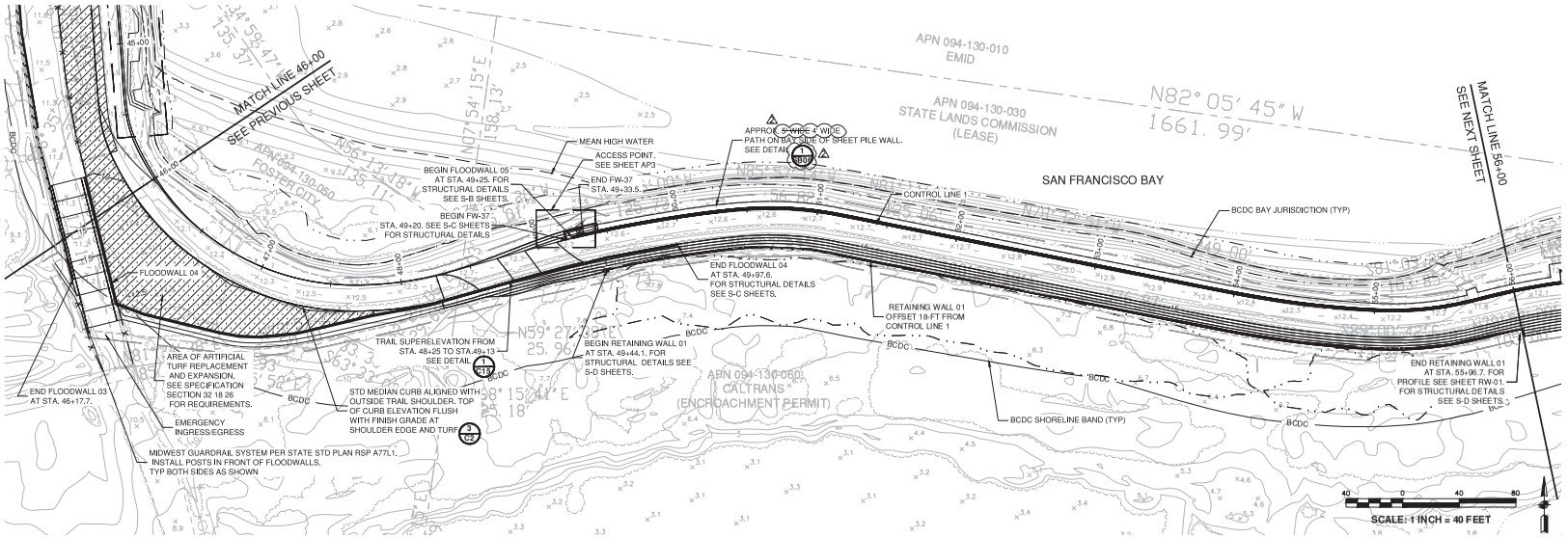
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 05
SHEET 83 OF 384

CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/23/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 4\SPG 05-10_Conform.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



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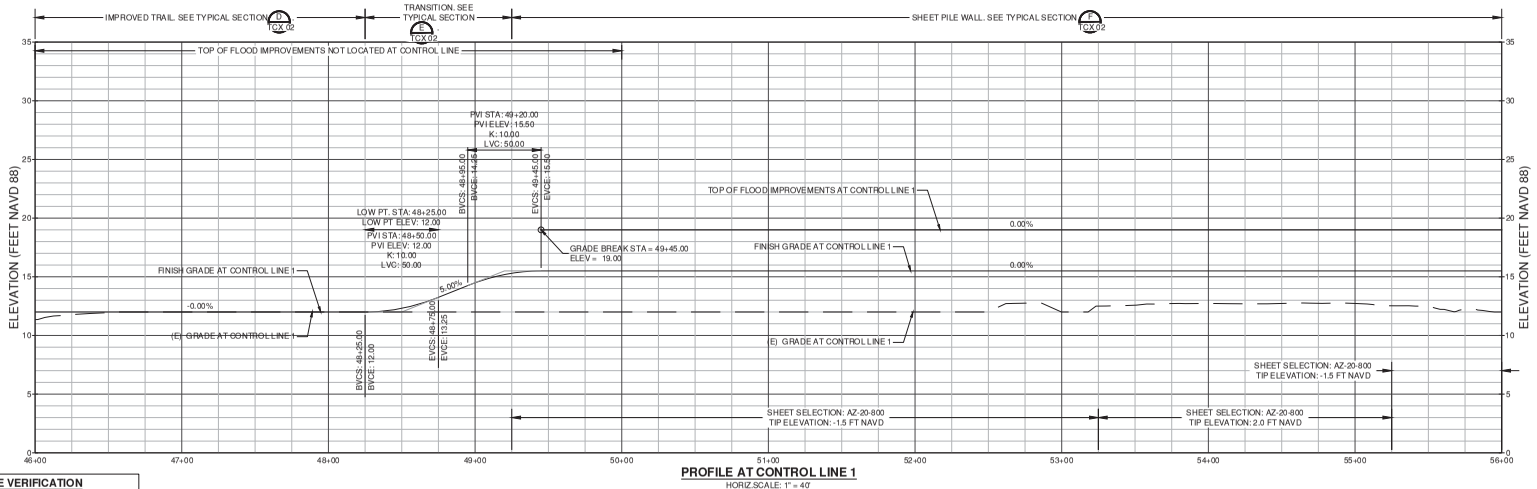

PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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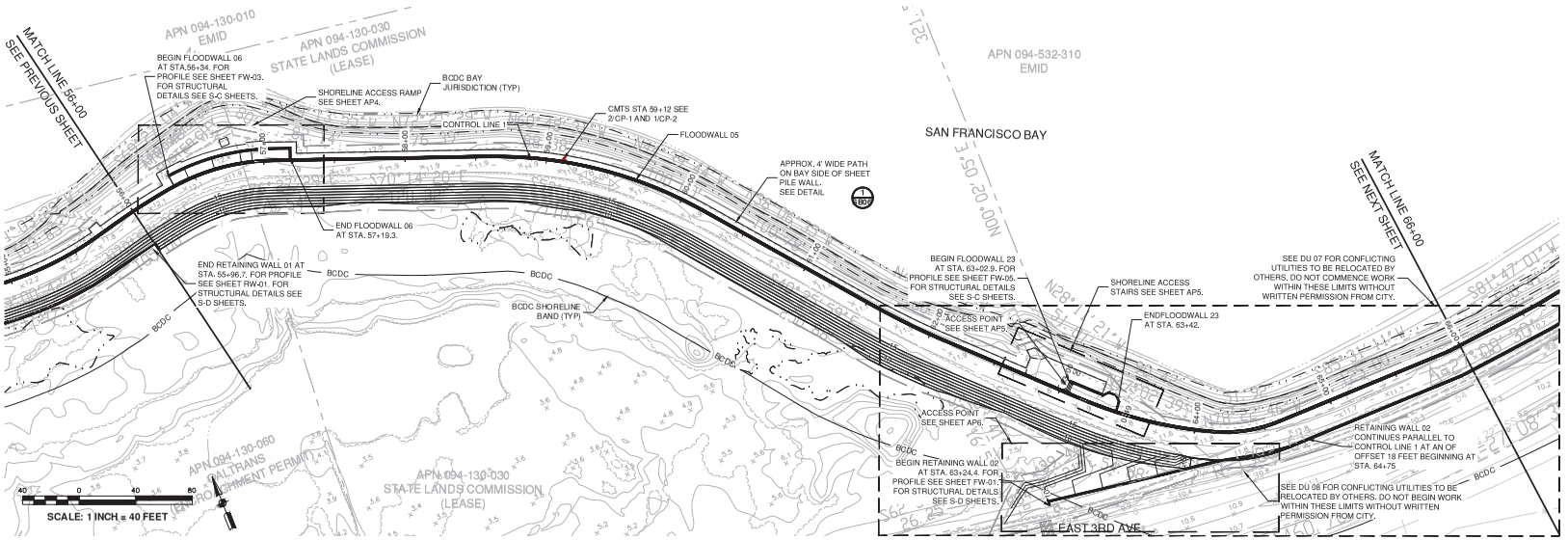
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 06
SHEET 84 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/23/2020 FILE PATH: C:\Users\AOwe\Desktop\SPG\ADDENDUM\NO. 6\SPG 06-10_Conform.dwg
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



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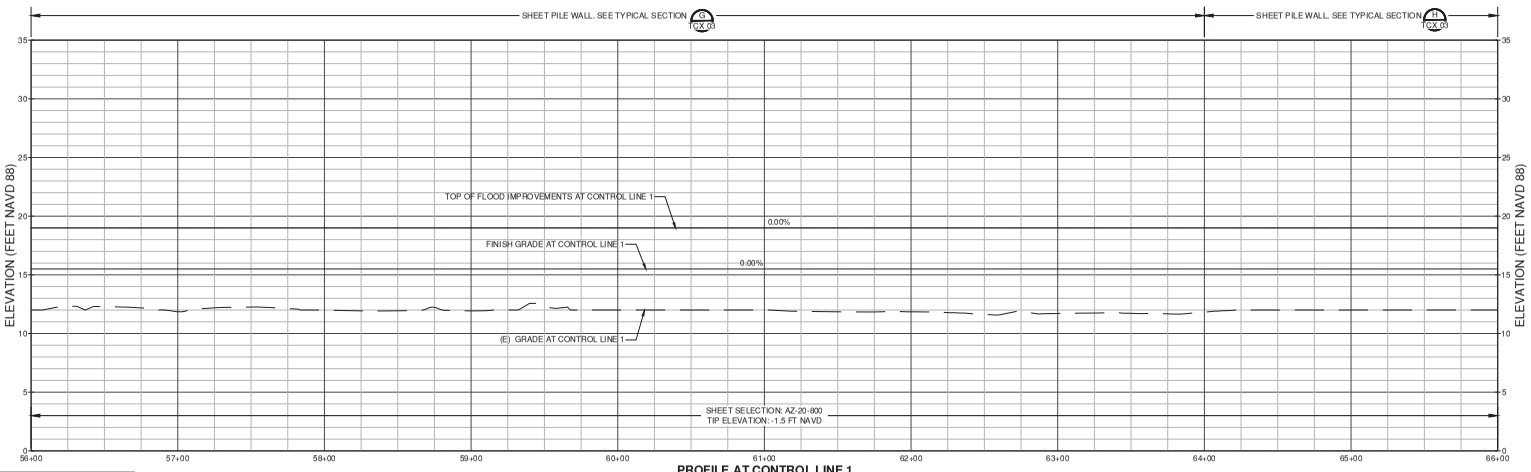

PROFILE AT CONTROL LINE 1
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SCALE VERIFICATION
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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

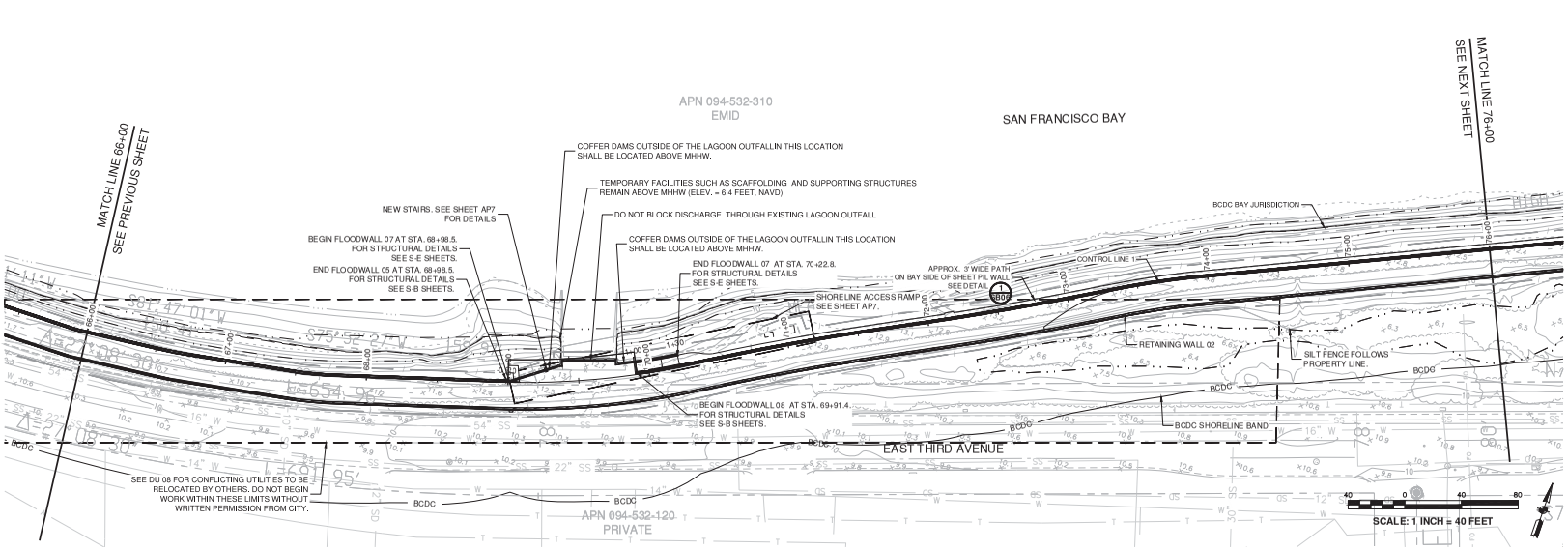
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 07
SHEET 85 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/23/2020 FILE PATH: C:\Users\Aaron\Desktop\SPG ADDENDUM NO. 4\SPG 05-10_Conform.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



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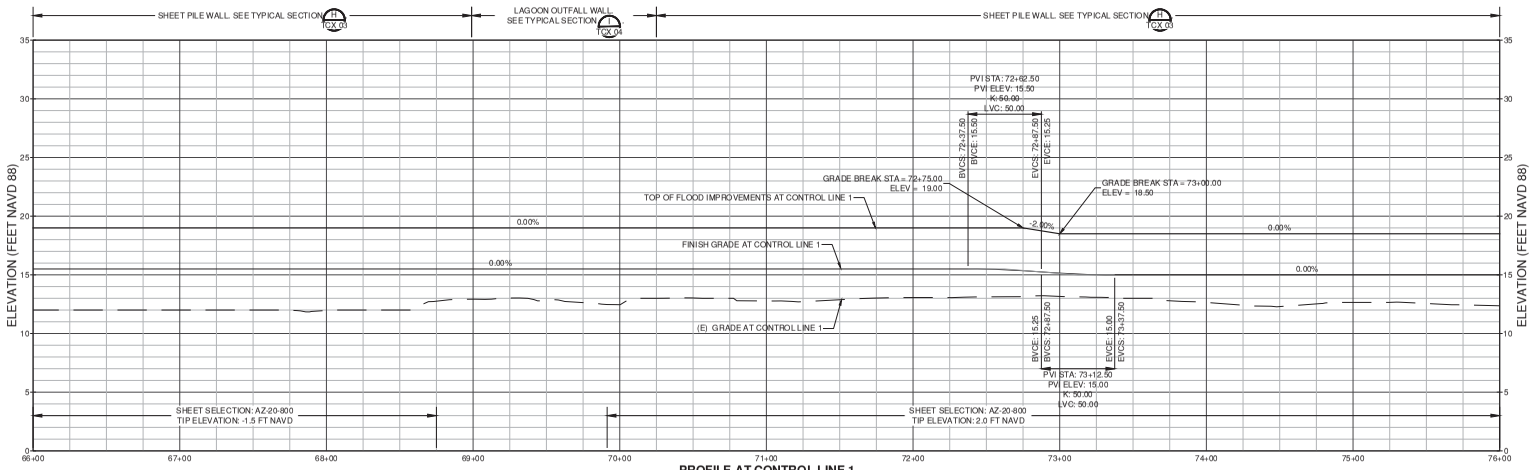

PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
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SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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SANTA CLARA, CA 95050
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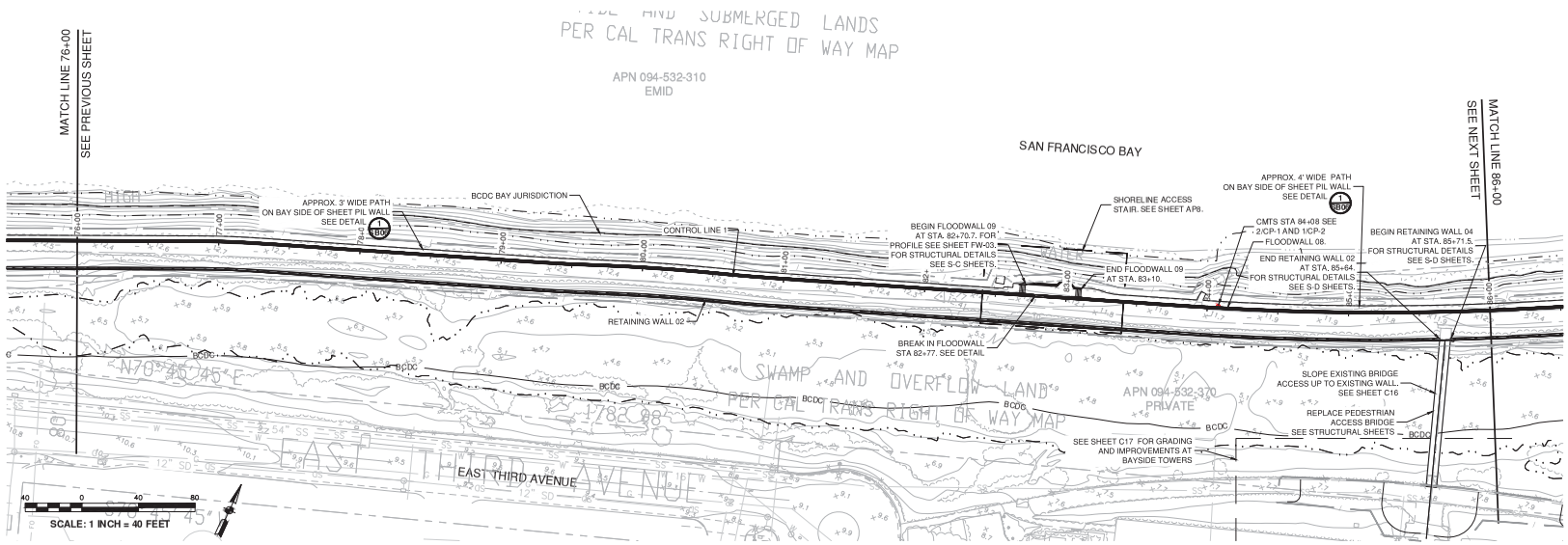
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

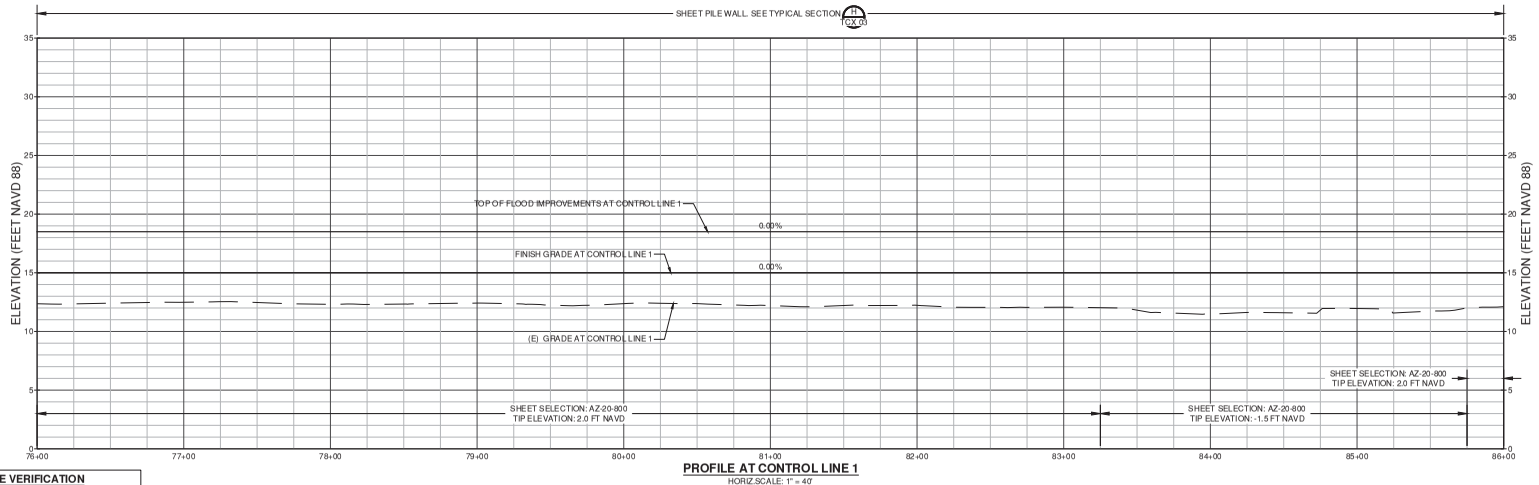
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 08
SHEET 86 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/23/2020 FILE PATH: C:\Users\Aaron\Desktop\SPG\ADDENDUM NO. 6\SPG 08-15_Conform.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





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DATE: 4/24/2020
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DRAWN BY: ARO
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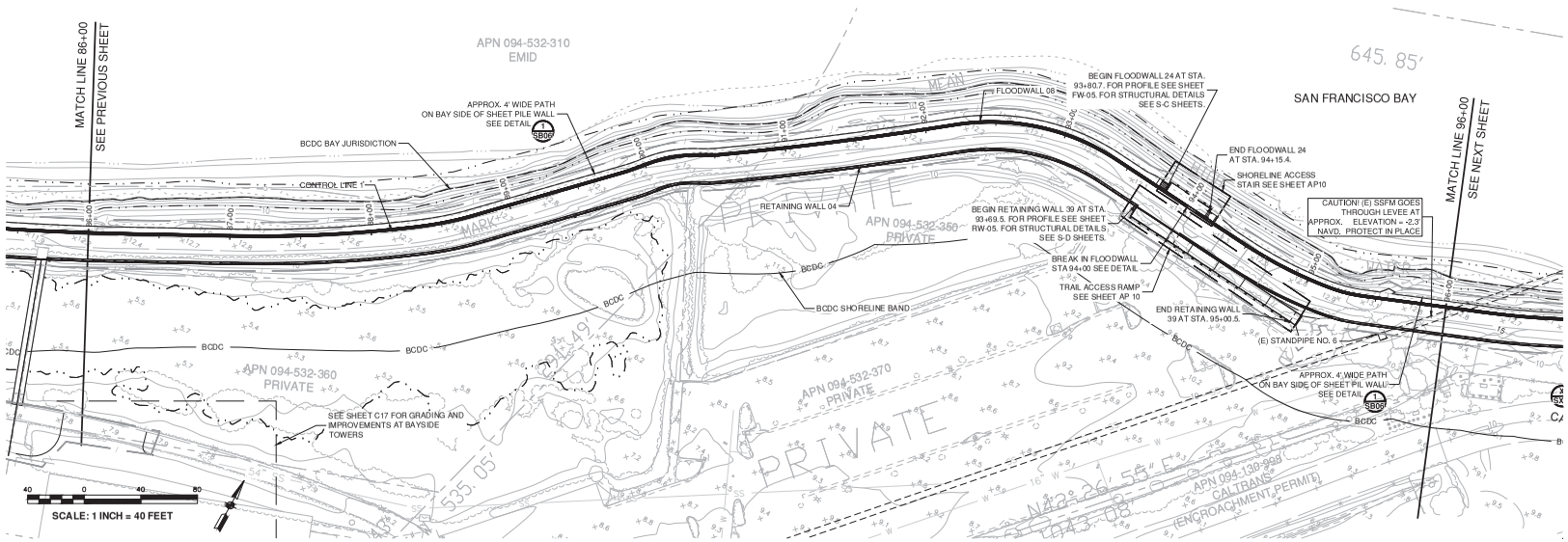
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 09
SHEET 87 OF 384
CIP PROJ. NUMBER
CIP 301-657

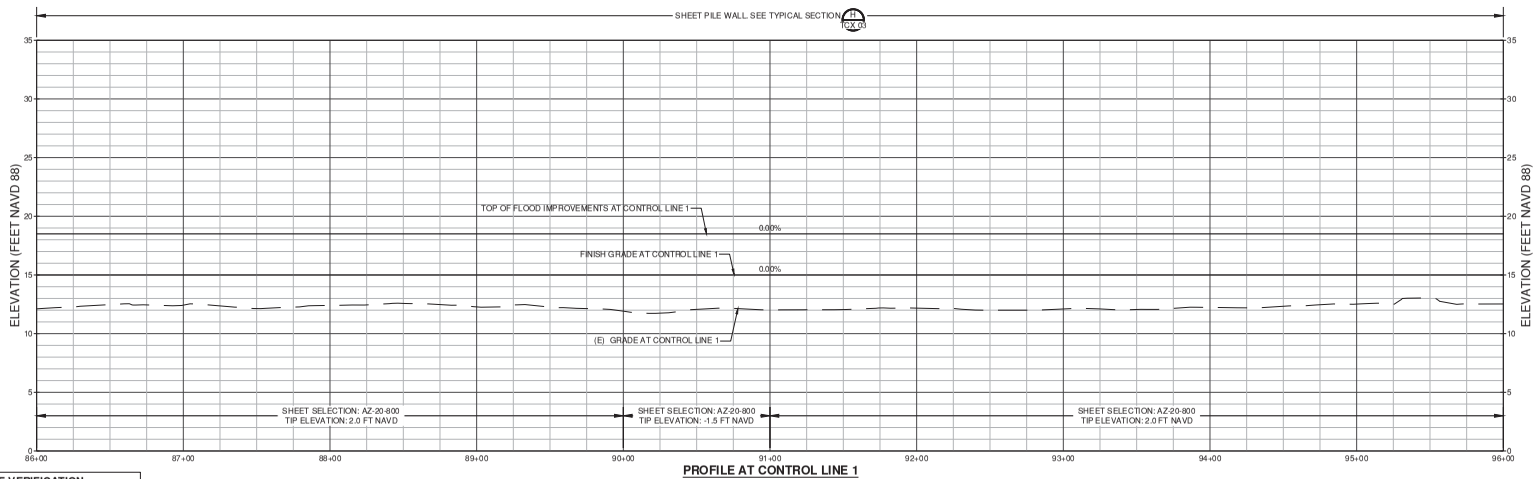
PLOT DATE: 7/23/2020 FILE PATH: C:\Users\Aowe\Desktop\SPG\ADDENDUM NO. 6\SPG 05-10_Conform.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SCL SHEETS) FOR PROJECT CONTROL LINE, FLOODWALL AND RETAINING WALL LAYOUTS, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE FLOODWALL SHEETS (FW SHEETS) FOR FLOODWALL PROFILES. SEE RETAINING WALL (RW) SHEETS RETAINING WALL PROFILES. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS) OTHER PROJECT DETAILS. SEE ACCESS POINT SHEETS (AP SHEETS) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS (SC SHEETS) FOR CONTROL LINE LAYOUTS.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. ALL IMPROVEMENTS ON CITY OF FOSTER CITY OR ESTERO MUNICIPAL DISTRICT PROPERTY UNLESS OTHERWISE NOTED.
7. PROJECT STATIONING FOLLOWS CONTROL LINE 1 UNLESS OTHERWISE NOTED.
8. CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION SAFETY. CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED TO PREVENT MOVEMENT OF INSTALLED AND EXISTING STRUCTURES.



PROFILE AT CONTROL LINE 1
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/01/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

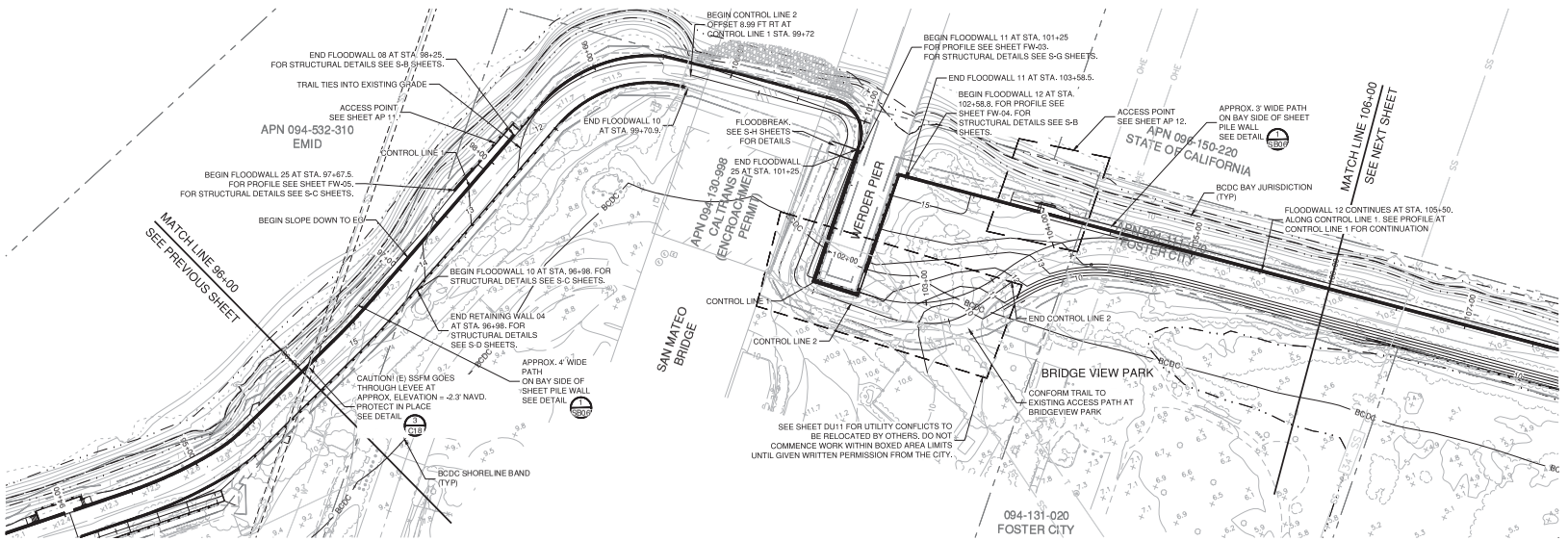
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 10
SHEET 88 OF 384
CIP PROJ. NUMBER
CIP 301-657

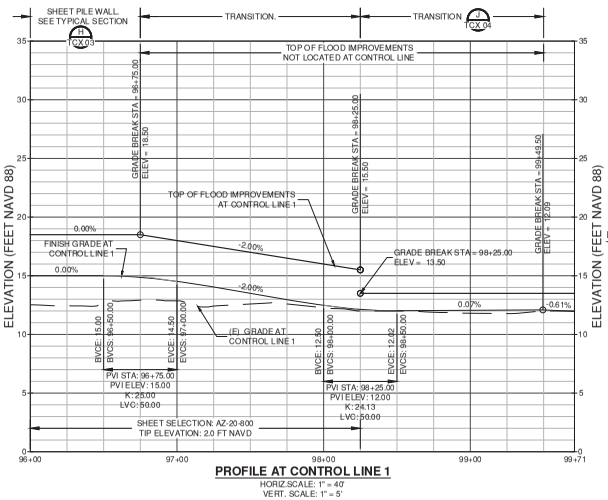
PLOT DATE: 7/23/2020 FILE PATH: C:\Users\ADam\Desktop\SPG\ADDENDUM NO. 6\SPG 05-10_Conform.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-793-ALL, X-UTILITIES, 90% FINAL GRADING

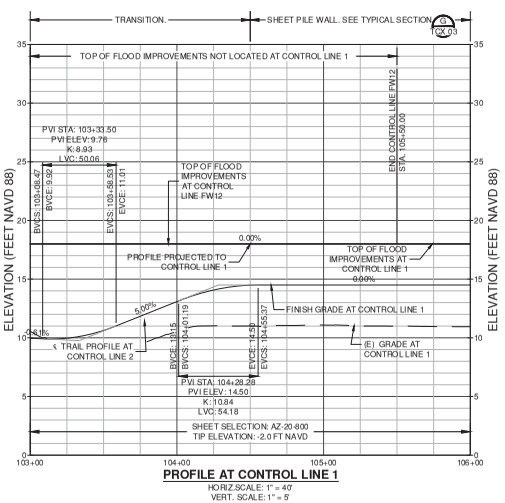


NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS FOR CONTROL LINE LAYOUT.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 5723 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.



SAN MATEO BRIDGE ABUTMENT LOCATED BETWEEN PROFILES



SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

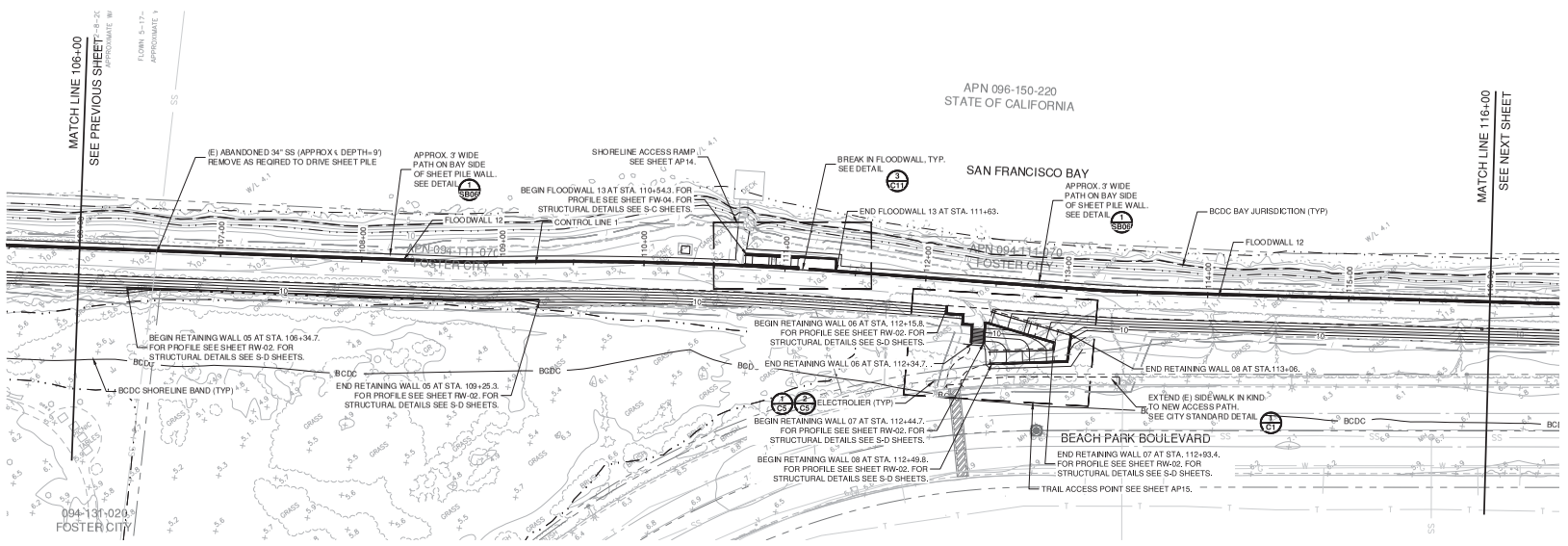
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 11
SHEET 89 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADam\Desktop\SPG\ADDENDUM NO. 6\SPG 11_Conformed.dwg
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS FOR CONTROL LINE LAYOUT.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
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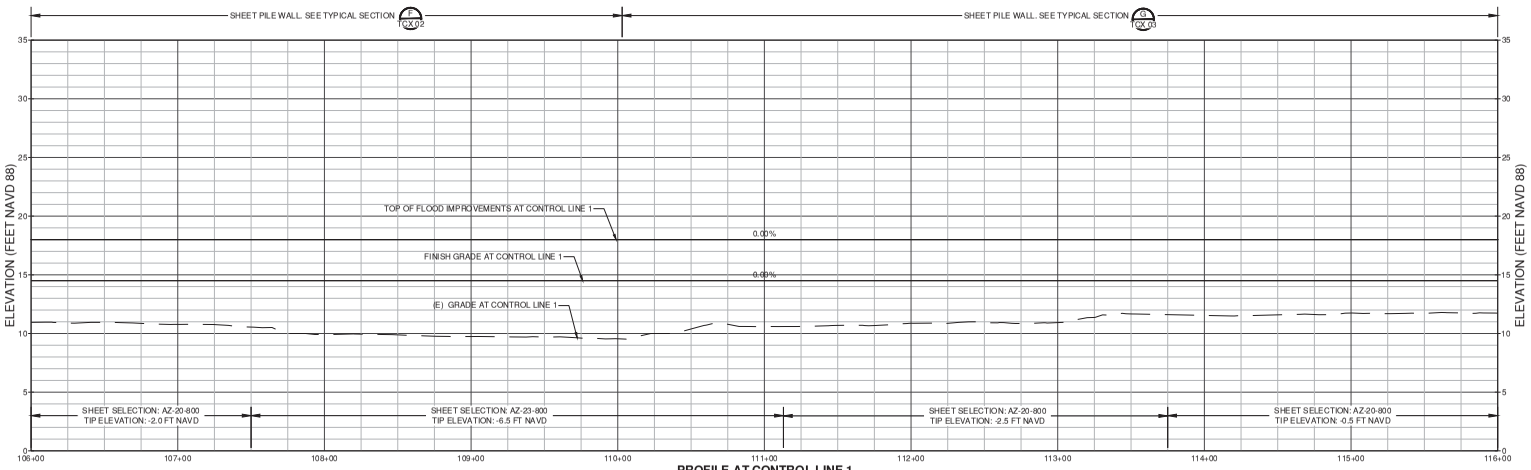
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 57 23 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WLSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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Schaaf & Wheeler
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1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

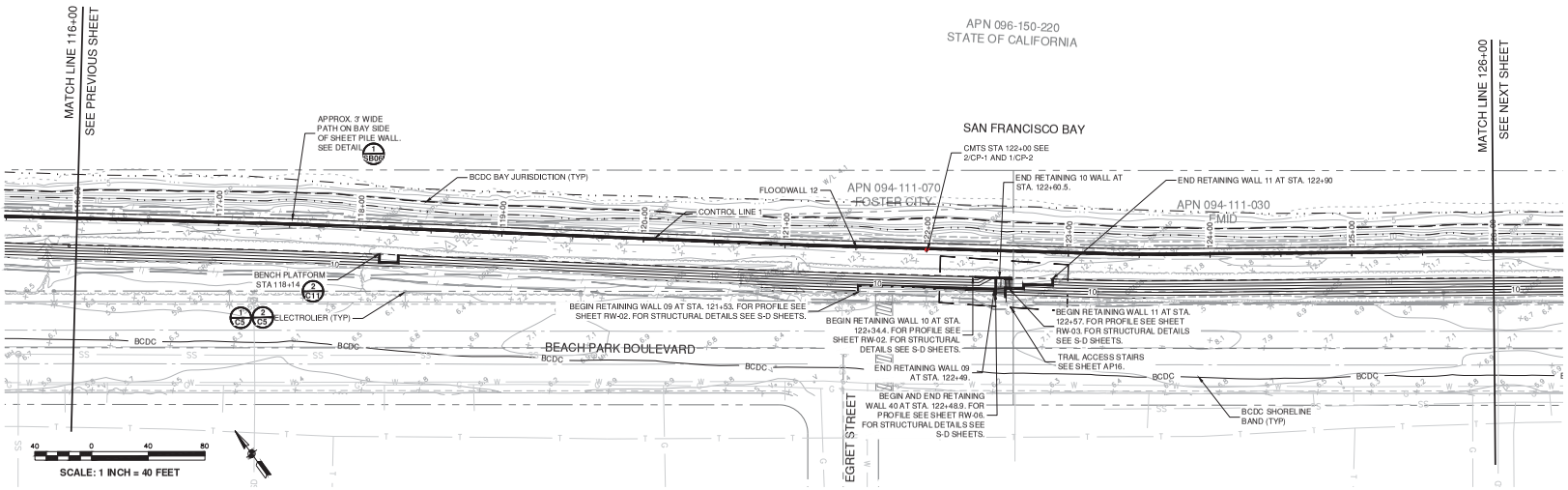
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

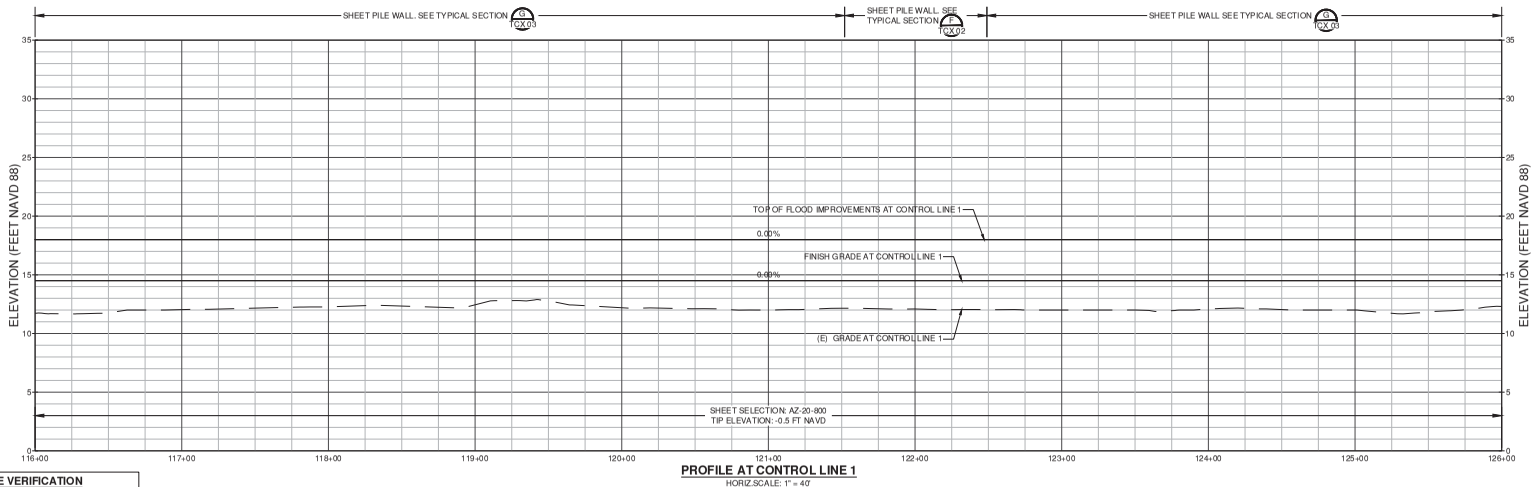
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 12
SHEET 90 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 6\SPG 12-15_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS FOR CONTROL LINE LAYOUT.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
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5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 57 23 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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PUBLIC WORKS DEPARTMENT
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Schaaf & Wheeler
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SANTA CLARA, CA 95050
(408) 246-4848

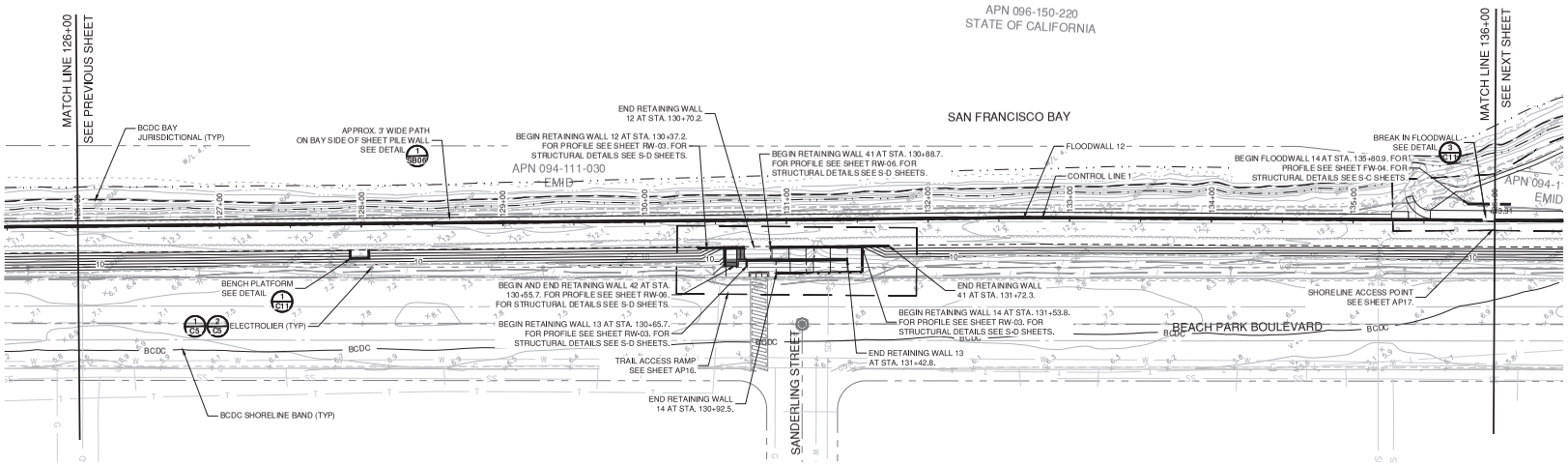
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

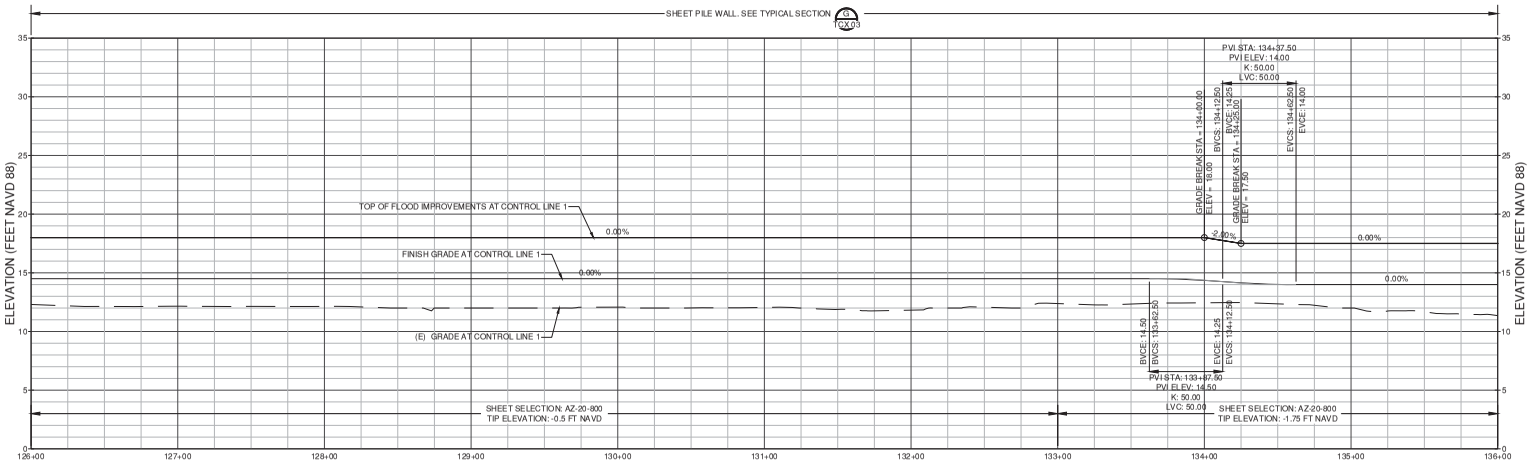
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 13
SHEET 91 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/8/2020 FILE PATH: C:\Users\AOwe\Desktop\SPG\ADDENDUM NO. 6\SPG 12-15_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

NOTES:

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3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
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6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 57 23 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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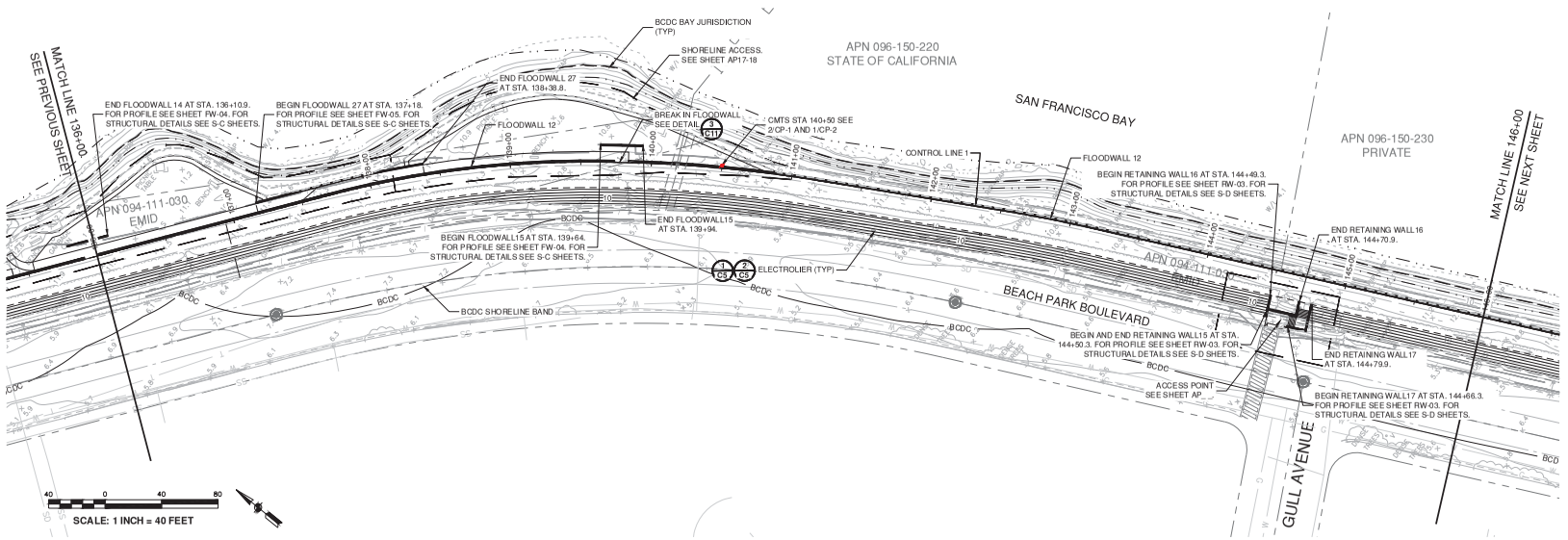
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 14
SHEET 92 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/8/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 6\SPG 12-15_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
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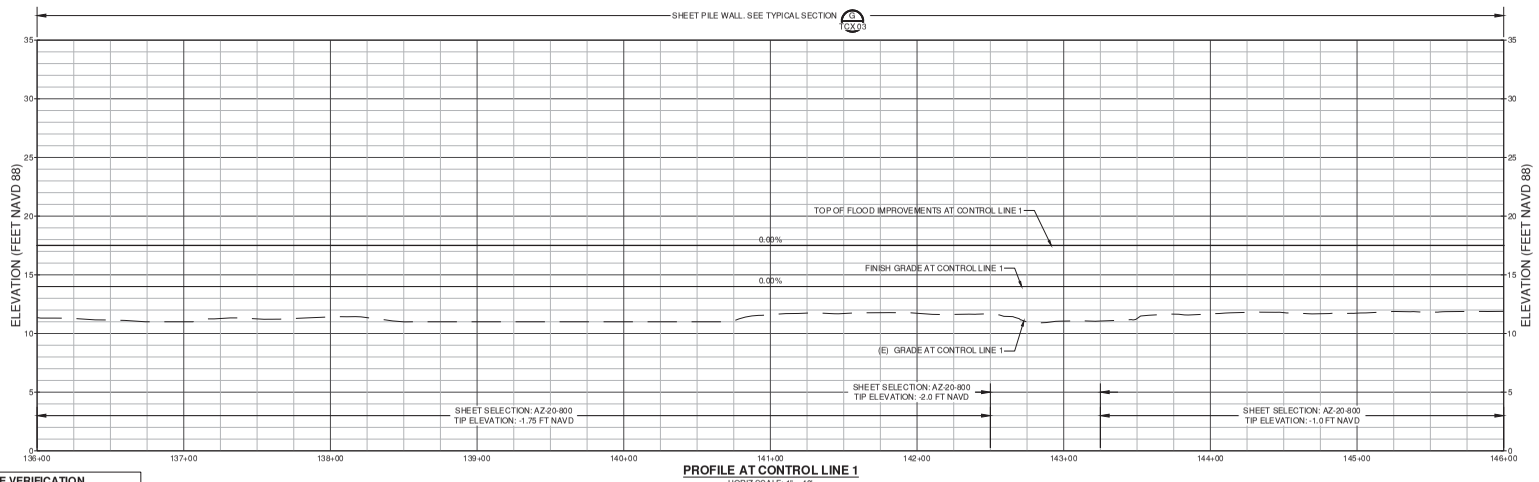

PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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PUBLIC WORKS DEPARTMENT
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(408) 246-4848

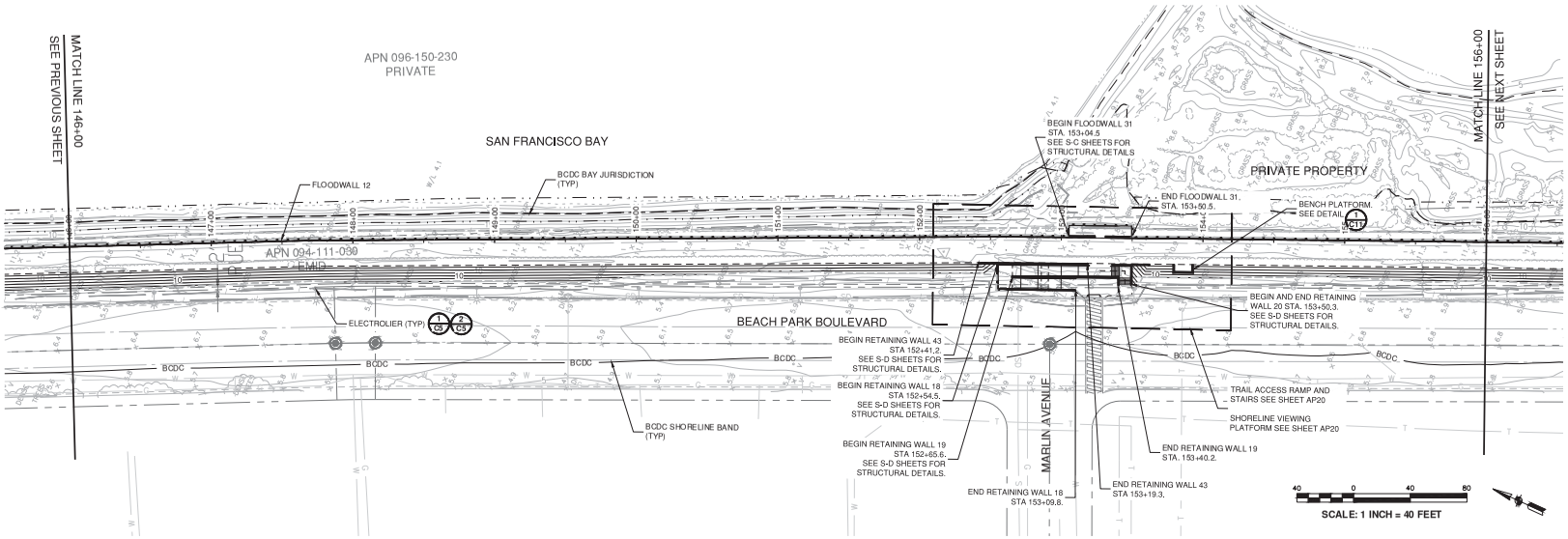
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 15
SHEET 93 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADavi\Desktop\SPG ADDENDUM NO. 6\SPG 12-15_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
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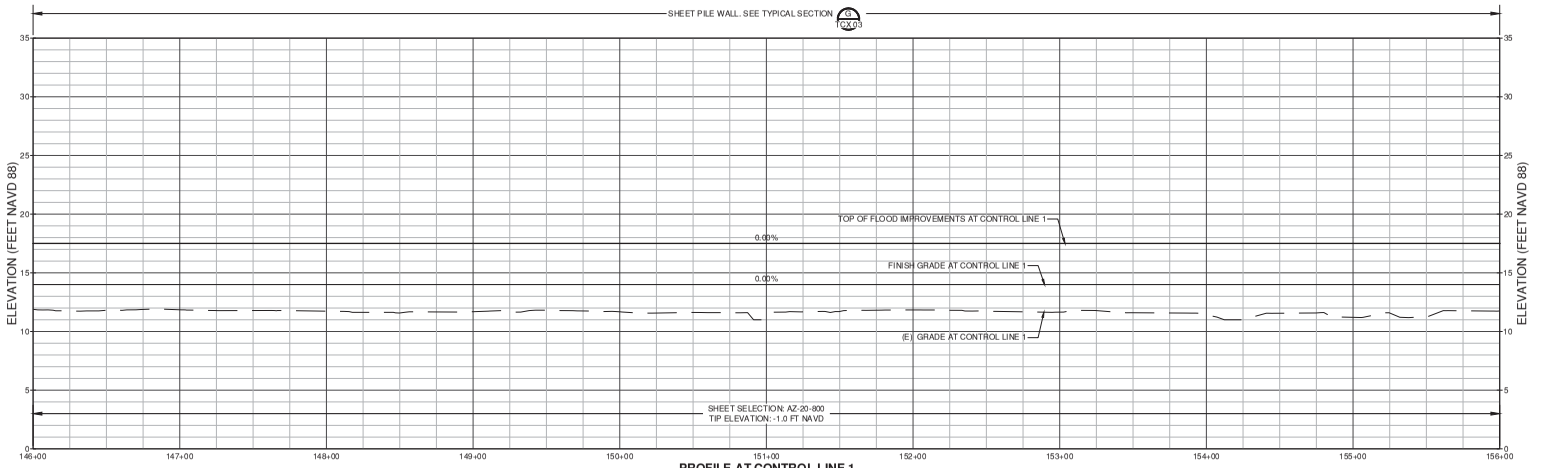
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 57 23 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

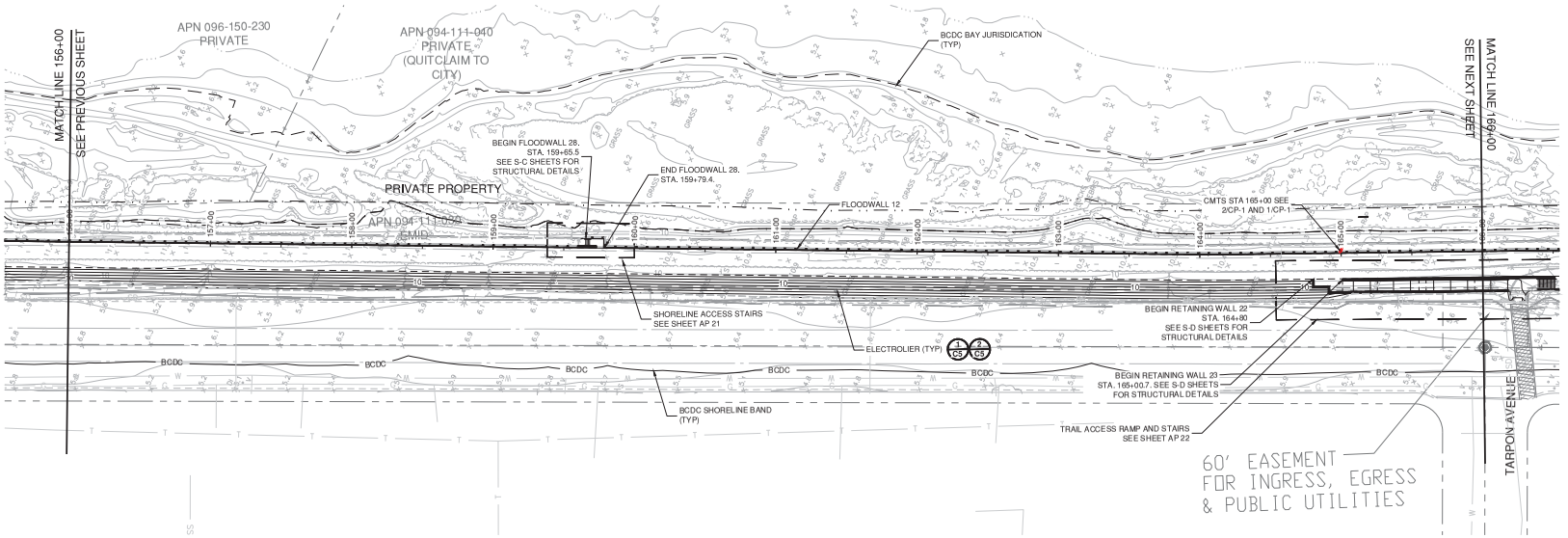
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 16
SHEET 94 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 6\SPG 12-16_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



SCALE: 1 INCH = 40 FEET

NOTES:

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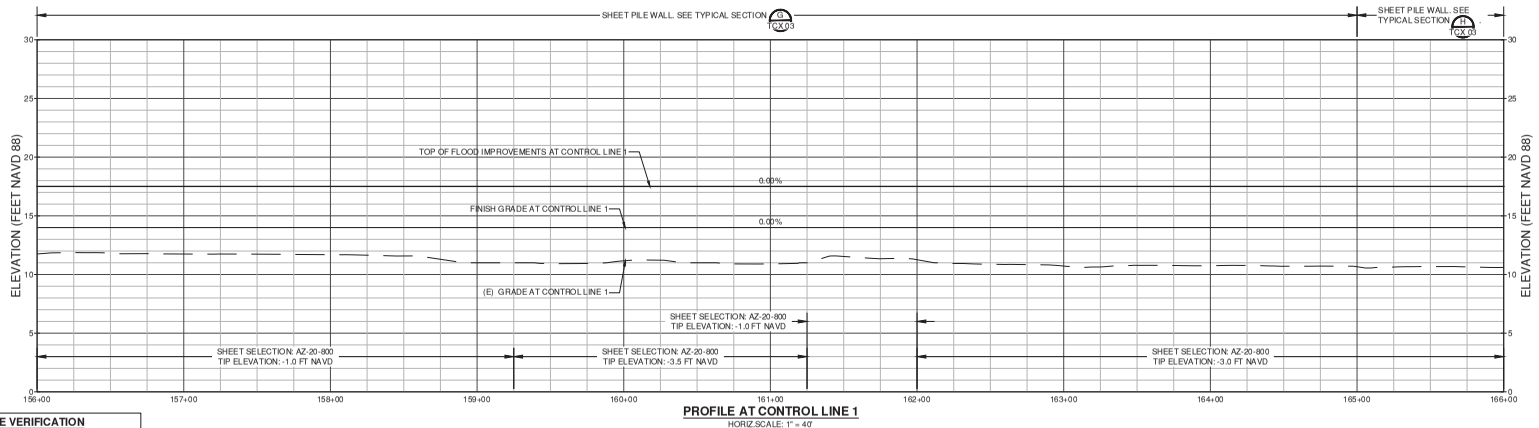

PROFILE AT CONTROL LINE 1
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VERT. SCALE: 1" = 5'

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DATE:	4/24/2020
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DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
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CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

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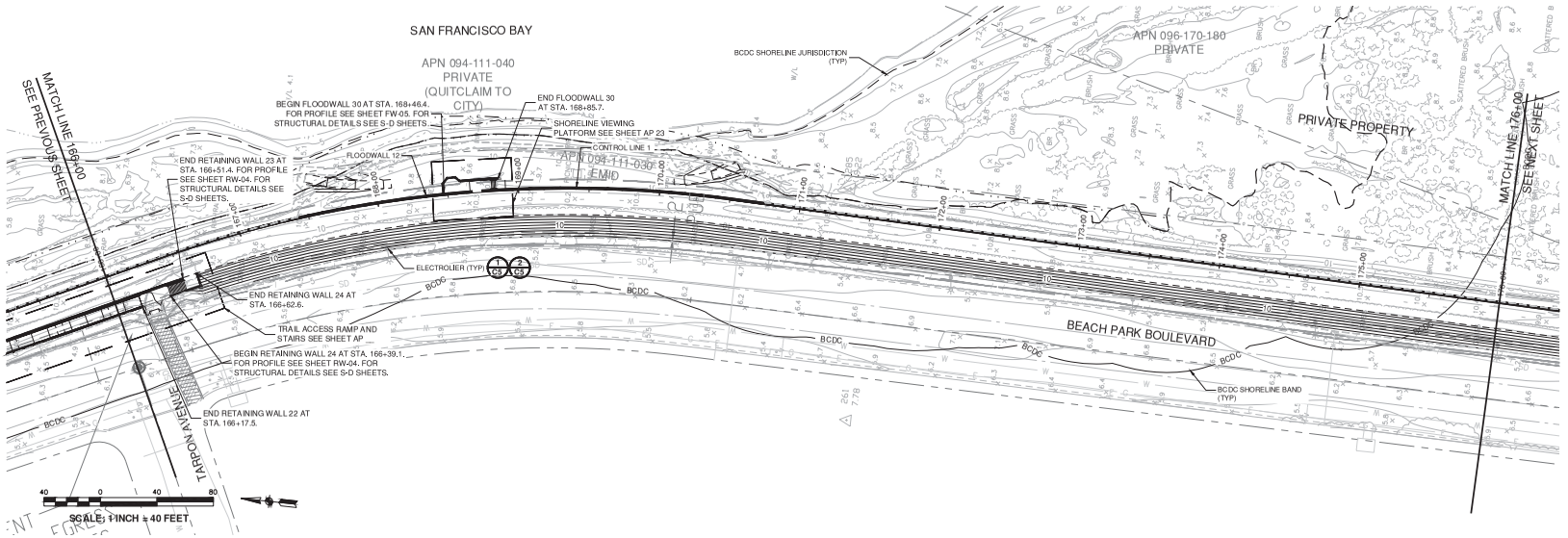
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 17
SHEET 95 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/8/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 6\SPG 12-15_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



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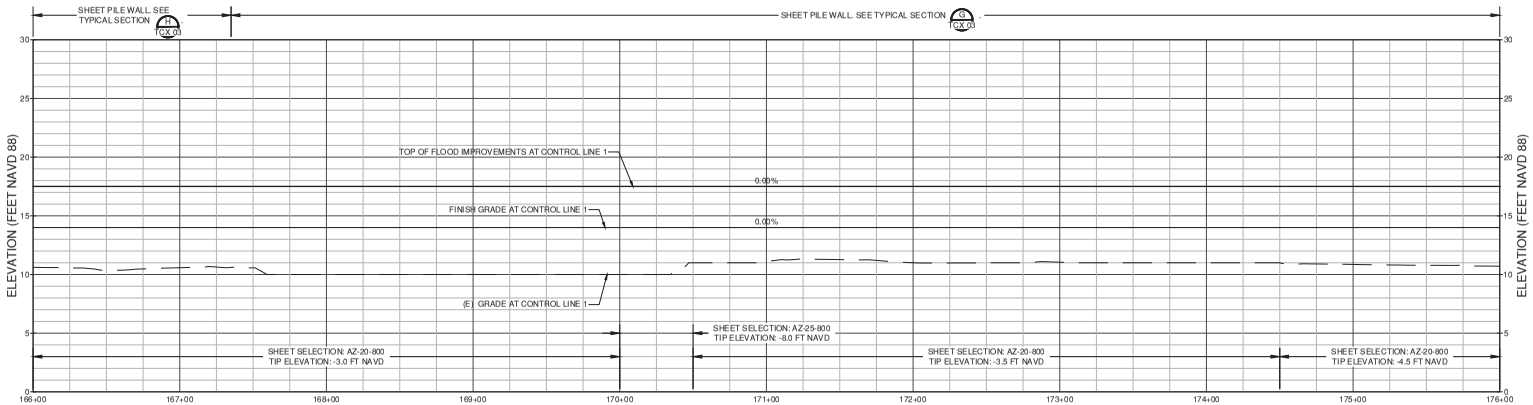

PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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SANTA CLARA, CA 95050
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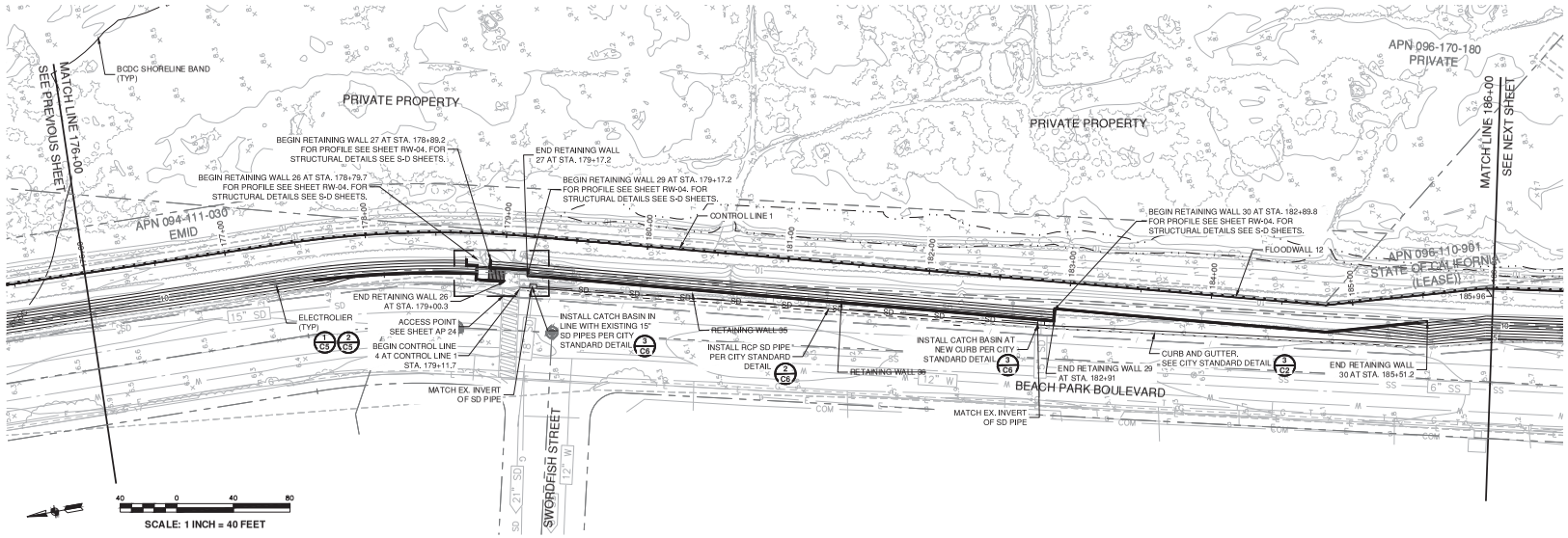
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

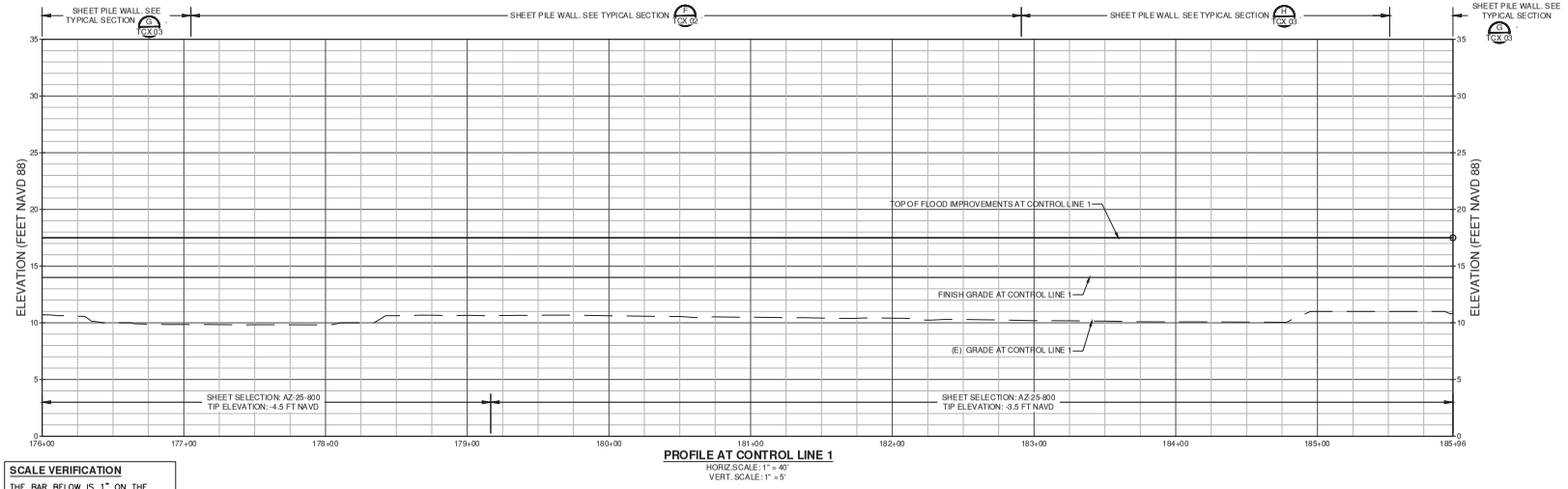
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 18
SHEET 96 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 6\SPG 12-18_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

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SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

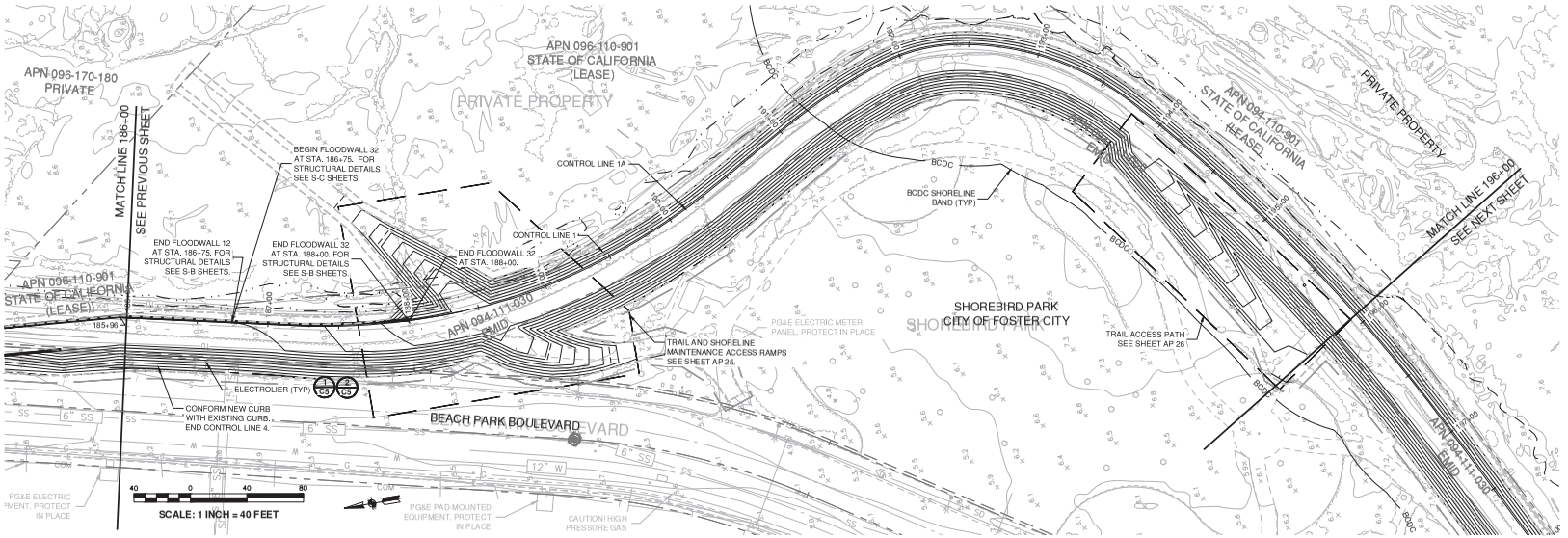
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 19
SHEET 97 OF 384

CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/7/2020 FILE PATH: C:\Users\Owner\Desktop\SPG\ADDENDUM NO. 3\SPG 19-20.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-750-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

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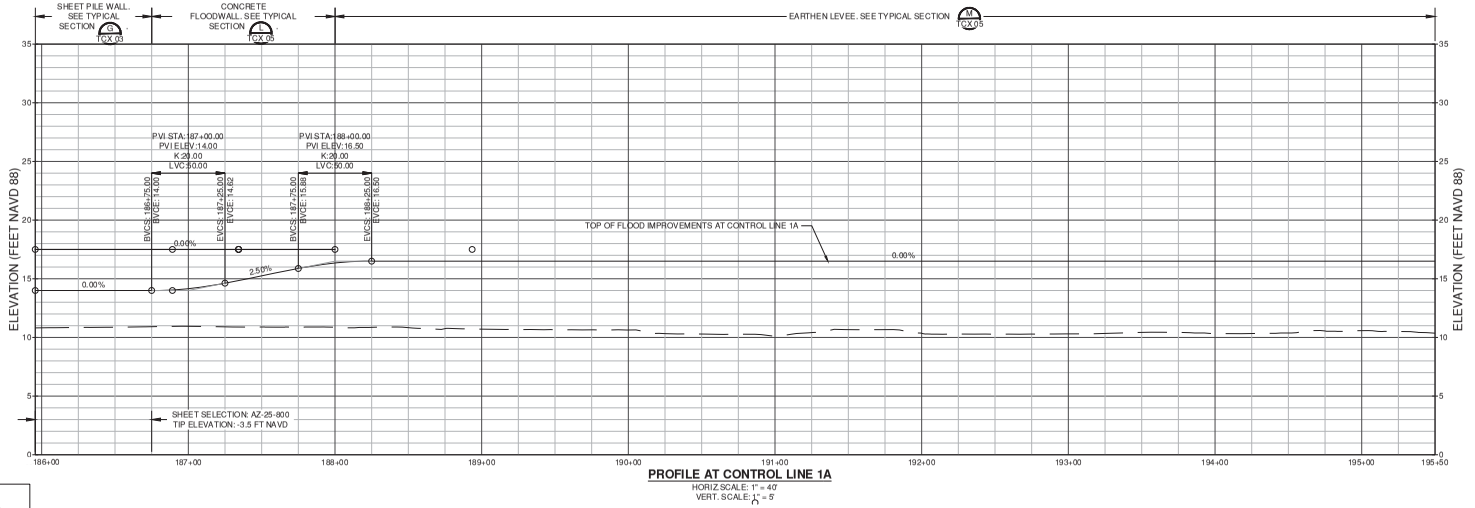

PROFILE AT CONTROL LINE 1A
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020		
SCALE:	AS SHOWN		
DRAWN BY:	ARO		
PROJECT NUMBER:	FOST.12.16		
DESIGNED BY:	ARO		
CHECKED BY:	CDA		
SURVEYED BY:	WLSEY-HAM		

NO.	BY	DATE	REVISIONS
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

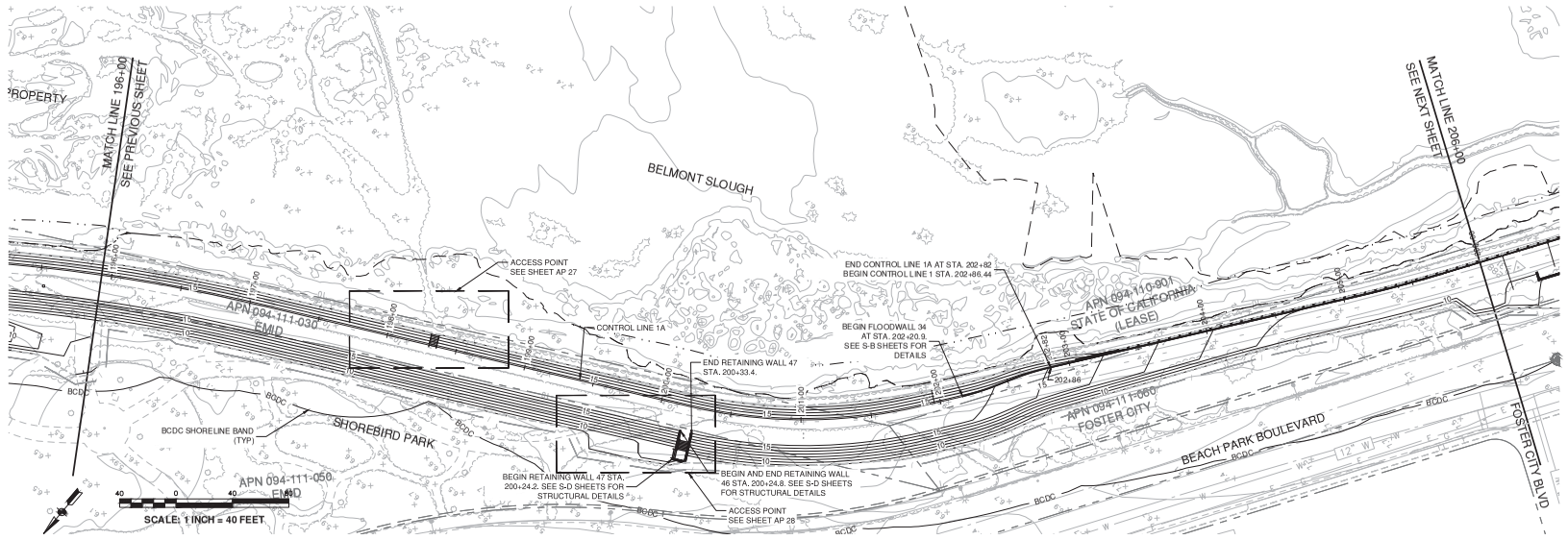
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 20
SHEET 98 OF 384

CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/7/2020 FILE PATH: C:\Users\AOsier\Desktop\SPG\ADDENDUM NO. 3\SPG 19-20.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



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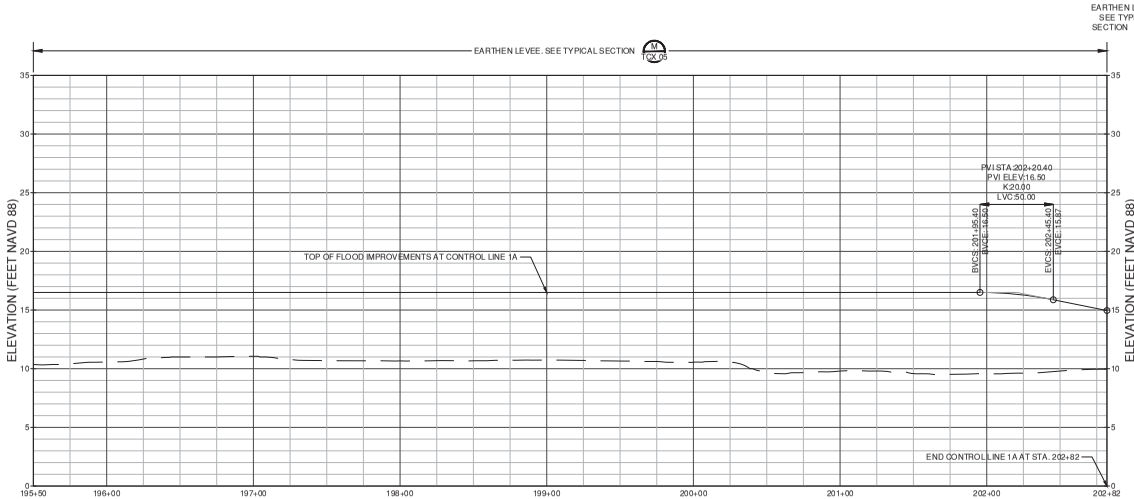

PROFILE AT CONTROL LINE 1A
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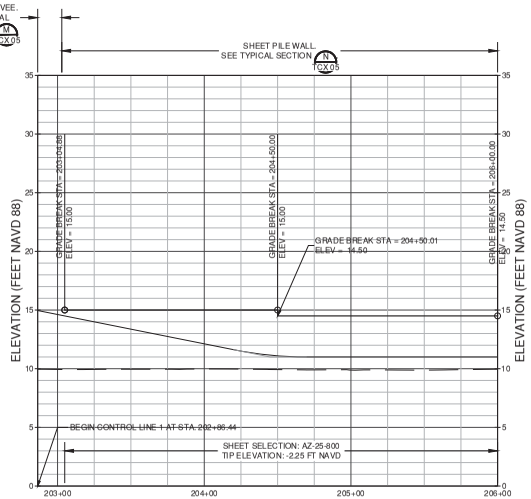

NOTE: CONTROL LINE 1 STATIONING AT THE END OF CONTROL LINE 1A EQUALS CONTROL LINE 1A STATIONING PLUS 4.44 FEET.

PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
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SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
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SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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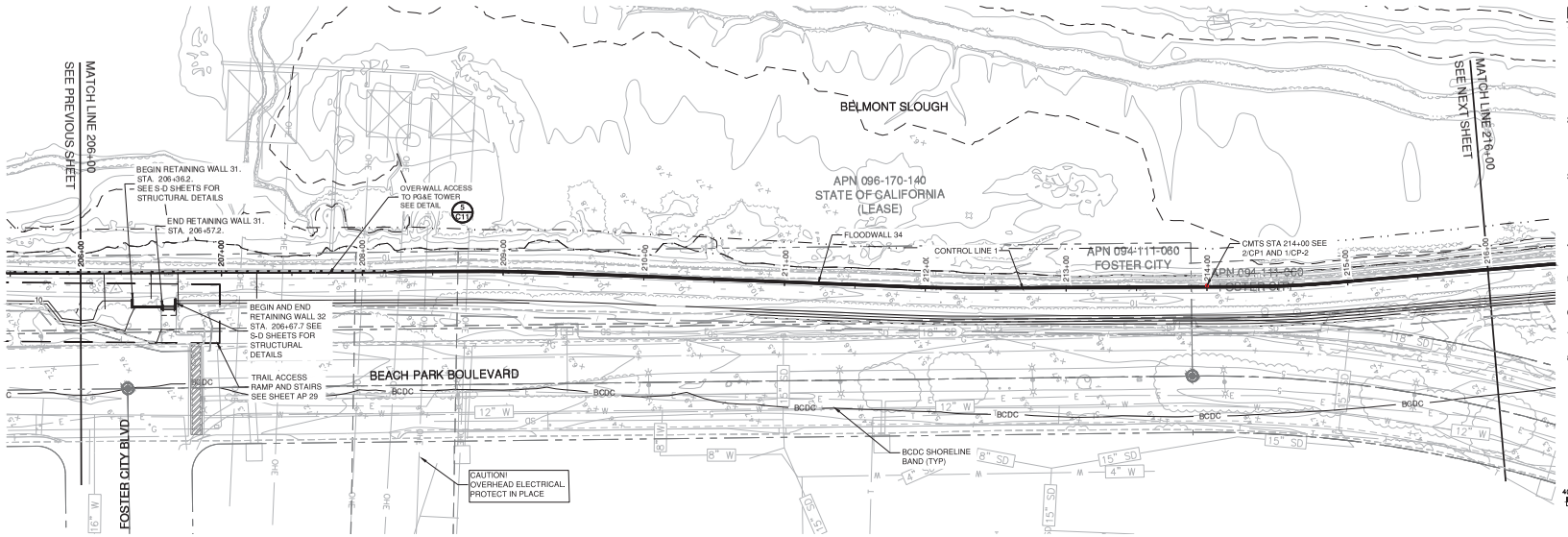
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 21
SHEET 99 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADavis\Desktop\SPG\ADDENDUM NO. 4\SPG 21-24_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



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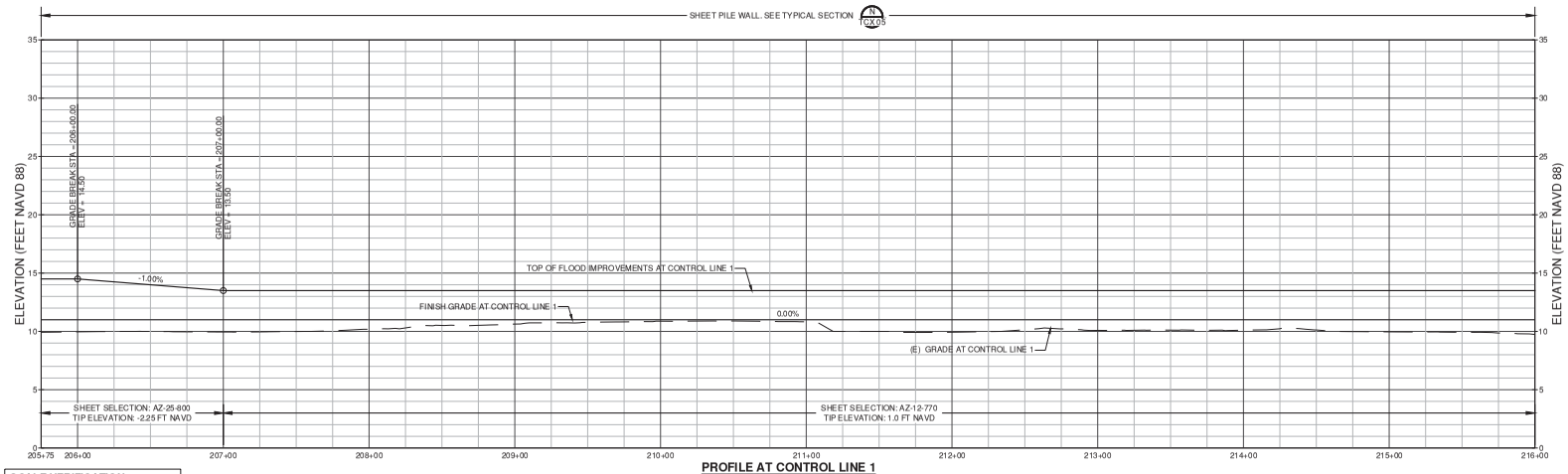
6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 57 23 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.



PROFILE AT CONTROL LINE 1
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WLSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

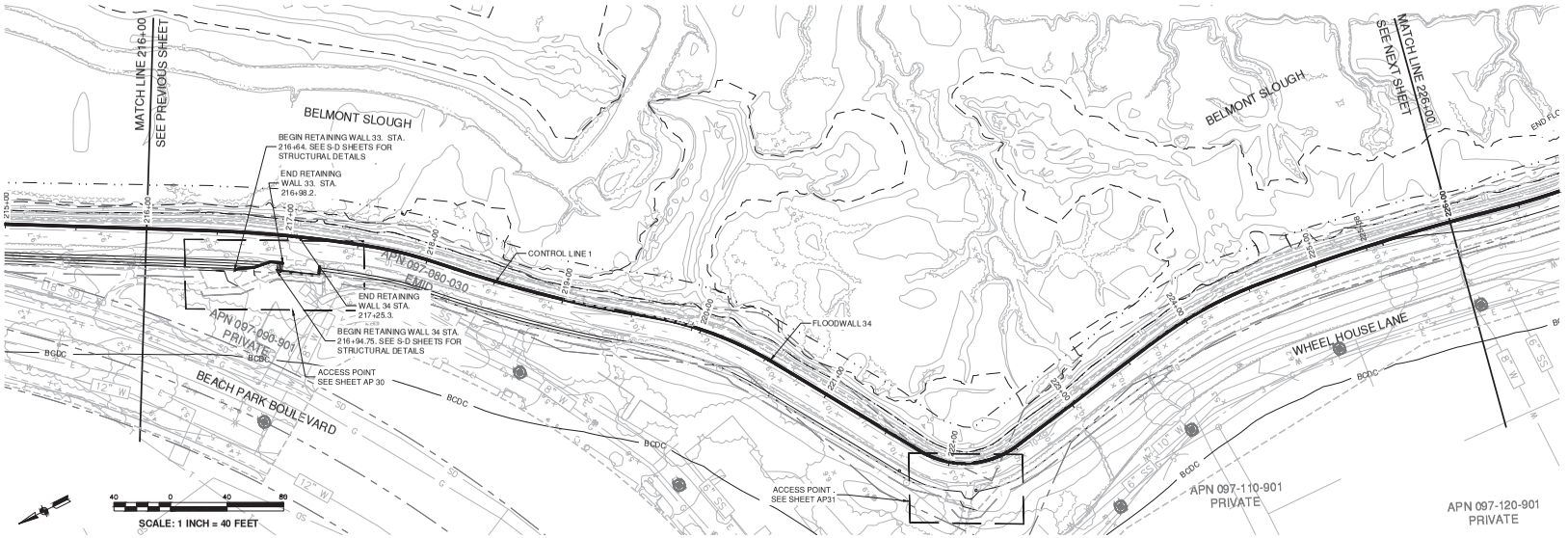
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 22
SHEET 100 OF 384
CIP PROJ. NUMBER
CIP 301-657

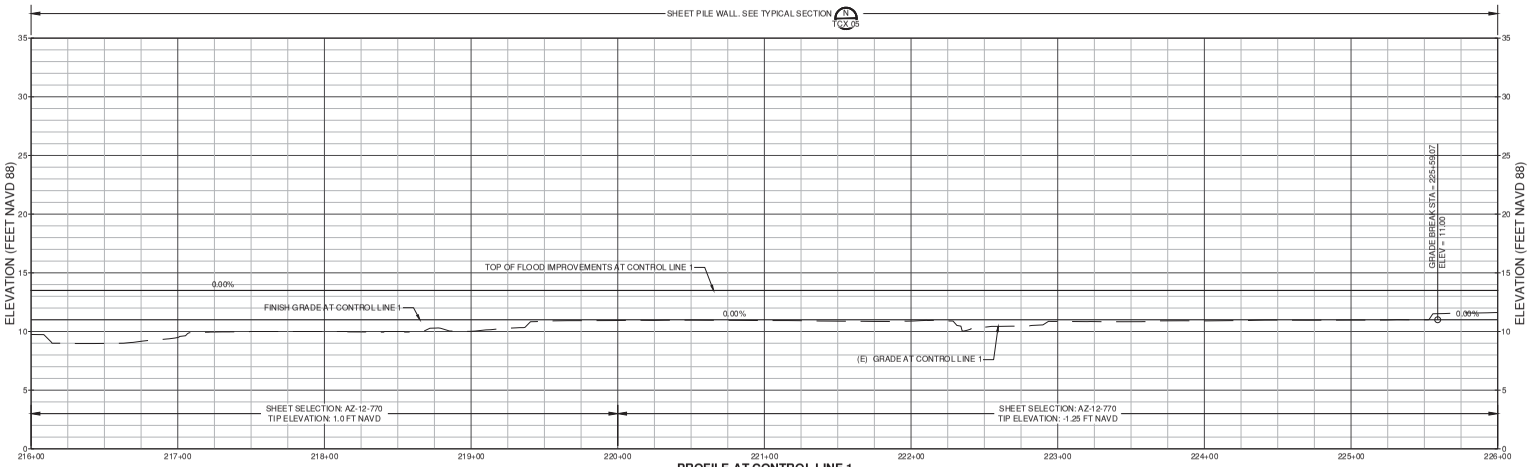
PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 4\SPG 21-24_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS FOR CONTROL LINE LAYOUT.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 57 23 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WLSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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SANTA CLARA, CA 95050
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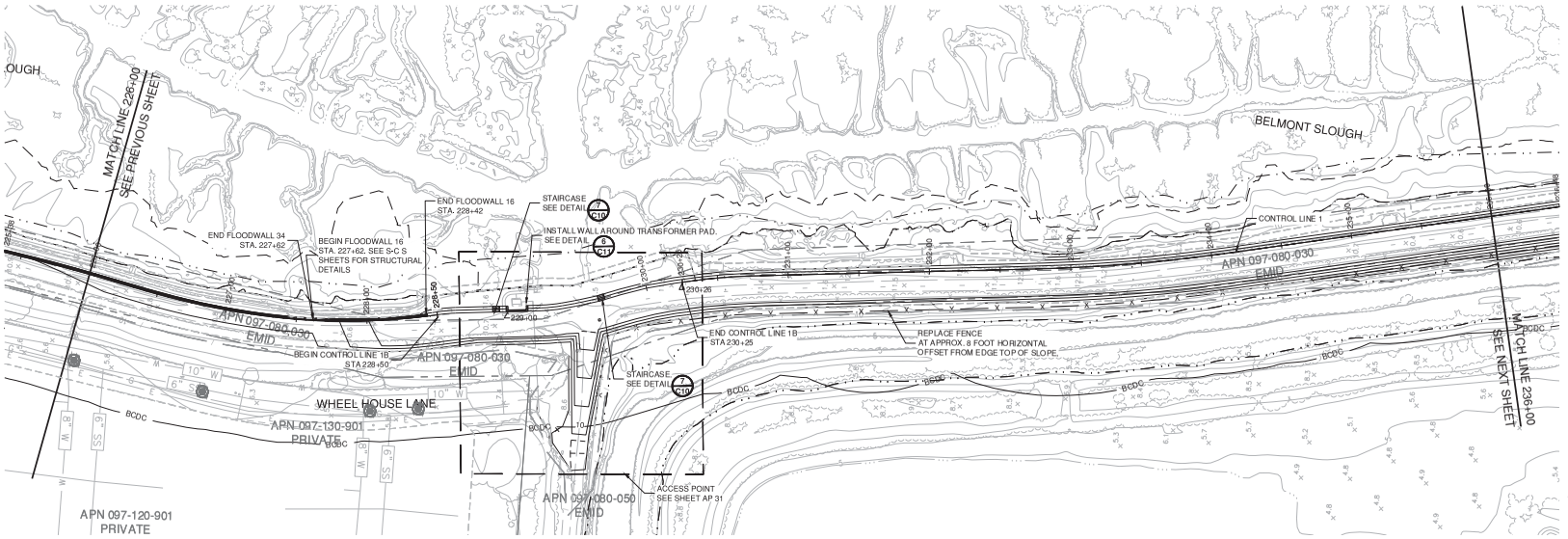
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 23
SHEET 101 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\AOwe\Desktop\SPG\ADDENDUM NO. 6\SPG 21-24_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



SCALE: 1 INCH = 40 FEET

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS FOR CONTROL LINE LAYOUT.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
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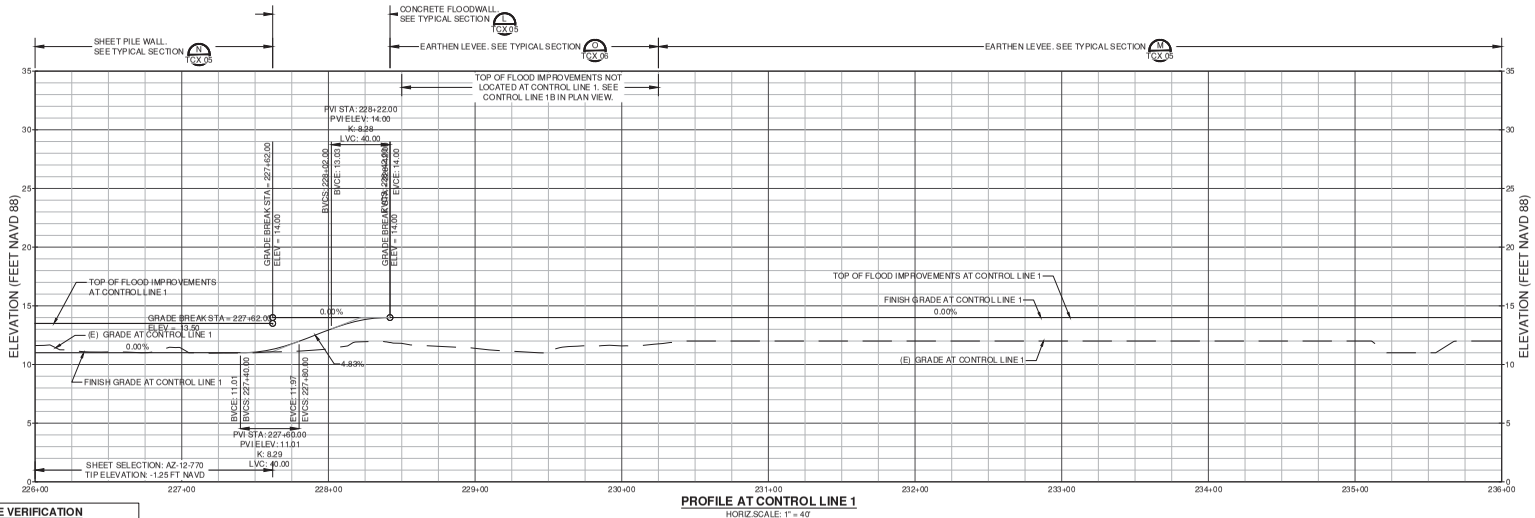

PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
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SANTA CLARA, CA 95050
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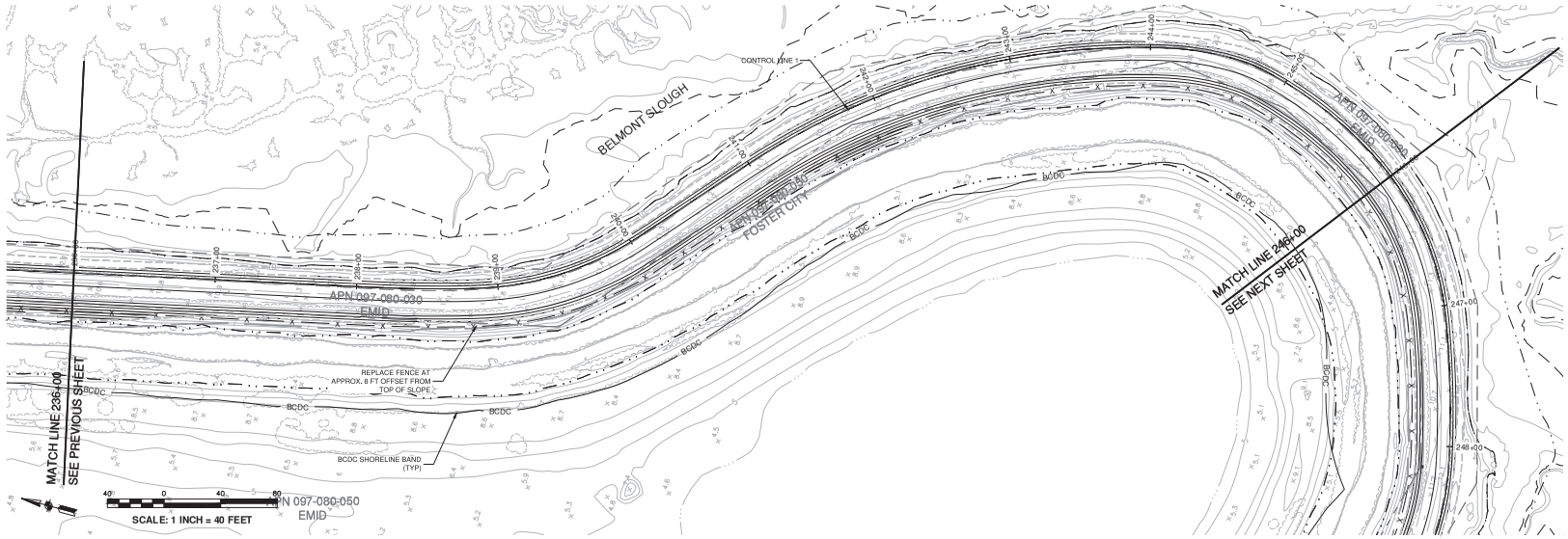
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 24
SHEET 102 OF 384
CIP PROJ. NUMBER
CIP 301-657

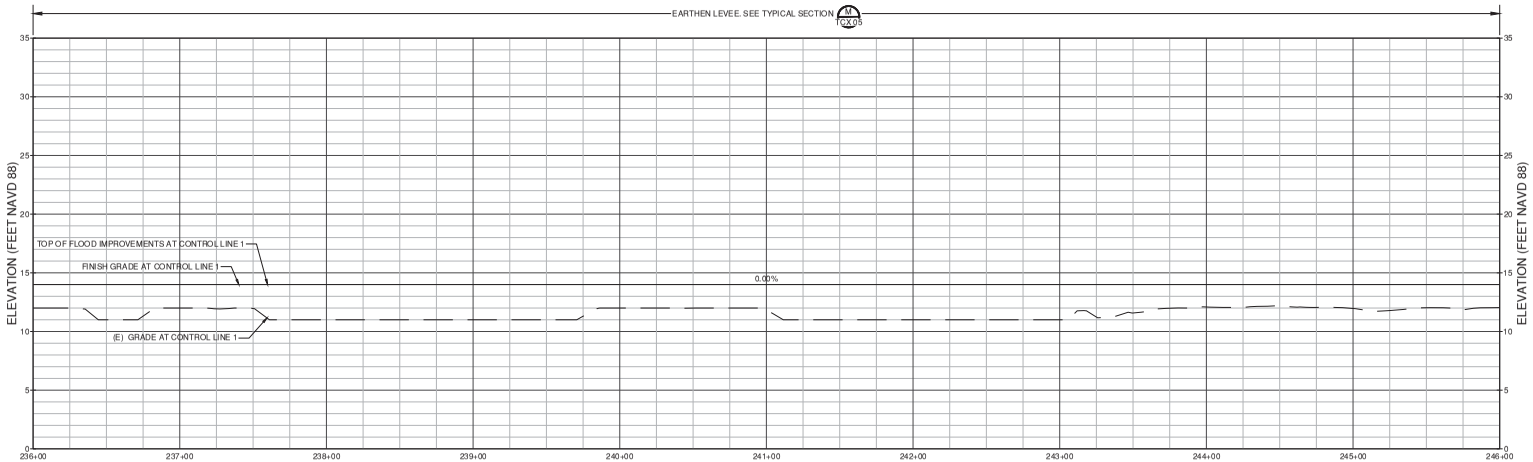
PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADavi\Desktop\SPG ADDENDUM NO. 01\SPG 21-24_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SCL SHEETS) FOR PROJECT CONTROL LINE, FLOODWALL AND RETAINING WALL LAYOUTS, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE FLOODWALL SHEETS (FW SHEETS) FOR FLOODWALL PROFILES. SEE RETAINING WALL (RW) SHEETS RETAINING WALL PROFILES. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS) OTHER PROJECT DETAILS. SEE ACCESS POINT SHEETS (AP SHEETS) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS (SC SHEETS) FOR CONTROL LINE LAYOUTS.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. ALL IMPROVEMENTS ON CITY OF FOSTER CITY OR ESTERO MUNICIPAL DISTRICT PROPERTY UNLESS OTHERWISE NOTED.
7. PROJECT STATIONING FOLLOWS CONTROL LINE 1 UNLESS OTHERWISE NOTED.
8. CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION SAFETY. CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED TO PREVENT MOVEMENT OF INSTALLED AND EXISTING STRUCTURES.



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4826

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

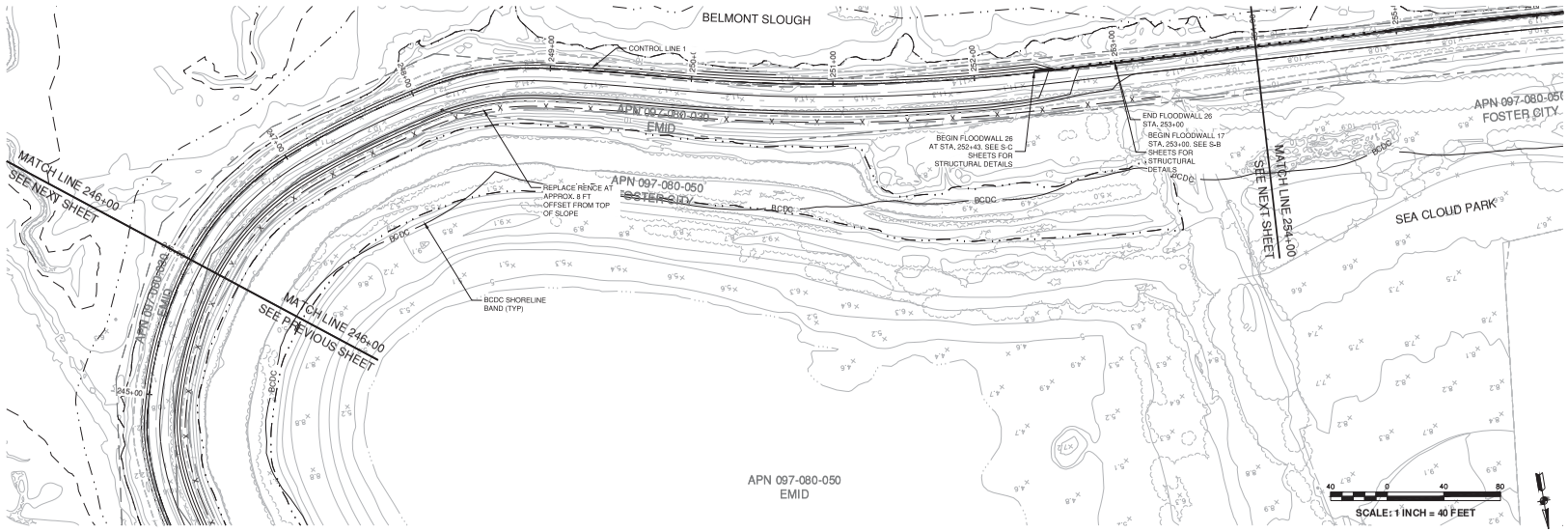
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 25
SHEET 103 OF 384
CIP PROJ. NUMBER
CIP 301-657

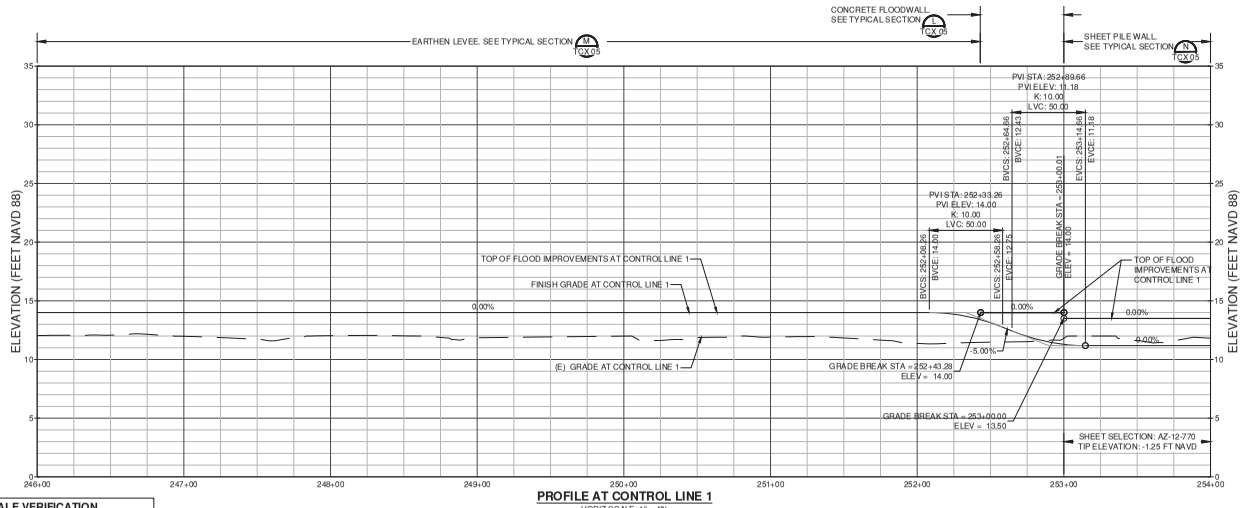
PLOT DATE: 7/30/2020 FILE PATH: C:\Users\AOwe\Desktop\SPG\SPG 25-35.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SCL SHEETS) FOR PROJECT CONTROL LINE, FLOODWALL AND RETAINING WALL LAYOUTS, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE FLOODWALL SHEETS (FW SHEETS) FOR FLOODWALL PROFILES. SEE RETAINING WALL (RW) SHEETS RETAINING WALL PROFILES. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS) OTHER PROJECT DETAILS. SEE ACCESS POINT SHEETS (AP SHEETS) FOR ACCESS POINT DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS (SC SHEETS) FOR CONTROL LINE LAYOUTS.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.
5. AREAS WITHIN EXISTING CITY RIGHT-OF-WAY SHALL BE GRADED SUCH THAT RUNOFF DRAINS TO THE INBOARD SIDE OF THE LEVEE UNLESS OTHERWISE NOTED.
6. ALL IMPROVEMENTS ON CITY OF FOSTER CITY OR ESTERO MUNICIPAL DISTRICT PROPERTY UNLESS OTHERWISE NOTED.
7. PROJECT STATIONING FOLLOWS CONTROL LINE 1 UNLESS OTHERWISE NOTED.
8. CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION SAFETY. CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED TO PREVENT MOVEMENT OF INSTALLED AND EXISTING STRUCTURES.



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

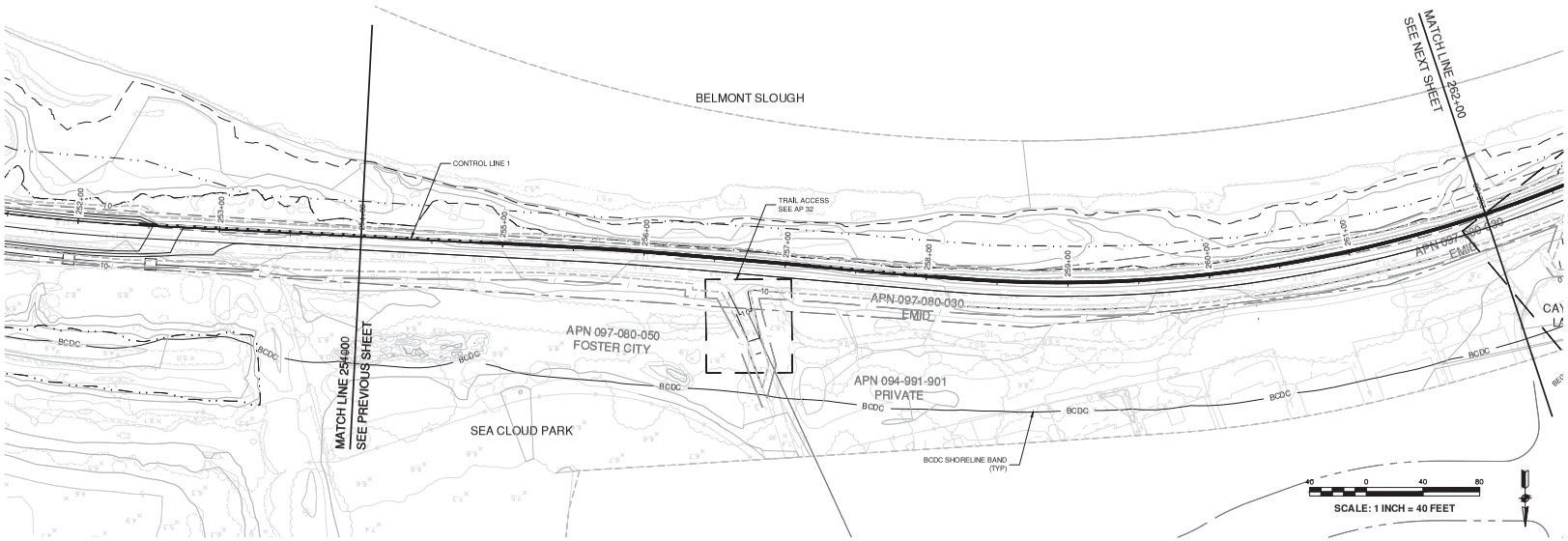
SHEET PILE INSTALLATION AND GRADING

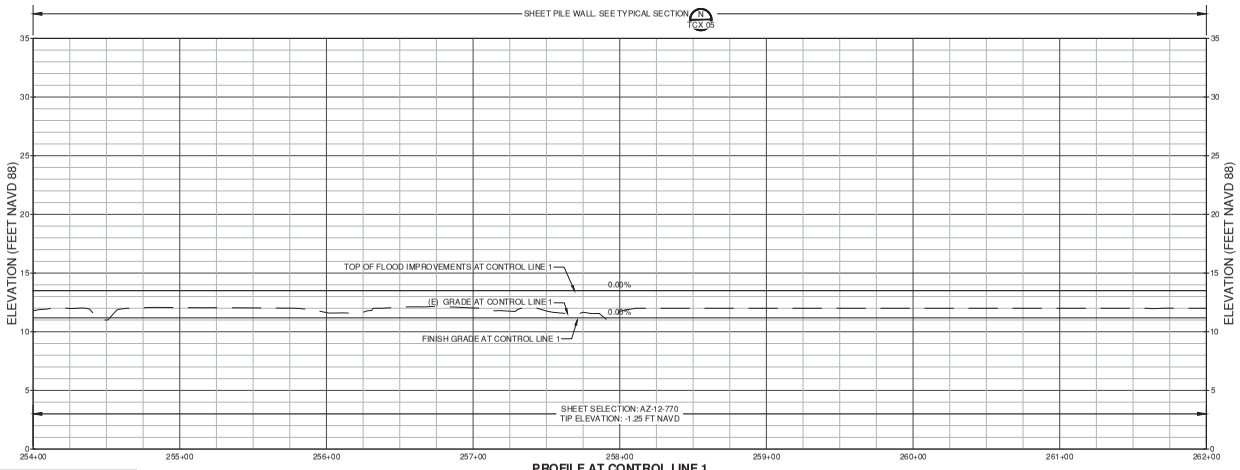
SHEET
SPG 26
SHEET 104 OF 384

CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/30/2020 FILE PATH: C:\Users\AOwen\Desktop\SPG\SPG 26-35.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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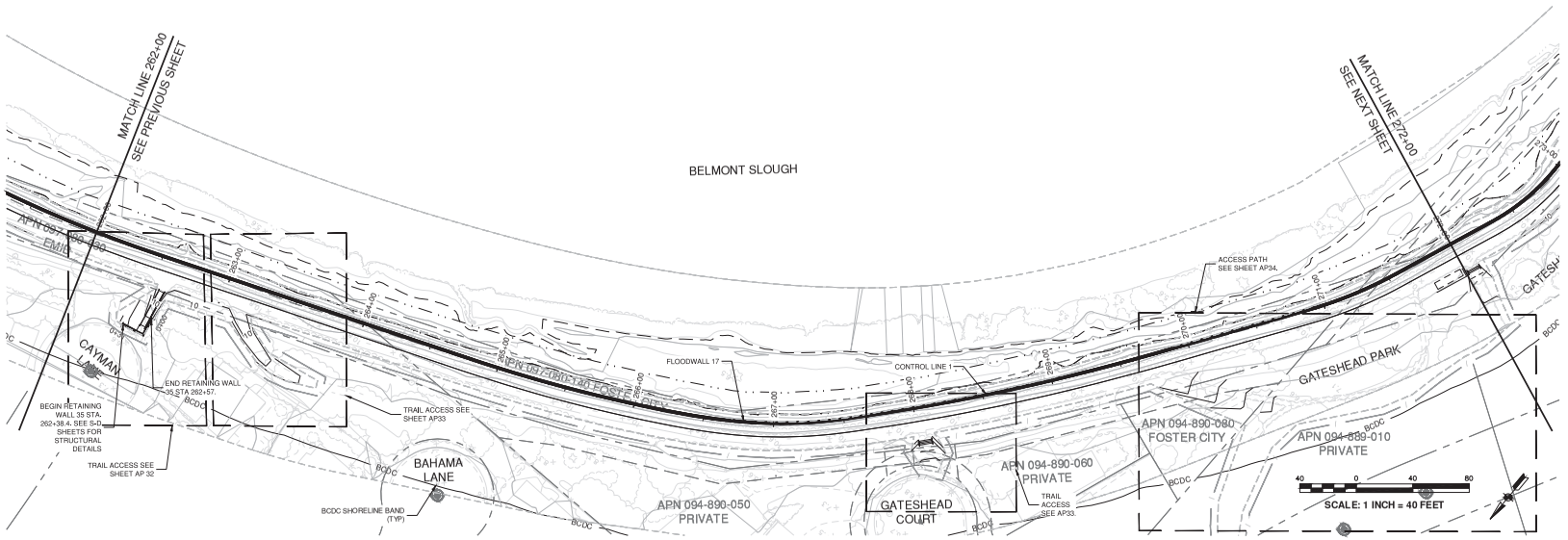
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

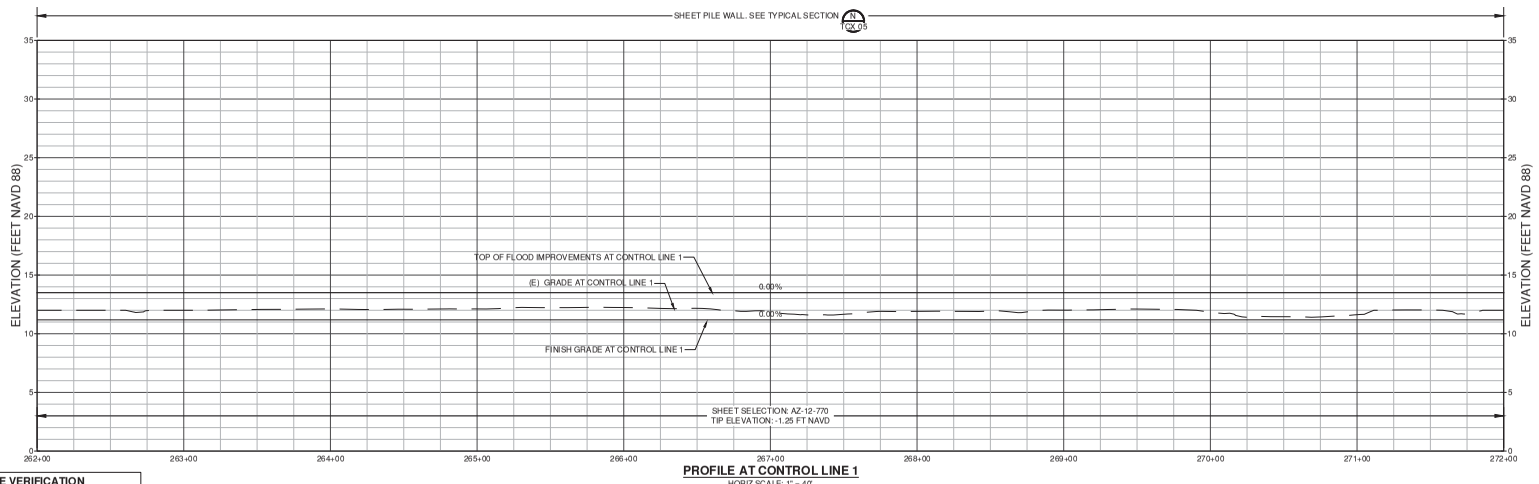
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 27
SHEET 105 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/29/2020 FILE PATH: C:\Users\ACruz\Desktop\SPG\ADDENDUM NO. 6\SPG 27-31_Conformed.dwg

XREFS: X-Title Block, X-Topo -Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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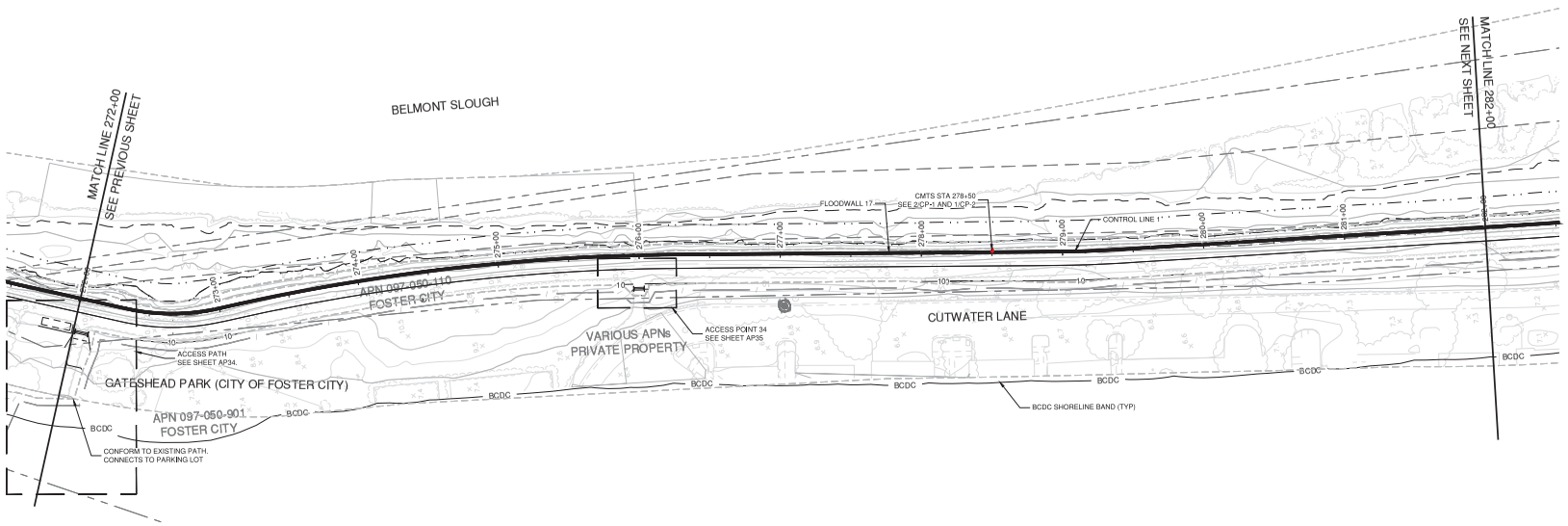
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

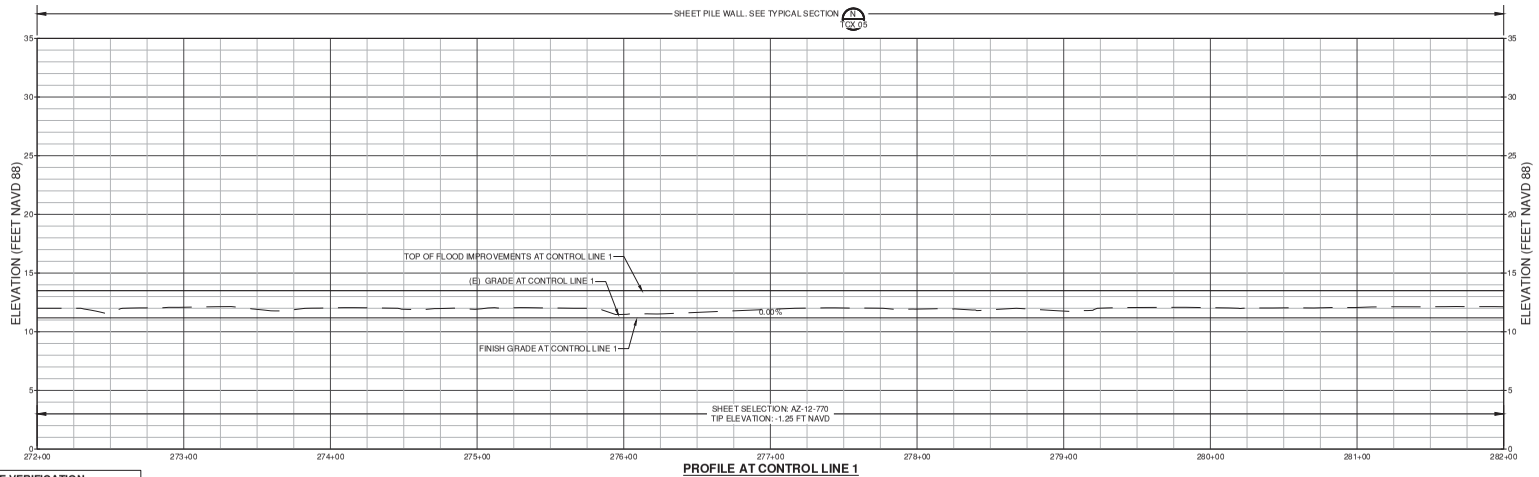
SHEET
SPG 28
SHEET 106 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/29/2020 FILE PATH: C:\Users\ACruz\Desktop\SPG\ADDENDUM NO. 6\SPG 27-31_Conformed.dwg

XREFS: X-Title Block, X-Topo, -Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



SCALE: 1 INCH = 40 FEET



PROFILE AT CONTROL LINE 1

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

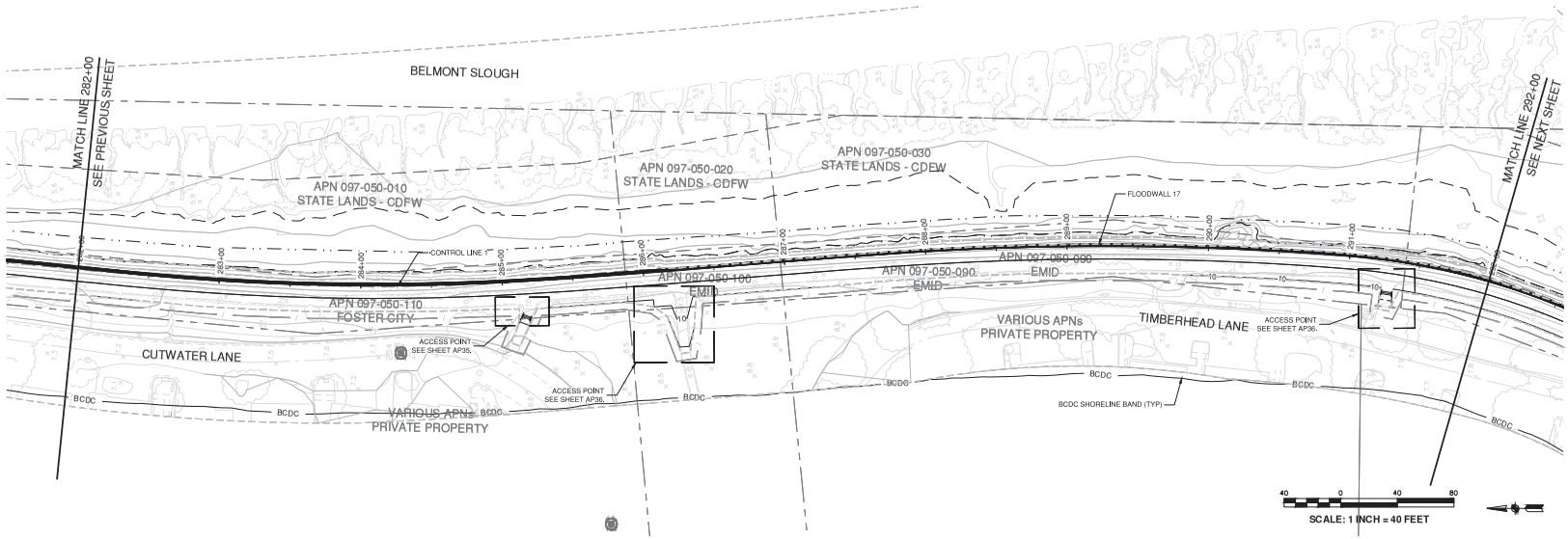
SHEET PILE INSTALLATION AND GRADING

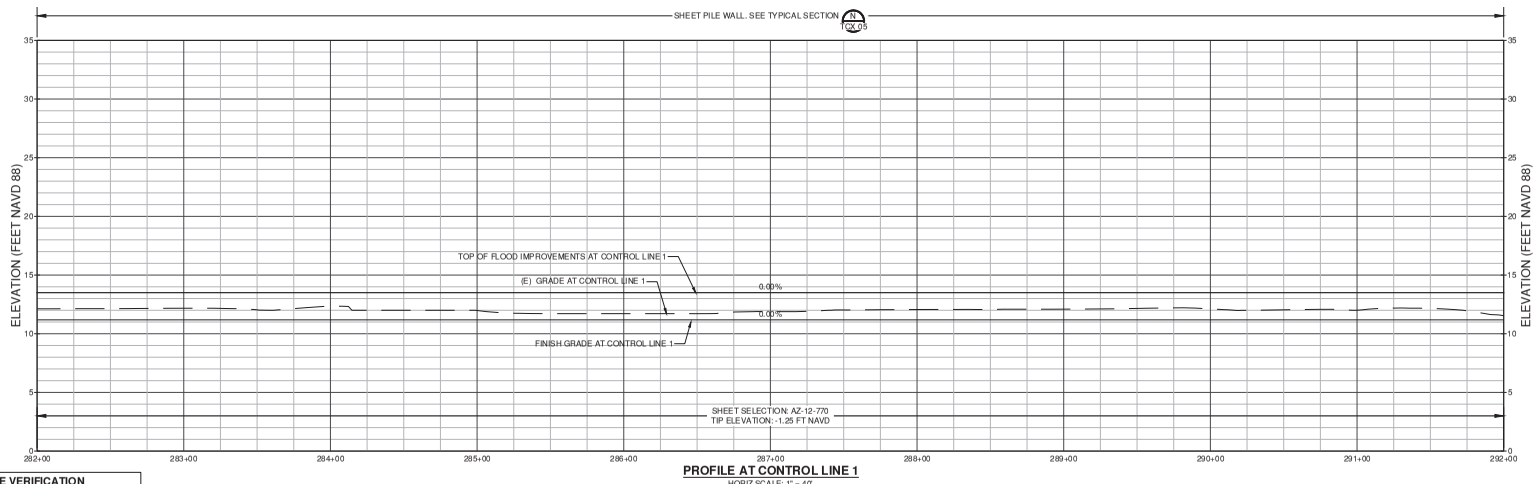
SHEET
SPG 29
SHEET 107 OF 384

CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/29/2020 FILE PATH: C:\Users\ACruz\Desktop\SPG\ADDENDUM NO. 6\SPG 27-31_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4826

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

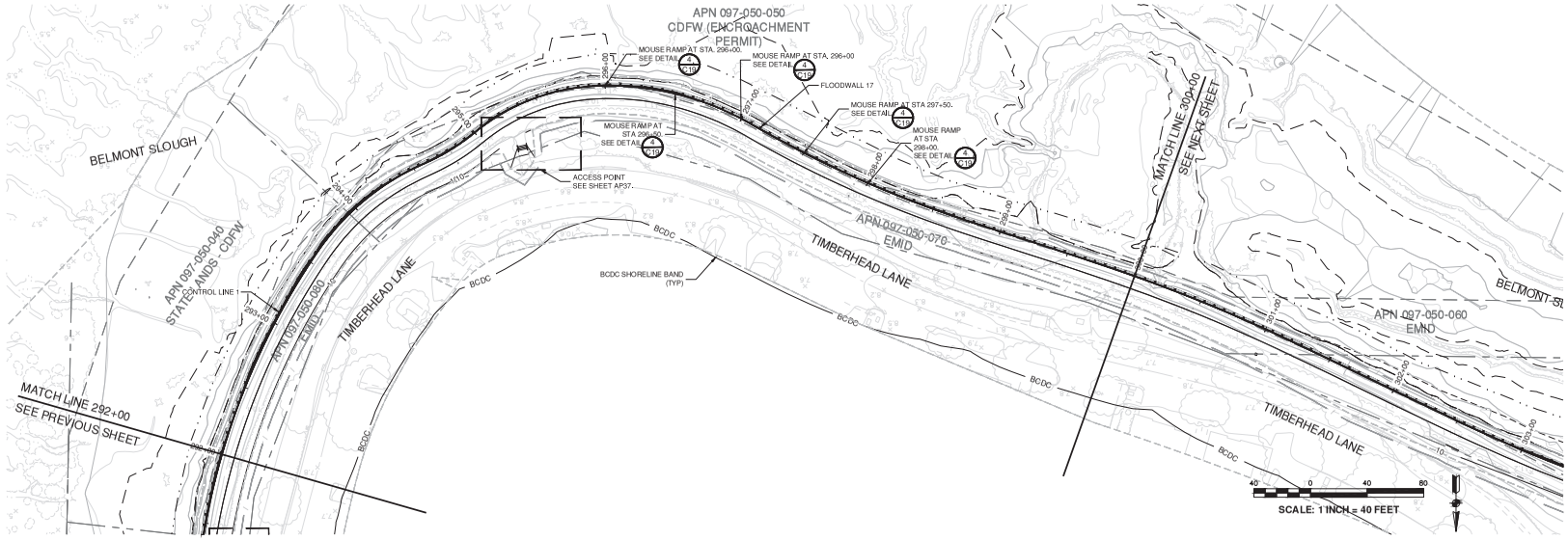
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

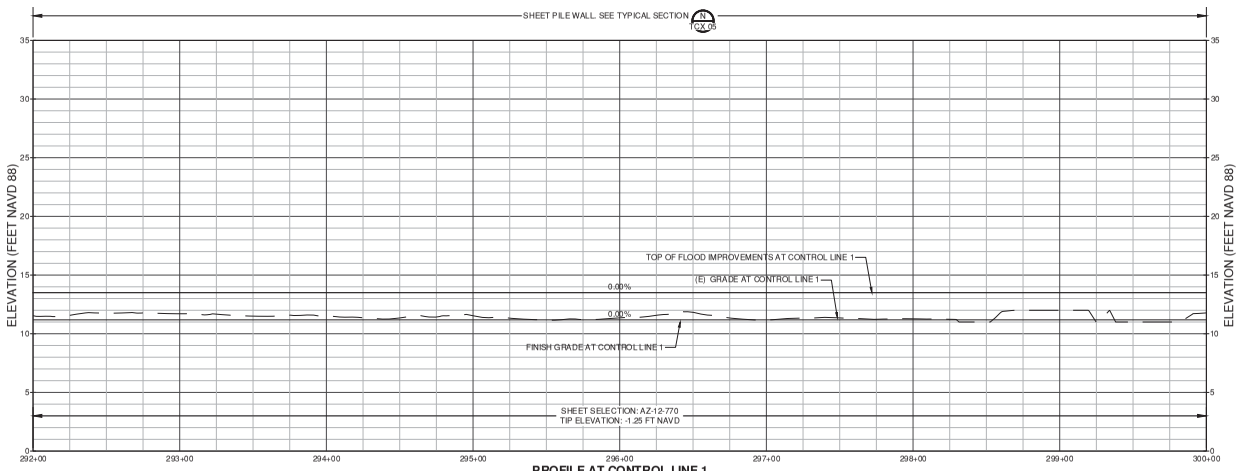
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 30
SHEET 108 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/29/2020 FILE PATH: C:\Users\ACharo\Desktop\SPG\ADDENDUM NO. 6\SPG 27-31_Conformed.dwg

XREFS: X-Title Block, X-Topo, -Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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SANTA CLARA, CA 95050
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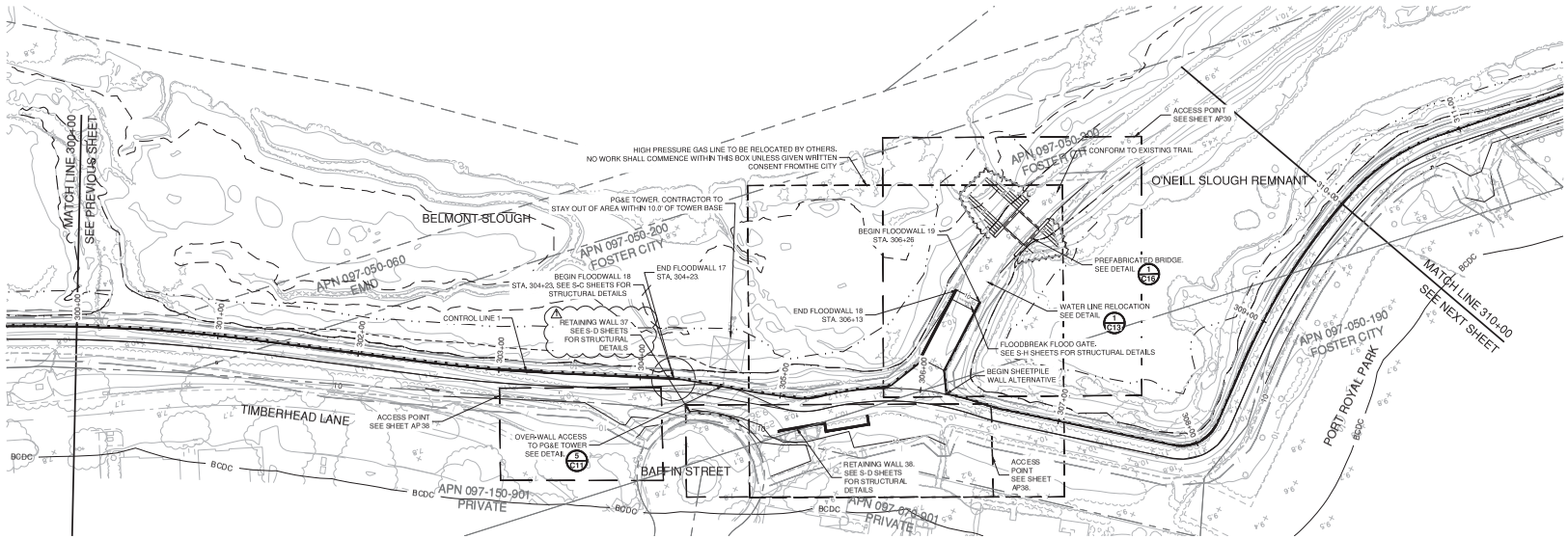
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 31
SHEET 109 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/29/2020 FILE PATH: C:\Users\ACharo\Desktop\SPG\ADDENDUM NO. 6\SPG 27-31_Conformed.dwg

XREFS: X-Title Block, X-Topo -Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS FOR CONTROL LINE LAYOUT.
3. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
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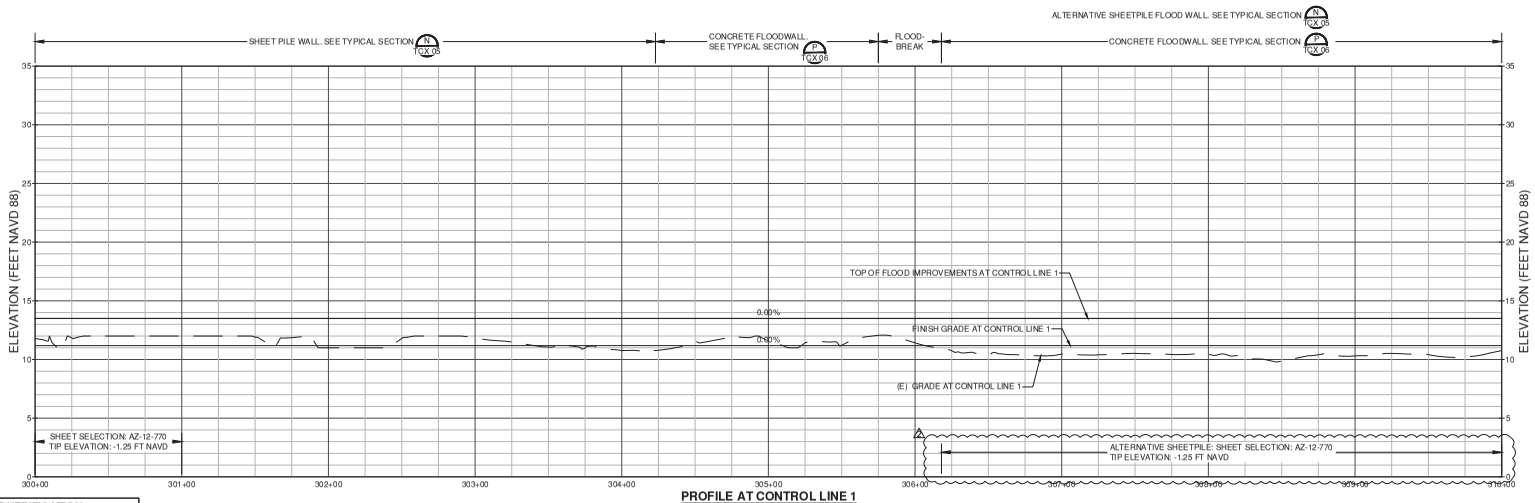
6. SEE CIVIL SHEETS FOR ACCESS POINT LAYOUT AND DETAILS.
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 57 23 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4826

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CONSULTING CIVIL ENGINEERS
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SANTA CLARA, CA 95050
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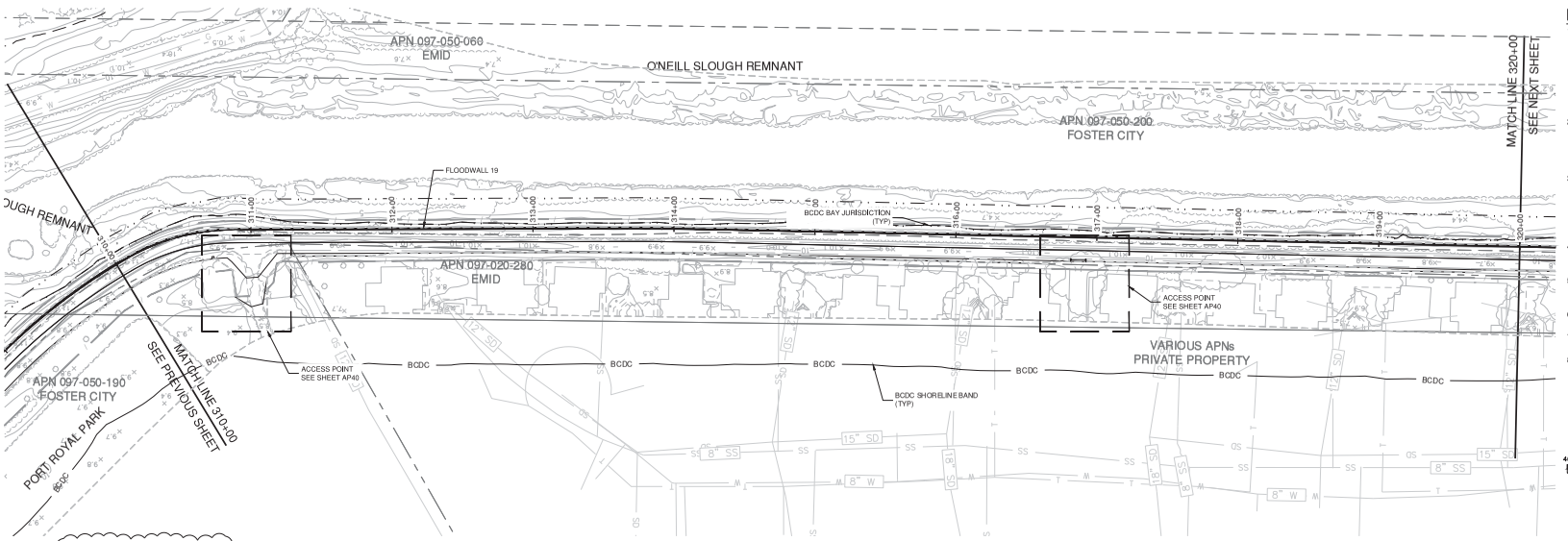
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 32
SHEET 110 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 6\SPG 32_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



SCALE: 1 INCH = 40 FEET

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
2. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL SHEETS FOR CONTROL LINE LAYOUT.
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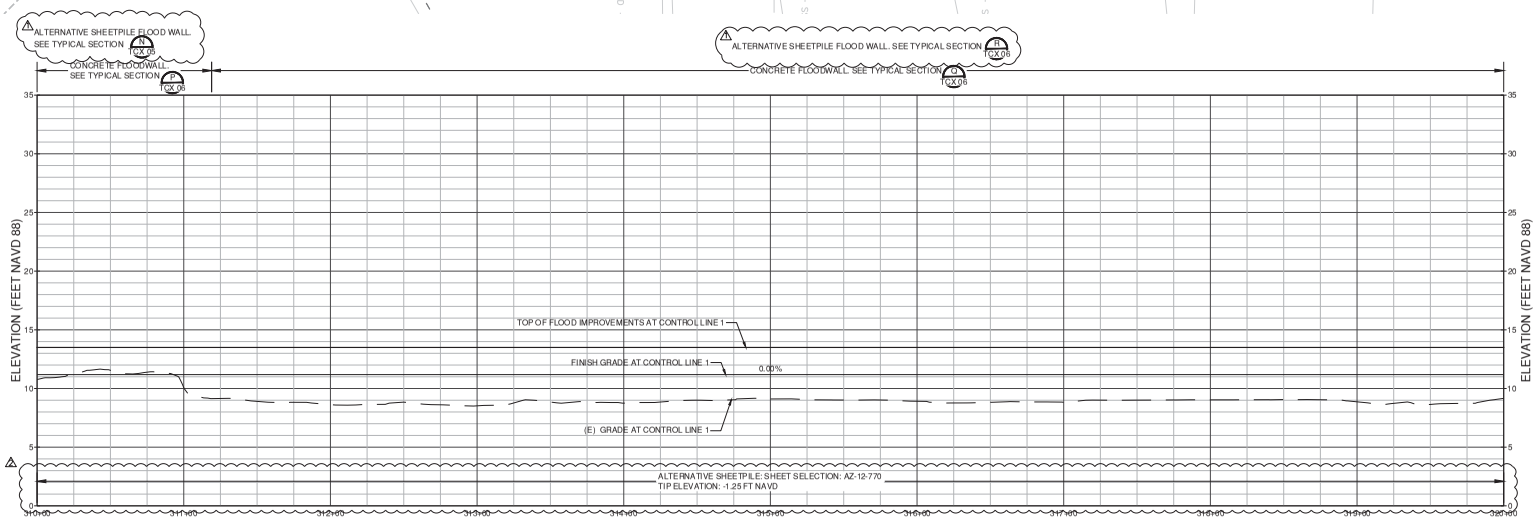
7. SEE SURVEY CONTROL SHEETS FOR RETAINING WALL LAYOUTS
8. SEE SPECIFICATION 01 57 00 FOR ENVIRONMENTAL REQUIREMENTS, SPECIFICATION 01 57 23 FOR SWPPP REQUIREMENTS, AND SHEET C12 FOR SWPPP DETAILS.



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NO.	BY	DATE	REVISIONS
2	ARO	6/22/2020	ADDENDUM NO. 6
1	ARO	5/29/2020	ADDENDUM NO. 3

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
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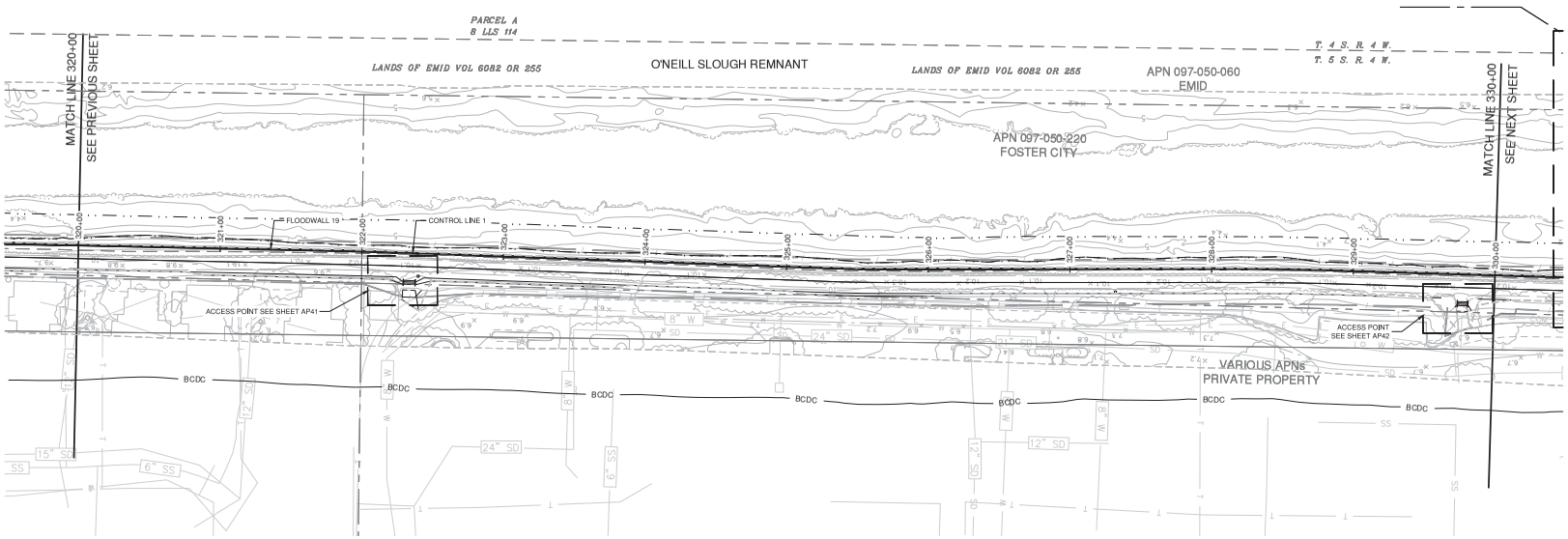
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 33
SHEET 111 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 6\SPG 33-38_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
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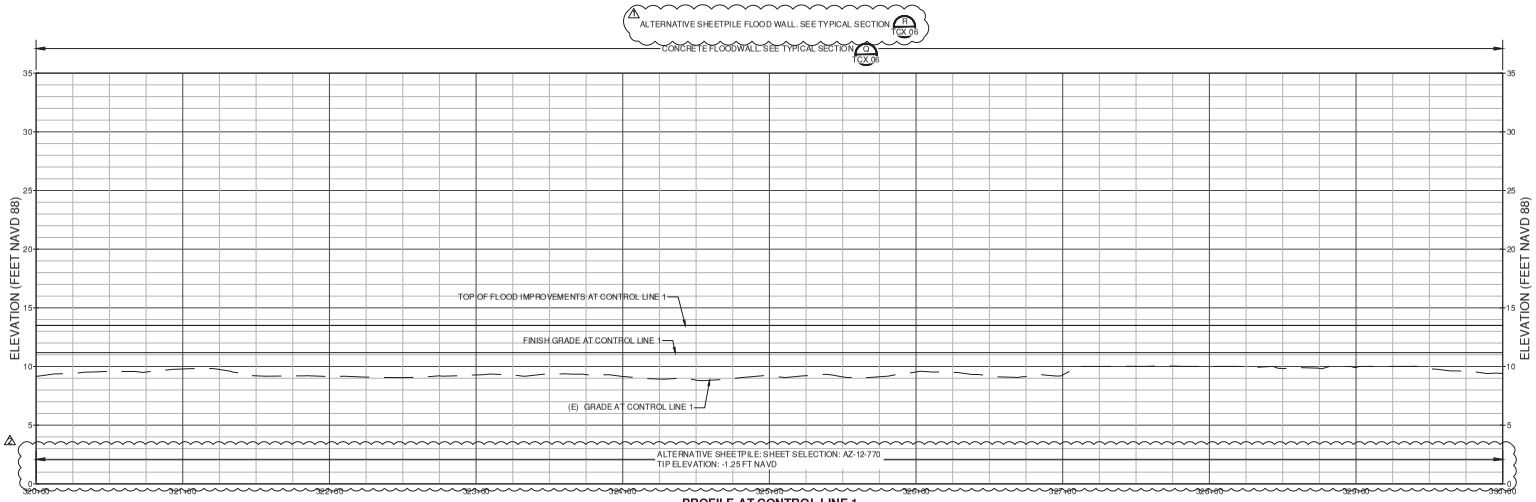
40 0 40 80
SCALE: 1 INCH = 40 FEET



PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION
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0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
2	ARO	6/22/2020	ADDENDUM NO. 6
1	ARO	5/29/2020	ADDENDUM NO. 3

CITY OF FOSTER CITY
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Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

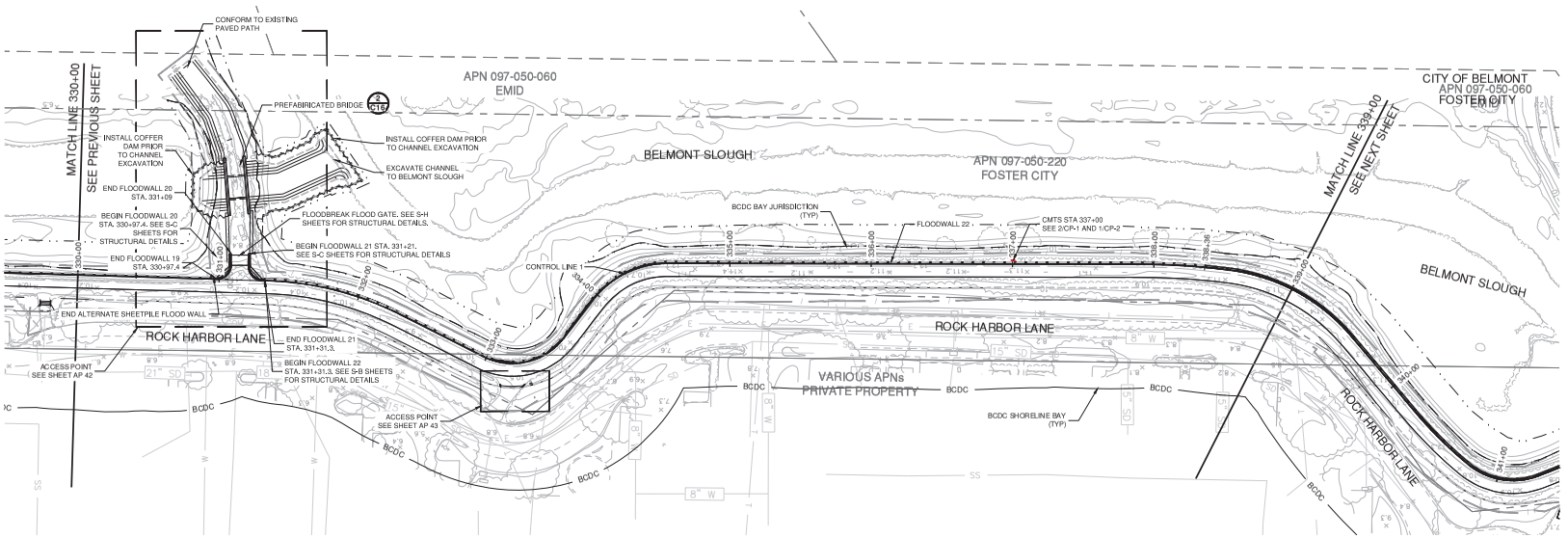
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 34
SHEET 112 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/8/2020 FILE PATH: C:\Users\Aaron\Desktop\SPG\ADDENDUM NO. 6\SPG 33-38_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
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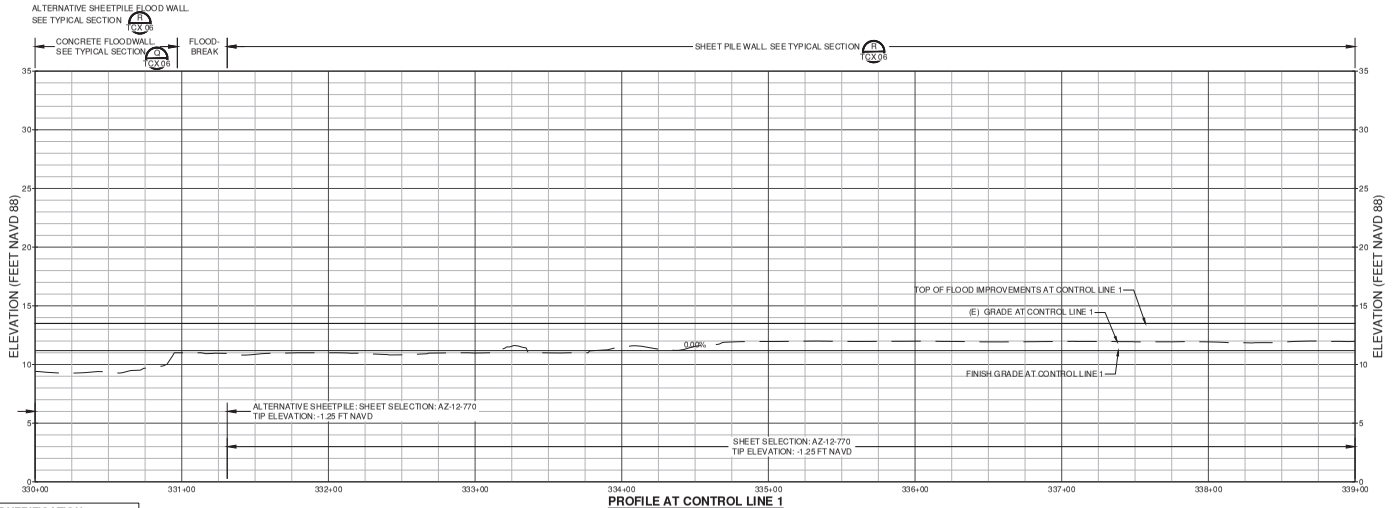

PROFILE AT CONTROL LINE 1
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

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SANTA CLARA, CA 95050
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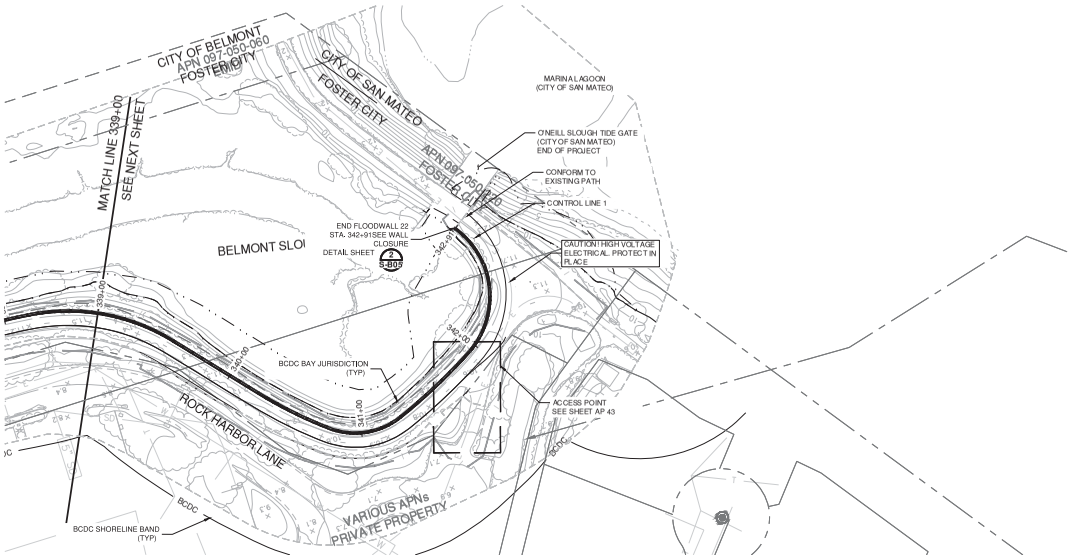
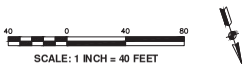
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 35
SHEET 113 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 4\SPG 33-38_Conformed.dwg
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING





NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS FOR PROJECT CONTROL LINE AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS FOR DEMOLITION AND UTILITY INFORMATION. SEE WALL SHEETS FOR FLOODWALL AND RETAINING WALL INFORMATION. SEE TYPICAL SECTION SHEETS FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS FOR ACCESS POINT DETAILS AND OTHER PROJECT DETAILS. SEE PAVING AND STRIPING SHEETS FOR PAVING AND STRIPING PLAN.
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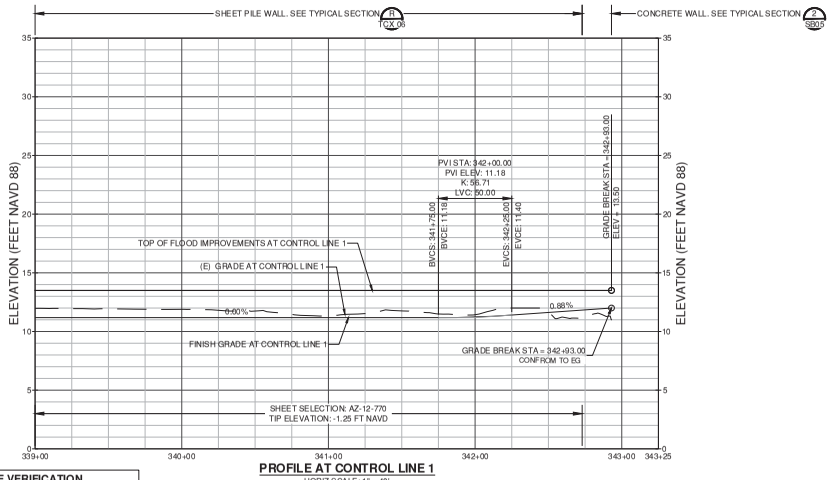

PROFILE AT CONTROL LINE 1
HORIZ SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WLSEY-HAM

NO.	BY	DATE	REVISIONS
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

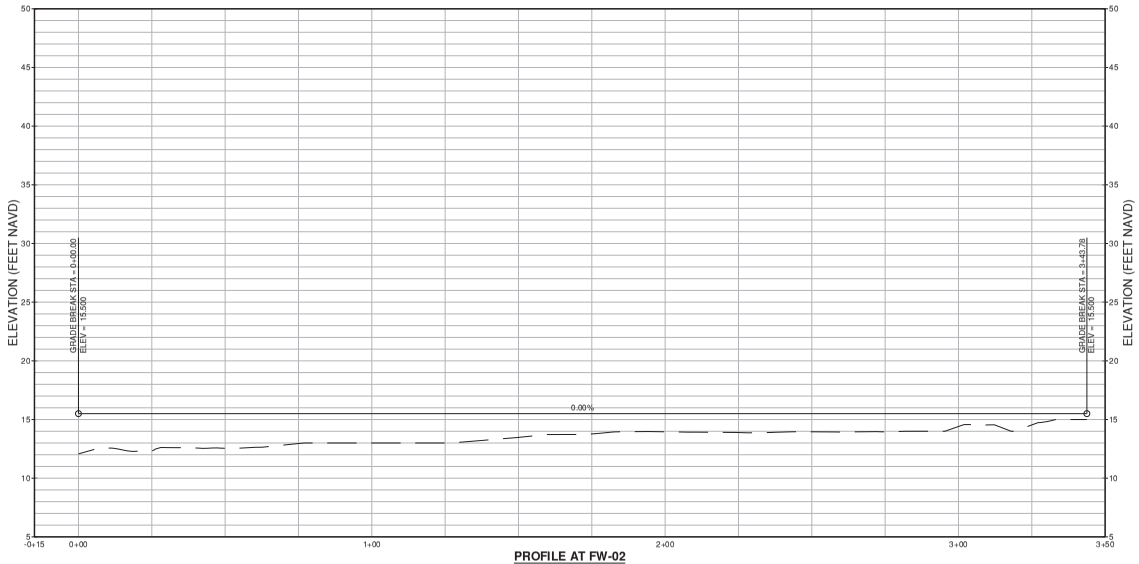
SHEET PILE INSTALLATION AND GRADING

SHEET
SPG 36
SHEET 114 OF 384

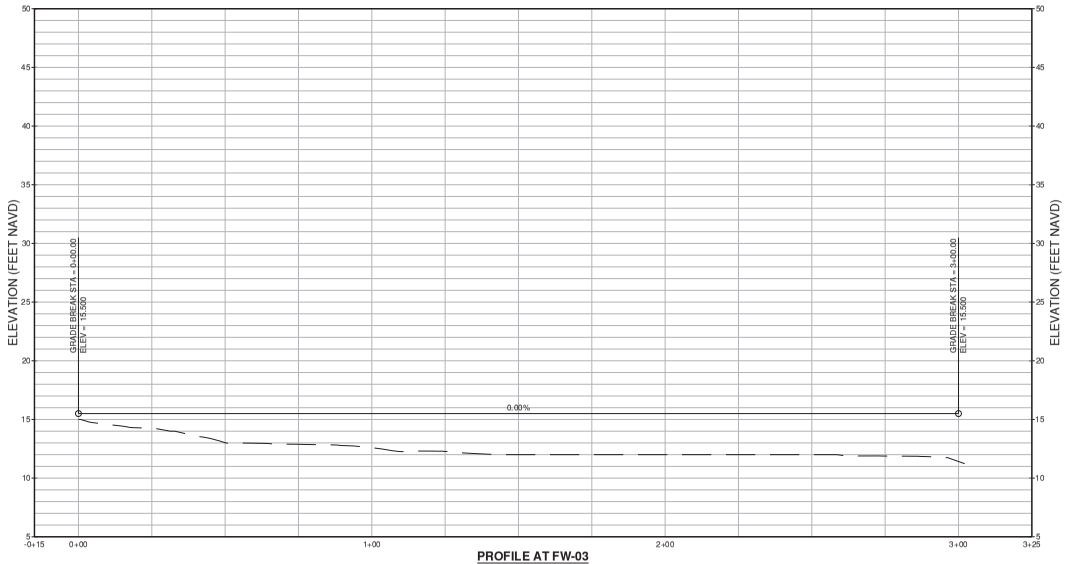
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 7/28/2020 FILE PATH: C:\Users\ADiaz\Desktop\SPG\ADDENDUM NO. 4\SPG 33-36_Conformed.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



PROFILE AT FW-02
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-03
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SC SHEETS) FOR PROJECT CONTROL LINES, FOR RETAINING WALL AND FLOOD WALL, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR SHEET PILE AND GRADING INFORMATION. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS FOR ACCESS POINT LAYOUT AND OTHER CIVIL DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN. SEE RETAINING WALL SHEETS (RW SHEETS) FOR RETAINING WALL LAYOUTS NOT PARALLEL TO CONTROL LINE 1.
2. SEE STRUCTURAL SHEETS (S SHEETS) FOR STRUCTURAL DETAILS, INCLUDING MECHANICALLY STABILIZED EARTH WALLS AND CONCRETE WALLS.
3. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED.
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5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

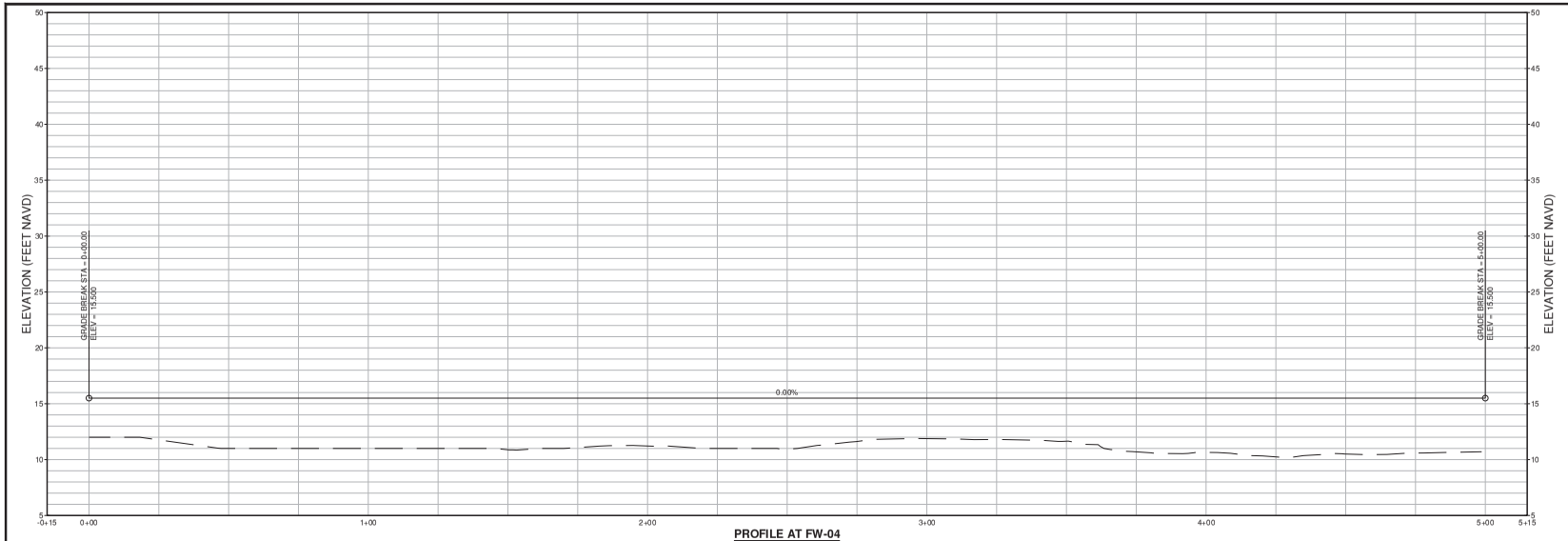
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

FLOODWALL PROFILES

SHEET
FW 01
SHEET 115 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AChan\Desktop\FW\FW 01-05_REV1.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



PROFILE AT FW-04
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SC SHEETS) FOR PROJECT CONTROL LINES, FOR RETAINING WALL AND FLOOD WALL, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR SHEET PILE AND GRADING INFORMATION. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS FOR ACCESS POINT LAYOUT AND OTHER CIVIL DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN. SEE RETAINING WALL SHEETS (RW SHEETS) FOR RETAINING WALL LAYOUTS NOT PARALLEL TO CONTROL LINE 1.
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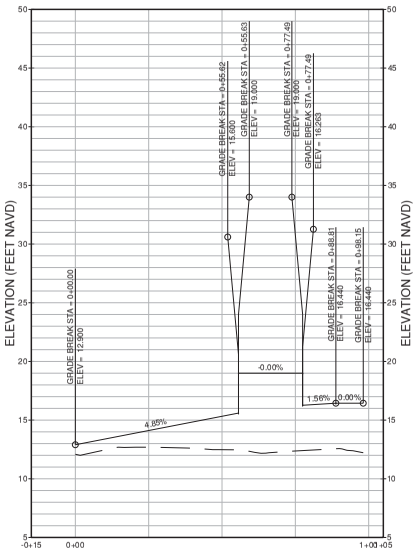
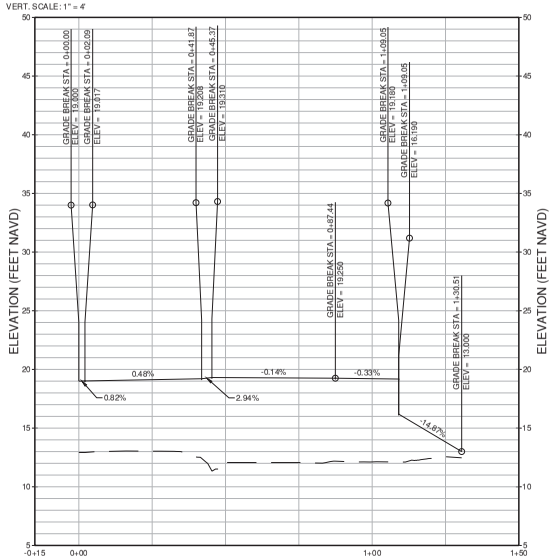
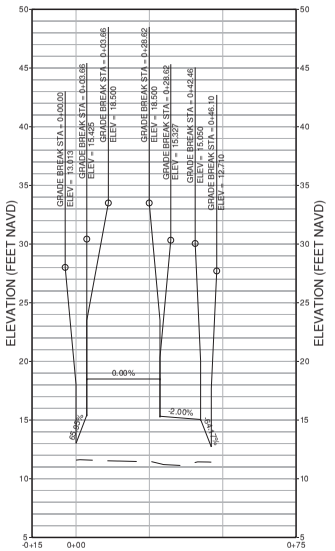


PROFILE AT FW-06
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-07
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-09
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NO.	BY	DATE	REVISIONS
1			
2			
3			
4			
5			
6			
7	ARO	07/31/20	CONFORMED SET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4826

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CONSULTING CIVIL ENGINEERS
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SANTA CLARA, CA 95050
(408) 246-4848

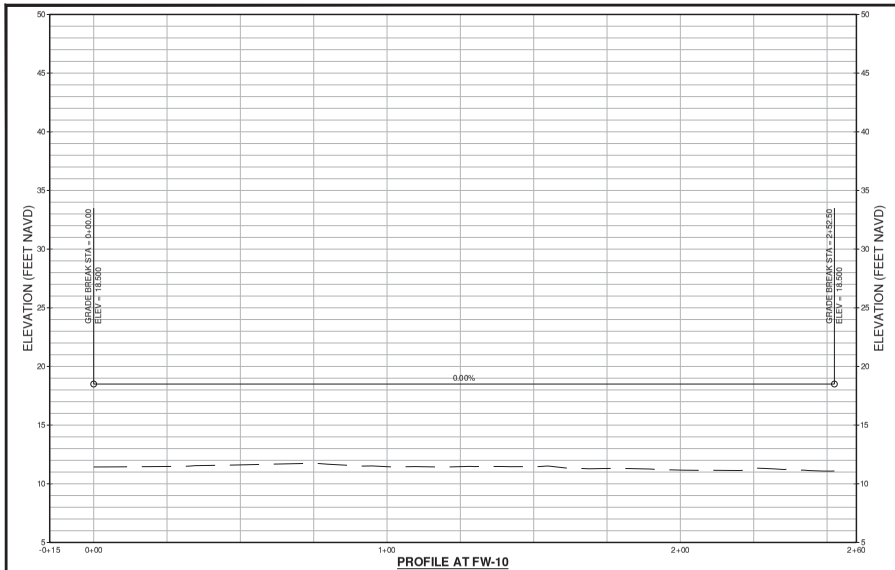
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

FLOODWALL PROFILES

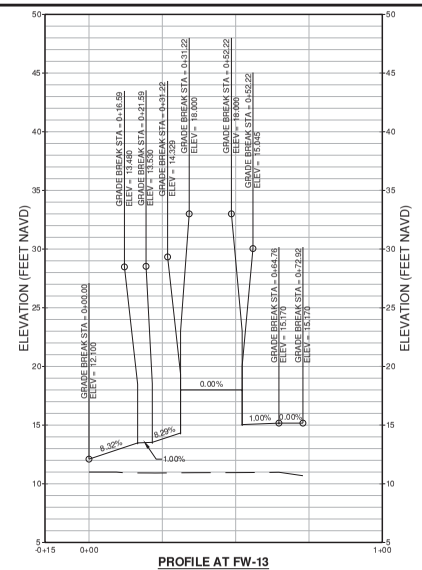
SHEET
FW 02
SHEET 116 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 6/8/2020 FILE PATH: C:\Users\Asher\Desktop\FWFW 01-05_REV1.dwg

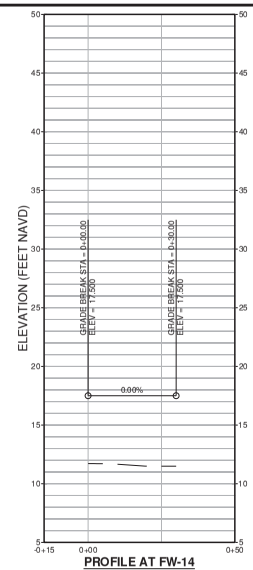
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



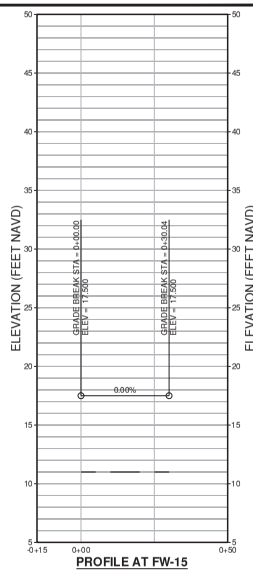
PROFILE AT FW-10
HORIZ.SCALE: 1" = 20'
VERT.SCALE: 1" = 4'



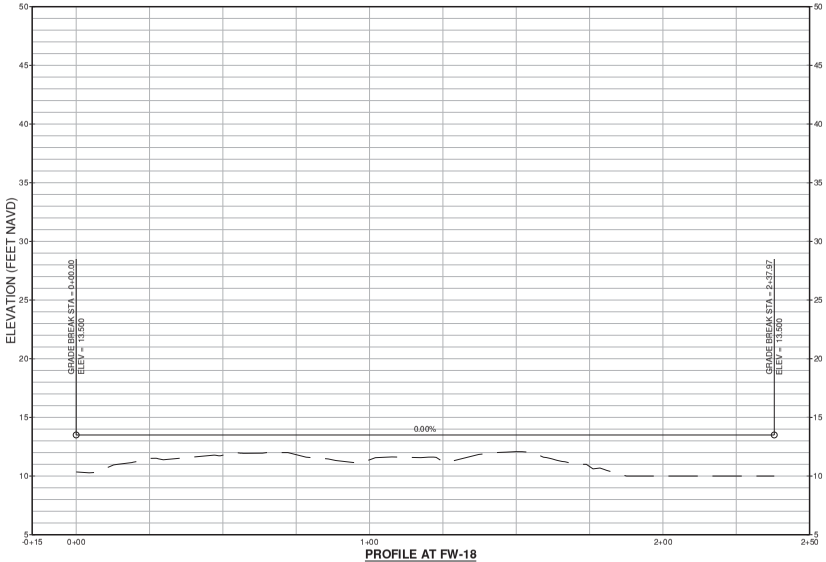
PROFILE AT FW-13
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



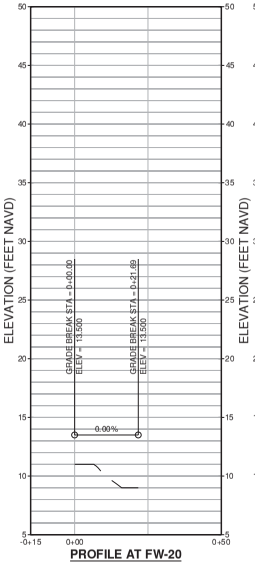
PROFILE AT FW-14
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



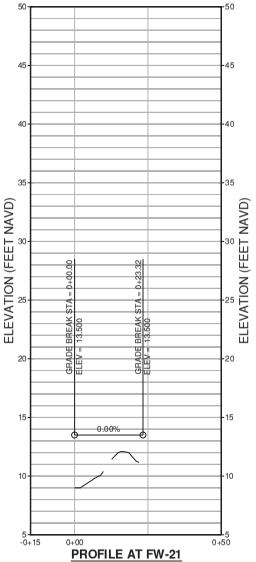
PROFILE AT FW-15
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-18
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-20
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-21
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SC SHEETS) FOR PROJECT CONTROL LINES, FOR RETAINING WALL AND FLOOD WALL AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR SHEET PILE AND GRADING INFORMATION. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS FOR ACCESS POINT LAYOUT AND OTHER CIVIL DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN. SEE RETAINING WALL SHEETS (RW SHEETS) FOR RETAINING WALL LAYOUTS NOT PARALLEL TO CONTROL LINE 1.
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SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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CONSULTING CIVIL ENGINEERS
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SANTA CLARA, CA 95050
(408) 246-4848

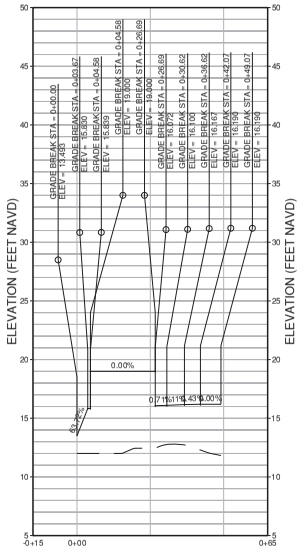
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

FLOODWALL PROFILES

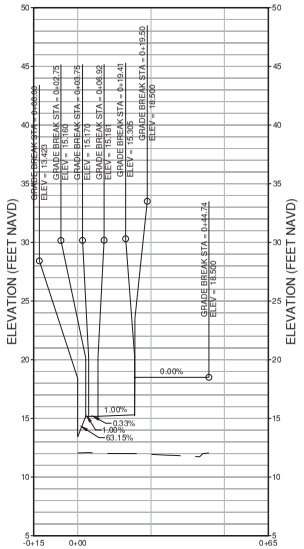
SHEET
FW 03
SHEET 117 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 6/8/2020 FILE PATH: C:\Users\Arche\Desktop\PW\FW 01-05_REV1.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



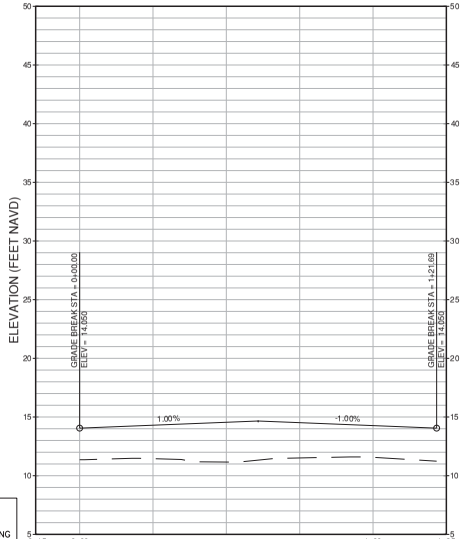
PROFILE AT FW-23
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



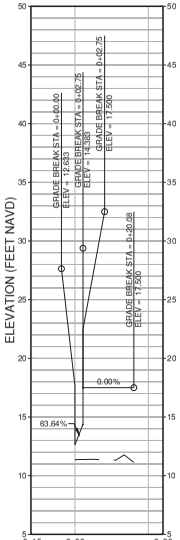
PROFILE AT FW-24
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



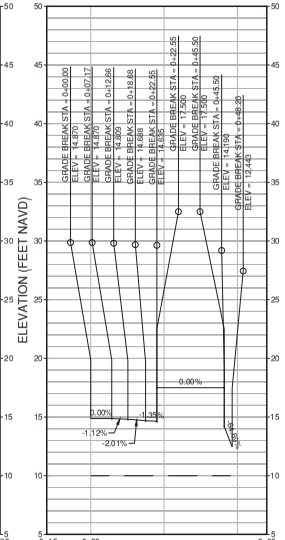
PROFILE AT FW-25
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



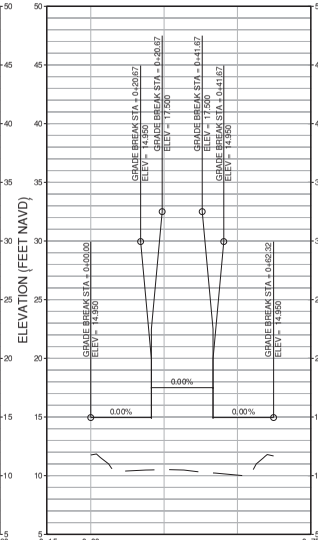
PROFILE AT FW-27
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



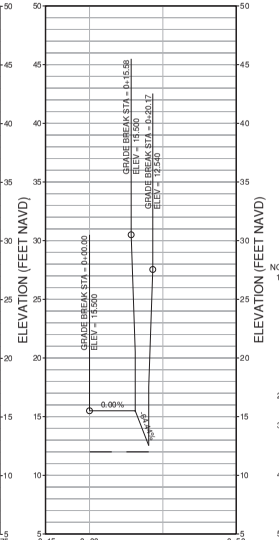
PROFILE AT FW-28
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-30
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-31
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT FW-37
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

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DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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SANTA CLARA, CA 95050
(408) 246-4848

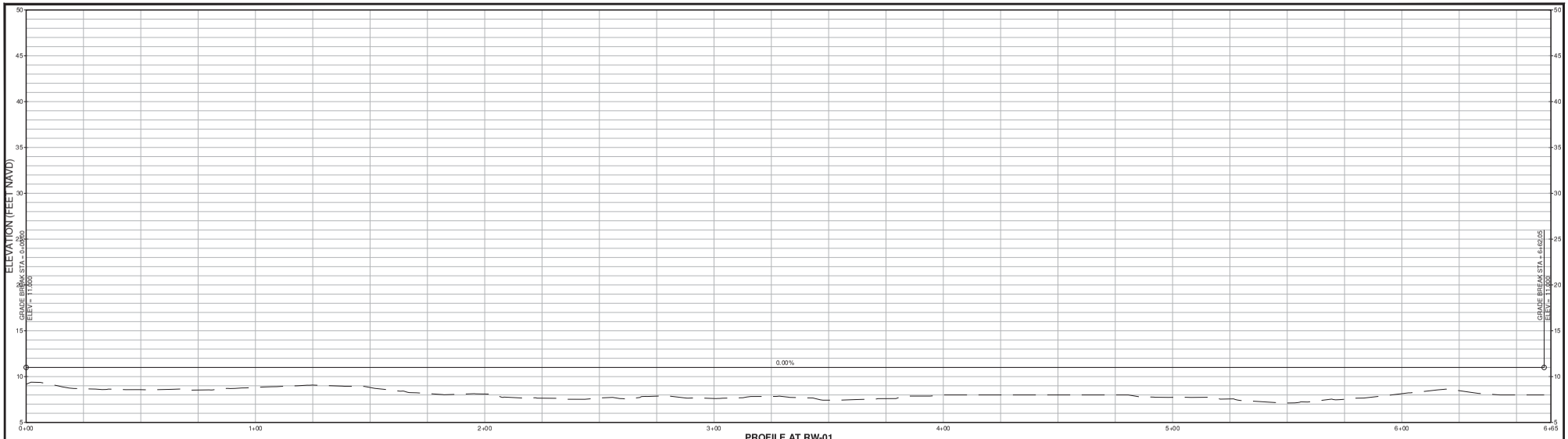
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

FLOODWALL PROFILES

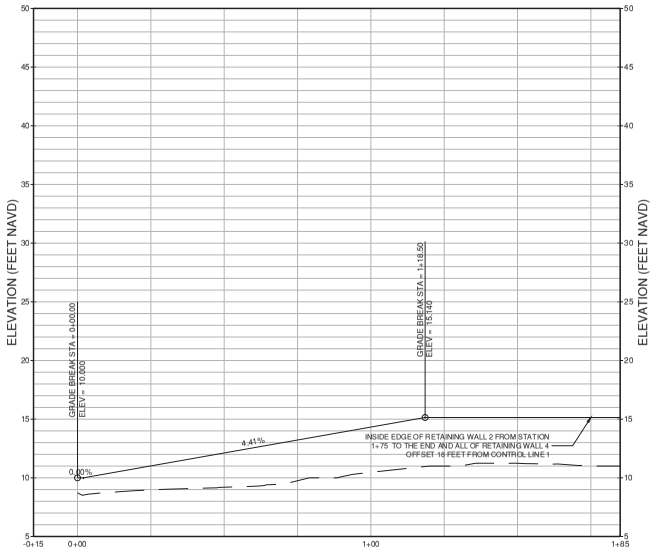
SHEET
FW 04
SHEET 118 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 6/8/2020 FILE PATH: C:\Users\Arbel\Desktop\FW\FW 01-05_REV1.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



PROFILE AT RW-01
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-02
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

RW-02 SCHEDULE

APPROX. RW-02 STATIONING	APPROX. TOP OF WALL ELEVATION (FEET, NAVD)	APPROX. HEIGHT OF WALL RELATIVE TO FINISH GRADE (FEET)
0+00 - 1+75	N/A	PROFILE SHOWN
1+75 - 2+75	15.1	4
2+75 - 5+50	15.1	5
5+50 - 8+25	15.1	4
8+25 - 10+50	15.1	5
10+50 - 11+50	15.1	6
11+50 - 10+25	15.1	5
10+25 - 10+75	14.6	4.5
10+75 - 13+25	14.6	3.5
13+25 - 13+50	14.6	4.5
13+50 - 13+75	14.6	5.5
13+75 - 14+00	14.6	6.5
14+00 - 14+25	14.6	5.5
14+25 - 14+50	14.6	4.5
14+50 - 14+75	14.6	5.5
14+50 - 15+50	14.6	6.5
15+50 - 15+75	14.6	7.5
15+75 - 16+25	14.6	6.5
16+25 - 17+75	14.6	7.5
17+75 - 18+25	14.6	6.5
18+25 - 19+50	14.6	7.5
19+50 - 20+25	14.6	8.5
20+25 - 20+50	14.6	7.5
20+50 - 20+75	14.6	6.5
20+75 - 22+00	14.6	5.5
22+00 - 22+88	14.6	4.5

NOTES:

1. SEE SHEET SD-01 FOR RETAINING WALL DETAILS AND FOOTING DEPTHS.
2. FIELD CONDITIONS GOVERN CONSTRUCTION OF RETAINING WALLS.

RW-04 SCHEDULE

APPROX. RW-04 STATIONING	TOP OF WALL ELEVATION (FEET, NAVD)	APPROX. HEIGHT OF WALL RELATIVE TO FINISH GRADE (FEET)
0+00 - 3+50	14.6	4.5
3+50 - 4+50	14.6	5.5
4 +50 - 4+75	14.6	4.5
4+75 - 5+75	14.6	5.5
5+75 - 7+75	14.6	6.5
7+75 - 8+50	14.6	5.5
8+50 - 10+00	14.6	3.5
10+00 - 11+00	14.6	4.5
11+00 - 11+26	14.6	3.5

NOTES:

1. SEE SHEET SD-01 FOR RETAINING WALL DETAILS AND FOOTING DEPTHS.
2. FIELD CONDITIONS GOVERN CONSTRUCTION OF RETAINING WALLS.

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SC SHEETS) FOR PROJECT CONTROL LINES, FOR RETAINING WALL AND FLOOD WALL. AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR SHEET PILE AND GRADING INFORMATION. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS FOR ACCESS POINT LAYOUT AND OTHER CIVIL DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN. SEE FLOODWALL WALL SHEETS (FW SHEETS) FOR FLOOD WALL LAYOUTS NOT PARALLEL TO CONTROL LINE 1.
2. SEE STRUCTURAL SHEETS (S SHEETS) FOR STRUCTURAL DETAILS, INCLUDING MECHANICALLY STABILIZED EARTH WALLS AND CONCRETE WALLS.
3. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED.
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5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WLSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4826

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

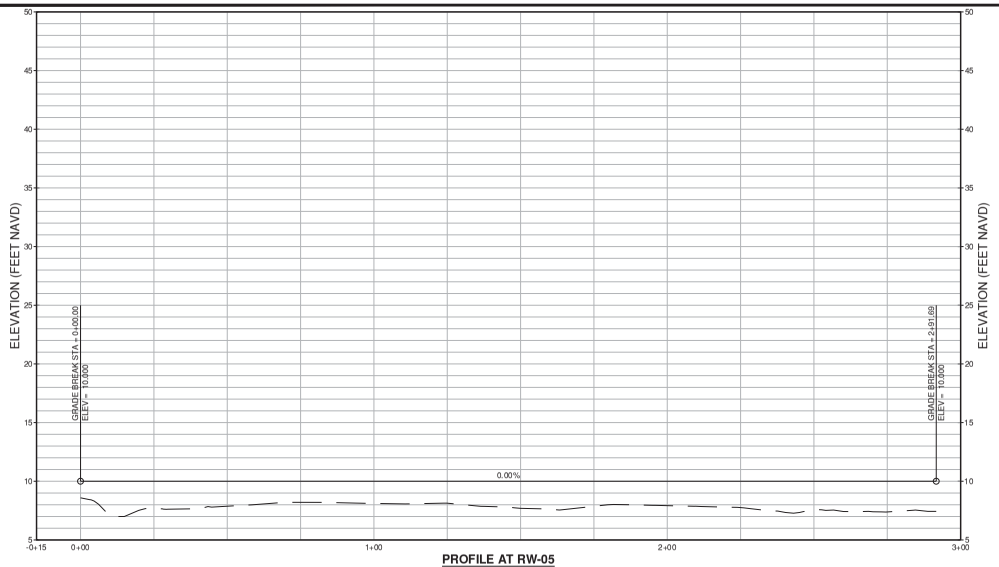
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

RETAINING WALL PROFILES

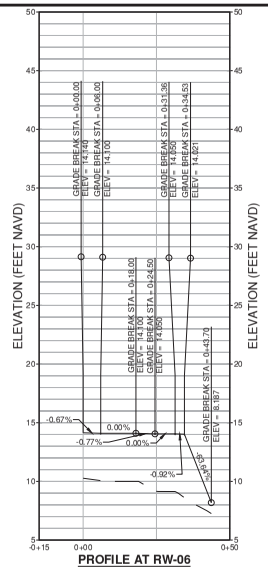
SHEET
RW 01
SHEET 119 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 6/8/2020 FILE PATH: C:\Users\AChen\Desktop\RW 01-06_REV1.dwg

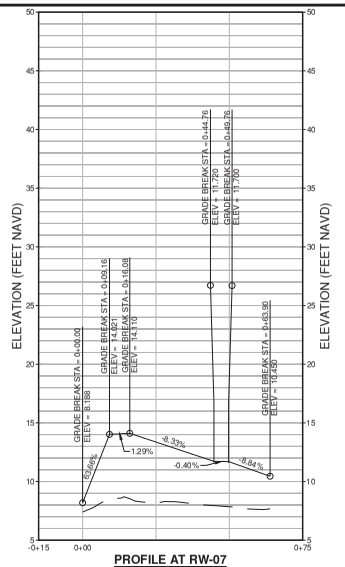
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



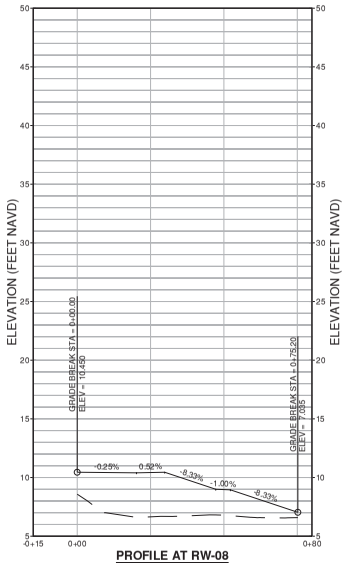
PROFILE AT RW-05
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



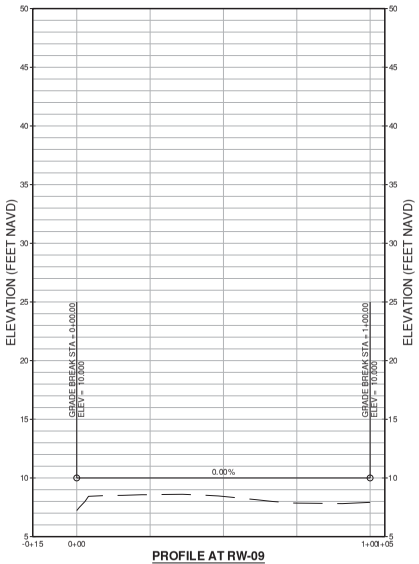
PROFILE AT RW-06
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



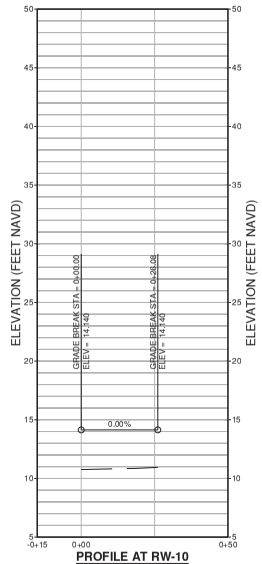
PROFILE AT RW-07
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



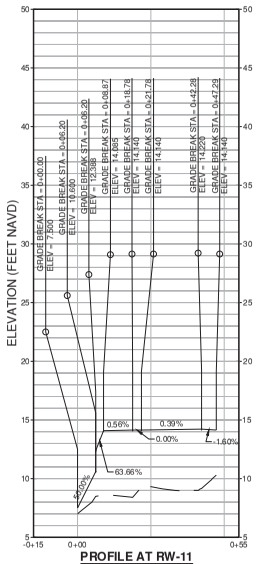
PROFILE AT RW-08
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-09
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-10
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-11
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SC SHEETS) FOR PROJECT CONTROL LINES, FOR RETAINING WALL AND FLOOD WALL, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR SHEET PILE AND GRADING INFORMATION. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS FOR ACCESS POINT LAYOUT AND OTHER CIVIL DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN. SEE FLOODWALL WALL SHEETS (FW SHEETS) FOR FLOOD WALL LAYOUTS NOT PARALLEL TO CONTROL LINE 1.
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SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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(408) 246-4848

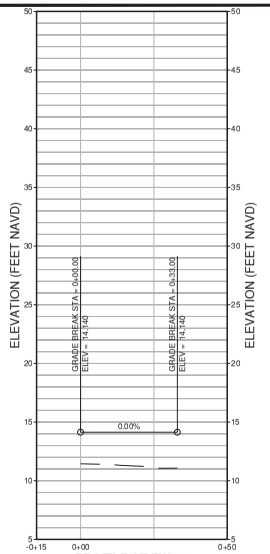
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

RETAINING WALL PROFILES

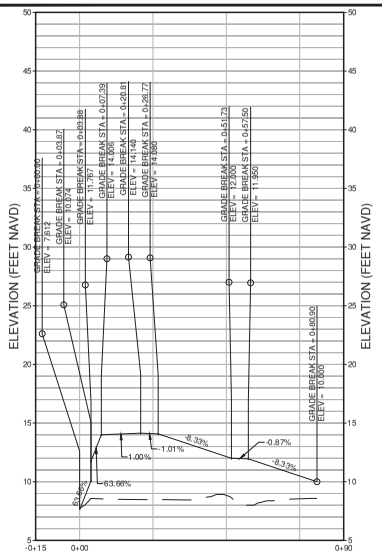
SHEET
RW 02
SHEET 120 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\Achen\Desktop\RW 01-06_REV1.dwg

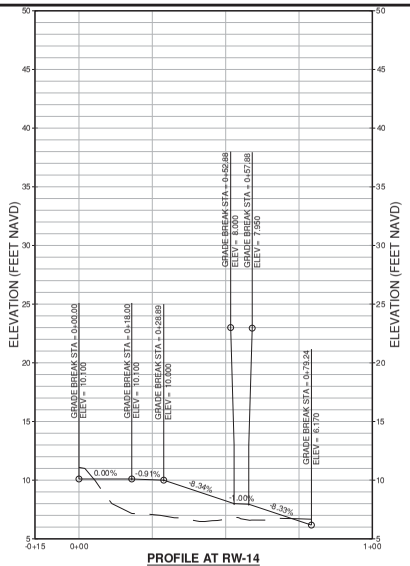
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



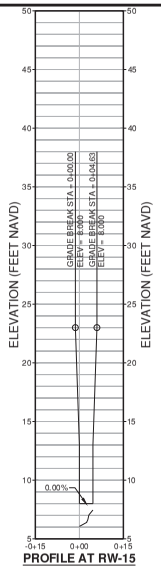
PROFILE AT RW-12
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



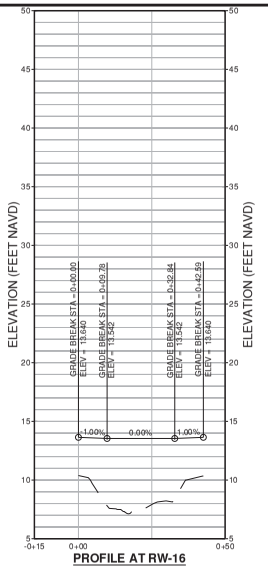
PROFILE AT RW-13
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



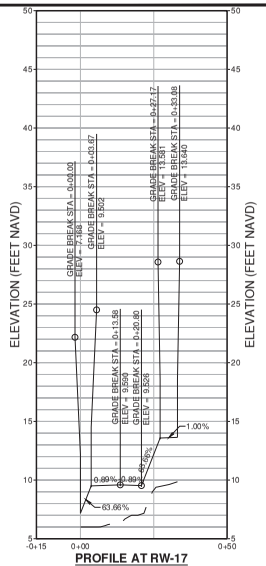
PROFILE AT RW-14
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



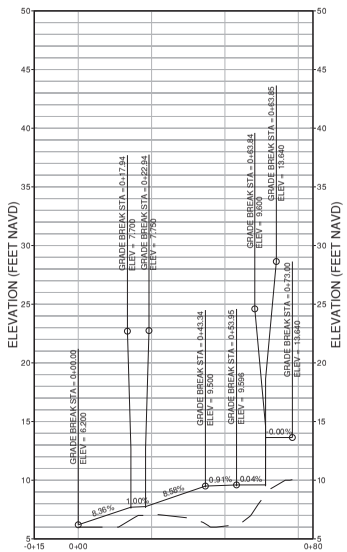
PROFILE AT RW-15
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



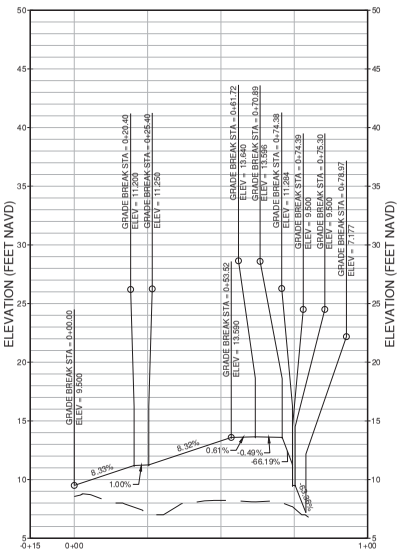
PROFILE AT RW-16
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



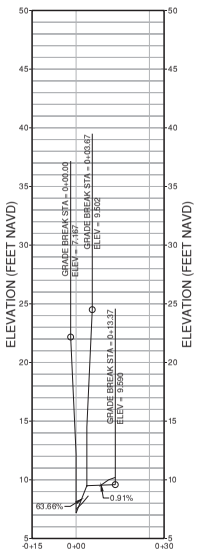
PROFILE AT RW-17
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



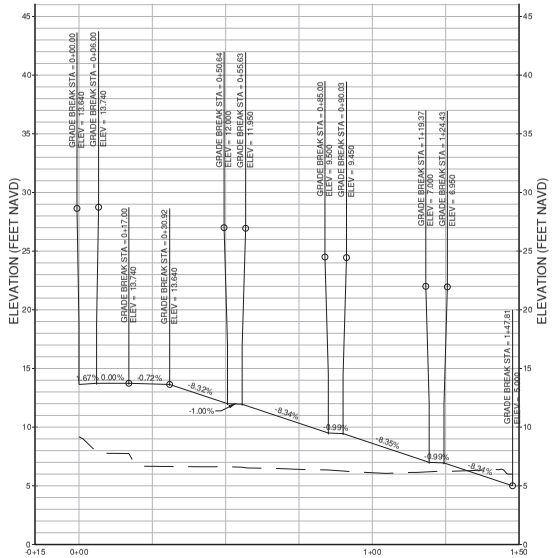
PROFILE AT RW-18
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-19
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-20
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-22
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SC SHEETS) FOR PROJECT CONTROL LINES, FOR RETAINING WALL AND FLOOD WALL, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR SHEET PILE AND GRADING INFORMATION. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS FOR ACCESS POINT LAYOUT AND OTHER CIVIL DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN. SEE FLOODWALL WALL SHEETS (FW SHEETS) FOR FLOOD WALL LAYOUTS NOT PARALLEL TO CONTROL LINE 1.
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SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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SANTA CLARA, CA 95050
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

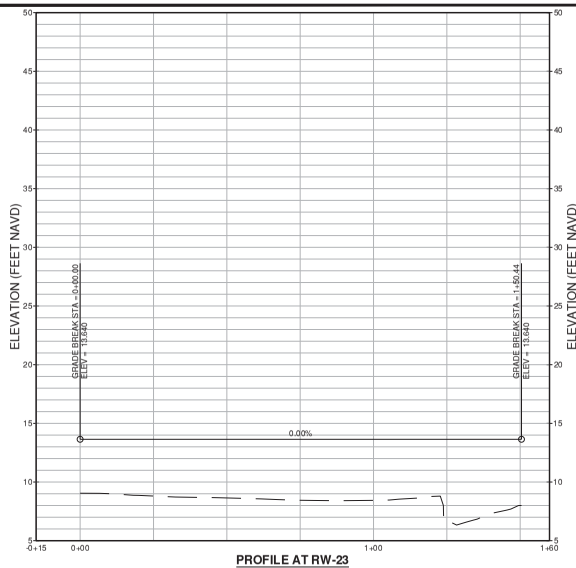
RETAINING WALL PROFILES

SHEET
RW 03
SHEET 121 OF 384

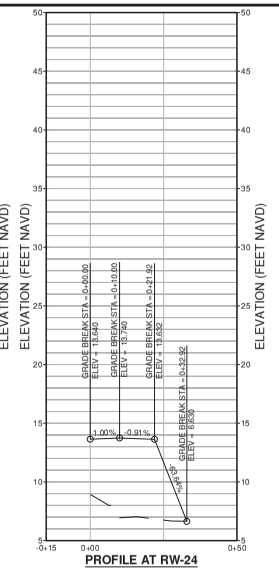
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 6/9/2020 FILE PATH: C:\Users\Arche\Desktop\RW 01-06_REV1.dwg

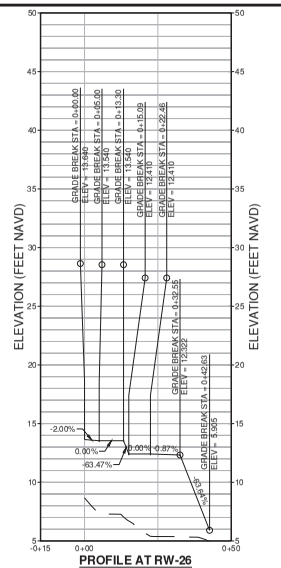
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



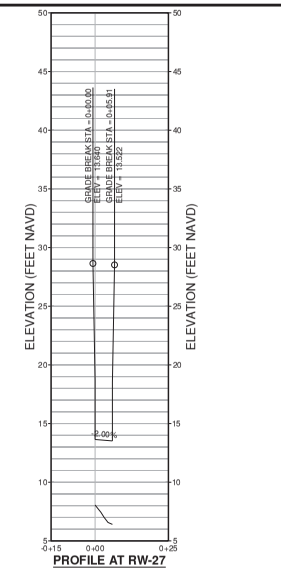
PROFILE AT RW-23
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



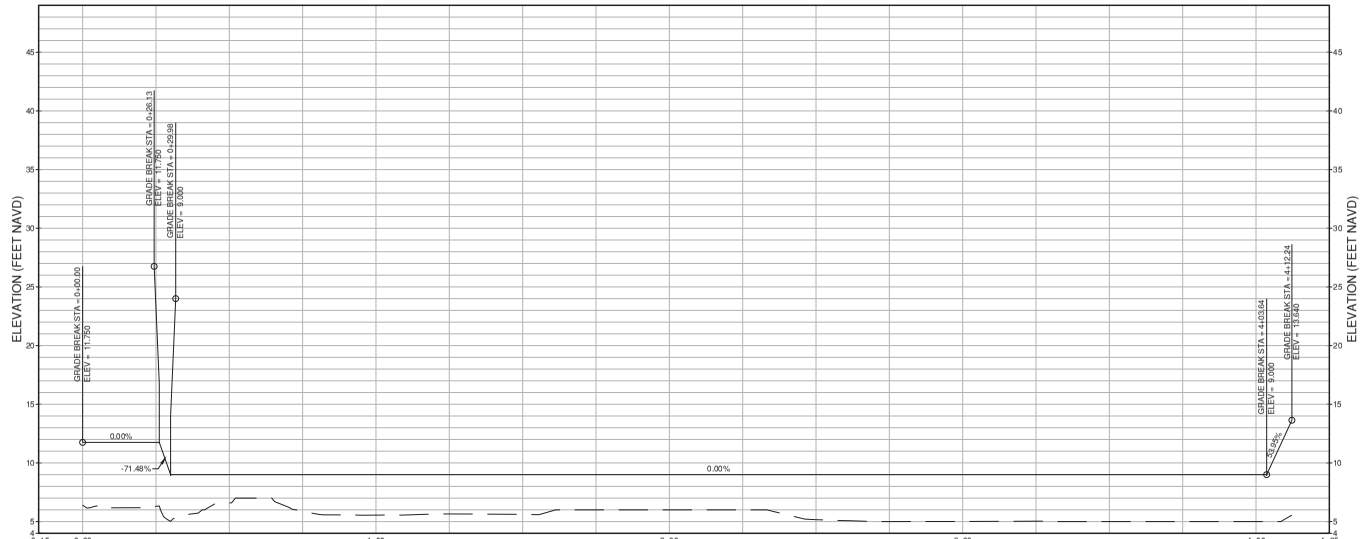
PROFILE AT RW-24
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-26
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-27
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-29
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTES:

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SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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SANTA CLARA, CA 95050
(408) 246-4848

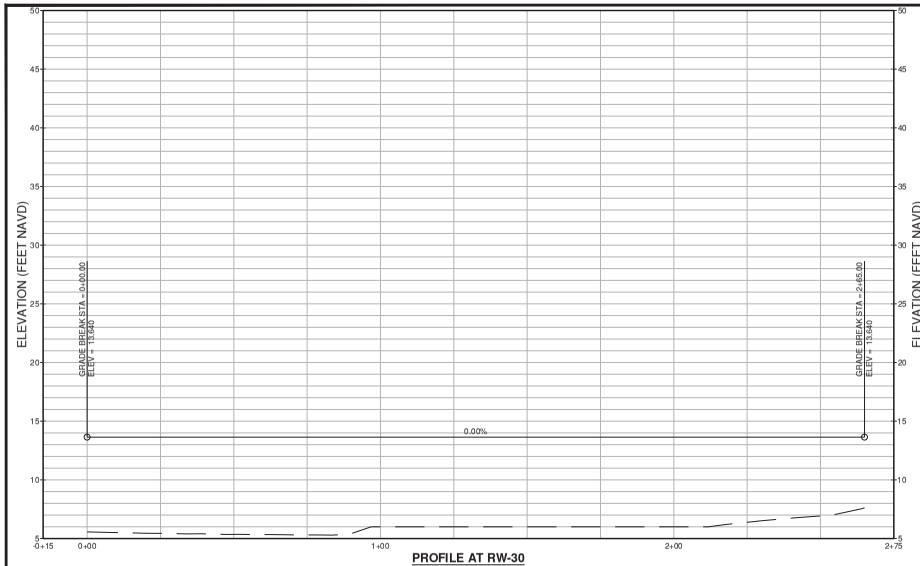
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

RETAINING WALL PROFILES

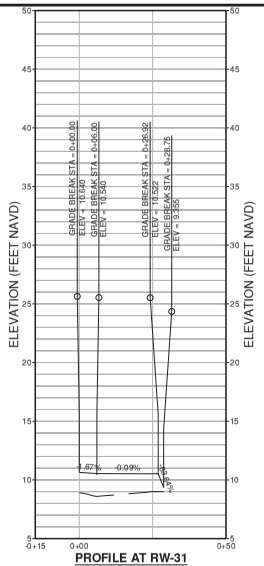
SHEET
RW 04
SHEET 122 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 6/9/2020 FILE PATH: C:\Users\Achen\Desktop\RW 01-06_REV1.dwg

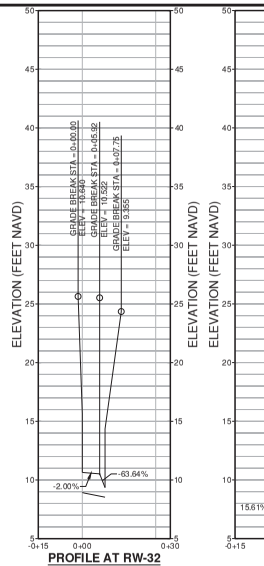
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



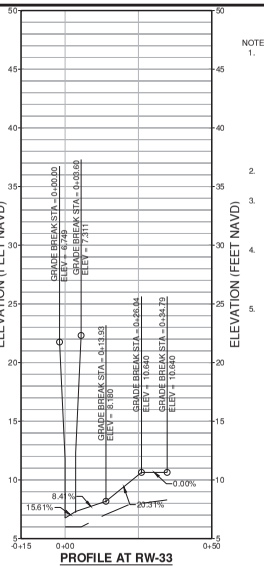
PROFILE AT RW-30
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-31
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



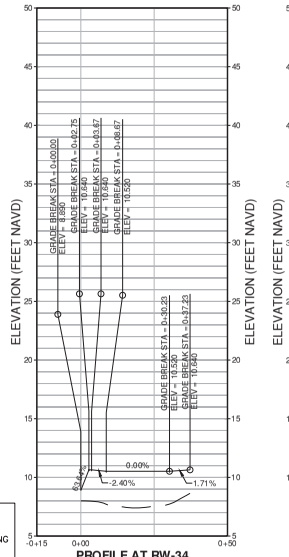
PROFILE AT RW-32
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



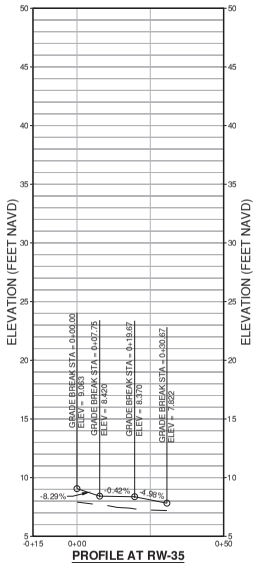
PROFILE AT RW-33
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTES:

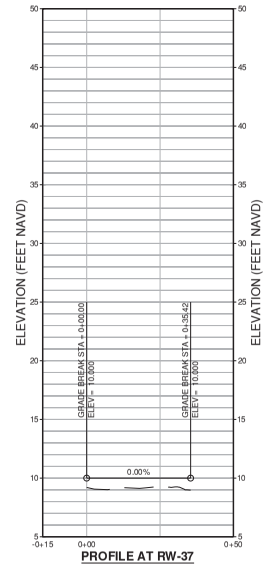
1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SC SHEETS) FOR PROJECT CONTROL LINES, FOR RETAINING WALL AND FLOOD WALL, AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR SHEET PILE AND GRADING INFORMATION. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS FOR ACCESS POINT LAYOUT AND OTHER CIVIL DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN. SEE FLOODWALL WALL SHEETS (PW SHEETS) FOR FLOOD WALL LAYOUTS NOT PARALLEL TO CONTROL LINE 1.
2. SEE STRUCTURAL SHEETS (S SHEETS) FOR STRUCTURAL DETAILS, INCLUDING MECHANICALLY STABILIZED EARTH WALLS AND CONCRETE WALLS.
3. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED.
4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.



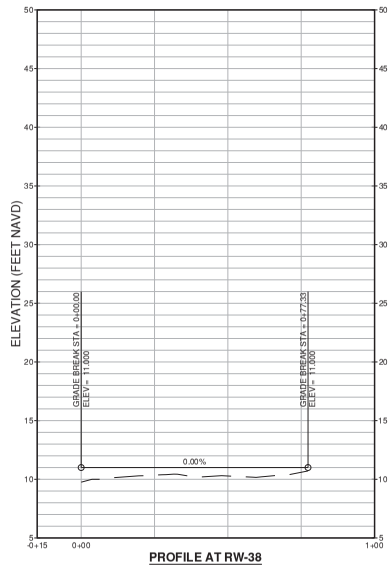
PROFILE AT RW-34
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



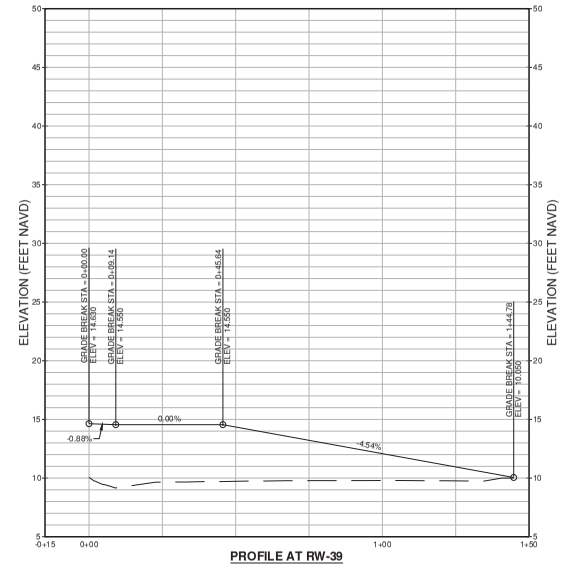
PROFILE AT RW-35
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-37
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-38
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-39
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020			
SCALE: AS SHOWN			
DRAWN BY: ARO			
PROJECT NUMBER: FOST.12.16			
DESIGNED BY: ARO			
CHECKED BY: CDA			
SURVEYED BY: WILSEY-HAM			
	NO.	BY	DATE
	1	ARO	07/31/20

REVISIONS: 1 ARO 07/31/20 CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

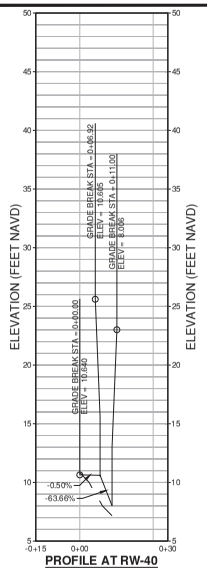
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

RETAINING WALL PROFILES

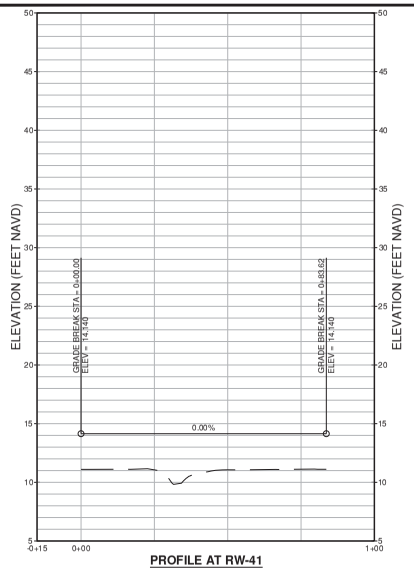
SHEET
RW 05
SHEET 123 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOsher\Desktop\RW 01-06_REV1.dwg

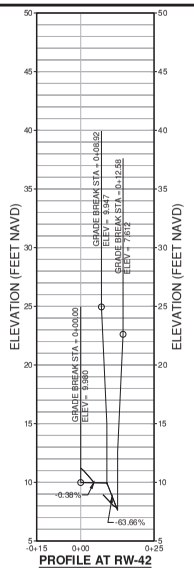
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



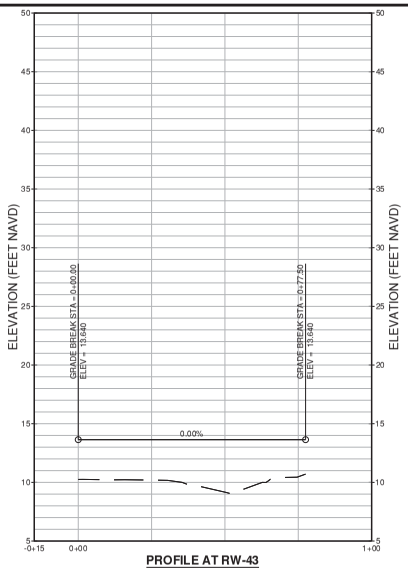
PROFILE AT RW-40
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



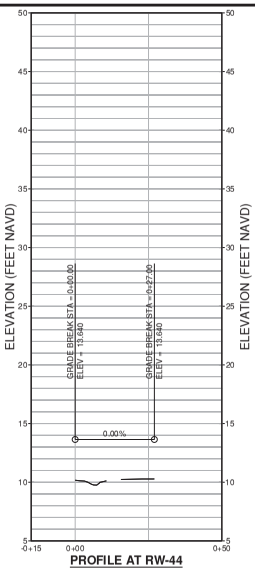
PROFILE AT RW-41
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



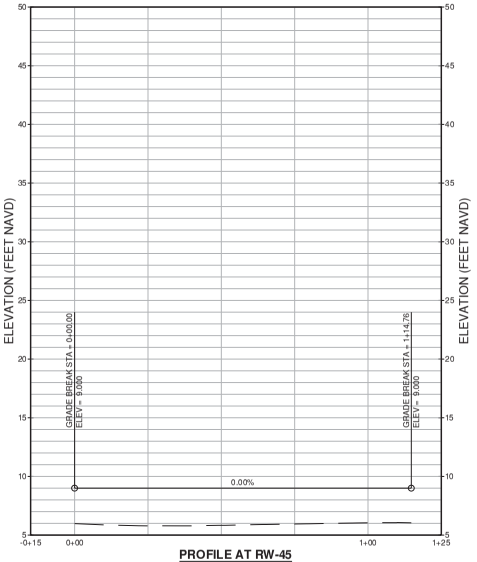
PROFILE AT RW-42
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



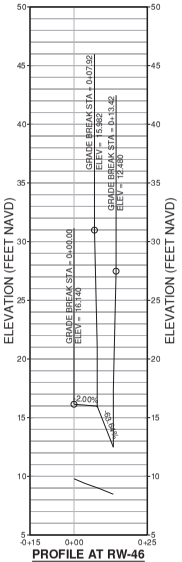
PROFILE AT RW-43
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



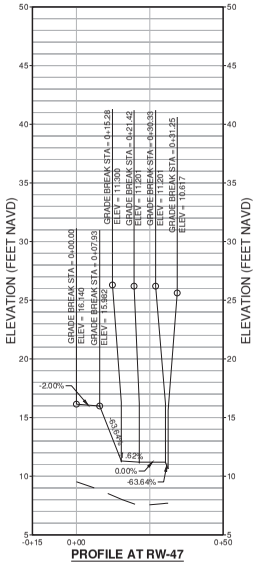
PROFILE AT RW-44
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-45
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-46
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



PROFILE AT RW-47
HORIZ.SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND ROW SHEETS (SC SHEETS) FOR PROJECT CONTROL LINES, FOR RETAINING WALL AND FLOOD WALL. AND LINE AND CURVE TABLES. SEE DEMOLITION AND UTILITY SHEETS (DU SHEETS) FOR DEMOLITION AND UTILITY INFORMATION. SEE SHEET PILE INSTALLATION AND GRADING SHEETS (SPG SHEETS) FOR SHEET PILE AND GRADING INFORMATION. SEE TYPICAL SECTION SHEETS (TCX SHEETS) FOR TYPICAL CROSS SECTION TYPES. SEE CROSS SECTION SHEETS (CX SHEETS) FOR LEVEE CROSS SECTIONS. SEE CIVIL SHEETS (C SHEETS FOR ACCESS POINT LAYOUT AND OTHER CIVIL DETAILS. SEE PAVING AND STRIPING SHEETS (PS SHEETS) FOR PAVING AND STRIPING PLAN. SEE FLOODWALL WALL SHEETS (FW SHEETS) FOR FLOOD WALL LAYOUTS NOT PARALLEL TO CONTROL LINE 1.
2. SEE STRUCTURAL SHEETS (S SHEETS) FOR STRUCTURAL DETAILS, INCLUDING MECHANICALLY STABILIZED EARTH WALLS AND CONCRETE WALLS.
3. OFFSET DISTANCES ARE MEASURED FROM THE CONSTRUCTION CONTROL LINE LOCATED ON THE INSIDE EDGE OF THE SHEET PILE WALL OR THE OUTSIDE EDGE OF THE DECOMPOSED GRANITE SHOULDER UNLESS OTHERWISE NOTED.
4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES AND OVERHEAD UTILITY LINES AND POLES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES SO THAT CONSTRUCTION ACTIVITIES DO NOT CONFLICT WITH EXISTING UTILITIES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED UTILITIES THAT ARE SHOWN AS PROTECTED IN PLACE.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4826

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

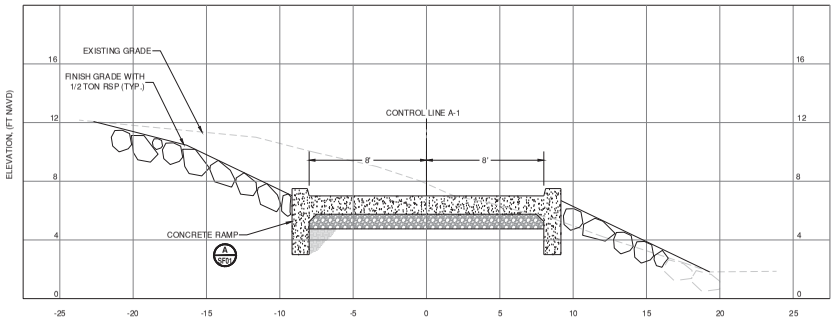
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

RETAINING WALL PROFILES

SHEET
RW 06
SHEET 124 OF 384
CIP PROJ. NUMBER
CIP 301-657

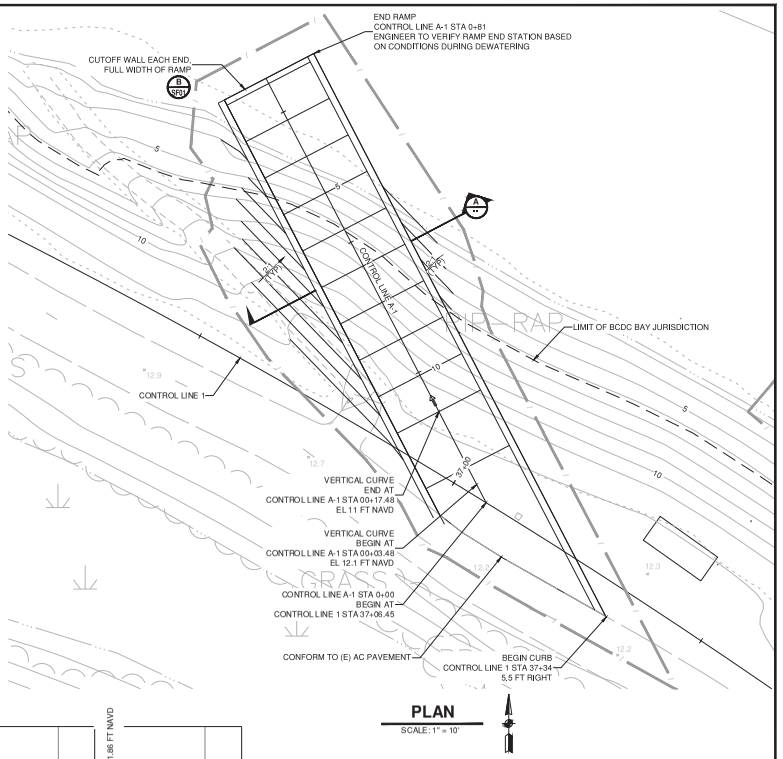
PLOT DATE: 6/9/2020 FILE PATH: C:\Users\Arche\Desktop\RW 01-06_REV1.dwg

XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 15-753-ALL, X-UTILITIES, 90% FINAL GRADING



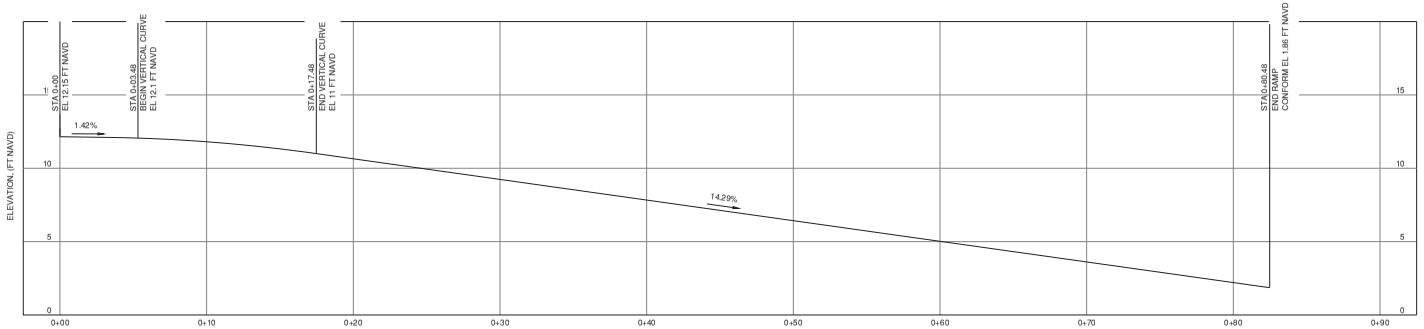
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'



PROFILE AT CONTROL LINE A-1

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-1 LAYOUT.
2. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_1-7_Conform\ACCESS_POINT_XS_1-7_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

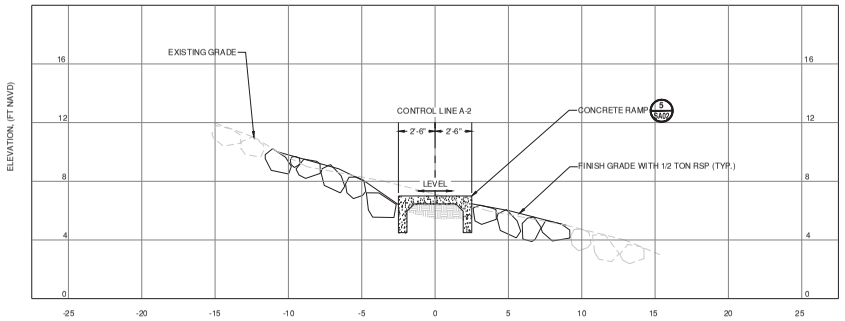
NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

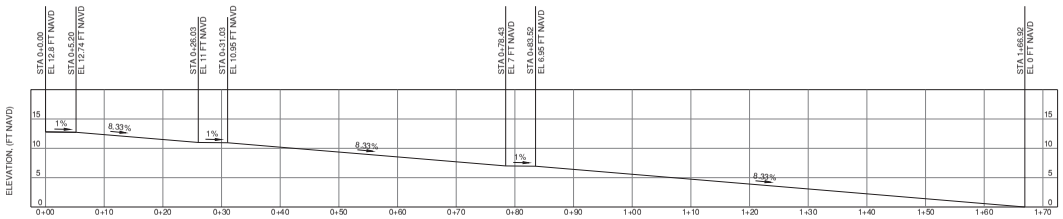
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
BOAT RAMP AT STA 37+06

SHEET
AP1
SHEET 125 OF 384
CIP PROJ. NUMBER
CIP 301-657



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PROFILE AT CONTROL LINE A-2

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-2 LAYOUT.
2. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_1-7_Conform\ACCESS_POINT_XS_1-7_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

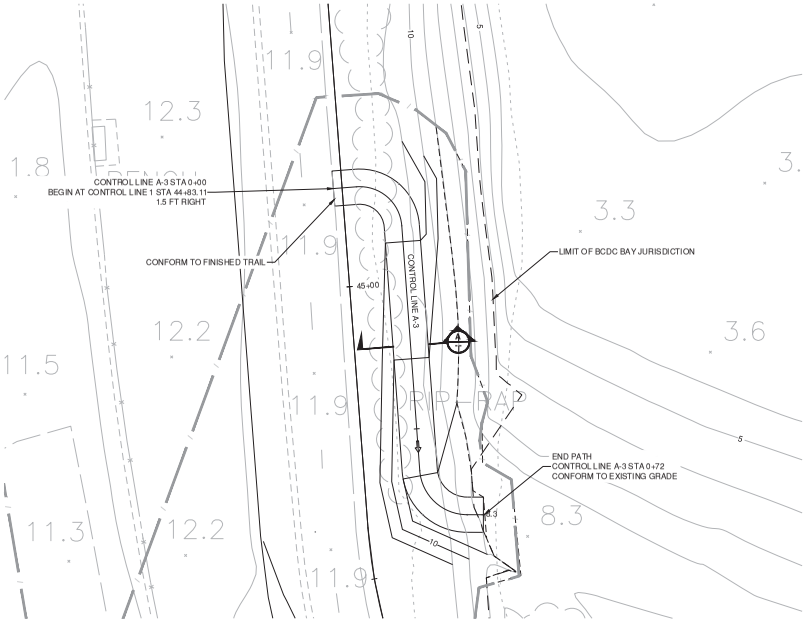
NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

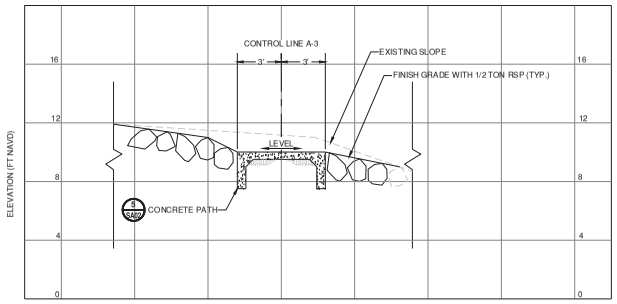
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS RAMP AT STA 38+91

SHEET
AP2
SHEET 126 OF 384
CIP PROJ. NUMBER
CIP 301-657



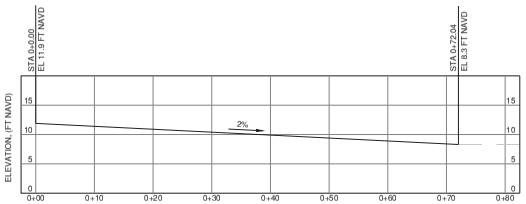
PLAN AT STA 44+83

SCALE: 1" = 10'



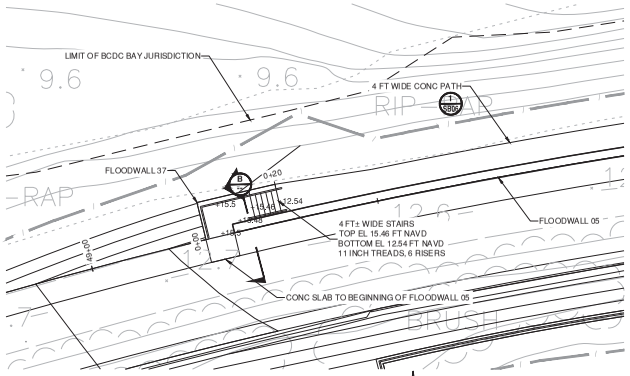
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



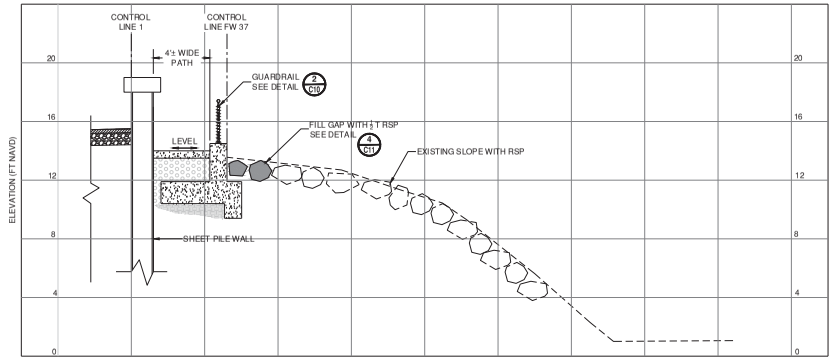
PROFILE AT CONTROL LINE A-3

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



PLAN AT STA 49+25

SCALE: 1" = 10'



CROSS SECTION B

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINES 1 AND A-3 LAYOUTS.
2. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
3. SEE SHEET S-C06 FOR FLOODWALL 37 DETAILS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

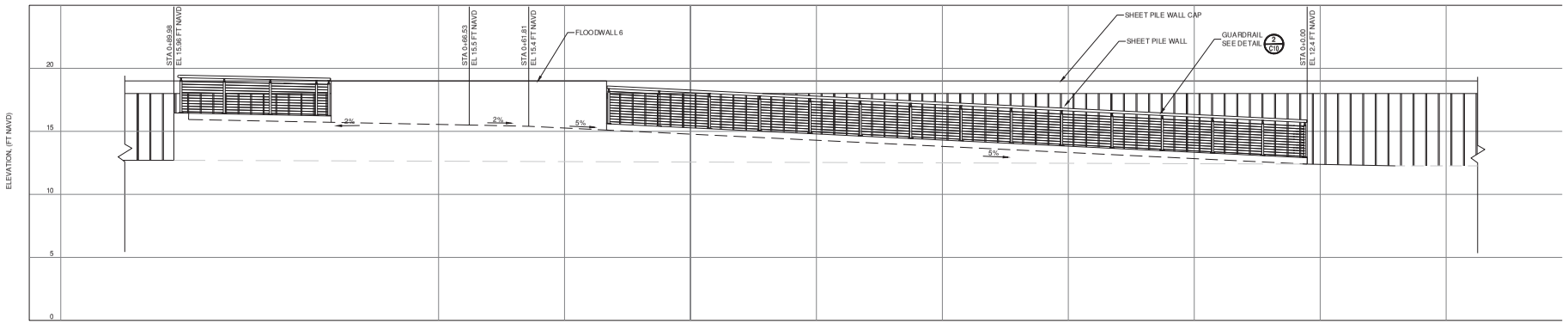
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS AT STA 44+83 AND STA 49+25

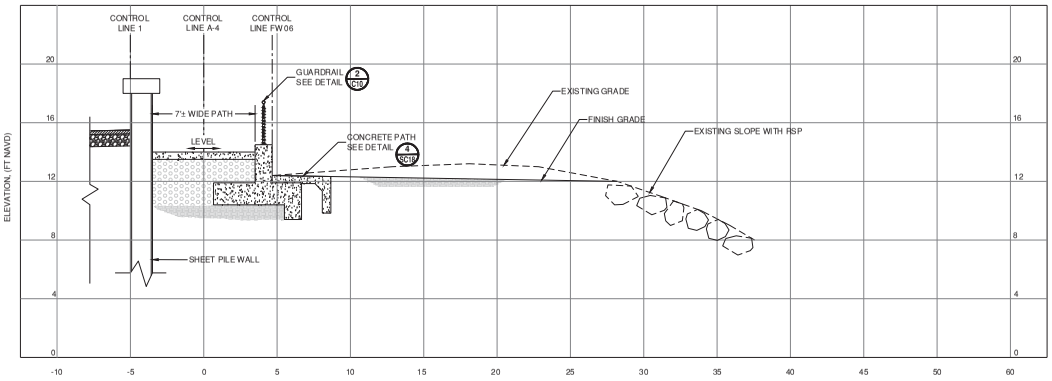
SHEET
AP3
SHEET 127 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_1-7_Conform\ACCESS_POINT_XS_1-7_Conform.dwg



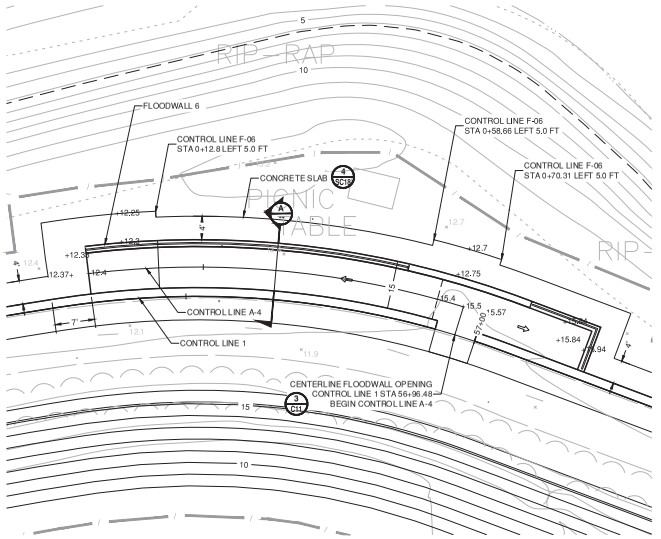
BAY SIDE ELEVATION/PROFILE AT CONTROL LINE A-4

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINES 4 AND R-02 LAYOUT.
2. SEE SHEET FW 02 FOR TOP OF FLOODWALL 06 PROFILE.
3. SEE SHEET S-C05 FOR FLOODWALL 06 DETAILS.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_1-7_Conform\ACCESS_POINT_XS_1-7_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

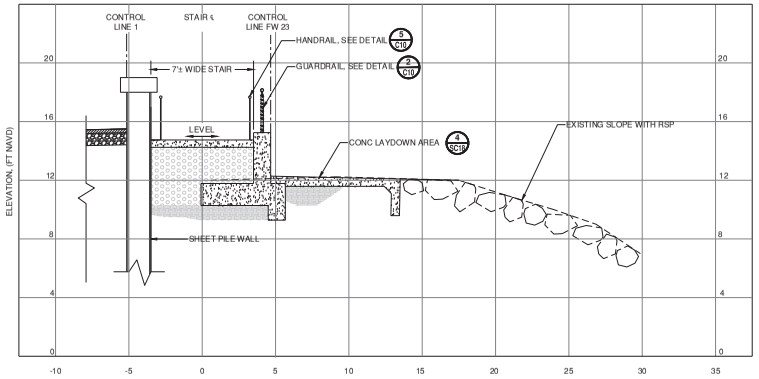
NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

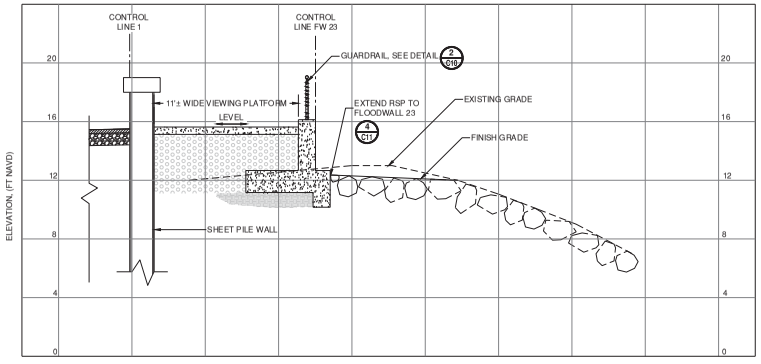
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS RAMP AND VIEWING PLATFORM AT STA 56+96

SHEET
AP4
SHEET 128 OF 384
CIP PROJ. NUMBER
CIP 301-657



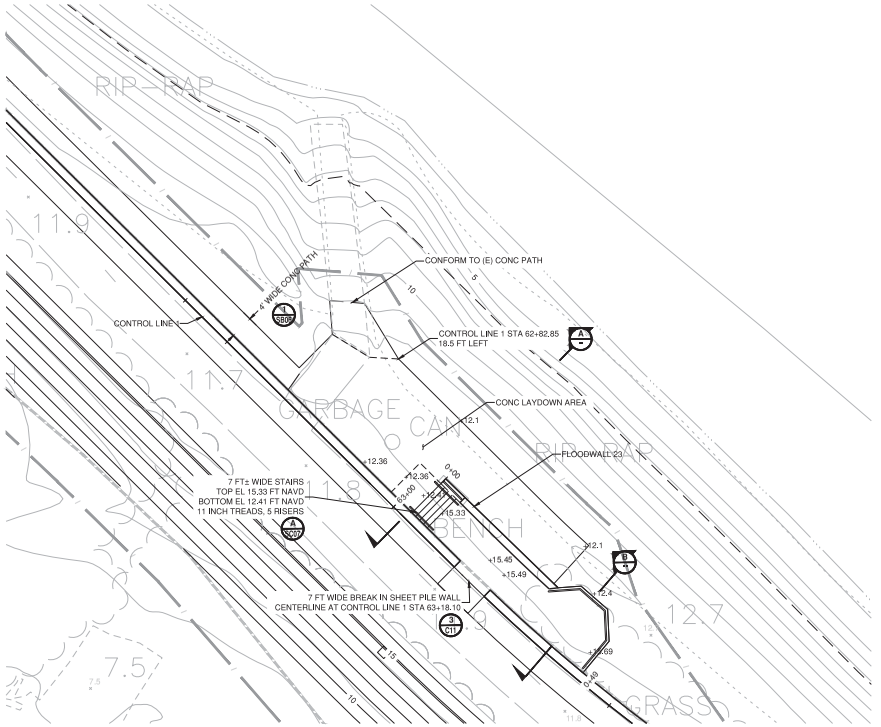
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION B

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-45 AND A-46 LAYOUT.
2. SEE SHEET FW 04 FOR TOP OF FLOODWALL 23 PROFILE.
3. SEE SHEET S-026 FOR FLOODWALL 23 DETAILS.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
7. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

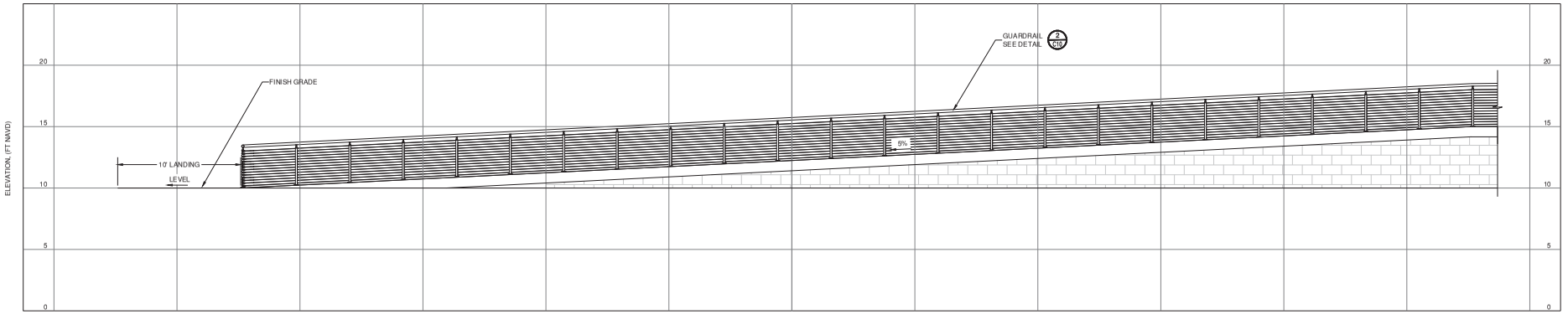
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS STAIRS AND LAYDOWN AREA AT STA 63+18

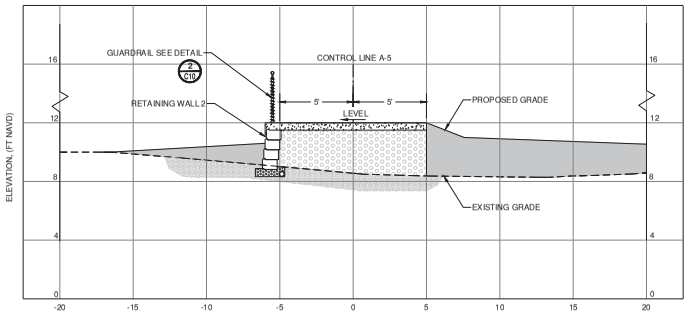
SHEET
AP5
SHEET 129 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\Adca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_1-7_Conform\ACCESS_POINT_XS_1-7_Conform.dwg



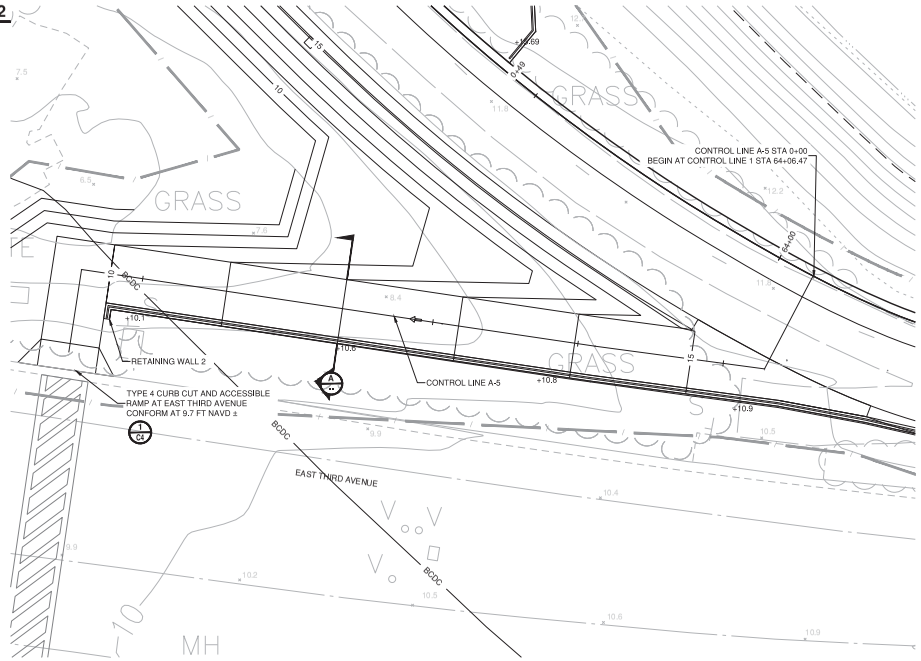
ELEVATION OF RETAINING WALL 2

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-5 LAYOUT.
2. SEE SHEET RW 01 FOR TOP OF RETAINING WALL 2 PROFILE.
3. RETAINING WALL TYPE AB1 AS APPLIES. SEE SHEET S-D01.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

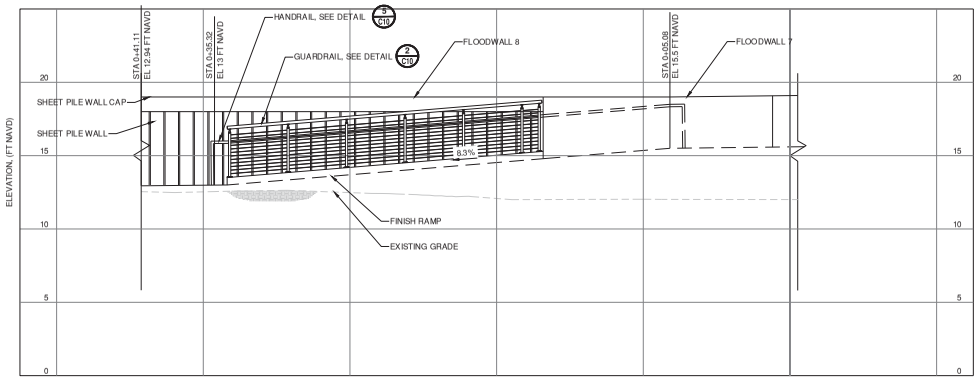
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS AT STA 64+06

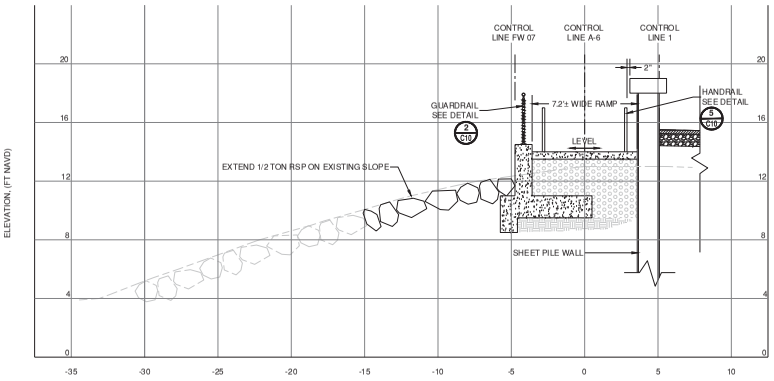
SHEET
AP6
SHEET 130 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_1-7_Conform\ACCESS_POINT_XS_1-7_Conform.dwg



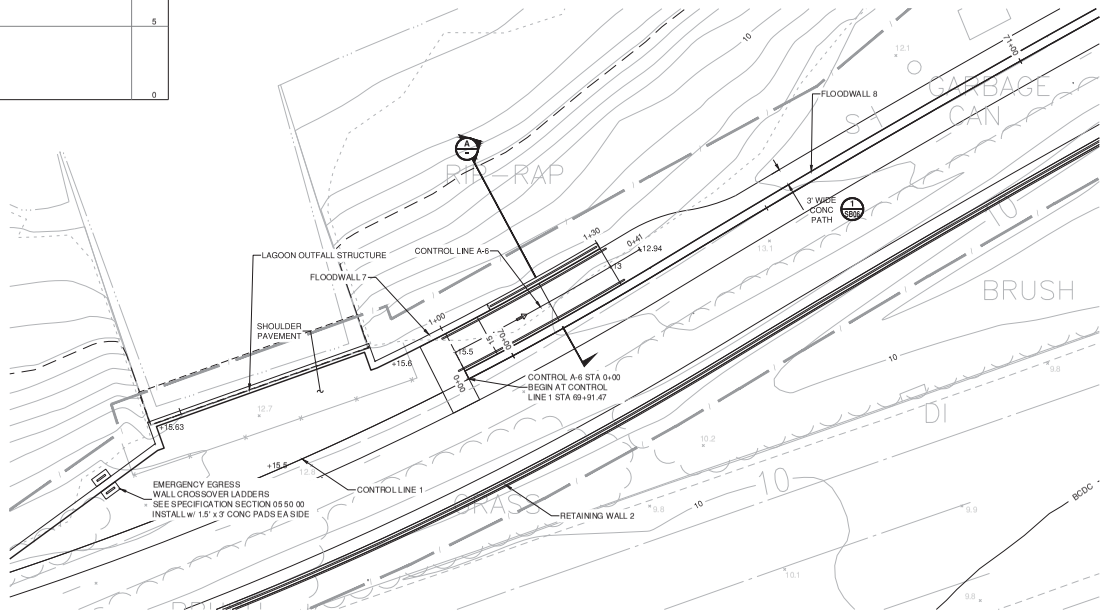
BAY SIDE ELEVATION/PROFILE ALONG CONTROL LINE A-6

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-6 LAYOUT.
2. SEE SPG SHEETS FOR TOP OF WALL PROFILE FOR FLOODWALL 8.
3. SEE SHEET S-E01 FOR LAGOON OUTLET STRUCTURE AND FLOODWALL 7 DETAILS.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

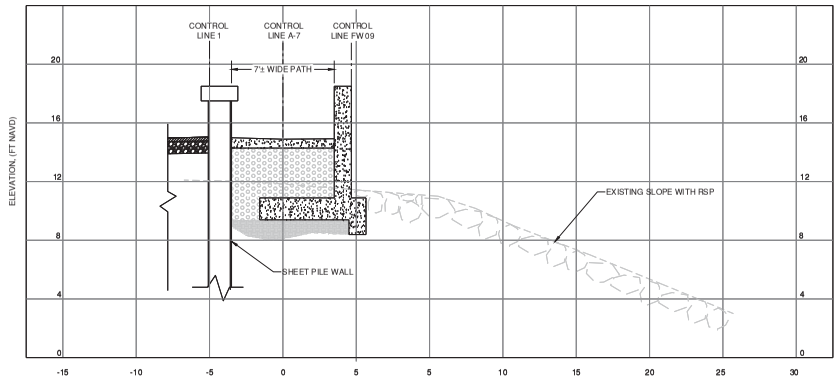
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS RAMP AT ST 69+91

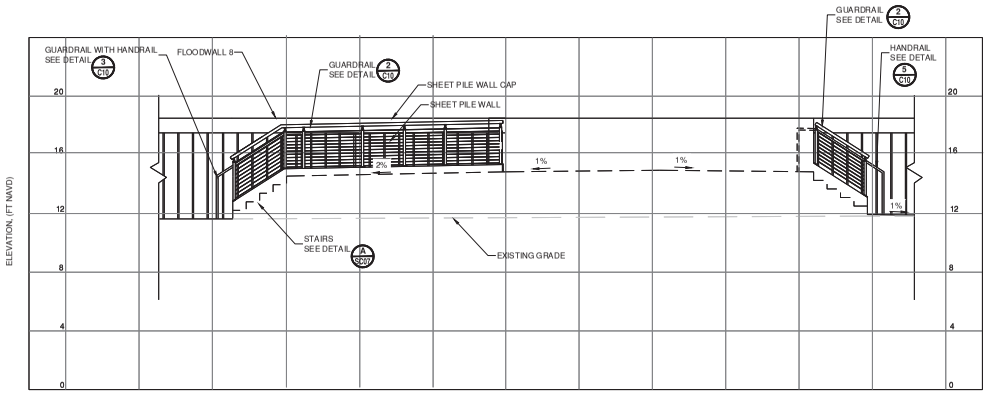
SHEET
AP7
SHEET 131 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_1-7_Conform\ACCESS_POINT_XS_1-7_Conform.dwg



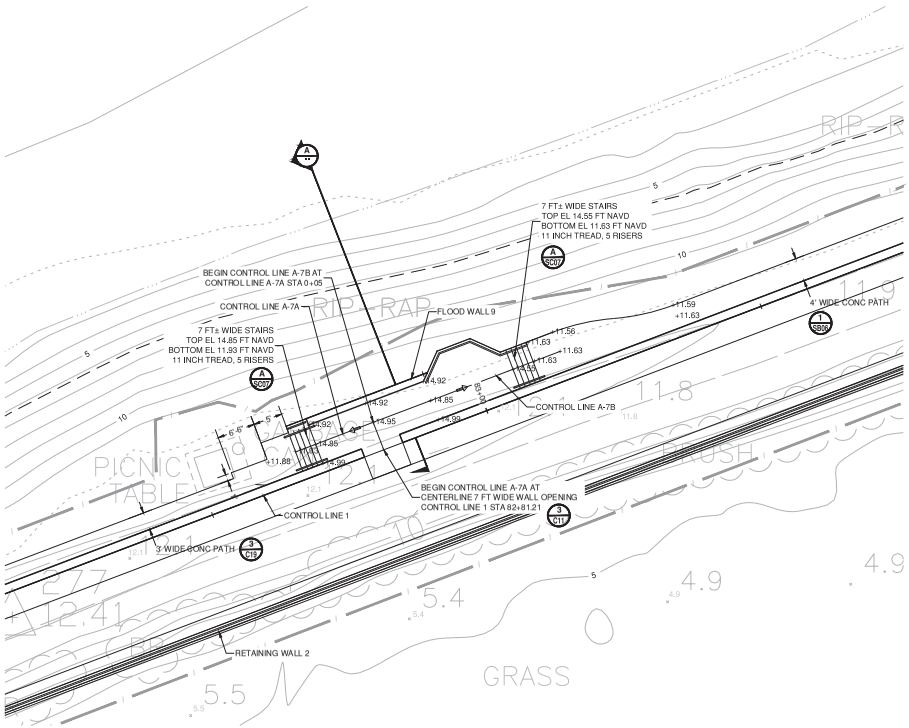
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



BAY SIDE ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-7 LAYOUT.
2. SEE SHEET FW 02 FOR TOP OF FLOODWALL 9 PROFILE.
3. SEE SHEET S-C06 FOR FLOODWALL 9 DETAILS.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
7			
6			
5			
4			
3			
2			
1	CDA	07/31/20	CONFORMED SET

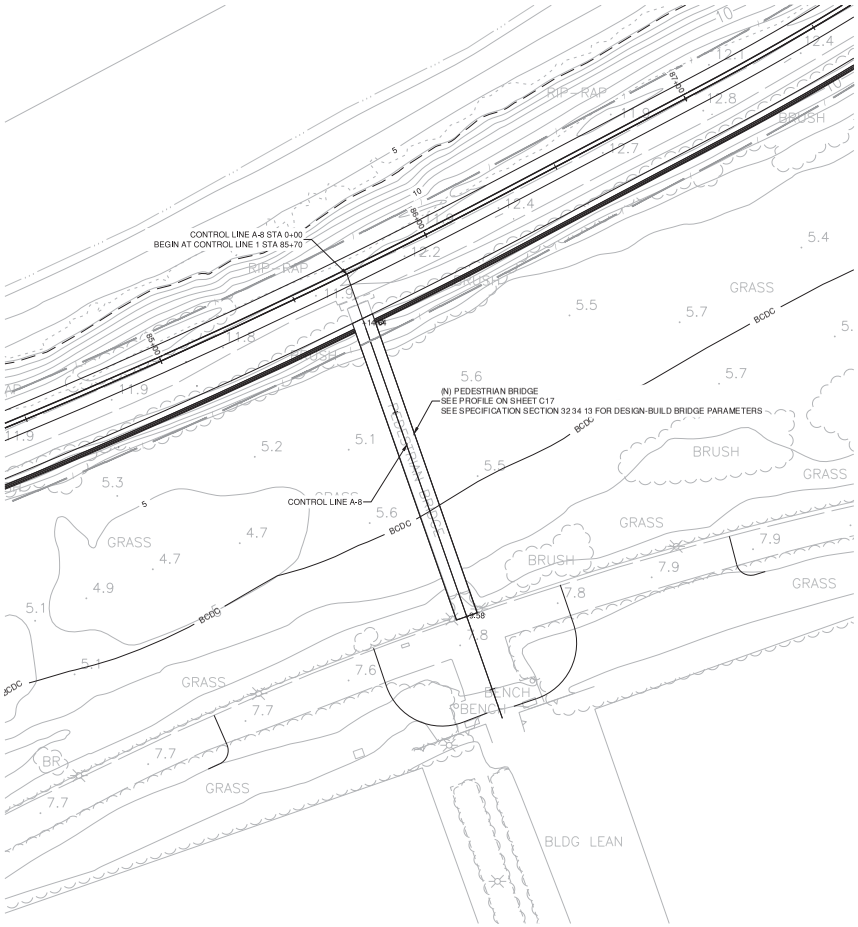
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS STAIRS AND VIEWING PLATFORM AT STA 82+81

SHEET AP8
SHEET 132 OF 384
CIP PROJ. NUMBER CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOcon\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_8-14_Conform\ACCESS_POINT_XS_8-14_Conform.dwg



PLAN
SCALE: 1" = 20'

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_8-14_Conform\ACCESS_POINT_XS_8-14_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

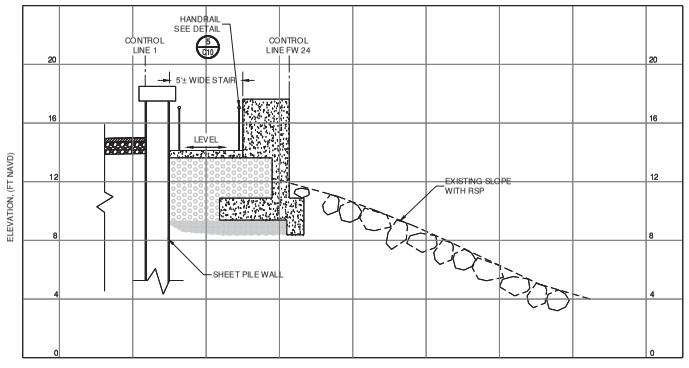
NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

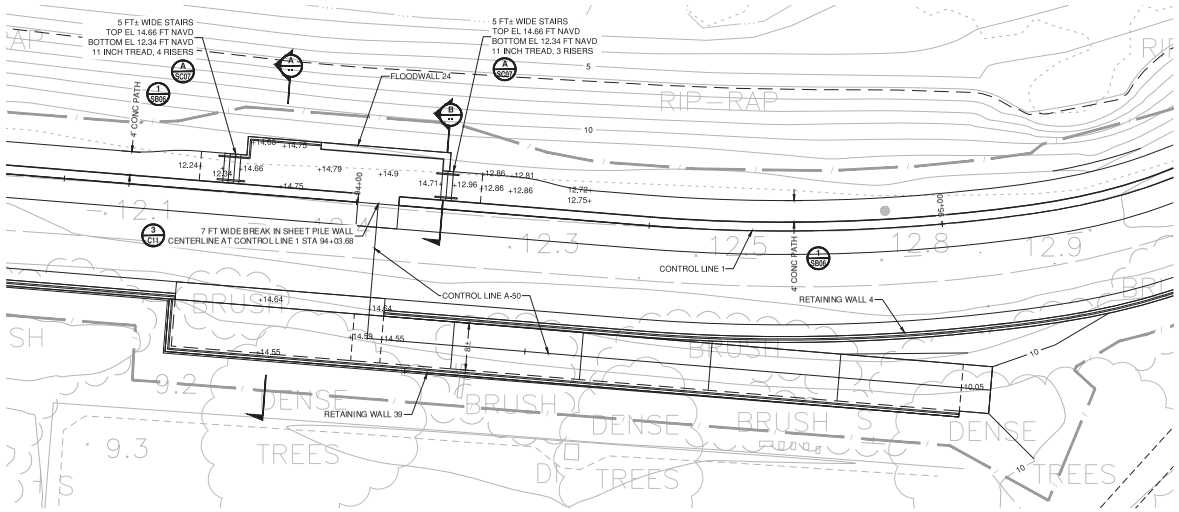
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PEDESTRIAN ACCESS BRIDGE AT STA 85+70

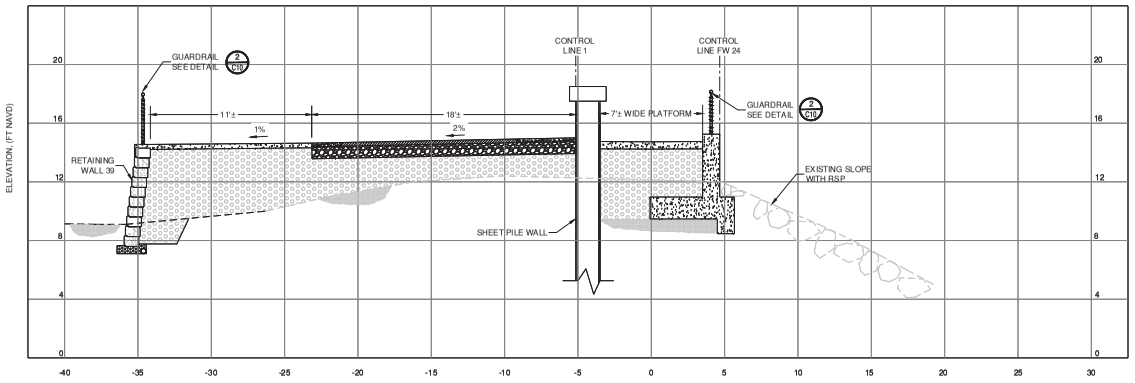
SHEET
AP9
SHEET 133 OF 384
CIP PROJ. NUMBER
CIP 301-657



CROSS SECTION B
HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN
SCALE: 1" = 10'



CROSS SECTION A
HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-50 LAYOUT.
2. SEE SHEET FW 04 FOR TOP OF FLOODWALL 24 PROFILE.
3. SEE SHEET RW 05 FOR TOP OF RETAINING WALL 39 PROFILE.
4. SEE SHEET S-C06 FOR FLOODWALL 24 DETAILS.
5. RETAINING WALL TYPE AB1 AND AB2 AS APPLIES. SEE SHEETS S-D01 AND S-D02.
6. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
7. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
8. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
9. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

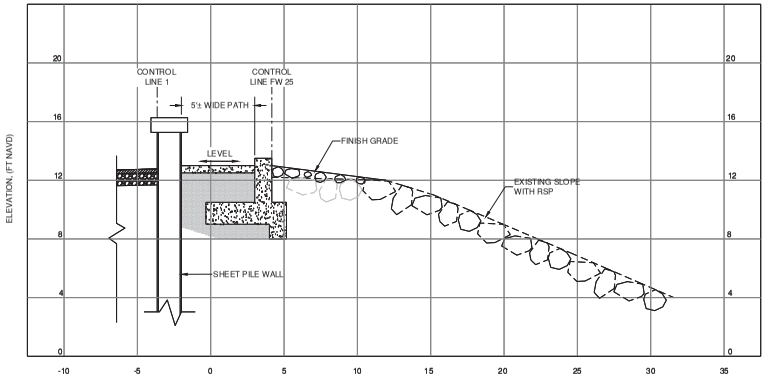
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS STAIRS AND VIEWING PLATFORM, AND TRAIL ACCESS PATH AT STA 94+04

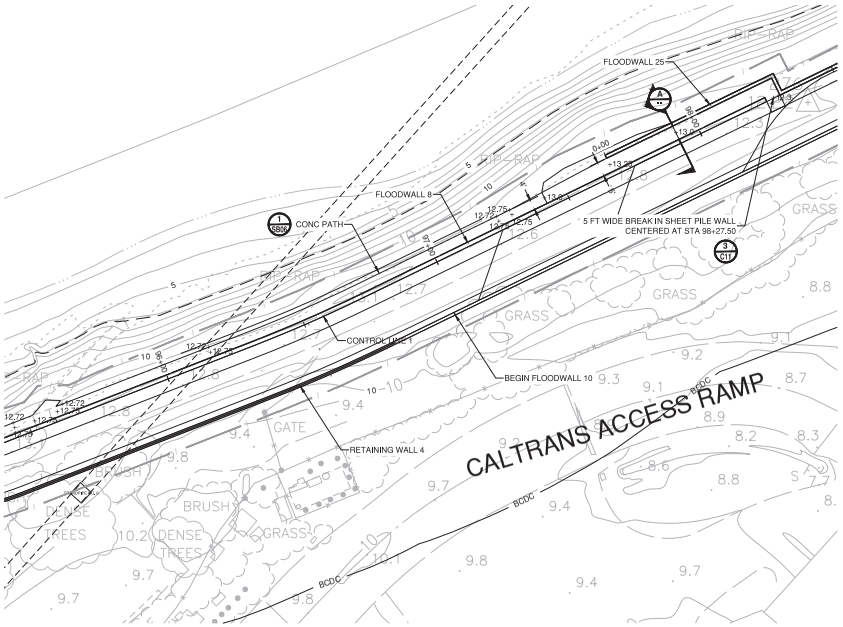
SHEET
AP10
SHEET 134 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_B-14_Conform\ACCESS_POINT_XS_B-14_Conform.dwg



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 20'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-45 AND A-46 LAYOUT.
2. SEE SPG SHEETS FOR TOP OF FLOODWALL 8 AND RETAINING WALL 4 PROFILES.
3. SEE SHEET FW 04 FOR TOP OF FLOODWALL 25 PROFILE.
4. SEE SHEETS S-C13 FOR FLOODWALL 25 DETAILS.
5. RETAINING WALL TYPE AB1 AS APPLIES. SEE SHEET S-D01.
6. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
7. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
8. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

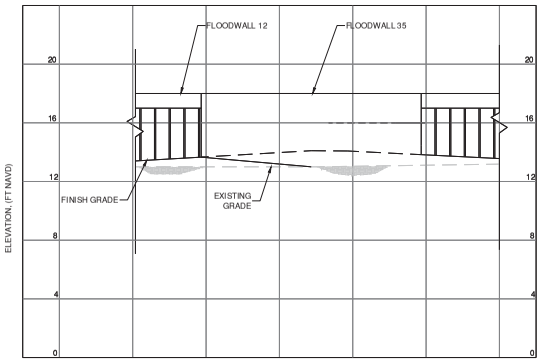
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS AT STA 98+28

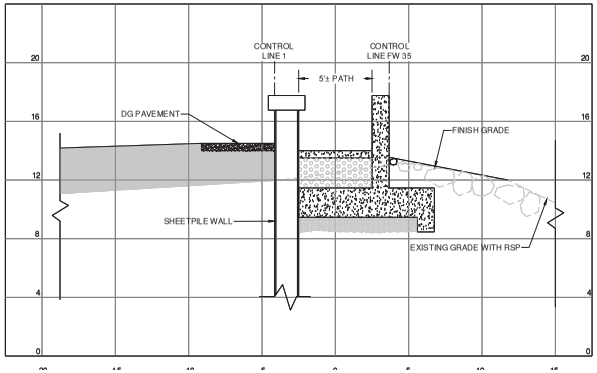
SHEET
AP11
SHEET 135 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_A-14_Conform\ACCESS_POINT_XS_A-14_Conform.dwg



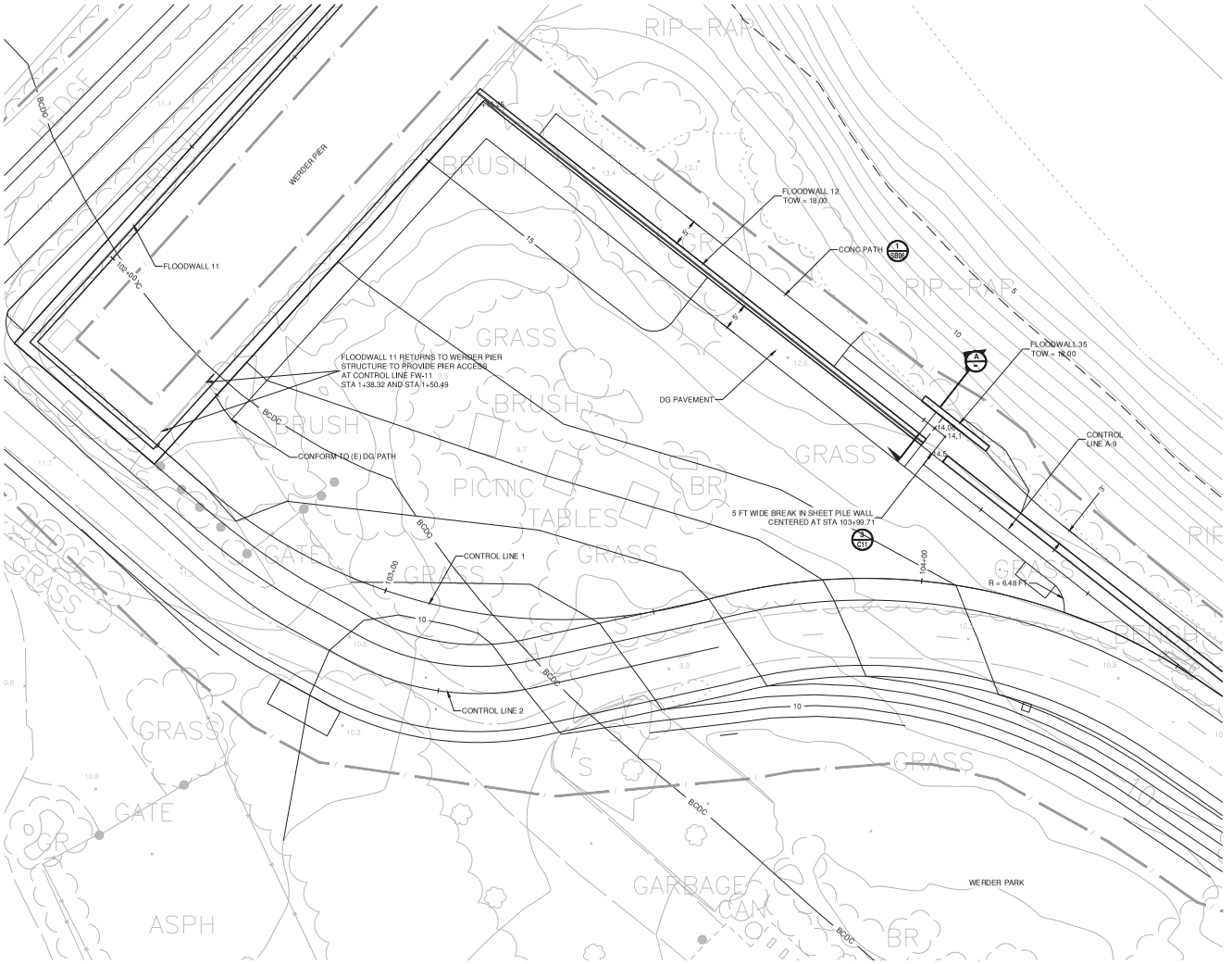
BAY SIDE ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-9 LAYOUT.
2. SEE SHEETS S-G01 FOR FLOODWALL 11 PROFILE AND DETAILS.
3. SEE SHEET S-C08 FOR FLOODWALL 35 DETAILS.
4. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

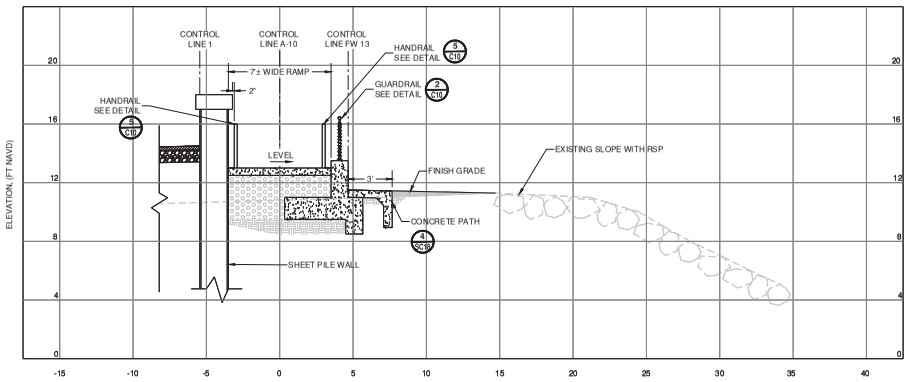
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS AND TRAIL GRADING NEAR WERDER PIER AND BRIDGEVIEW PARK

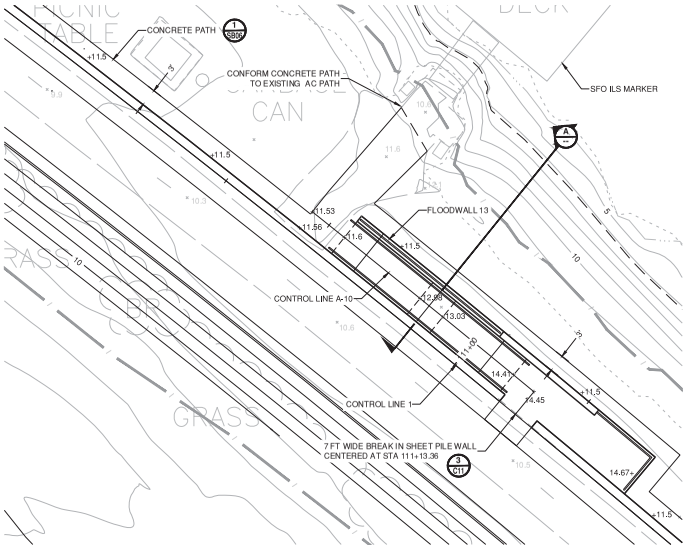
SHEET
AP12
SHEET 136 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADcox\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_8-14_Conform\ACCESS_POINT_XS_8-14_Conform.dwg



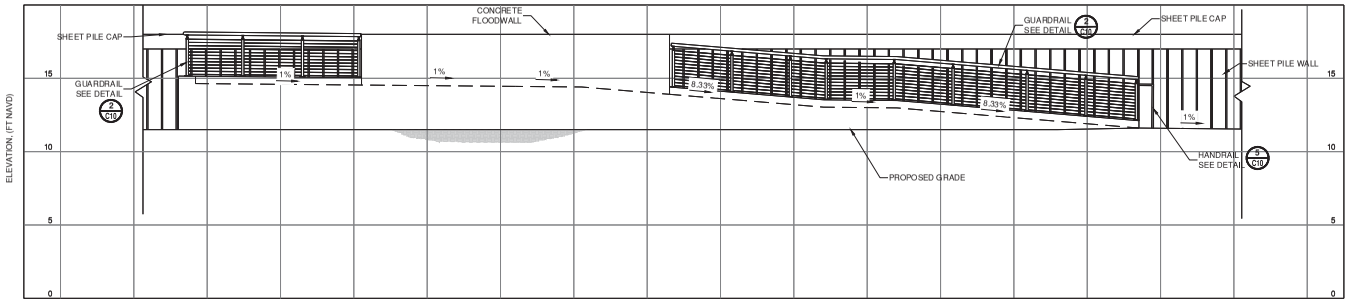
CROSS SECTION A --

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'



PROFILE OF CONTROL LINE A-10/BAY SIDE ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-10 LAYOUT.
2. SEE SHEET FW 03 FOR FLOODWALL 13 PROFILE.
3. SEE SHEET S-C05 FOR FLOODWALL 13 DETAILS.
4. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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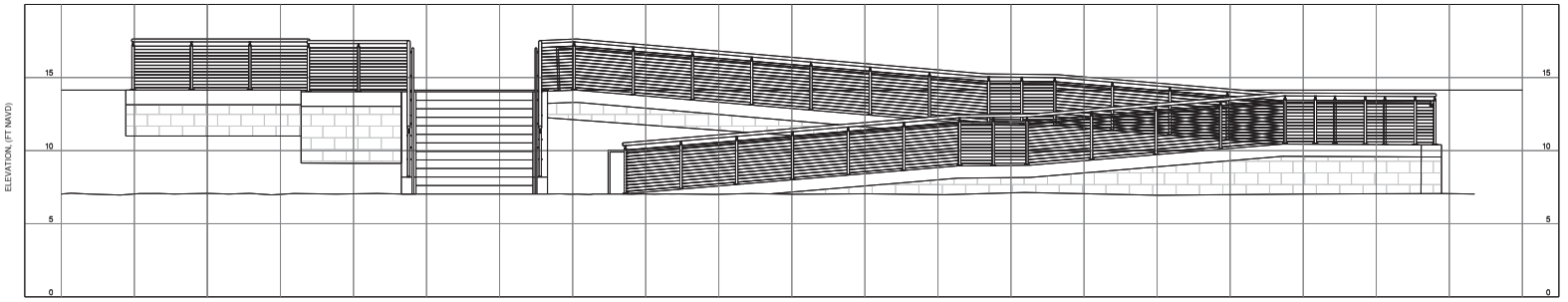
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS RAMP AND VIEWING PLATFORM AT STA 111+13

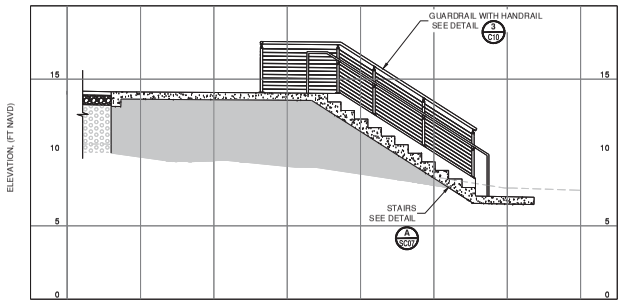
SHEET
AP13
SHEET 137 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_8-14_Conform\ACCESS_POINT_XS_8-14_Conform.dwg



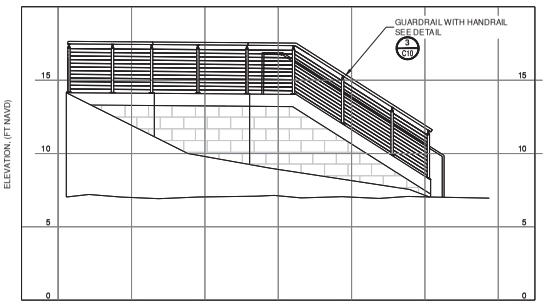
ELEVATION FROM BEACH PARK BOULEVARD

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



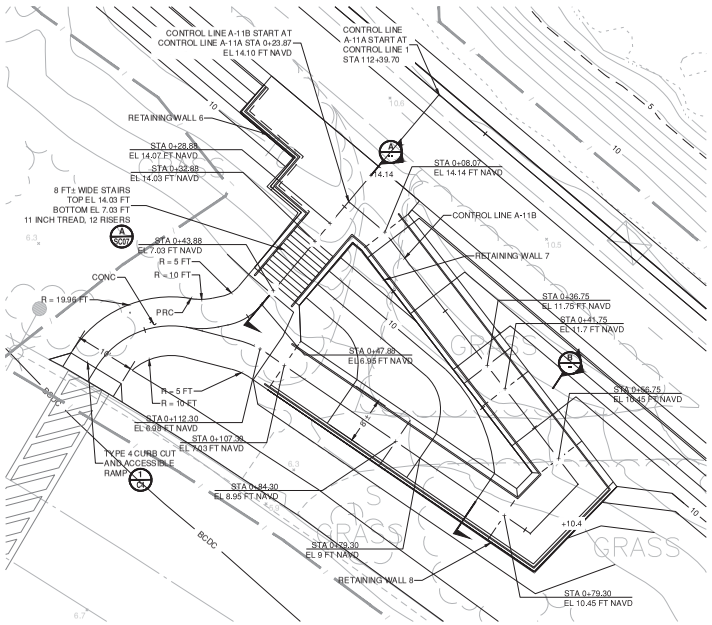
CROSS SECTION A --

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



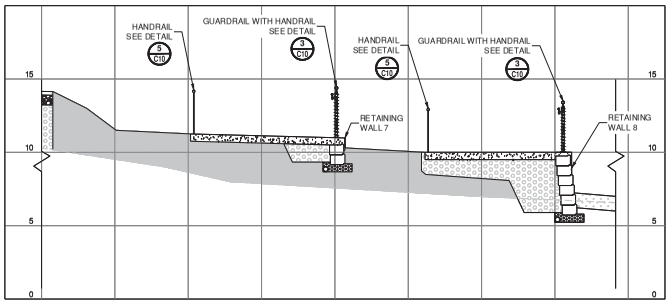
NORTHWEST ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'



CROSS SECTION B --

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

NOTE:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-11A AND A-11B LAYOUTS.
2. SEE SHEET RW02 FOR RETAINING WALL 6, 7, AND 8 PROFILES.
3. RETAINING WALL TYPE AB1 AND AB2 AS APPLIES. SEE SHEETS S-D01 AND S-D02.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
7. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_A-14_Conform\ACCESS_POINT_XS_A-14_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

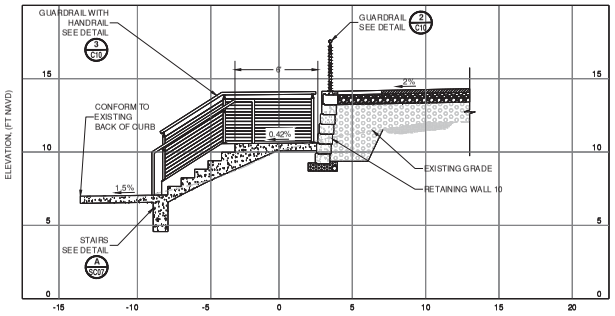
NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

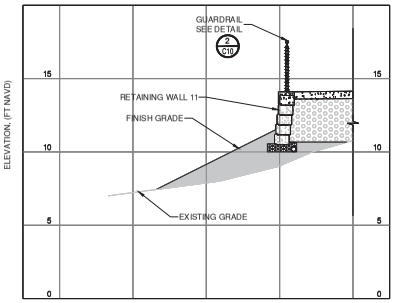
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS RAMP AND STAIRS AT STA 112+40

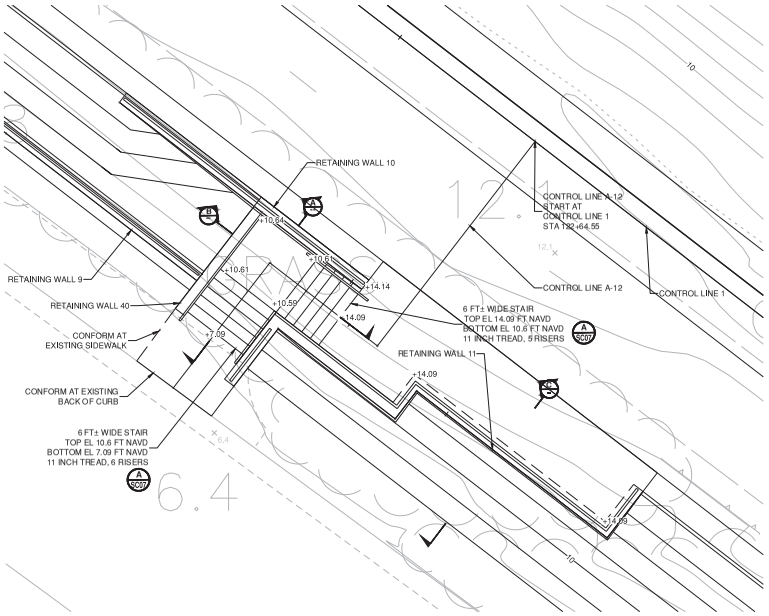
SHEET
AP14
SHEET 138 OF 384
CIP PROJ. NUMBER
CIP 301-657



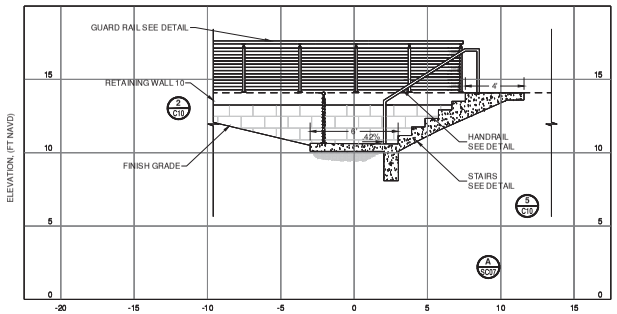
CROSS SECTION A
HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



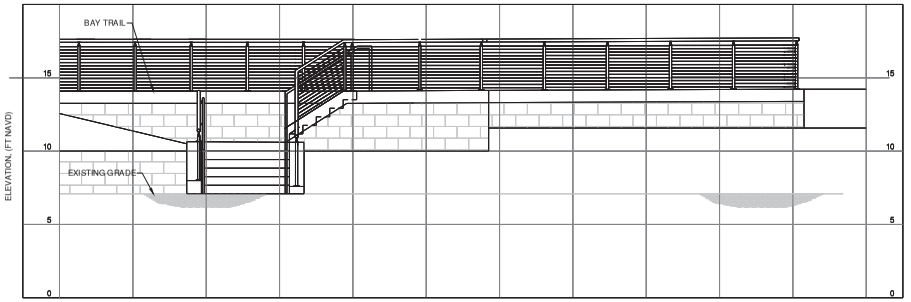
CROSS SECTION C
HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN
SCALE: 1" = 5'



CROSS SECTION B
HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



ELEVATION
HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-12 LAYOUT.
2. SEE SHEET RW 02 FOR RETAINING WALL 10 AND 11 PROFILES.
3. RETAINING WALL TYPES AB1, AB2, AB3, AND AB4 AS APPLIES. SEE SHEETS S-D01, S-D02, S-D03, AND S-D04.
4. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
5. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
6. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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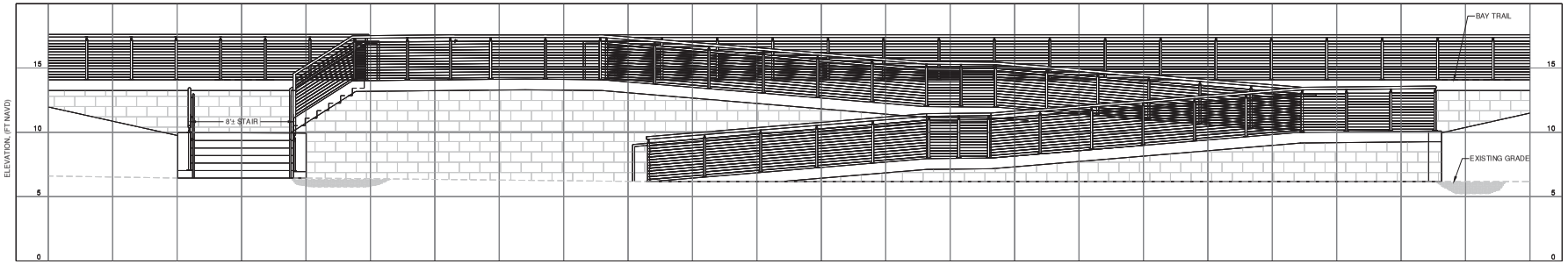
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 122+65

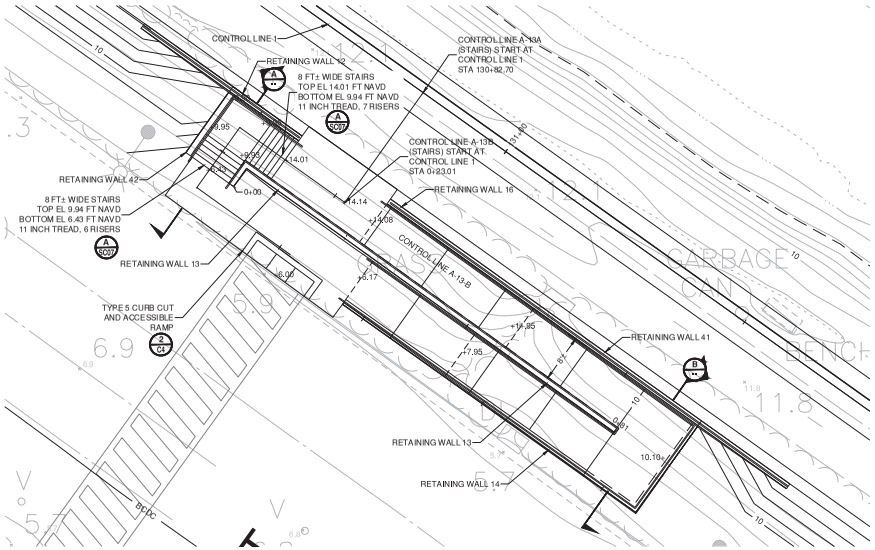
SHEET
AP15
SHEET 139 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_15-21_Conform\ACCESS_POINT_XS_15-21_Conform.dwg



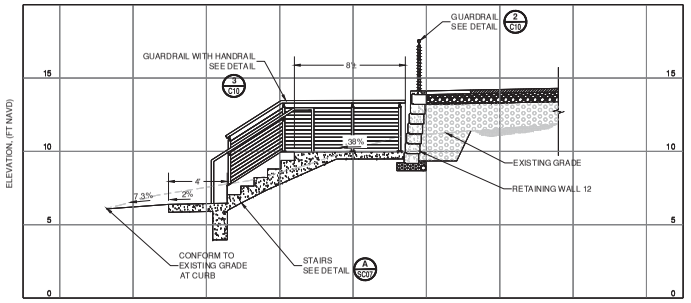
ELEVATION FROM BEACH PARK BOULEVARD

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



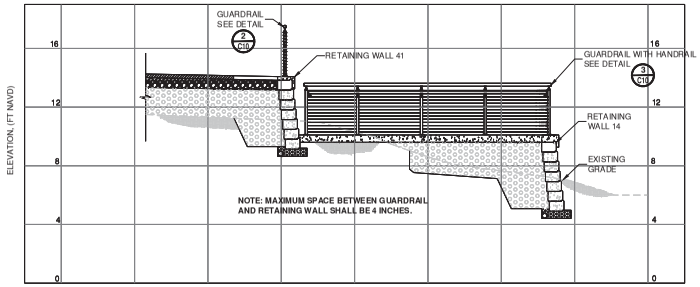
PLAN

SCALE: 1" = 10'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION B

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-13A AND A-13B LAYOUTS.
2. SEE SHEET RW 03 FOR RETAINING WALL 12, 13, AND 14 PROFILES.
3. SEE SHEET RW 06 FOR RETAINING WALL 41 AND 42 PROFILES.
4. RETAINING WALL TYPES AB1, AB2, AND AB3 AS APPLIES. SEE SHEETS S-D01, S-D02, AND S-D03.
5. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
6. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
7. DIMENSIONS ARE NOMINAL, FIELD CONDITIONS GOVERN.
8. STAIRS SHALL MEET ALL BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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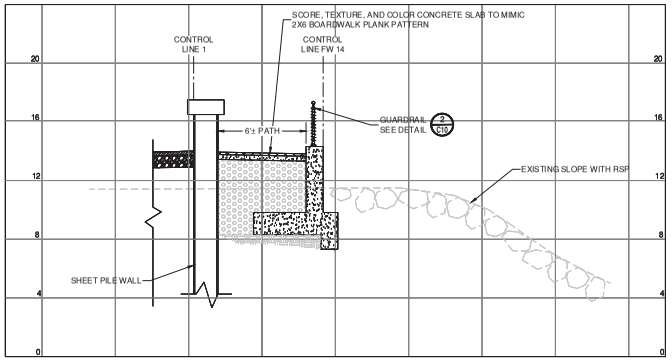
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS RAMP AND STAIRS AT STA 130+83

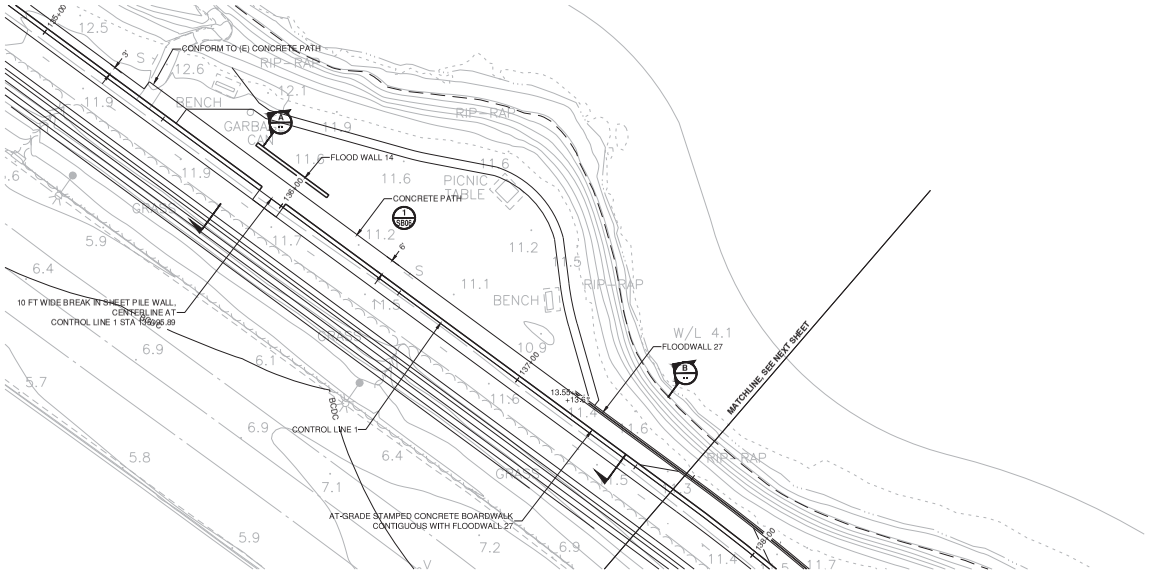
SHEET
AP16
SHEET 140 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_15-21_Conform\ACCESS_POINT_XS_15-21_Conform.dwg



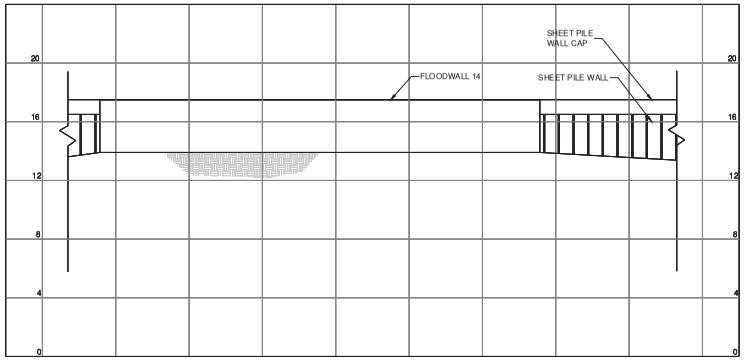
CROSS SECTION B

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



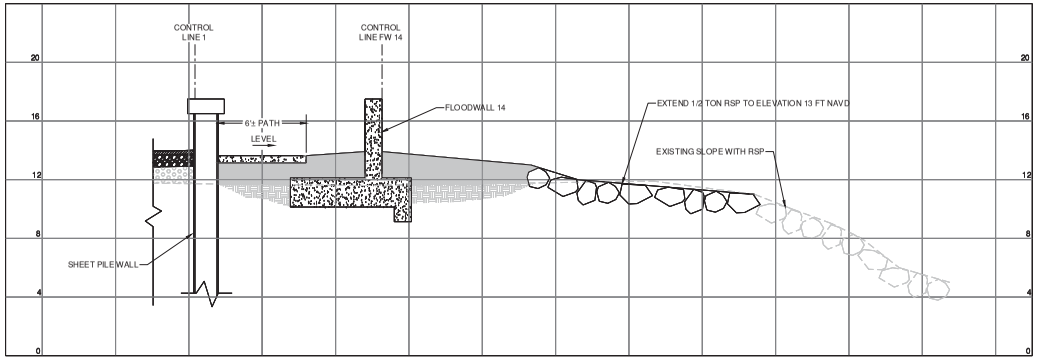
PLAN

SCALE: 1" = 20'



BAY SIDE ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SHEET FW.03 FOR FLOODWALL 14 PROFILE.
2. SEE SHEET S-C08 FOR FLOODWALL 14 DETAILS.
3. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
4. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
5. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOcon\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_15-21_Conform\ACCESS_POINT_XS_15-21_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
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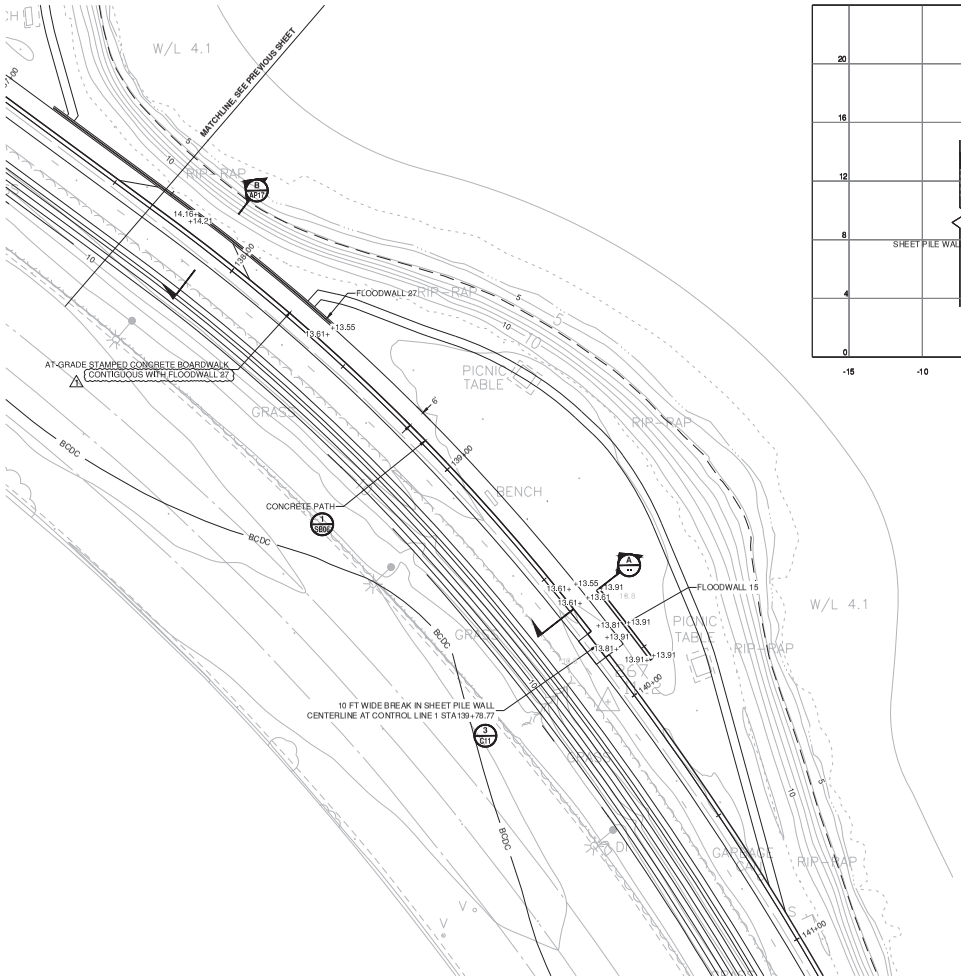
SANTA CLARA, CA 95050
(408) 246-4848

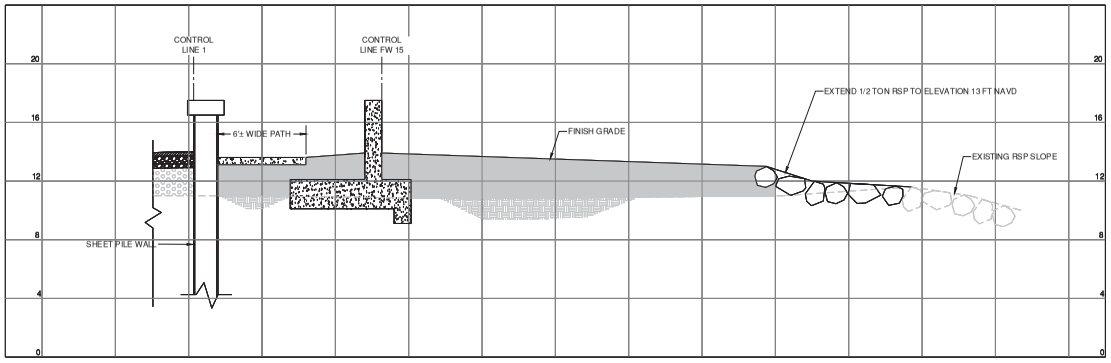
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE RECREATION ACCESS AT STA 135+96

SHEET
AP17
SHEET 141 OF 384
CIP PROJ. NUMBER
CIP 301-657



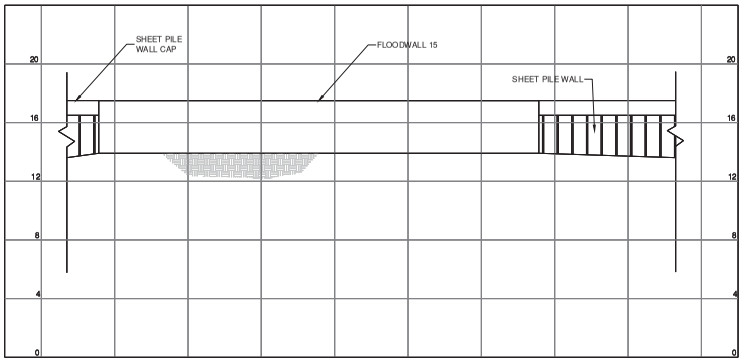
PLAN

SCALE: 1" = 20'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



BAY SIDE ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SHEET FW 03 FOR FLOODWALL 15 PROFILE.
2. SEE SHEET S-C08 FOR FLOODWALL 15 DETAILS.
3. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
4. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
5. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	6/22/20	ADDENDUM NO. 5

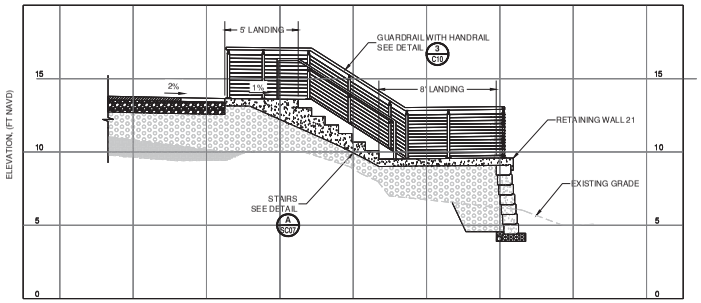
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE RECREATION ACCESS AT STA 139+79

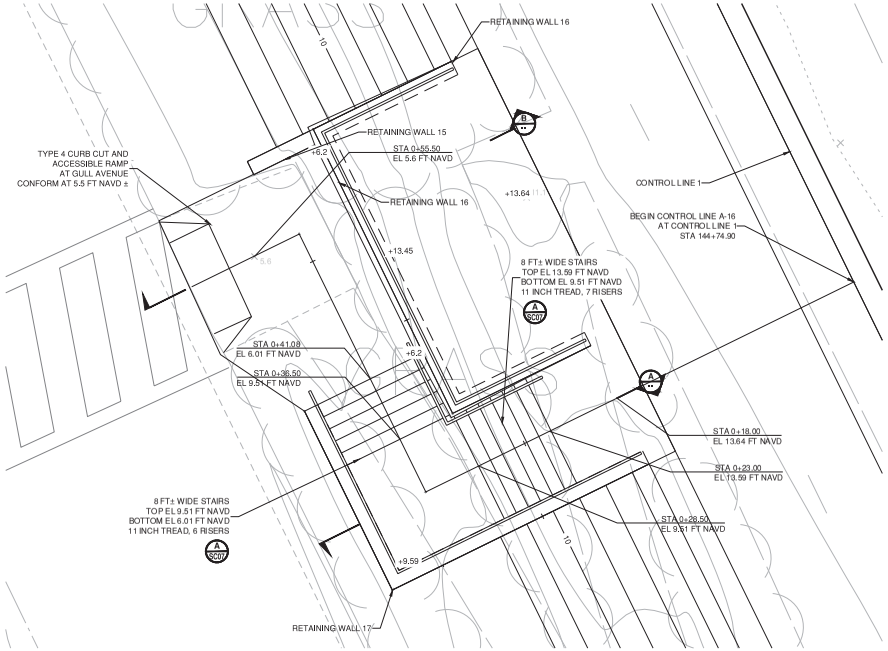
SHEET
AP18
SHEET 142 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 6/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_15-21_Conform\ACCESS_POINT_XS_15-21_Conform.dwg



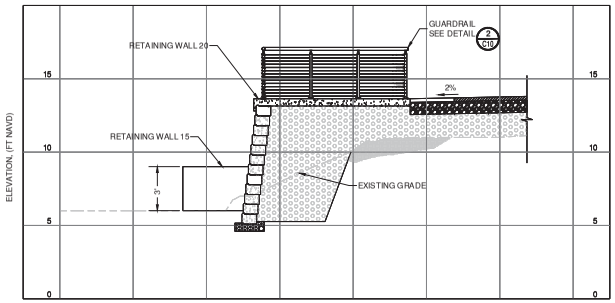
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



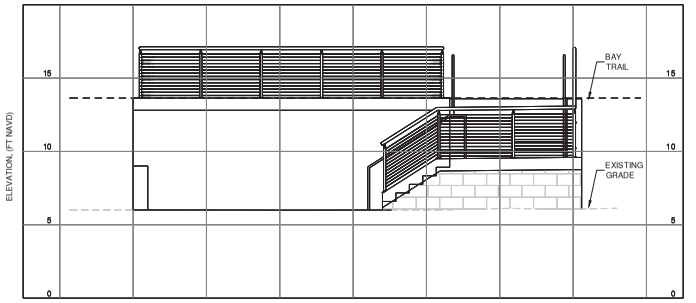
PLAN

SCALE: 1" = 4'



CROSS SECTION B

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



ELEVATION

HOR. SCALE: 1' = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-16 LAYOUT.
2. SEE SHEET RW 03 FOR RETAINING WALL 15, 16, 17, AND 20 PROFILES.
3. RETAINING WALL TYPES AB1 AND AB2 AS APPLIES. SEE SHEETS S-D01 AND S-D02.
4. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
7. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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SANTA CLARA, CA 95050
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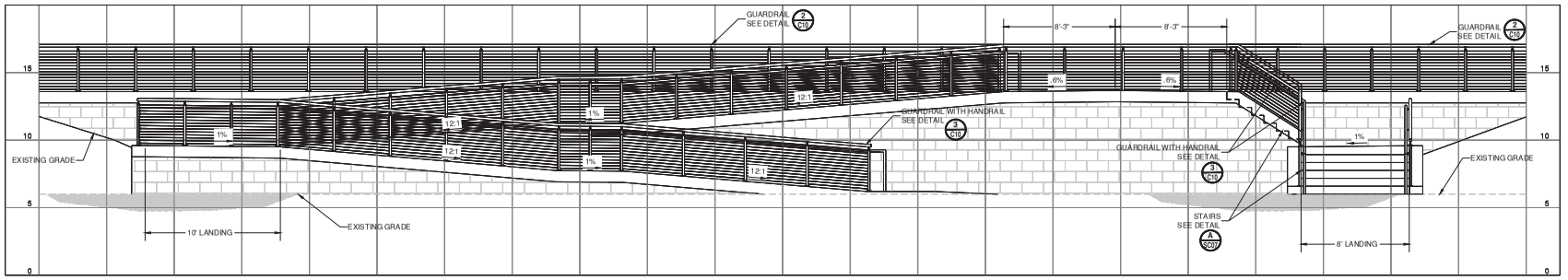
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 144+75

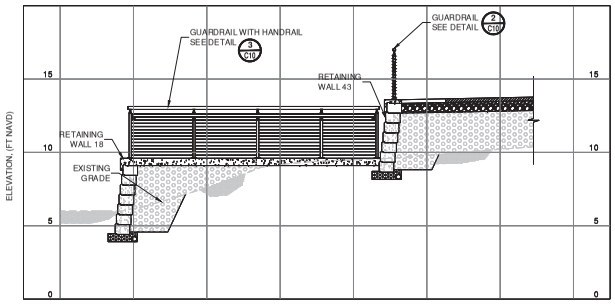
SHEET
AP19
SHEET 143 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOco\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_15-21_Conform\ACCESS_POINT_XS_15-21_Conform.dwg



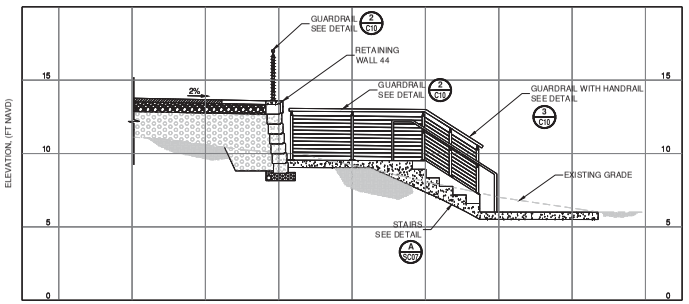
ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



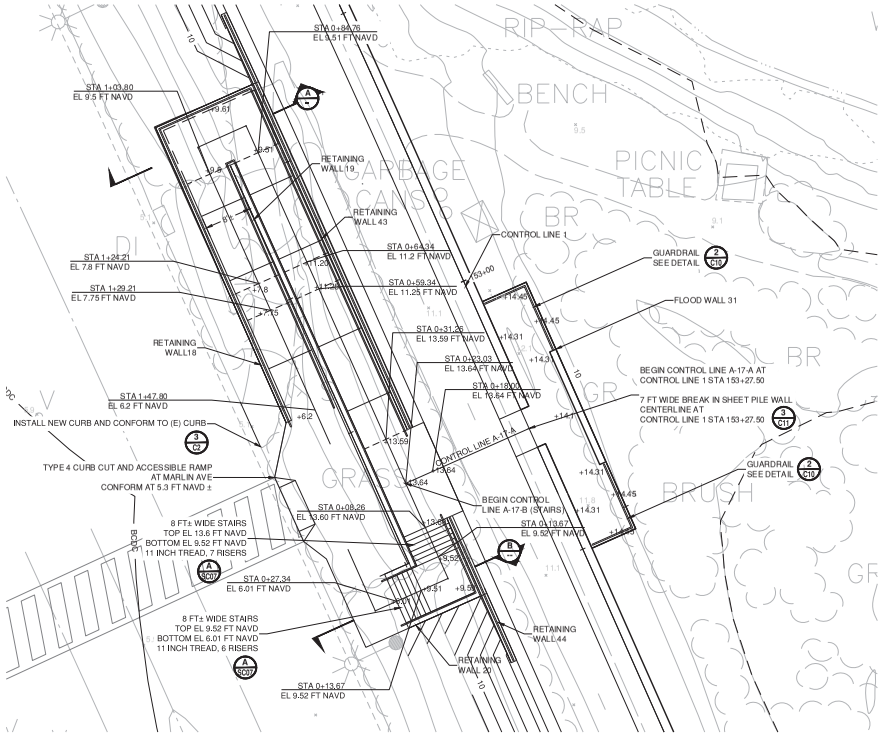
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION B

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-17-A AND A-17-B LAYOUT.
2. SEE SHEET FW 04 FOR FLOODWALL 31 PROFILE.
3. SEE SHEET S-C16 FOR FLOODWALL 31 DETAILS.
4. SEE SHEET RW 03 FOR RETAINING WALL 18, 19, AND 20 PROFILES.
5. SEE SHEET RW 06 FOR RETAINING WALL 43 AND 44 PROFILES.
6. RETAINING WALL TYPES AB1, AB2, AND AB3 AS APPLIES. SEE SHEETS S-D01, S-D02, AND S-D03.
7. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
8. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
9. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
10. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_15-21_Conform\ACCESS_POINT_XS_15-21_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

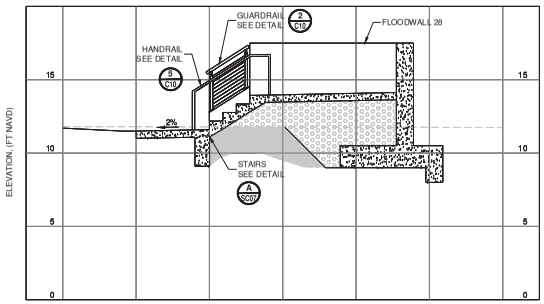
NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

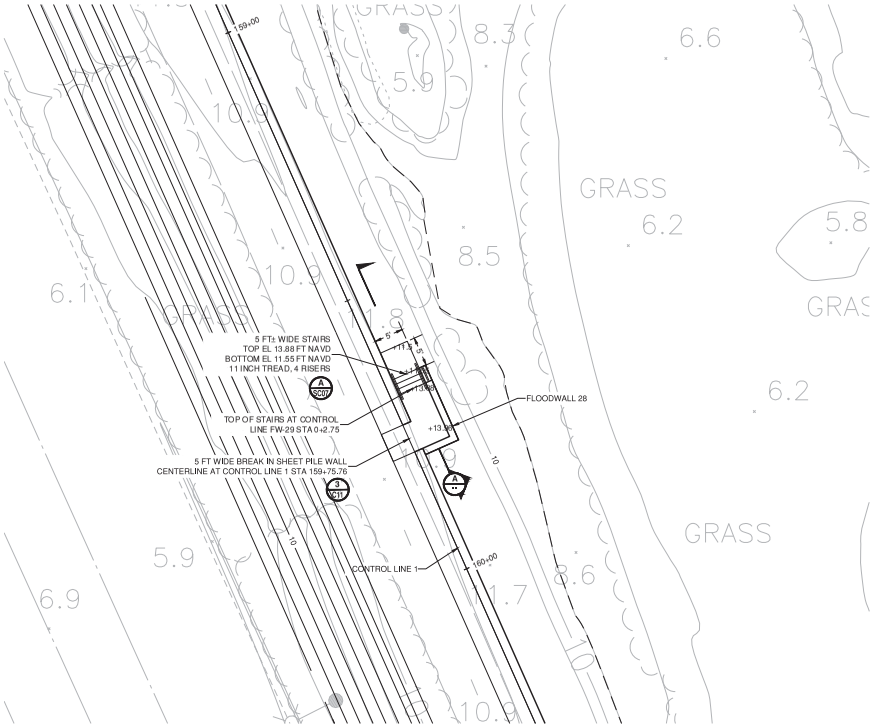
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS RAMP AND STAIRS, AND SHORELINE VIEWING PLATFORM AT STA 153+28

SHEET
AP20
SHEET 144 OF 384
CIP PROJ. NUMBER
CIP 301-657



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-45 AND A-46 LAYOUT.
2. SEE SHEET FW FOR FLOODWALL 28 PROFILE.
3. SEE SHEET S-C06 FOR FLOODWALL 28 DETAILS.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
7. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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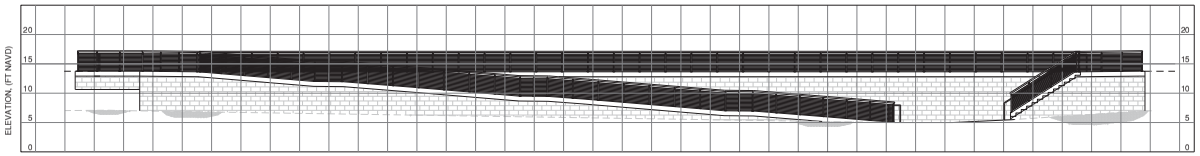
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS STAIRS AT 159+76

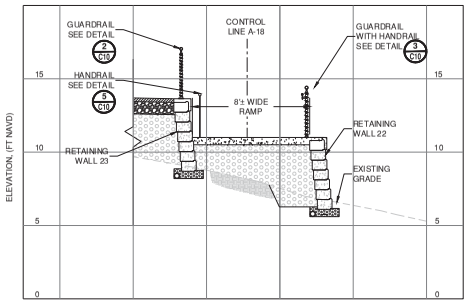
SHEET
AP21
SHEET 145 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_15-21_Conform\ACCESS_POINT_XS_15-21_Conform.dwg



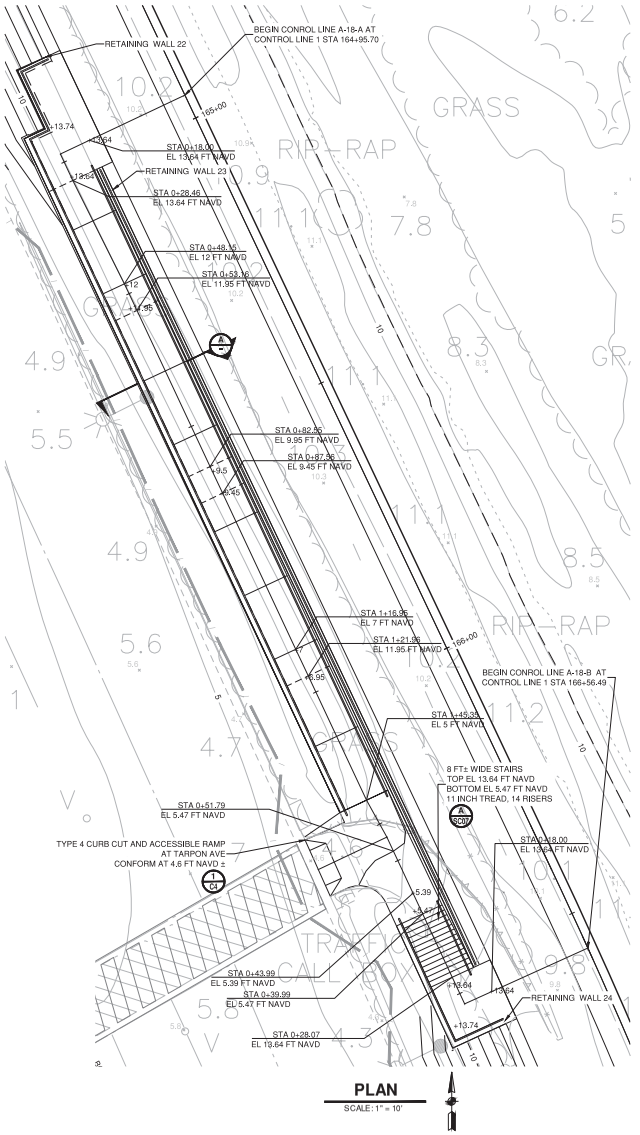
ELEVATION

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-18-A AND A-18-B LAYOUT.
2. SEE SHEET RW 03 FOR RETAINING WALL 22 PROFILE. SEE SHEET RW 04 FOR RETAINING WALL 23 AND 24 PROFILES.
3. RETAINING WALL TYPES AB1 AND AB2 AS APPLIES. SEE SHEETS S-D01 AND S-D02.
4. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
7. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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CITY OF FOSTER CITY
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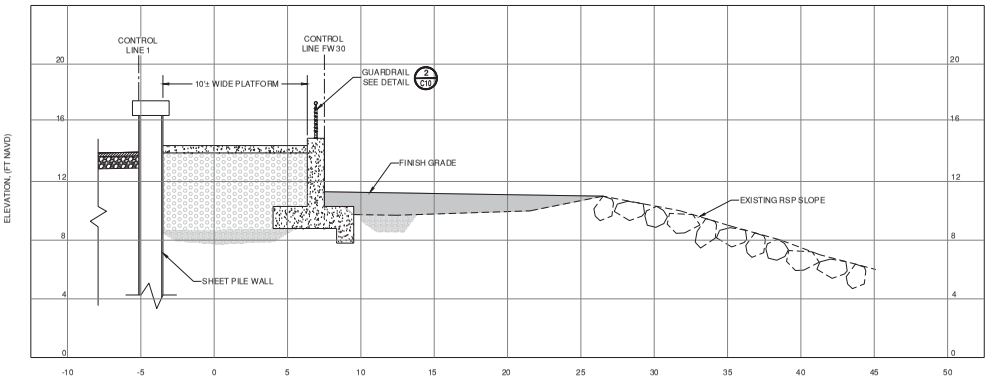
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS RAMP AT STA 164+96 AND TRAIL ACCESS STAIRS AT STA 166+56

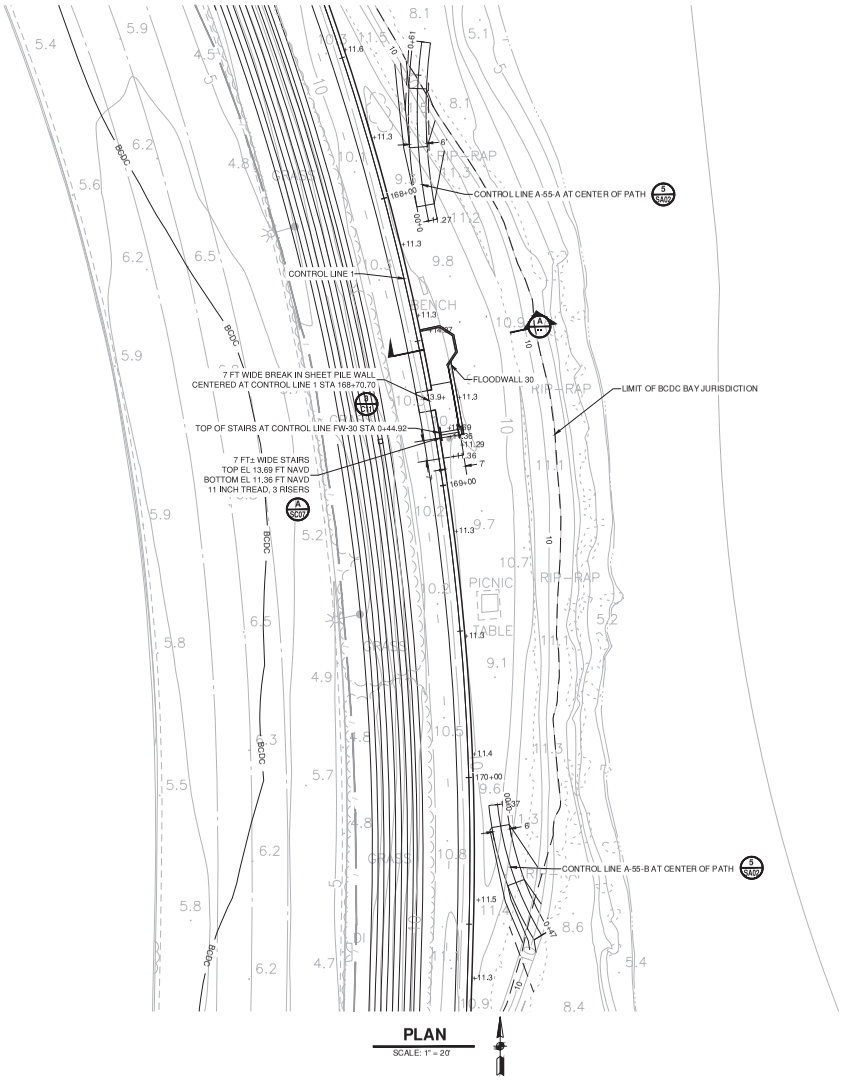
SHEET
AP22
SHEET 146 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOco\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_22-28_Conform\ACCESS_POINT_XS_22-28_Conform.dwg



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 20'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-45 AND A-46 LAYOUT.
2. SEE SHEET FW 04 FOR FLOODWALL 30 PROFILE.
3. SEE SHEETS S-C05 FOR FLOODWALL 30 DETAILS.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
7. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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CONSULTING CIVIL ENGINEERS
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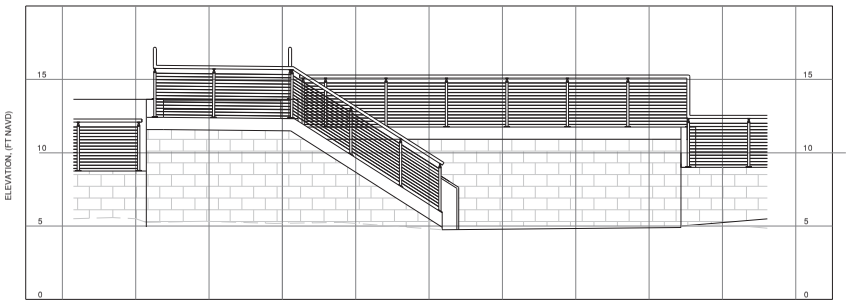
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS STAIRS AND VIEWING PLATFORM AT STA 168+75

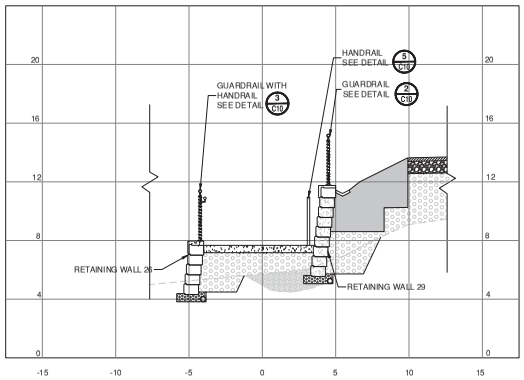
SHEET
AP23
SHEET 147 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_22-28_Conform\ACCESS_POINT_XS_22-28_Conform.dwg



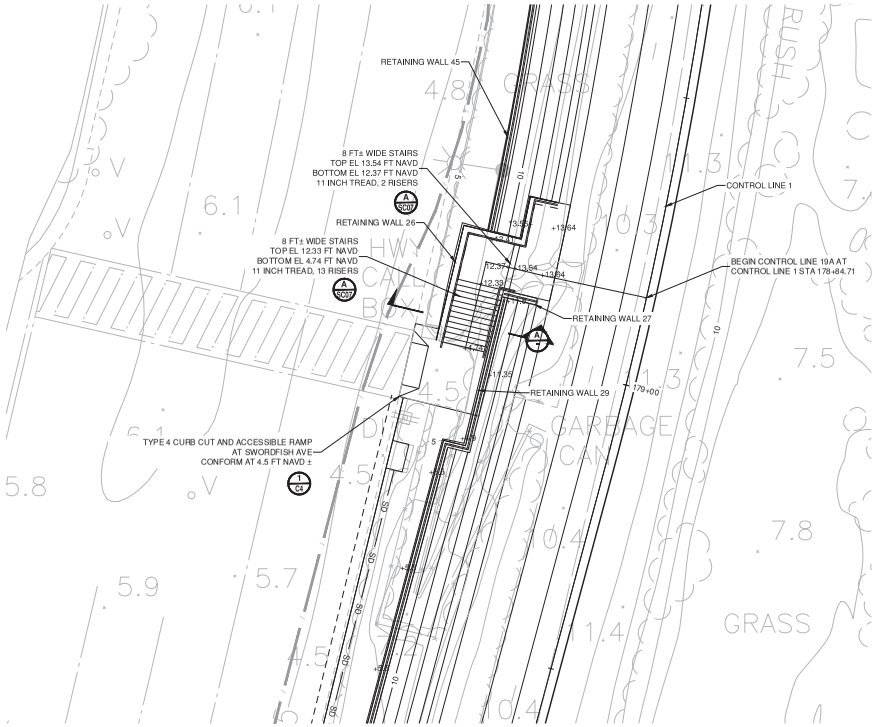
ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION A

HOR. SCALE: 1' = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-19 LAYOUT.
2. SEE SHEET RW 04 FOR RETAINING WALL 26, 27, AND 29 PROFILES. SEE SHEET RW 06 FOR RETAINING WALL 45 PROFILE.
3. RETAINING WALL TYPES AB1, AB2, AND AB4 AS APPLIES. SEE SHEETS S-D01, S-D02, AND S-D04.
4. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
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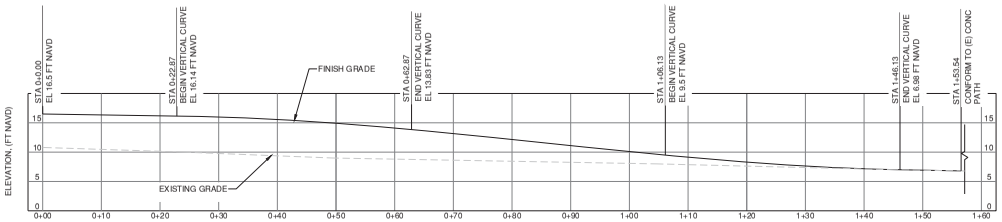
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 178+85

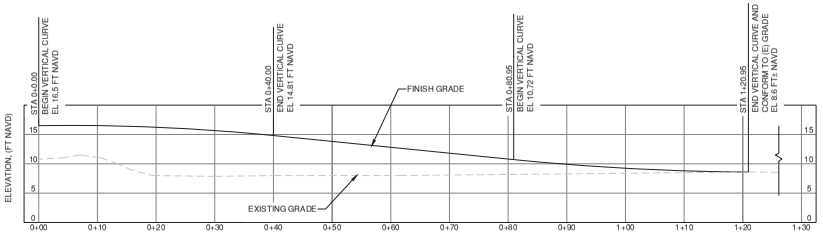
SHEET
AP24
SHEET 148 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_22-28_Conform\ACCESS_POINT_XS_22-28_Conform.dwg



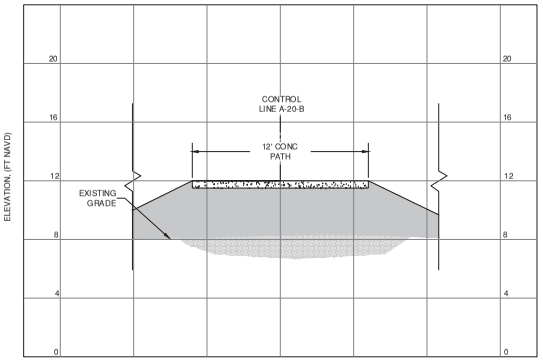
PROFILE AT CONTROL LINE A-20-B

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



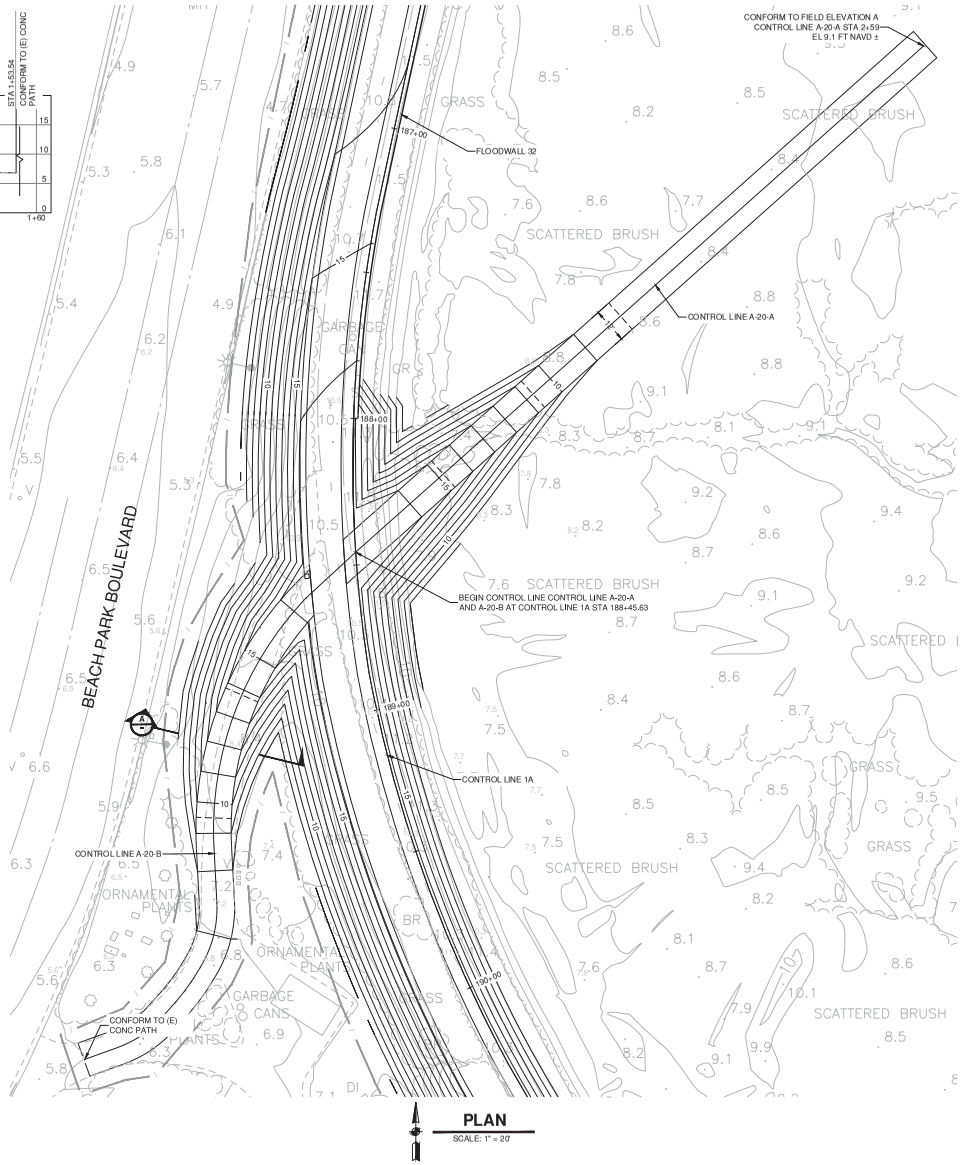
PROFILE AT CONTROL LINE A-20-A

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 20'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SC) FOR CONTROL LINE A-20-A AND A-20-B LAYOUT.
2. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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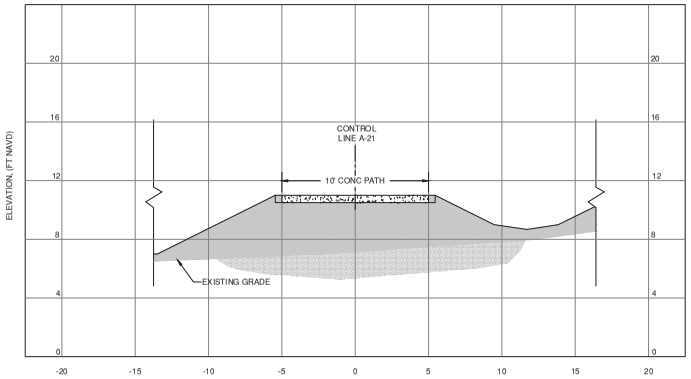
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL AND SHORELINE ACCESS RAMPS AT STA 188+46

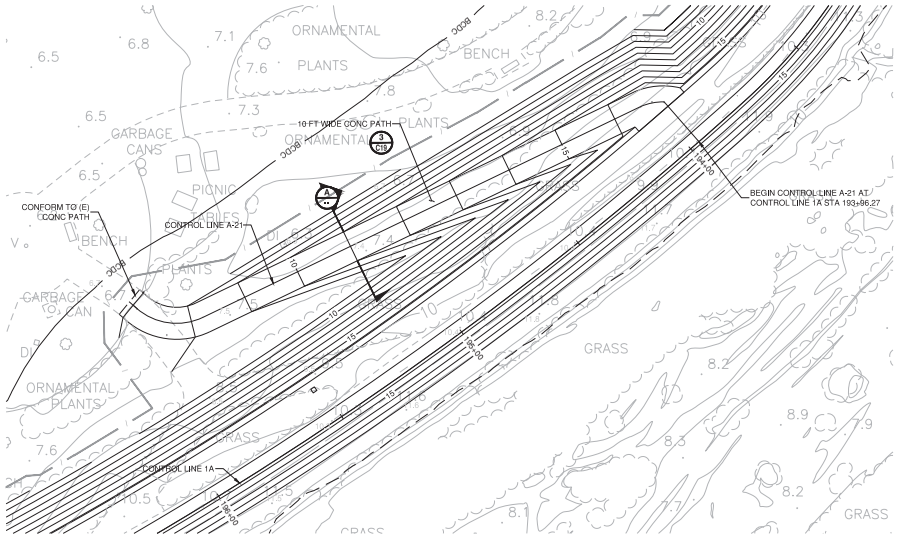
SHEET
AP25
SHEET 149 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_22-28_Conform\ACCESS_POINT_XS_22-28_Conform.dwg



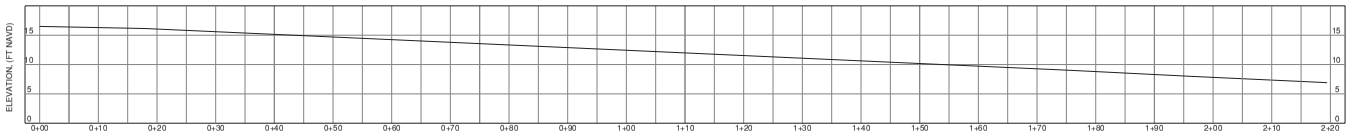
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 20'



PROFILE ALONG CONTROL LINE A-21

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-21 LAYOUT.
2. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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Schaaf & Wheeler
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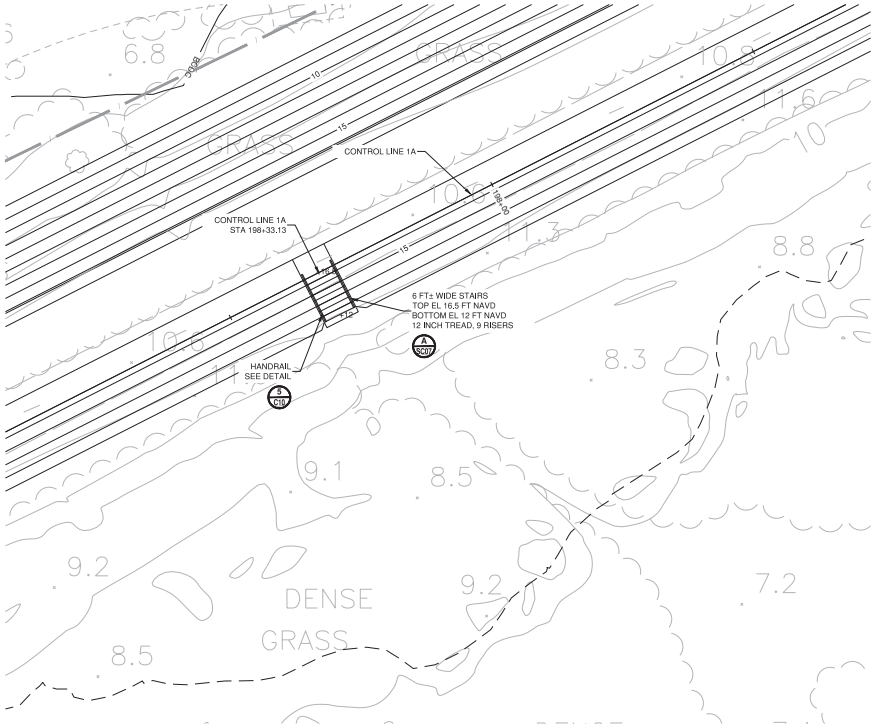
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS AT STA 193+96

SHEET
AP26
SHEET 150 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_22-28_Conform\ACCESS_POINT_XS_22-28_Conform.dwg



PLAN
SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-45 AND A-46 LAYOUT.
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
5. STAIRS SHALL MEET BUILDING CODE REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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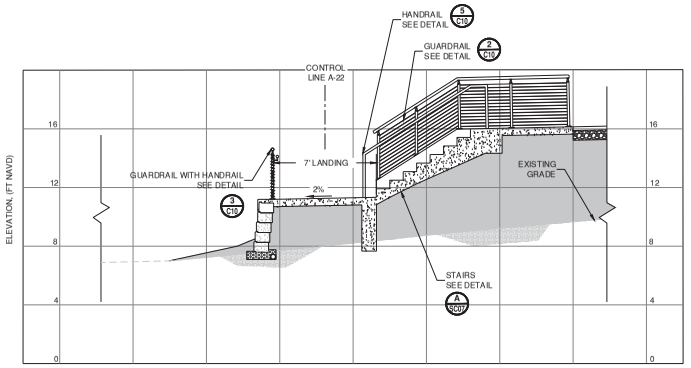
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SHORELINE ACCESS STAIRS AT STA 198+33

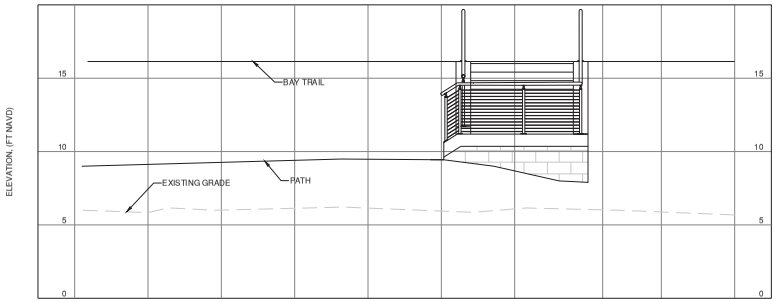
SHEET
AP27
SHEET 151 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_22-28_Conform\ACCESS_POINT_XS_22-28_Conform.dwg



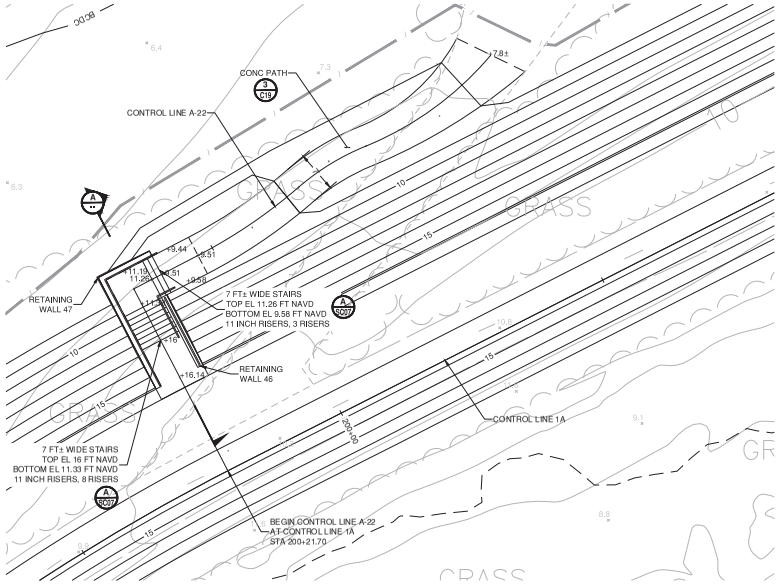
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-22 LAYOUT.
2. SEE SHEET RW 06 FOR RETAINING WALL 46 AND 47 PROFILES.
3. RETAINING WALL TYPES AB1 AND AB2 AS APPLIES. SEE SHEETS S-D01 AND S-D02.
4. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

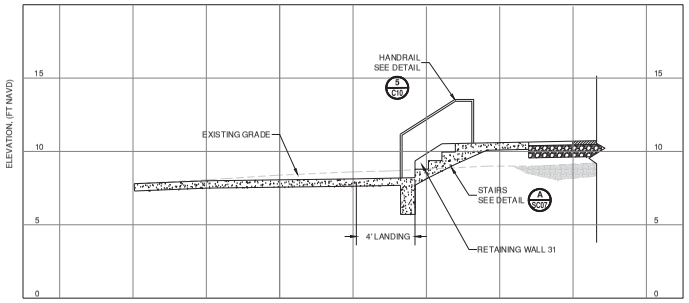
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 200+22

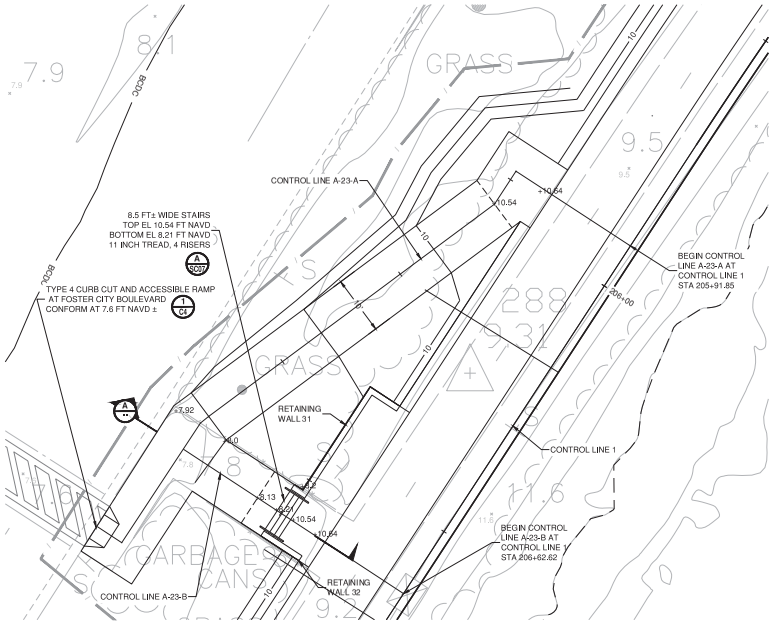
SHEET
AP28
SHEET 152 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_22-28_Conform\ACCESS_POINT_XS_22-28_Conform.dwg



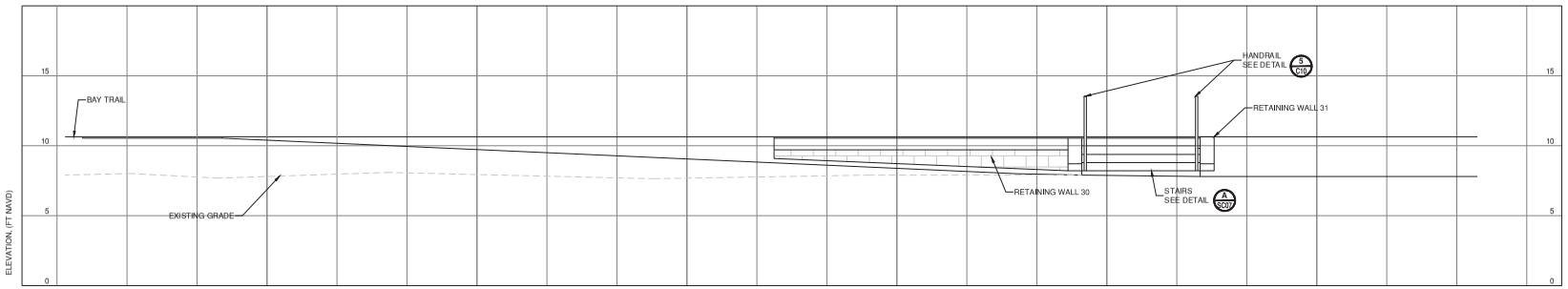
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'



ELEVATION

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-23-A AND A-23-B LAYOUT.
2. SEE SHEET RW05 FOR RETAINING WALL 30 AND 31 PROFILES.
3. RETAINING WALL TYPE AB1 AS APPLIES. SEE SHEET S-D01.
4. SEE LANDSCAPING SHEETS FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
7. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

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610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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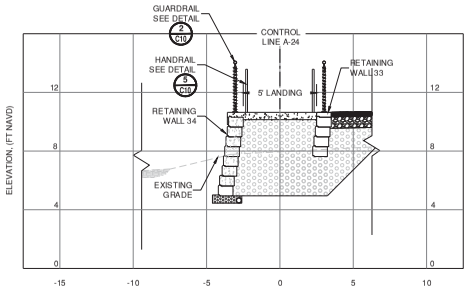
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS PATH AT STA 205+92 AND TRAIL ACCESS STAIRS AT STA 206+63

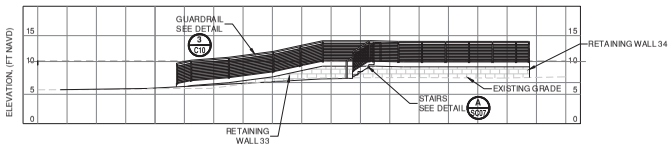
SHEET
AP29
SHEET 153 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_29-35_Conform\ACCESS_POINT_XS_29-35_Conform.dwg



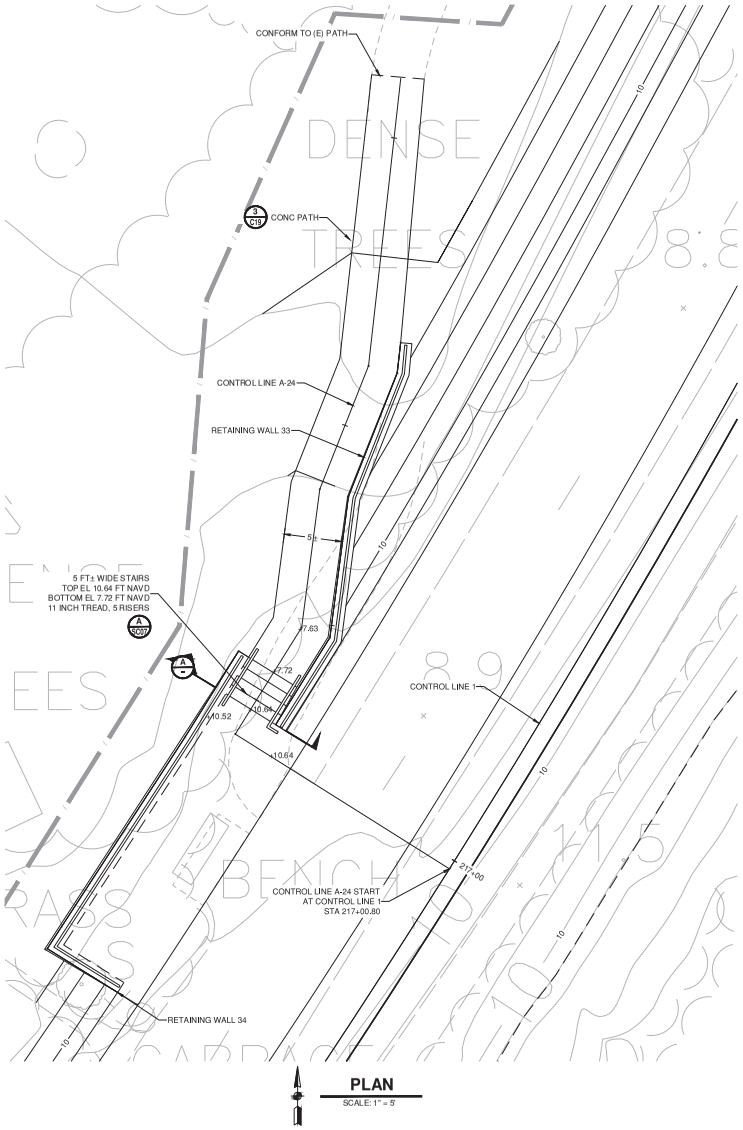
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



ELEVATION FROM BEACH PARK BOULEVARD

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



PLAN

SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-24 LAYOUT.
2. SEE SHEET RW 05 FOR RETAINING WALL 33 AND 34 PROFILES.
3. RETAINING WALL TYPE AB1 AS APPLIES. SEE SHEET S-D01.
4. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
5. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
6. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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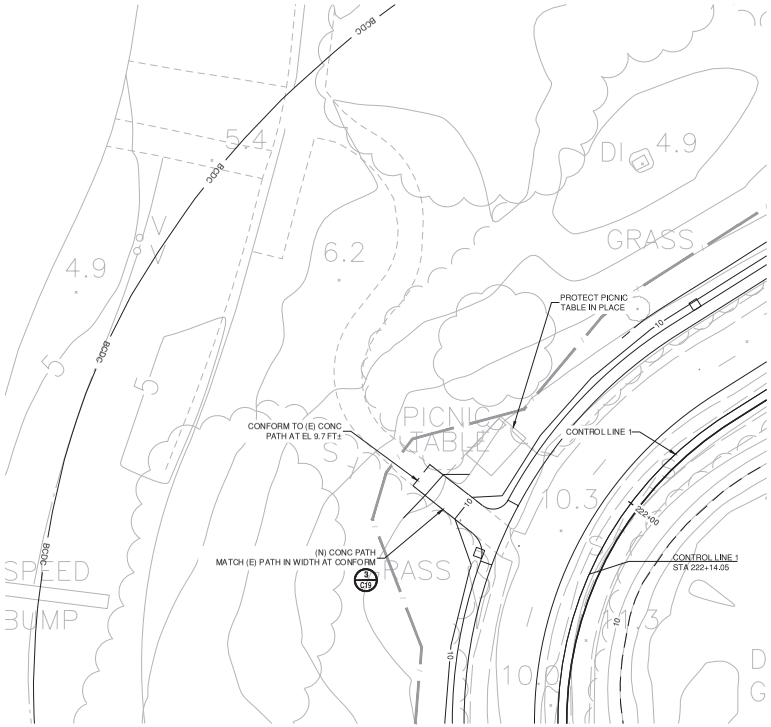
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

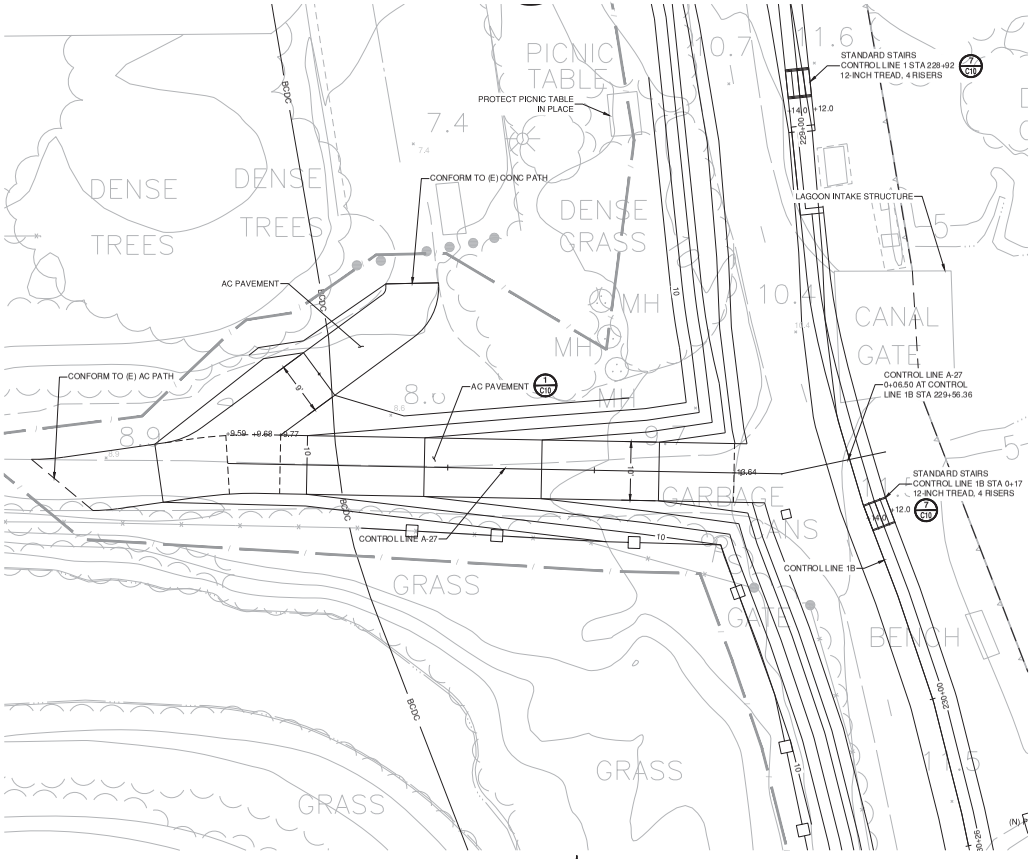
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 217+01

SHEET
AP30
SHEET 154 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_29-35_Conform\ACCESS_POINT_XS_29-35_Conform.dwg



PLAN
SCALE: 1" = 10'



PLAN
SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SC) FOR CONTROL LINE A-27 LAYOUT.
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_29+35_Conform\ACCESS_POINT_XS_29+35_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

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CONSULTING CIVIL ENGINEERS
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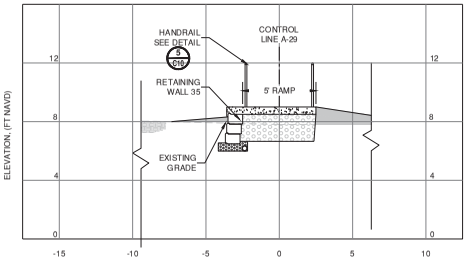
SANTA CLARA, CA 95050
(408) 246-4848

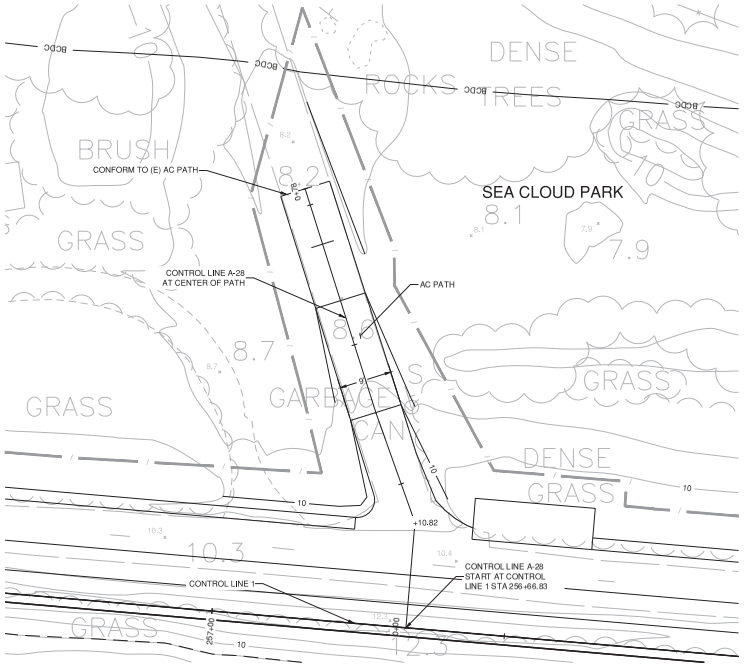
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS PATHS AT STA 222+14 AND STA 229+56

SHEET
AP31
SHEET 155 OF 384
CIP PROJ. NUMBER
CIP 301-657



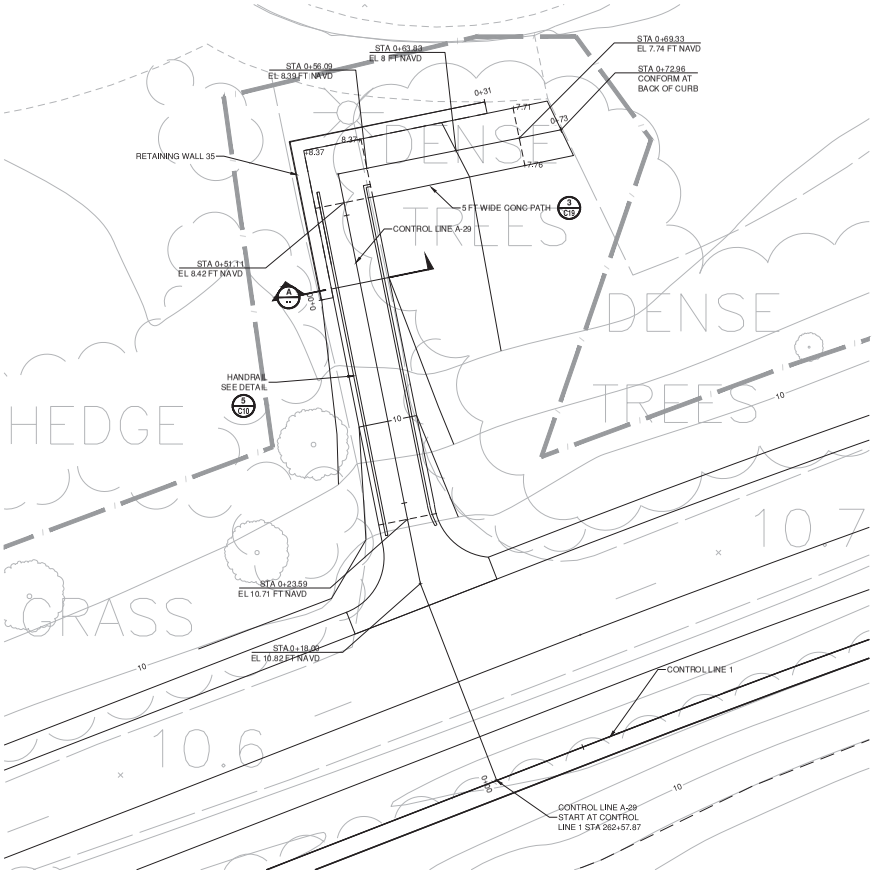
CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 10'



PLAN

SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SC) FOR CONTROL LINE A-28 AND A-29 LAYOUTS.
2. SEE SHEET RW 05 FOR RETAINING WALL 35 PROFILE.
3. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
4. POINT ELEVATIONS AND STATION GOVERN DESIGN.
5. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

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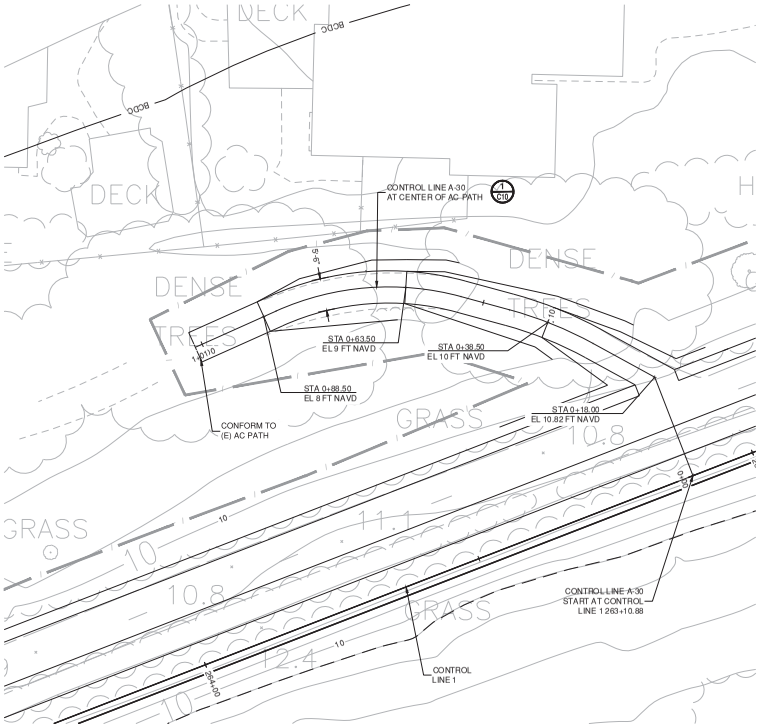
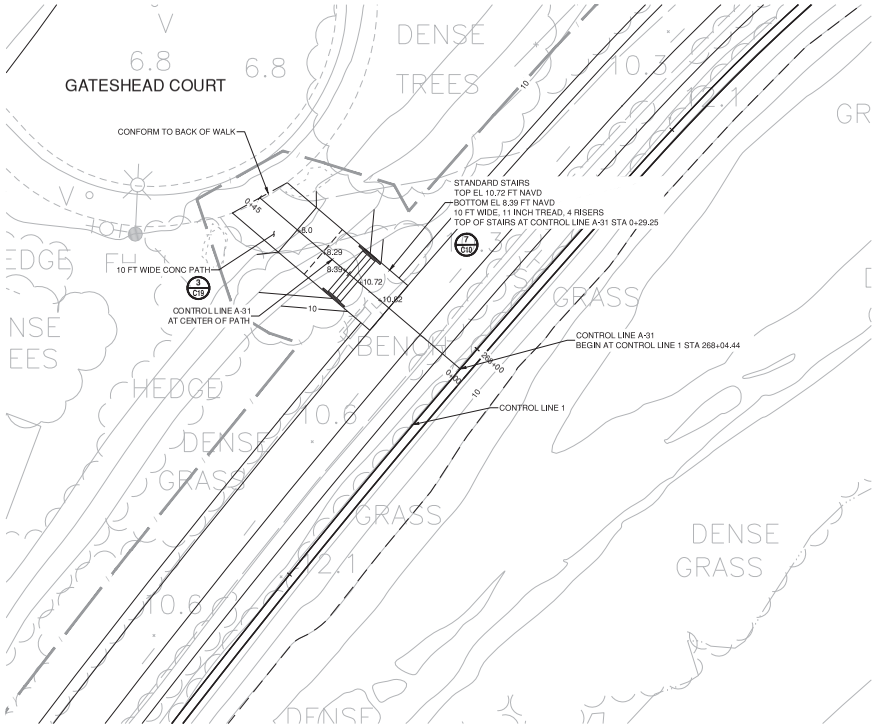
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS PATH AT STA 256+67 AND TRAIL ACCESS RAMP AT STA 262+58

SHEET
AP32
SHEET 156 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans_CDA\AP Sheets\ACCESS_POINT_XS_29-35_Conform\ACCESS_POINT_XS_29-35_Conform.dwg





SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-30 AND A-31 LAYOUTS.
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
5. STAIRS SHALL MEET ALL BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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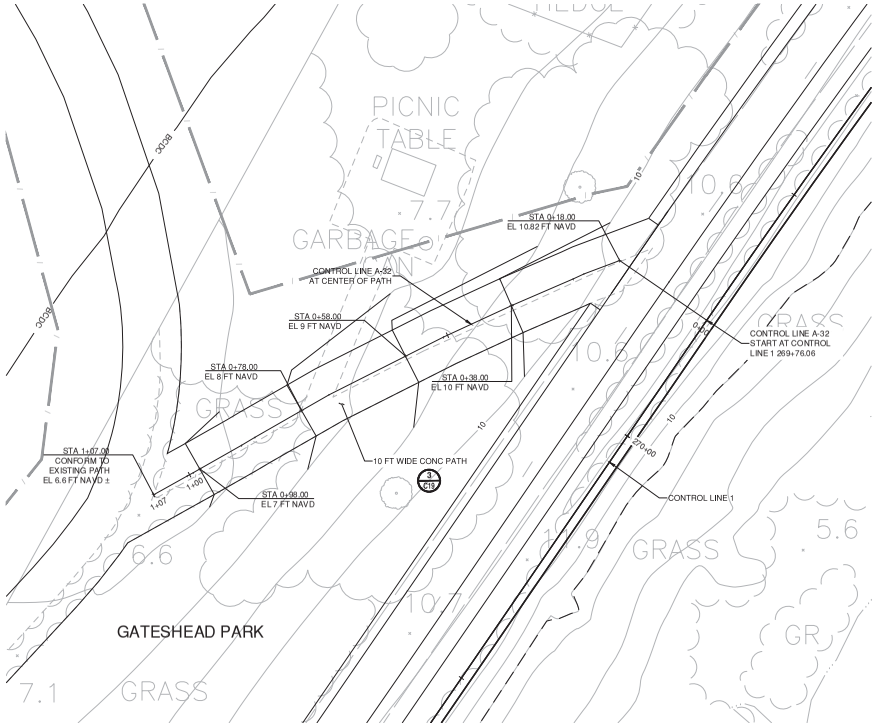
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

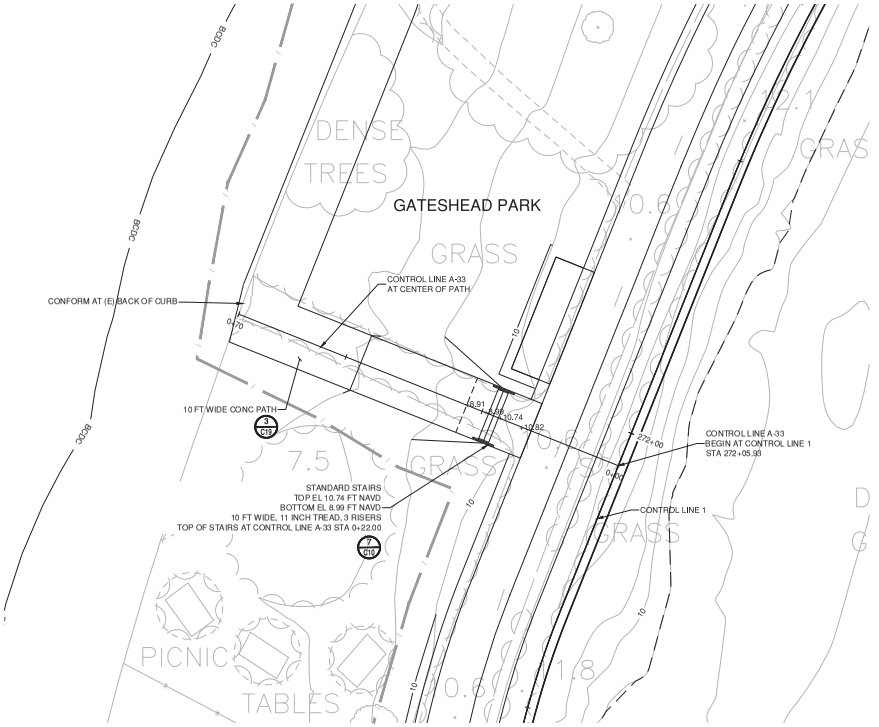
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS PATH AT STA 263+11 AND TRAIL ACCESS STAIRS AT STA 268+04

SHEET
AP33
SHEET 157 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_29-35_Conform\ACCESS_POINT_XS_29-35_Conform.dwg



PLAN
SCALE: 1" = 10'



PLAN
SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SC) FOR CONTROL LINE A-32 AND A-33 LAYOUTS.
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
5. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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SANTA CLARA, CA 95050
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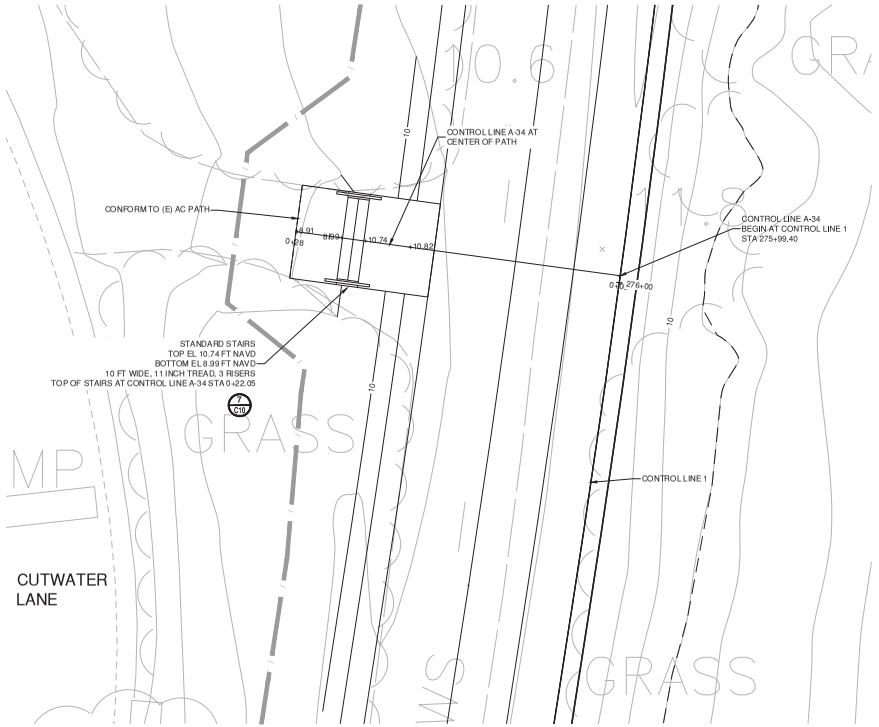
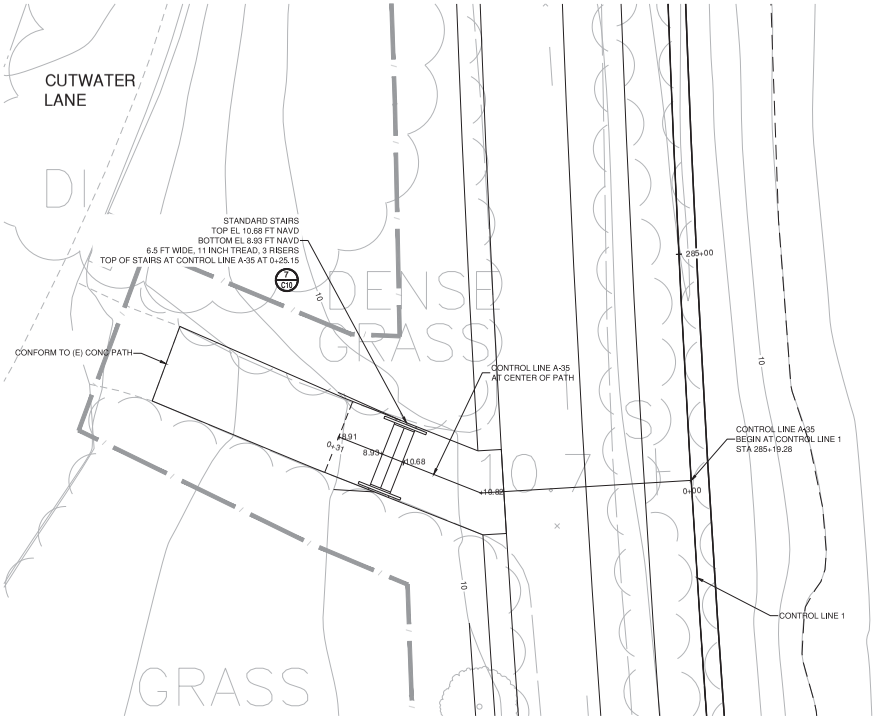
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS PATH AT STA 269+76 AND TRAIL ACCESS STAIRS AT STA 272+06

SHEET
AP34
SHEET 158 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_29-35_Conform\ACCESS_POINT_XS_29-35_Conform.dwg



PLAN
SCALE: 1" = 5'



PLAN
SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-34 AND A-35 LAYOUTS.
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
5. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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SANTA CLARA, CA 95050
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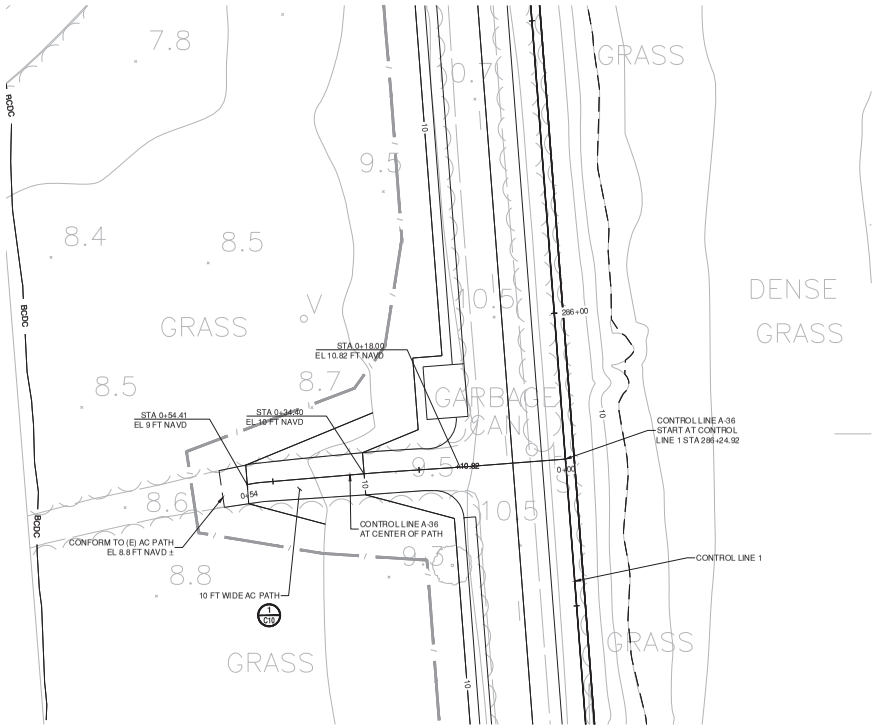
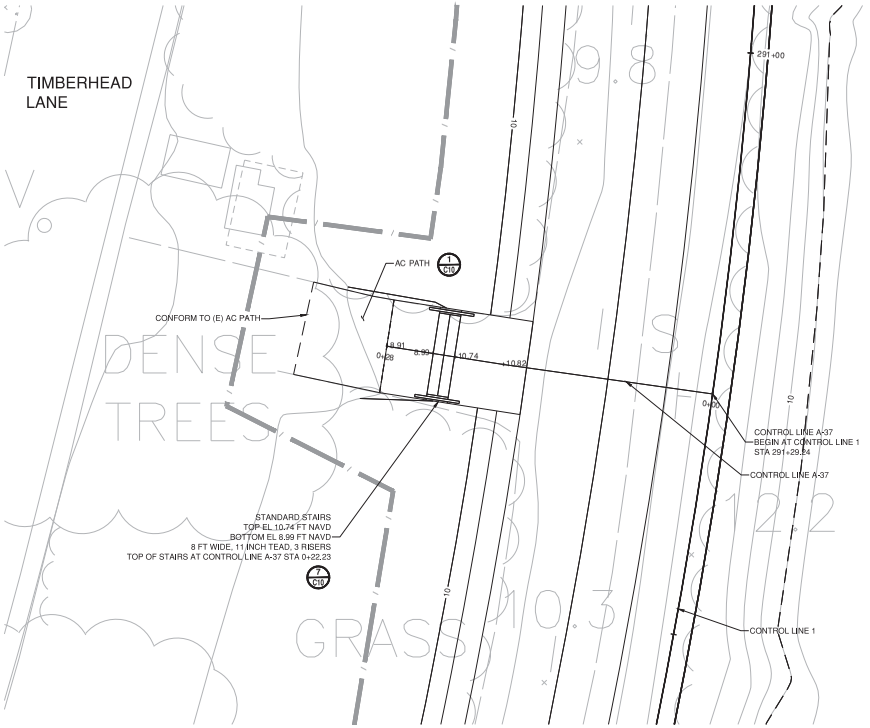
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 275+99 AND STA 285+19

SHEET
AP35
SHEET 159 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_29-35_Conform\ACCESS_POINT_XS_29-35_Conform.dwg



PLAN
SCALE: 1" = 10'



PLAN
SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-36 AND A-37 LAYOUT.
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
5. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
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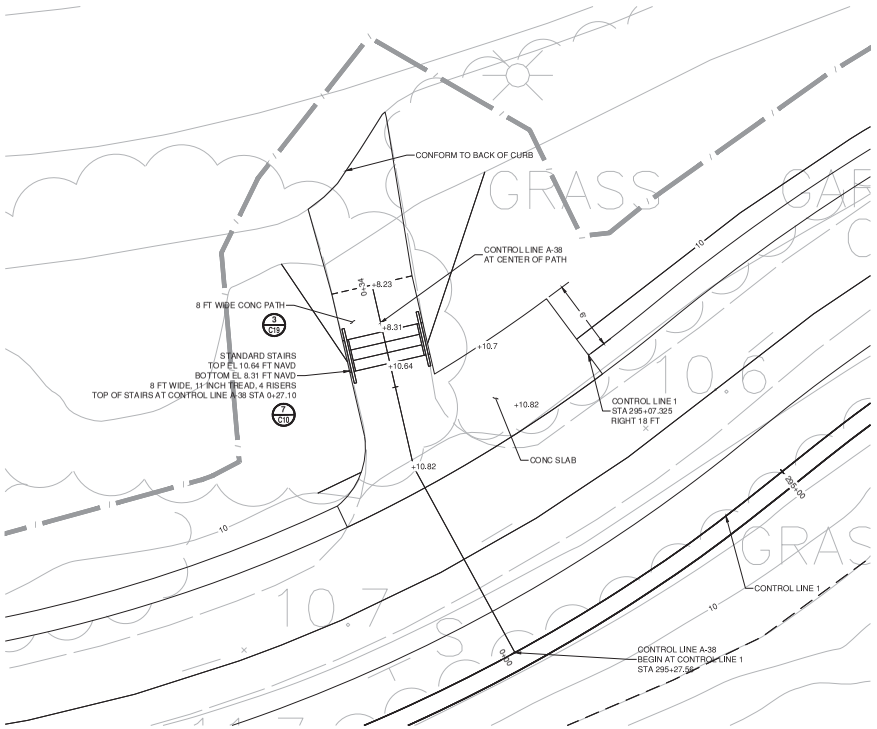
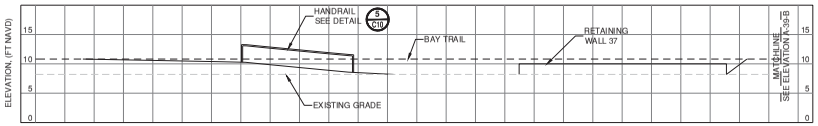
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS PATH AT STA 286+25 AND TRAIL ACCESS STAIRS AT STA 291+29

SHEET
AP36
SHEET 160 OF 384
CIP PROJ. NUMBER
CIP 301-657

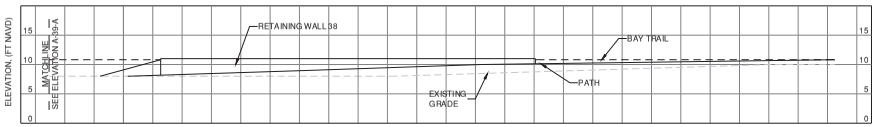
PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_36-42_Conform\ACCESS_POINT_XS_36-42_Conform.dwg


CONFORM TO BACK OF CURB
CONTROL LINE A-38
AT CENTER OF PATH
8 FT WIDE CONC PATH
3
C12
STANDARD STAIRS
TOP EL 10.64 FT NAVD
BOTTOM EL 8.31 FT NAVD
8 FT WIDE, 11 INCH TREAD, 4 RISERS
TOP OF STAIRS AT CONTROL LINE A-38 STA 0+27.10
7
C10
+8.23
+8.31
+10.64
+10.7
+10.82
+10.82
CONTROL LINE 1
STA 295+07.325
RIGHT 18 FT
CONC SLAB
CONTROL LINE 1
CONTROL LINE A-38
BEGIN AT CONTROL LINE 1
STA 295+27.50
GRASS
10
6
6
6



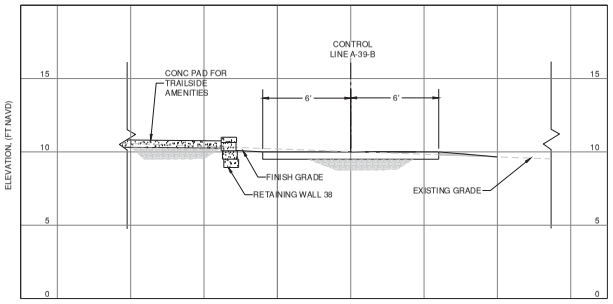
ELEVATION: CONTROL LINE A-39-A

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



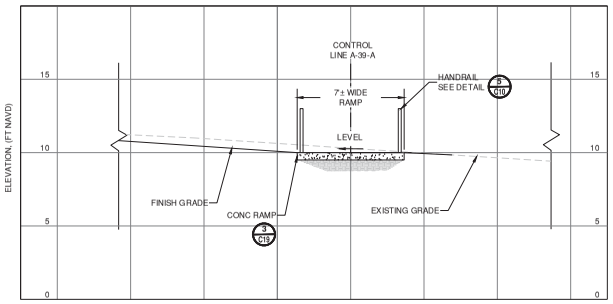
ELEVATION: CONTROL LINE A-39-B

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



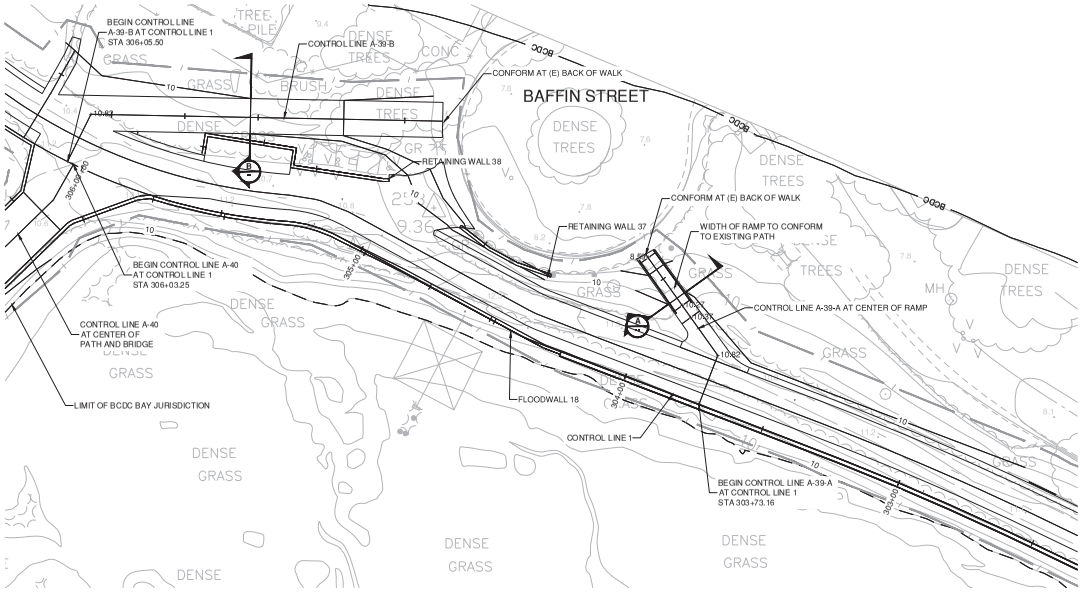
CROSS SECTION B

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 20'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-39 LAYOUT.
2. SEE SPG SHEETS FOR FLOODWALL 18 PROFILE.
3. SEE SHEET RW 05 FOR RETAINING WALL 37 AND 38 PROFILES.
4. RETAINING WALL TYPE AB1 AS APPLIES. SEE SHEET S-D01.
5. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
6. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
7. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

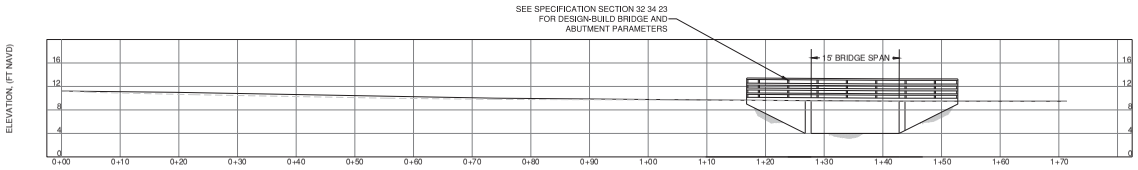
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS RAMP AT STA 303+73 AND TRAIL ACCESS PATH AT STA 306+06

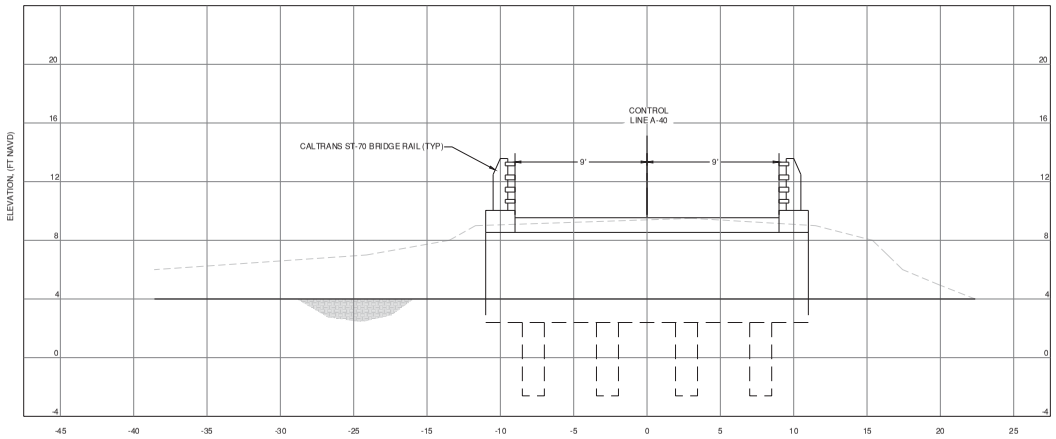
SHEET
AP38
SHEET 162 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOco\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_36-42_Conform\ACCESS_POINT_XS_36-42_Conform.dwg



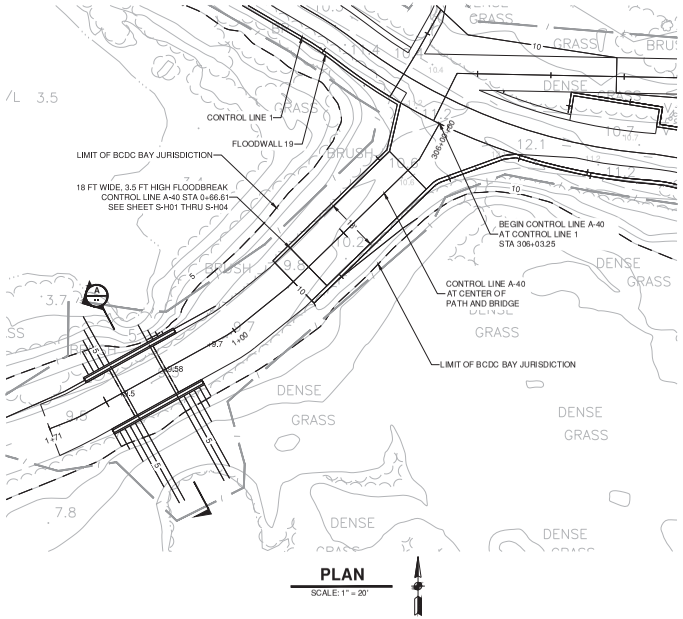
PROFILE AT CONTROL LINE A-40

HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'



CROSS SECTION A

HOR. SCALE: 1" = 4'
VERT. SCALE: 1" = 4'



PLAN

SCALE: 1" = 20'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-40 LAYOUT.
2. SEE SPG SHEETS FOR FLOODWALL 18 AND 19 PROFILES.
3. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
4. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
5. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
6. SEE SPECIFICATION SECTION 10 71 19 FOR FLOOD BREAK REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

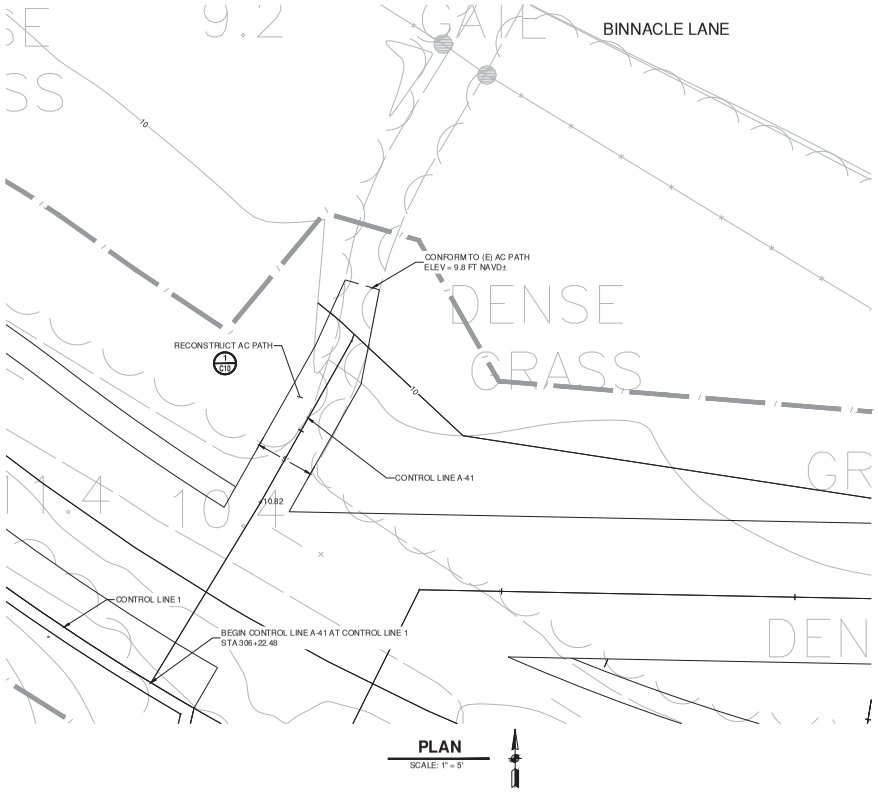
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

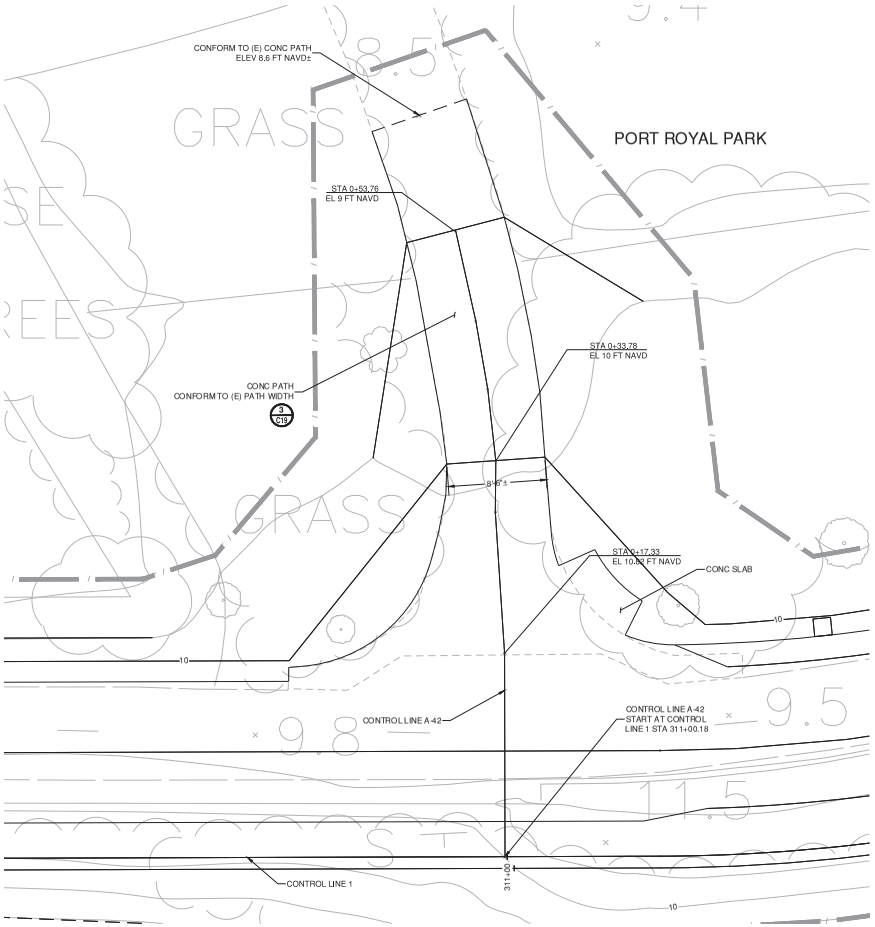
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
ACCESS ROAD AT STA 306+03

SHEET
AP39
SHEET 163 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_36-42_Conform\ACCESS_POINT_XS_36-42_Conform.dwg



PLAN
SCALE: 1" = 5'



PLAN
SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-41 AND A-42 LAYOUTS.
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

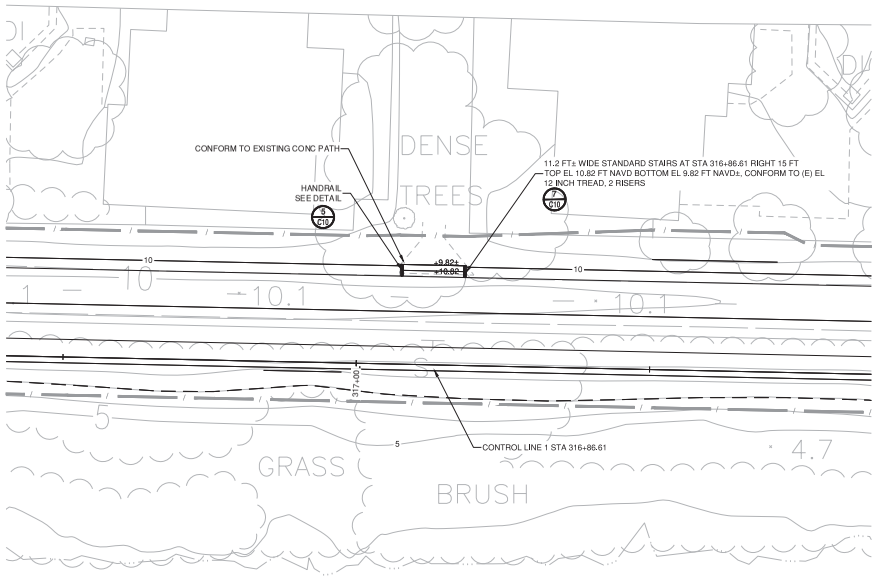
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

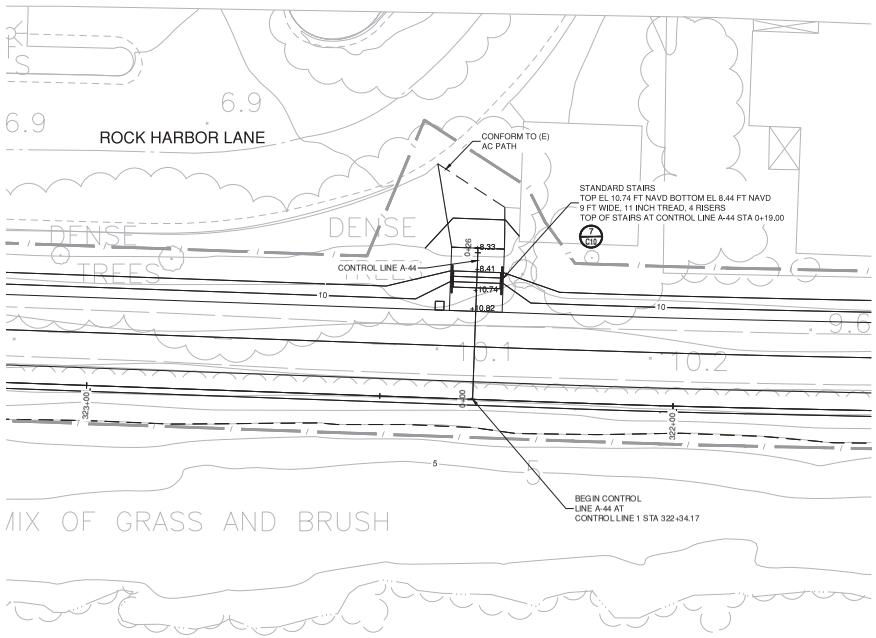
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS PATHS AT STA 306+22 AND STA 311+00

SHEET
AP40
SHEET 164 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_36-42_Conform\ACCESS_POINT_XS_36-42_Conform.dwg



PLAN
SCALE: 1" = 10'



PLAN
SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-44 LAYOUT.
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
5. STAIRS SHALL MEET BUILDING CODE REQUIREMENTS. STAIRS AT STA 322+34 SHALL ALSO MEET ADA REQUIREMENTS.

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_36-42_Conform\ACCESS_POINT_XS_36-42_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

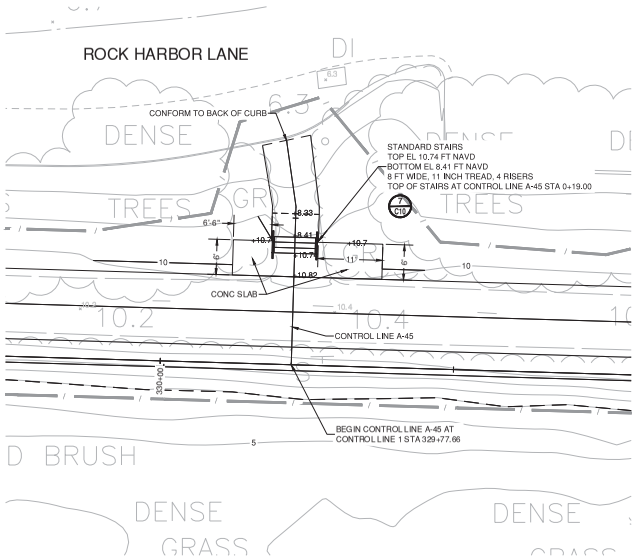
NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

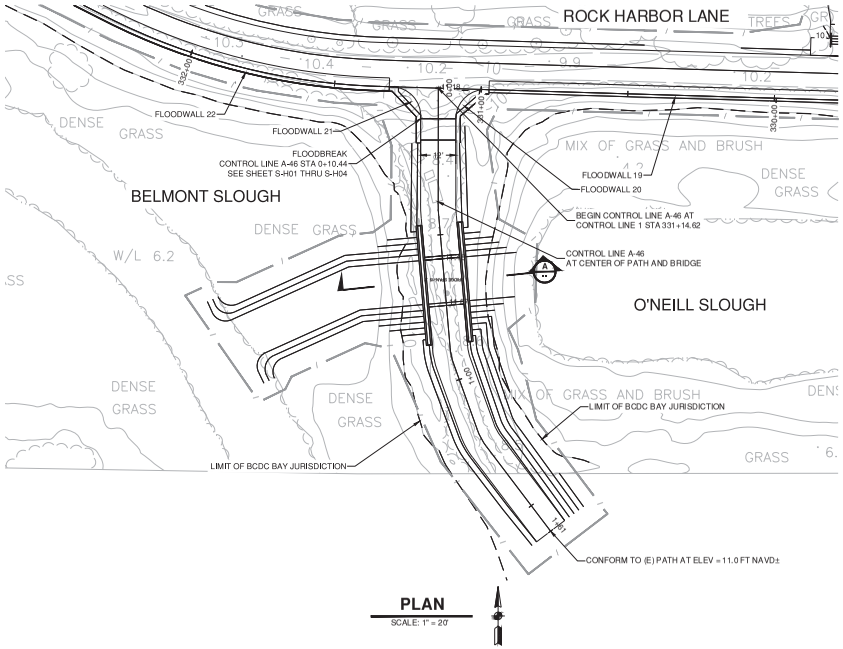
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 316+87 AND AT STA 322+34

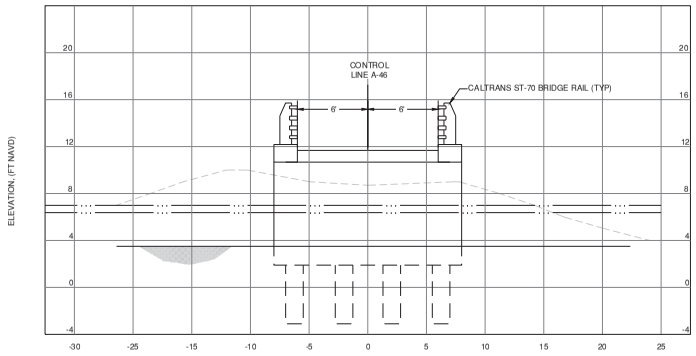
SHEET
AP41
SHEET 165 OF 384
CIP PROJ. NUMBER
CIP 301-657



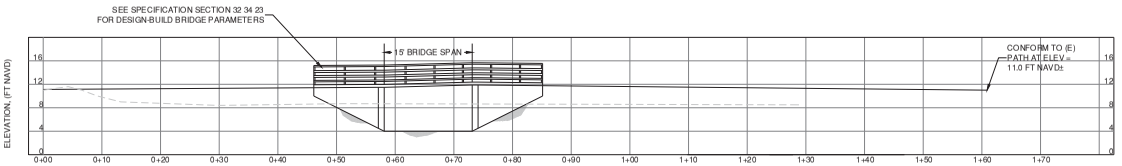
PLAN
SCALE: 1" = 10'



PLAN
SCALE: 1" = 20'



CROSS SECTION A --
HOR. SCALE: 1" = 5'
VERT. SCALE: 1" = 5'



PROFILE/ELEVATION AT CONTROL LINE A-46
HOR. SCALE: 1" = 10'
VERT. SCALE: 1" = 10'

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-45 AND A-46 LAYOUT.
2. SEE SPG SHEETS FOR FLOODWALL 19 AND 22 PROFILES.
3. SEE SHEET FW 03 FOR FLOODWALL 20 AND 21 PROFILES.
4. SEE SHEET S-C12 FOR FLOODWALL 20 AND 21 DETAILS.
5. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
6. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
7. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
8. STAIRS SHALL MEET BUILDING CODE AND ADA REQUIREMENTS.
9. SEE SPECIFICATION SECTION 10 71 19 FOR FLOOD BREAK REQUIREMENTS.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADca\Desktop\Conform Plans_CDA\AP Sheets\ACCESS_POINT_XS_36-42_Conform\ACCESS_POINT_XS_36-42_Conform.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

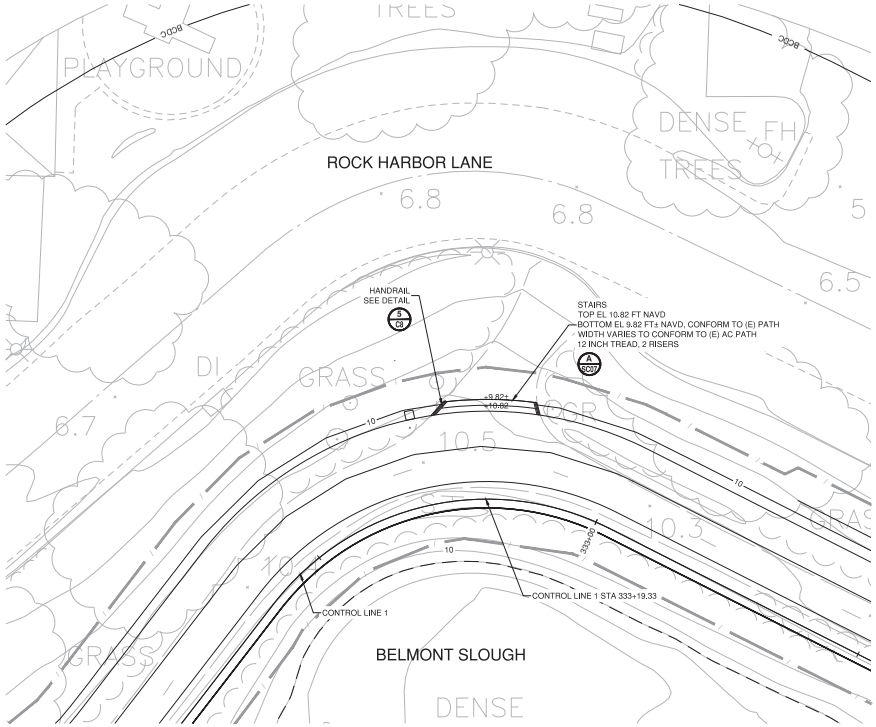
NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 329+78 AND O'NEILL SLOUGH TRAIL ACCESS AT STA 331+15

SHEET
AP42
SHEET 166 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLAN
SCALE: 1" = 10'



PLAN
SCALE: 1" = 10'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTES:

1. SEE SURVEY CONTROL, LAYOUT, AND R.O.W. SHEETS (SCL) FOR CONTROL LINE A-45 AND A-46 LAYOUT
2. SEE LANDSCAPING SHEETS (L) FOR AMENITY DETAILS.
3. POINT ELEVATIONS AND DISTANCES GOVERN DESIGN.
4. DIMENSIONS ARE NOMINAL. FIELD CONDITIONS GOVERN.
5. STAIRS SHALL MEET BUILDING CODE REQUIREMENTS.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: MER
PROJECT NUMBER: FOST.12.16
DESIGNED BY: MER
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

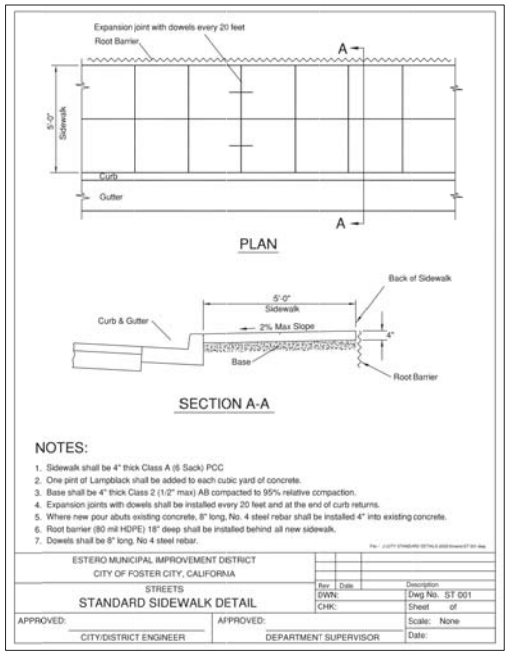
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TRAIL ACCESS STAIRS AT STA 333+19 AND TRAIL ACCESS PATH AT STA 341+87

SHEET
AP43
SHEET 167 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOcon\Desktop\Conform Plans CDA\AP Sheets\ACCESS_POINT_XS_43_Conform\ACCESS_POINT_XS_43_Conform.dwg



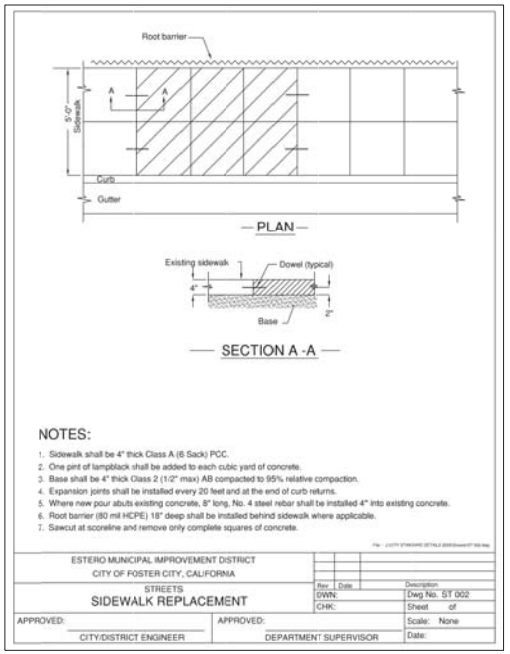
NOTES:

1. Sidewalk shall be 4" thick Class A (6 Sack) PCC
2. One pint of Lampblack shall be added to each cubic yard of concrete.
3. Base shall be 4" thick Class 2 (1/2" max) AB compacted to 95% relative compaction.
4. Expansion joints with dowels shall be installed every 20 feet and at the end of curb returns.
5. Where new pour abuts existing concrete, 8" long, No. 4 steel rebar shall be installed 4" into existing concrete.
6. Root barrier (80 mil HDPE) 18" deep shall be installed behind all new sidewalk.
7. Dowels shall be 8" long, No 4 steel rebar.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA			
STREETS STANDARD SIDEWALK DETAIL	Rev	Date	Description
	DWN:		Dwg No. ST 001
	CHK:		Sheet of
APPROVED: CITY/DISTRICT ENGINEER	APPROVED: DEPARTMENT SUPERVISOR		Scale: None Date:

STANDARD SIDEWALK DETAIL 1

SCALE : AS SHOWN



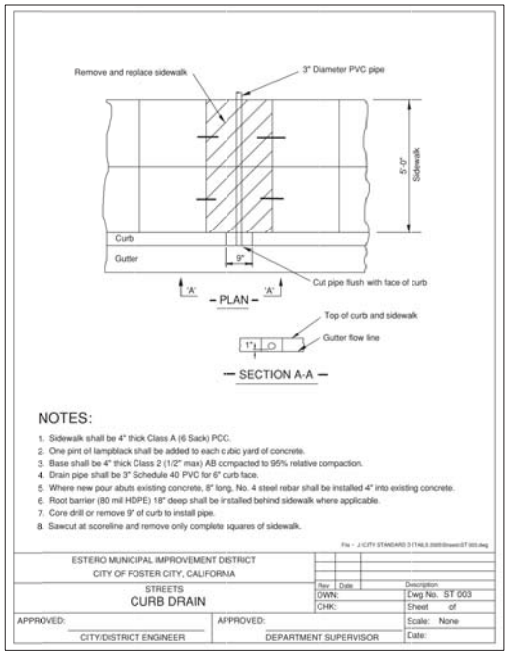
NOTES:

1. Sidewalk shall be 4" thick Class A (6 Sack) PCC.
2. One pint of lampblack shall be added to each cubic yard of concrete.
3. Base shall be 4" thick Class 2 (1/2" max) AB compacted to 95% relative compaction.
4. Expansion joints shall be installed every 20 feet and at the end of curb returns.
5. Where new pour abuts existing concrete, 8" long, No. 4 steel rebar shall be installed 4" into existing concrete.
6. Root barrier (80 mil HCPE) 18" deep shall be installed behind sidewalk where applicable.
7. Sawcut at scoreline and remove only complete squares of concrete.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA			
STREETS SIDEWALK REPLACEMENT	Rev	Date	Description
	DWN:		Dwg No. ST 002
	CHK:		Sheet of
APPROVED: CITY/DISTRICT ENGINEER	APPROVED: DEPARTMENT SUPERVISOR		Scale: None Date:

SIDEWALK REPLACEMENT 2

SCALE : AS SHOWN



NOTES:

1. Sidewalk shall be 4" thick Class A (6 Sack) PCC.
2. One pint of lampblack shall be added to each cubic yard of concrete.
3. Base shall be 4" thick Class 2 (1/2" max) AB compacted to 95% relative compaction.
4. Drain pipe shall be 3" Schedule 40 PVC for 6" curb face.
5. Where new pour abuts existing concrete, 8" long, No. 4 steel rebar shall be installed 4" into existing concrete.
6. Root barrier (80 mil HDPE) 18" deep shall be installed behind sidewalk where applicable.
7. Core drill or remove 9" of curb to install pipe.
8. Sawcut at scoreline and remove only complete squares of sidewalk.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA			
STREETS CURB DRAIN	Rev	Date	Description
	DWN:		Dwg No. ST 003
	CHK:		Sheet of
APPROVED: CITY/DISTRICT ENGINEER	APPROVED: DEPARTMENT SUPERVISOR		Scale: None Date:

CURB DRAIN DETAIL 3

SCALE : AS SHOWN

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

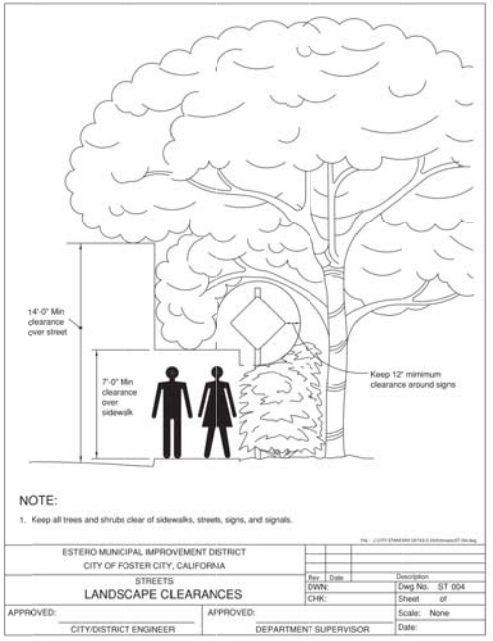
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STANDARD CONSTRUCTION DETAILS

SHEET
C1
SHEET 168 OF 384

CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CDAC Sheets\STANDARDDETAILS_Conform\STANDARDDETAILS_Conform.dwg



NOTE:

1. Keep all trees and shrubs clear of sidewalks, streets, signs, and signals.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA		
STREETS LANDSCAPE CLEARANCES	Rev. Date / Description DWN:	Dwg No. ST 004 CHK: Sheet of
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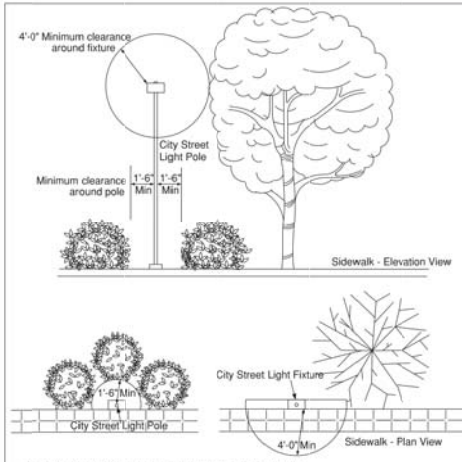
LANDSCAPE CLEARANCES — 1 / --

SCALE : AS SHOWN



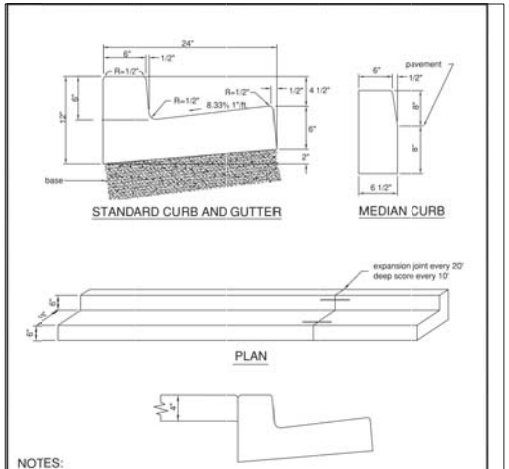
To allow for proper illumination of the sidewalk and roadway, all landscape must be trimmed so that no part of the tree/bush/hedge:

1. Covers the top or front of the street light fixture
2. Comes within 4'-0" front or sides of the street light fixture
3. Grows in front of the light pole
4. Grows within 1'-6" of the sides or back of the light pole

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA		
STREETS LANDSCAPE CLEARANCES AT LIGHT POLES	Rev. Date / Description DWN:	Dwg No. ST 005 CHK: Sheet of
APPROVED: CITY/DISTRICT ENGINEER APPROVED: DEPARTMENT SUPERVISOR		Scale: None Date:

LANDSCAPE CLEARANCES AT LIGHT POLES — 2 / --

SCALE : AS SHOWN



NOTES:

1. Curb and gutter shall be 6" thick Class A (6 sack) PCC.
2. One pint of lampblack shall be added per cubic yard of concrete.
3. Base shall be 6" thick Class 2 (1/2" max) AB compaction to 95% relative compaction.
4. Where new concrete abuts existing concrete, 8" long No. 4 steel rebar shall be installed 4" into existing concrete.
5. Twe feet of asphalt must be replaced when curb and gutter are repaired.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA		
STREETS **STANDARD CURB AND GUTTER**	Rev. Date / Description Drawn:	Dwg No. STS 09 Checked: Sht. of
APPROVED: CITY/DISTRICT ENGINEER APPROVED: DEPARTMENT SUPERVISOR		Scale: None Date: DEC. 2002

STANDARD CURB AND GUTTER — 3 / --

SCALE : AS SHOWN

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STANDARD CONSTRUCTION DETAILS

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C2
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CIP PROJ. NUMBER
CIP 301-657

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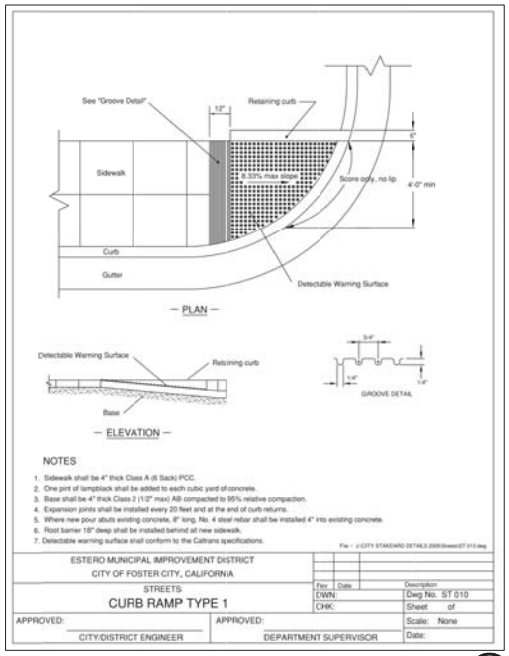

NOTES

1. Sidewalk shall be 4" thick Class A (6 Sack) PCC.
2. One pint of lampblack shall be added to each cubic yard of concrete.
3. Base shall be 4" thick Class 2 (1/2" max) AB compacted to 95% relative compaction.
4. Expansion joints shall be installed every 20 feet and at the end of curb returns.
5. Where new pour abuts existing concrete, 8" long, No. 4 steel rebar shall be installed 4" into existing concrete.
6. Root barrier 18" deep shall be installed behind all new sidewalk.
7. Detectable warning surface shall conform to the Caltrans specifications.

File: J:\CITY STANDARD DETAILS 2005\Streets\ST 010.dwg

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA			
STREETS **CURB RAMP TYPE 1**	Rev	Date	Description
	DWN:		Dwg No. ST 010
	CHK:		Sheet of
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CURB RAMP TYPE 1

SCALE : AS SHOWN

1
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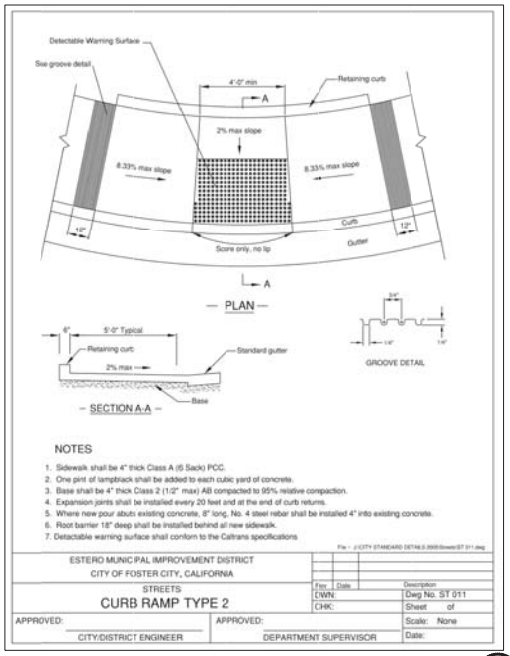

NOTES

1. Sidewalk shall be 4" thick Class A (6 Sack) PCC.
2. One pint of lampblack shall be added to each cubic yard of concrete.
3. Base shall be 4" thick Class 2 (1/2" max) AB compacted to 95% relative compaction.
4. Expansion joints shall be installed every 20 feet and at the end of curb returns.
5. Where new pour abuts existing concrete, 8" long, No. 4 steel rebar shall be installed 4" into existing concrete.
6. Root barrier 18" deep shall be installed behind all new sidewalk.
7. Detectable warning surface shall conform to the Caltrans specifications

File: J:\CITY STANDARD DETAILS 2005\Streets\ST 011.dwg

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA			
STREETS **CURB RAMP TYPE 2**	Rev	Date	Description
	DWN:		Dwg No. ST 011
	CHK:		Sheet of
APPROVED: CITY/DISTRICT ENGINEER	APPROVED: DEPARTMENT SUPERVISOR		Scale: None Date:

CURB RAMP TYPE 2

SCALE : AS SHOWN

2
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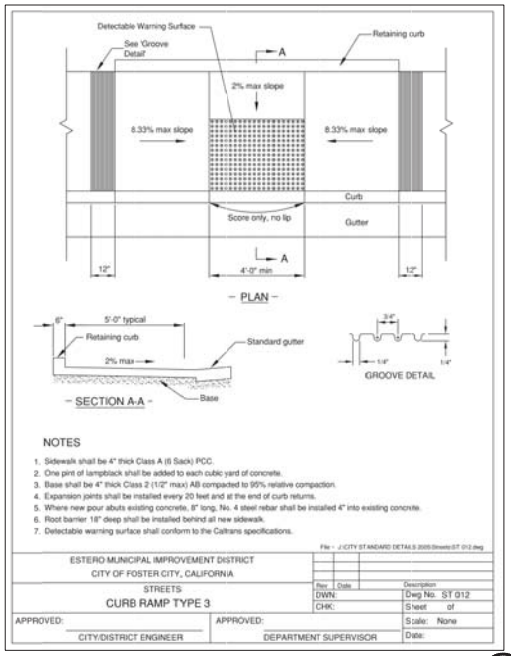

NOTES

1. Sidewalk shall be 4" thick Class A (6 Sack) PCC.
2. One pint of lampblack shall be added to each cubic yard of concrete.
3. Base shall be 4" thick Class 2 (1/2" max) AB compacted to 95% relative compaction.
4. Expansion joints shall be installed every 20 feet and at the end of curb returns.
5. Where new pour abuts existing concrete, 8" long, No. 4 steel rebar shall be installed 4" into existing concrete.
6. Root barrier 18" deep shall be installed behind all new sidewalk.
7. Detectable warning surface shall conform to the Caltrans specifications.

File: J:\CITY STANDARD DETAILS 2005\Streets\ST 012.dwg

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA			
STREETS **CURB RAMP TYPE 3**	Rev	Date	Description
	DWN:		Dwg No. ST 012
	CHK:		Sheet of
APPROVED: CITY/DISTRICT ENGINEER	APPROVED: DEPARTMENT SUPERVISOR		Scale: None Date:

CURB RAMP TYPE 3

SCALE : AS SHOWN

2
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SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
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DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STANDARD CONSTRUCTION DETAILS

SHEET
C3
SHEET 170 OF 384

CIP PROJ. NUMBER
CIP 301-657

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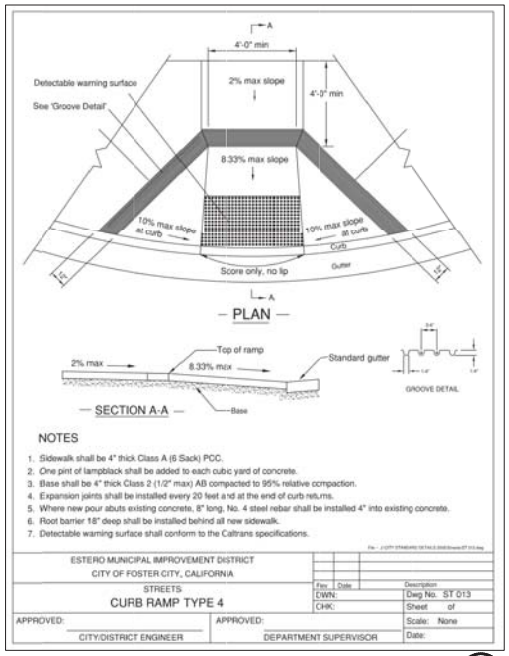

CURB RAMP TYPE 4

SCALE : AS SHOWN

1
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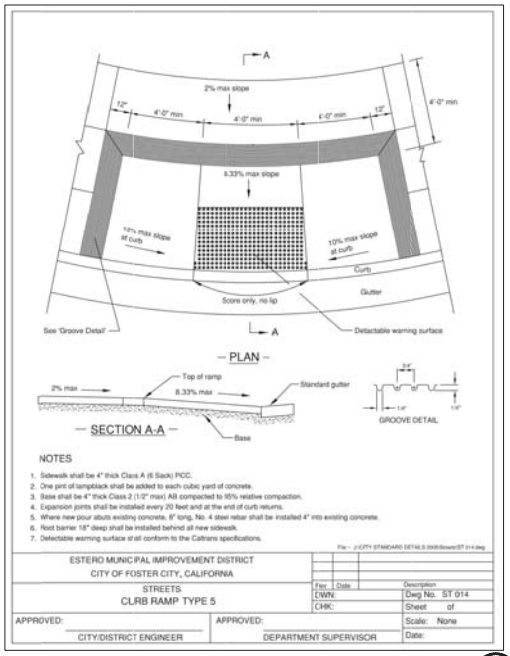

CURB RAMP TYPE 5

SCALE : AS SHOWN

2
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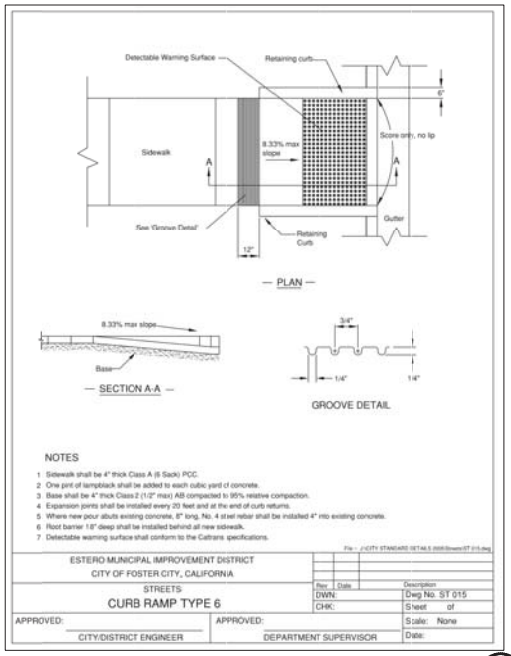

CURB RAMP TYPE 6

SCALE : AS SHOWN

3
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SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STANDARD CONSTRUCTION DETAILS

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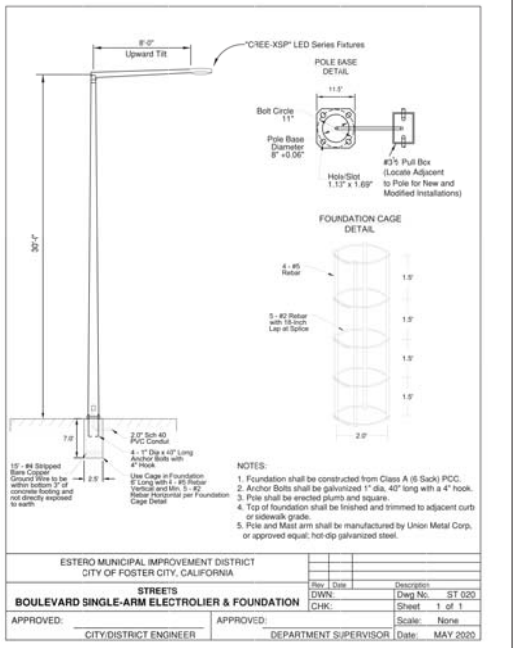
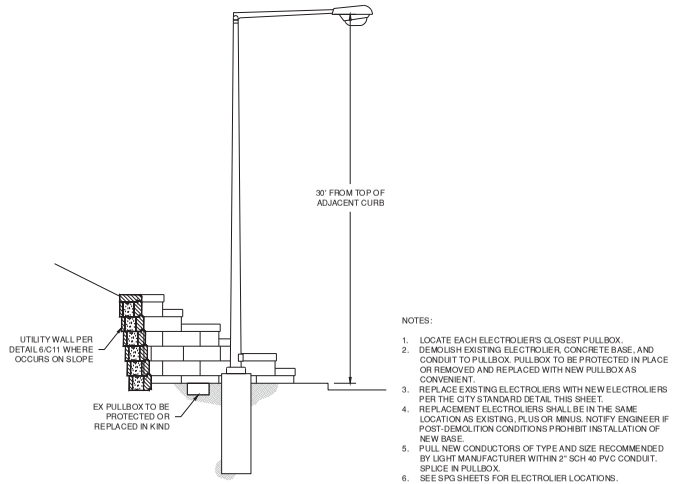
C4
SHEET 171 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CDAC Sheets\STANDARDDETAILS_Conform\STANDARDDETAILS_Conform.dwg



BOULEVARD SINGLE-ARM ELECTROLIER 1

SCALE : AS SHOWN



NOTES:

1. LOCATE EACH ELECTROLIER'S CLOSEST PULLBOX.
2. DEMOLISH EXISTING ELECTROLIER, CONCRETE BASE, AND CONDUIT TO PULLBOX. PULLBOX TO BE PROTECTED IN PLACE OR REMOVED AND REPLACED WITH NEW PULLBOX AS CONVENIENT.
3. REPLACE EXISTING ELECTROLIERS WITH NEW ELECTROLIERS PER THE CITY STANDARD DETAIL THIS SHEET.
4. REPLACEMENT ELECTROLIERS SHALL BE IN THE SAME LOCATION AS EXISTING, PLUS OR MINUS. NOTIFY ENGINEER IF POST-DEMOLITION CONDITIONS PROHIBIT INSTALLATION OF NEW BASE.
5. PULL NEW CONDUCTORS OF TYPE AND SIZE RECOMMENDED BY LIGHT MANUFACTURER WITHIN 2" SCH 40 PVC CONDUIT. SPLICE IN PULLBOX.
6. SEE SPG SHEETS FOR ELECTROLIER LOCATIONS.

BEACH PARK BOULEVARD ELECTROLIER INSTALLATION 2

SCALE : NO SCALE

SCALE VERIFICATION

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0 1"

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SCALE: AS SHOWN
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CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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CIP 301-657

STANDARD CONSTRUCTION DETAILS

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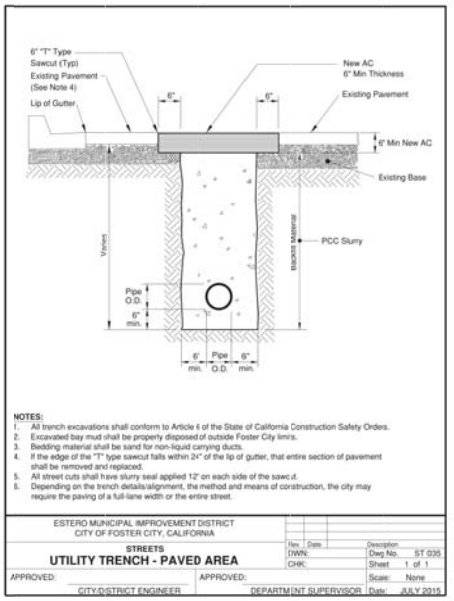
SHEET 172 OF 384

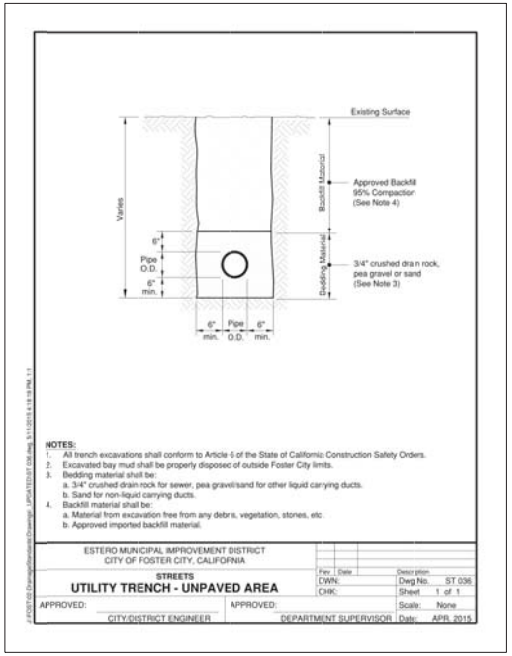
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CDAC Sheets\STANDARDDETAILS_Conform.dwg



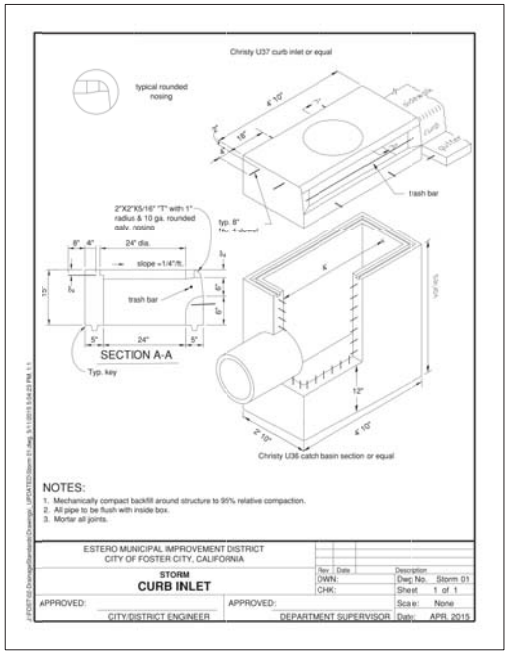
UTILITY TRENCH - PAVED AREA 1

SCALE : AS SHOWN



UTILITY TRENCH - UNPAVED AREA 2

SCALE : AS SHOWN



STORM CURB INLET 3

SCALE : AS SHOWN

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
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PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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CIP 301-657

STANDARD CONSTRUCTION DETAILS

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SHEET 173 OF 384
CIP PROJ. NUMBER CIP 301-657

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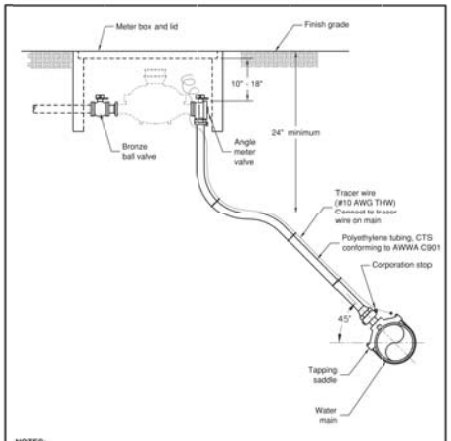

NOTES:
1. All meters shall have a minimum 10" and a maximum 18" space from the top of the angle stop or flange to the bottom of the meter box lid.
2. Installation: Add ½" extra spacing to the meter length to allow for two ¼" thick gaskets. For example, on a 13" long 1 ½" meter, leave 13 ½" from flange to flange.
3. See Water 10 for service materials.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT
CITY OF FOSTER CITY, CALIFORNIA

WATER
WATER SERVICE CONNECTION

Rev	Date	Description
DWN:		Dwg No. Water 08
CHK:		Sheet 1 of 1
		Scale: None
		Date: JUL 2015

APPROVED: _____ CITY/DISTRICT ENGINEER
APPROVED: _____ DEPARTMENT SUPERVISOR

WATER SERVICE CONNECTION
SCALE : AS SHOWN

1
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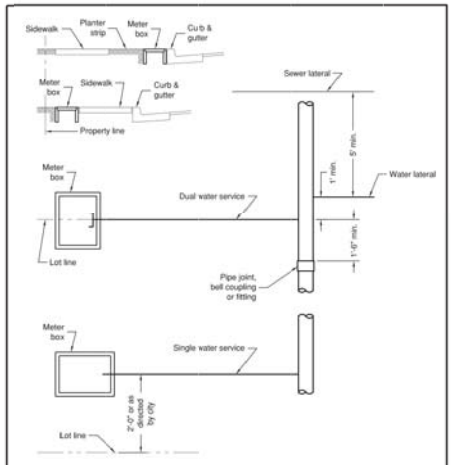

NOTE:
1. Install all backflow devices after the meters.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT
CITY OF FOSTER CITY, CALIFORNIA

WATER
TYPICAL WATER SERVICE INSTALLATION

Rev	Date	Description
DWN:		Dwg No. Water 10
CHK:		Sheet 1 of 1
		Scale: None
		Date: JUL 2015

APPROVED: _____ CITY/DISTRICT ENGINEER
APPROVED: _____ DEPARTMENT SUPERVISOR

TYPICAL WATER SERVICE INSTALLATION
SCALE : AS SHOWN

2
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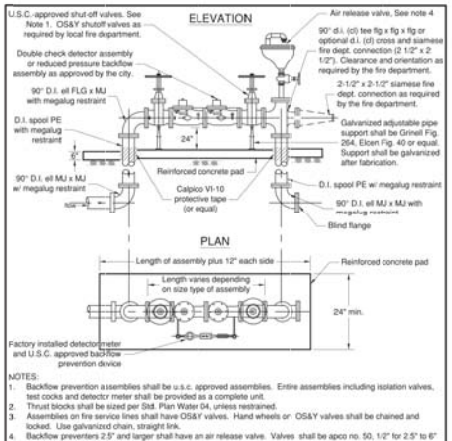

NOTES:
1. Backflow prevention assemblies shall be u.s.c. approved assemblies. Entire assemblies including isolation valves, test cocks and detector meter shall be provided as a complete unit.
2. Thrust blocks shall be sized per Std. Plan Water 04, unless restrained.
3. Assemblies on fire service lines shall have OS&Y valves. Hand wheels on OS&Y valves shall be chained and locked. Use galvanized chain, straight link.
4. Backflow preventers 2.5" and larger shall have an air release valve. Valves shall be apco no. 50, 1/2" for 2.5" to 6" service, 3/4" for 8" to 12" service.
5. No connections or tees will be allowed between meter or isolation valve ard backflow preventer.
6. Device must be accessible for testing and maintenance. Location shall be approved by city prior to installation.
7. Installations using threaded or soldered fittings shall include one three part union on each side of the assembly. Solder shall be lead free.
8. City shall install Sensus touch read meter, use detail for domestic and fire service line installations. Developer is responsible for the cost of the 3/4" detector meter.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT
CITY OF FOSTER CITY, CALIFORNIA

WATER
DOUBLE CHECK/REDUCED PRESSURE BACKFLOW ASSEMBLY

Rev	Date	Description
DWN:		Dwg No. Water 11
CHK:		Sheet 1 of 1
		Scale: None
		Date: JUL 2015

APPROVED: _____ CITY/DISTRICT ENGINEER
APPROVED: _____ DEPARTMENT SUPERVISOR

DOUBLE CHECK/REDUCED PRESSURE BACKFLOW ASSEMBLY
SCALE : AS SHOWN

4
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SIZE	SADDLE TYPE	CORP STOP	ANGLE STOP	METER CONNECTION	METER BOX	METER LID	SENSUS TYPE	OPERATING RANGE (gpm)	METER LENGTH
¾"	ACP & DIP - Bronze Double Strap, PVC-Single Band Saddle	Mueller B-2500813, Ford FB1000Q	Mueller B-24258, Ford BA43 -332WQ	Meter Swivel Nut	Christy B12	Christy B12P	SRII	0.5 - 30	9"
1"	ACP & DIP - Bronze Double Strap, PVC-Single Band Saddle	Mueller B-2500813, Ford FB1000Q	Mueller B-24258, Ford BA43 -444WQ	Meter Swivel Nut	Christy B16	Christy B16P	SRII	0.75 - 50	10 ½"
1 ½"	ACP & DIP - Bronze Double Strap, PVC-Single Band Saddle	Mueller B-2500813, Ford FB1000Q	Mueller B-24276, Ford BFA43 -666WQ	Flange	Christy B30	Christy B30P	OMNI C[2] OMNI T[2]	0.25 - 200 0.75 - 200	13" 13"
2"	ACP & DIP - Bronze Double Strap, PVC-Single Band Saddle	Mueller B-2500813, Ford FB1000Q	Mueller B-24276, Ford BFA43 -777WQ	Flange	Christy B36	Christy B36P	OMNI C[2] OMNI T[2]	0.25 - 200 1.0 - 250	15 ½" 17"
3"	Stainless Steel Tapping Saddle, 316 SS Straps and Hardware	Resilient Wedge Gate - 4"	NA	Flange	Christy B48	Christy B48M	OMNI C[2] OMNI T[2]	0.5 - 500 1.5 - 650	17" 19"
4"	Stainless Steel Tapping Saddle, 316 SS Straps and Hardware	Resilient Wedge Gate - 4"	NA	Flange	Christy B48	Christy B48M2	OMNI C[2] OMNI T[2] OMNI F[2]	0.75 - 1000 2.0 - 1250 1.5 - 1000	20" 23" 33"
6"	Stainless Steel Tapping Saddle, 316 SS Straps and Hardware	Resilient Wedge Gate - 6"	NA	Flange	Christy B52	Christy B52-62G	OMNI C[2] OMNI F[2]	2.5 - 2500 3.0 - 2000	24" 45"
8"	Stainless Steel Tapping Saddle, 316 SS Straps and Hardware	Resilient Wedge Gate - 8"	NA	Flange	Christy B52	Christy B52-62G	OMNI C[2] OMNI F[2]	4.0 - 2700 4.0 - 3500	30" 53"

NOTES:
1. Meter box to be provided by contractor.
2. For location of water service see improvement plans.
3. Single strap bronze saddles shall be required for 1" taps on all mains less than 8" diameter and AC pipe 12" or smaller.
4. Double strap bronze saddle shall be required on all taps 1 ½" or larger.
5. Double or triple strap saddle shall be used on AC pipe 12" or larger.
6. PVC pipe shall use single bolt band type stainless steel saddle.
7. All saddles shall be Mueller, Ford, or approved equal.
8. Boxes installed in driveways shall have traffic covers.
9. Meter assembly for ¾" & 1" meters - for larger meter assembly, see Water 09

ESTERO MUNICIPAL IMPROVEMENT DISTRICT
CITY OF FOSTER CITY, CALIFORNIA

WATER
METER ASSEMBLY

Rev	Date	Description
DWN:		Dwg No. Water 09
CHK:		Sheet 1 of 1
		Scale: None
		Date: JUL 2015

APPROVED: _____ CITY/DISTRICT ENGINEER
APPROVED: _____ DEPARTMENT SUPERVISOR

METER ASSEMBLY
SCALE : AS SHOWN

3
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SCALE VERIFICATION
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DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

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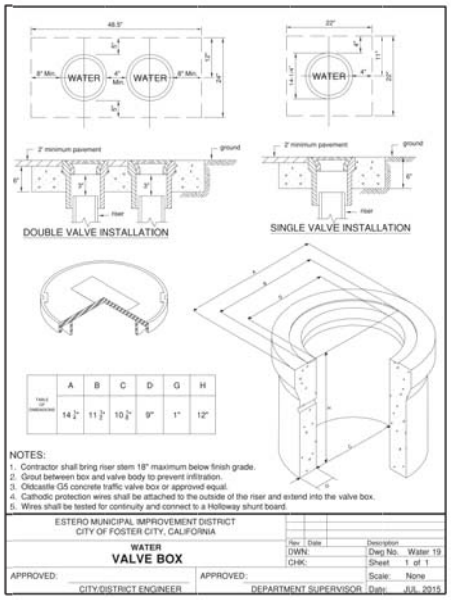
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
STANDARD CONSTRUCTION DETAILS

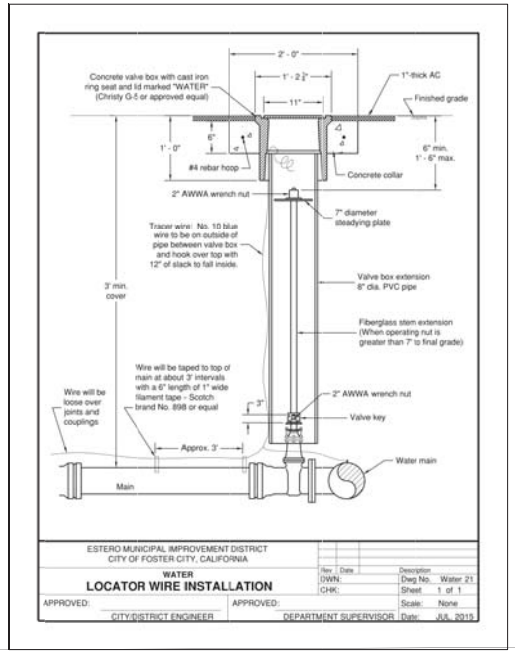
SHEET
C7
SHEET 174 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CDA\C Sheets\STANDARDDETAILS_Conform\STANDARDDETAILS_Conform.dwg



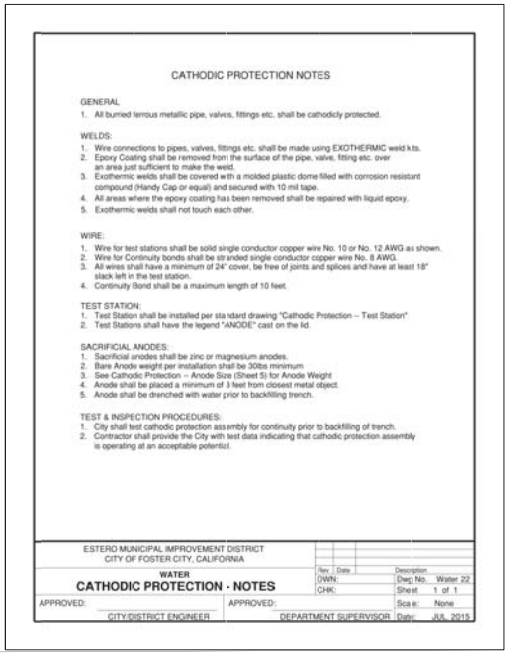
VALVE BOX 1

SCALE : AS SHOWN



LOCATOR WIRE INSTALLATION 2

SCALE : AS SHOWN



CATHODIC PROTECTION - NOTES 3

SCALE : AS SHOWN

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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SHEET
C8
SHEET 175 OF 384
CIP PROJ. NUMBER
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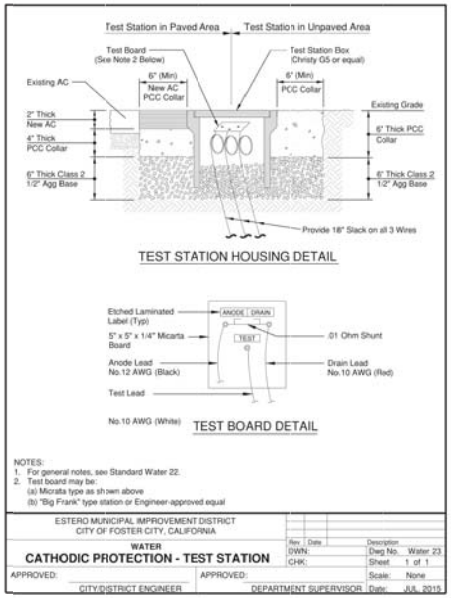
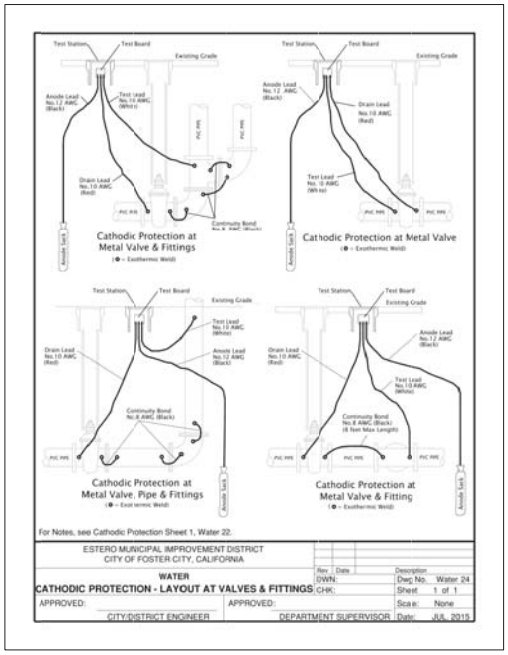
PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CDAC Sheets\STANDARDDETAILS_Conform.dwg



CATHODIC PROTECTION - TEST STATION 1 --

SCALE : AS SHOWN



CATHODIC PROTECTION - LAYOUT AT VALVES & FITTINGS 2 --

SCALE : AS SHOWN

TABLE 1 (Anode weight in lbs for pipe and fittings)

PIPE SIZE	VALVE	CROSS ★	TEE ★	ELBOW	RT. X FLG. ADAPTER	FIRE HYDRANT AND BURY	EACH 36" OF SPOOL LENGTH
4"	1.2	1.5	1.2	1	0.5	-	1
6"	1.8	2.3	1.8	1.5	0.5	3	1.5
8"	2.4	3	2.4	2	0.5	-	2
10"	3	3.8	3	2.5	0.5	-	2.5
12"	3.6	4.5	3.6	3	0.5	-	3
14"	4.2	5.3	4.2	3.5	0.5	-	3.5
16"	4.8	6.0	4.8	4.0	0.5	-	4.0

★ Base Weight Required on Largest Outlet

NOTES:
1. Bare anode weight per installation shall be 30lbs minimum
2. Table 1 indicates the anode weight (lbs) for pipe and fittings
3. Weight of Anode shall be rounder UP in 5lb increments

Anode Weight Example 'A'
A configuration contains:
4 -- 12" valves = 14.4lbs (4 x 3.6lbs)
3 -- 12" tee's = 10.8lbs (3 x 3.6lbs)
1 -- 12" cross = 4.5lbs (1 x 4.5lbs)
2 -- 12" elbows = 6.0lbs (2 x 3lbs)
TOTAL 35.7LBS

Example 'A' indicates that the minimum weight of the anode shall be 40lbs

Anode Weight Example 'B'
A configuration contains:
2 -- 6" valves = 3.6lbs (2 x 1.8lbs)
1 -- 6" tee = 1.8lbs (1 x 1.8lbs)
2 -- 6" elbows = 3.0lbs (2 x 1.5lbs)
TOTAL 8.4LBS

Example 'B' indicates that the minimum weight of the anode shall be 30lbs

For Notes, see Cathodic Protection Sheet 1, Water 22.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT
CITY OF FOSTER CITY, CALIFORNIA
WATER
CATHODIC PROTECTION - ANODE SIZE
DWN:
CHK:
Dwg No. Water 26
Sheet 1 of 1
Scale: None
Date: JUL. 2015
APPROVED:
CITY/DISTRICT ENGINEER
APPROVED:
DEPARTMENT SUPERVISOR

CATHODIC PROTECTION - ANODE SIZE 3 --

SCALE : AS SHOWN

SCALE VERIFICATION

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0 1"

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FOSTER CITY LEVEE IMPROVEMENTS
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CIP PROJ. NUMBER
CIP 301-657

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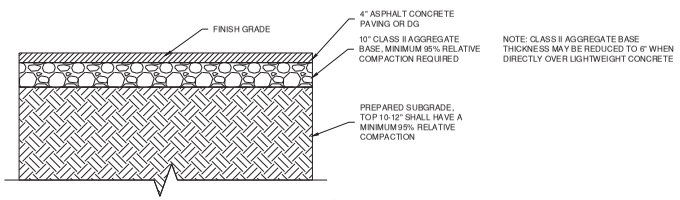
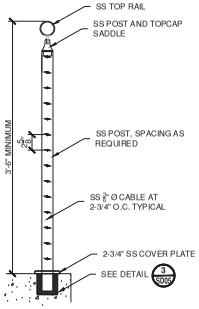
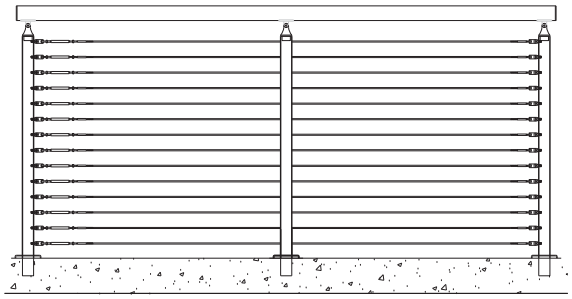
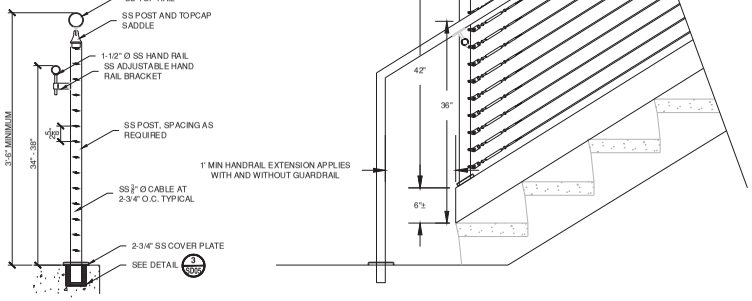


TRAIL PAVEMENT SECTION 1
SCALE : 1" = 2'

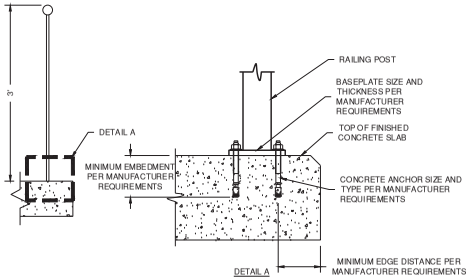




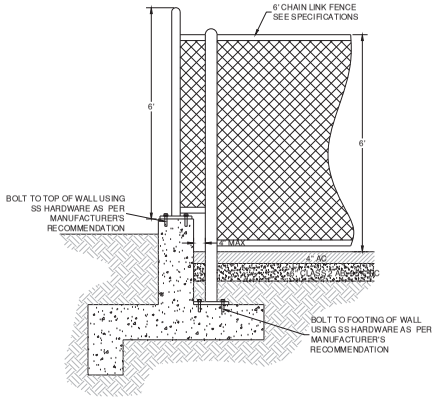
GUARDRAIL DETAIL 2
SCALE : NTS



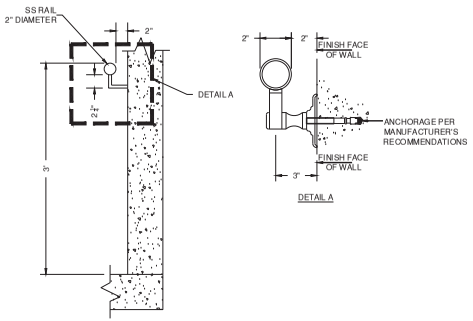
GUARDRAIL WITH HANDRAIL DETAIL 3
SCALE : NTS



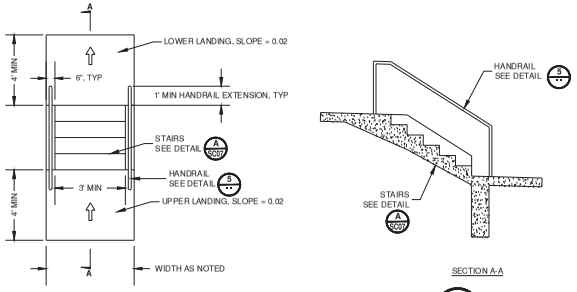
FLOOR MOUNTED HANDRAIL DETAIL 5
SCALE : NTS



FENCE ON TOP OF FLOODWALL DETAIL 6
SCALE : NTS



WALL MOUNTED HANDRAIL DETAIL 4
SCALE : NTS



STANDARD STAIRS 7
SCALE : NTS

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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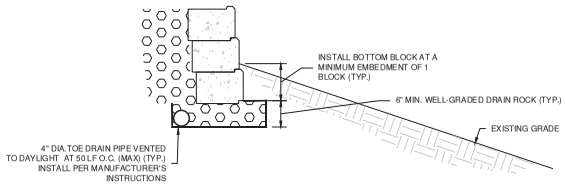
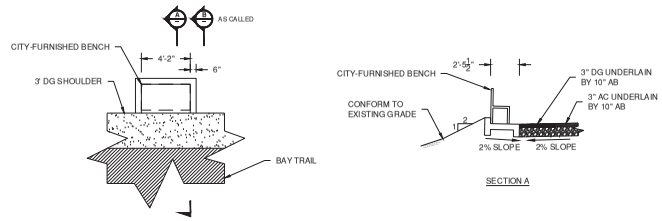
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

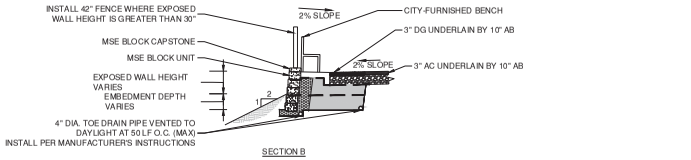
TRAIL PAVEMENT, GUARDRAIL, HANDRAIL, STAIR AND FENCING DETAILS

SHEET
C10
SHEET 177 OF 384
CIP PROJ. NUMBER
CIP 301-657

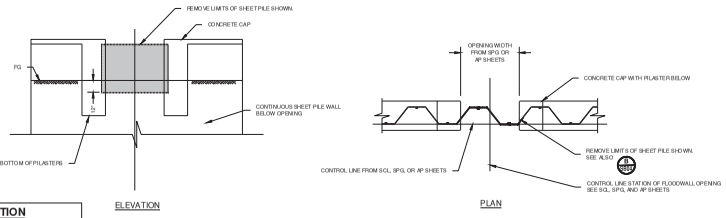


TOE DRAIN DETAIL 1
SCALE : NTS





BENCH PLATFORM DETAIL 2
SCALE : NTS



SCALE VERIFICATION

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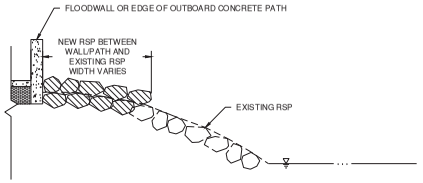
0 1"

BREAK IN FLOODWALL 3
SCALE : NTS



ROCK SLOPE PROTECTION EXTENSION 4
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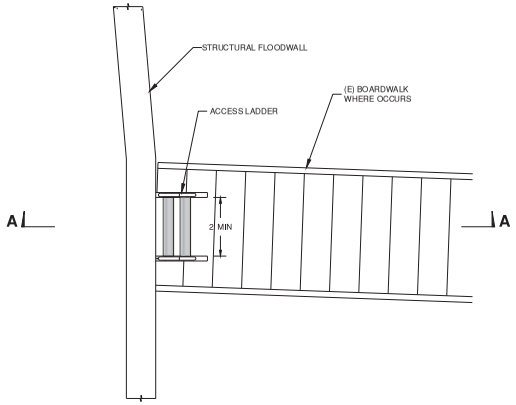
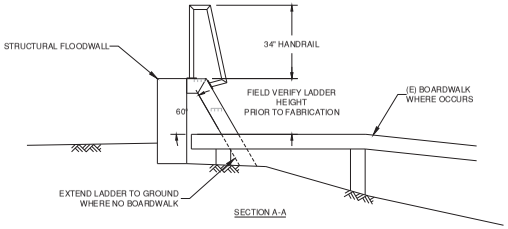
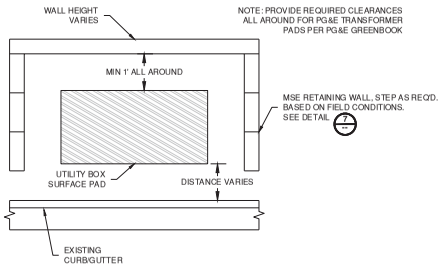
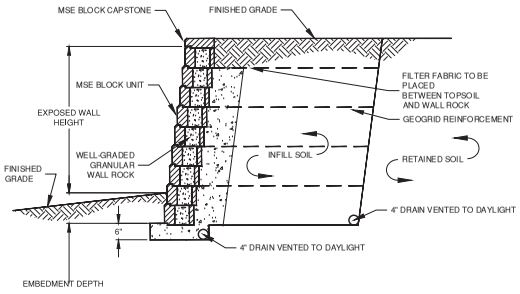




PG&E OVER-WALL ACCESS 5
SCALE : NTS



WALL AROUND UTILITY 6
SCALE : NTS



WALL AROUND UTILITY 7
SCALE : NTS

DATE: 4/24/2020				
SCALE: AS SHOWN				
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SURVEYED BY: WILSEY-HAM	1	CDA	07/31/20	CONFORMED SET
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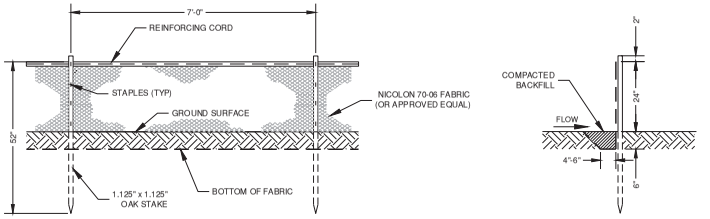
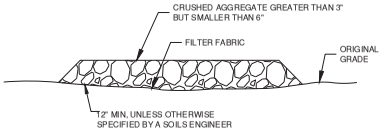
UTILITY ACCESS AND CONSTRUCTION DETAILS

SHEET C11
SHEET 178 OF 384
CIP PROJ. NUMBER CIP 301-657



NOTES:
1. PLACE ESA FENCING ON DOWNHILL SIDE OF SILT FENCE
2. USE (E) WOOD HABITAT FENCE IN LIEU OF STAKES WHERE INDICATED AND AVAILABLE

SILT FENCE INSTALLATION 1
SCALE : NTS



SECTION A-A
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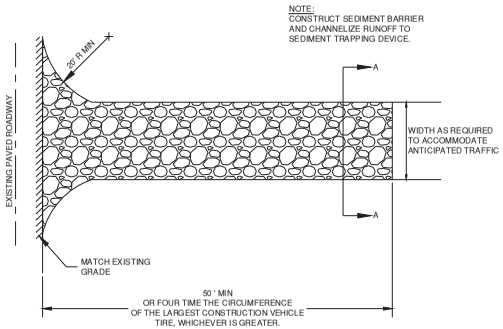

PLAN
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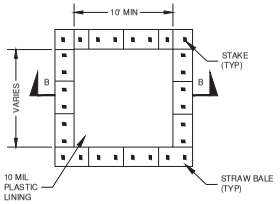
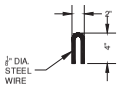
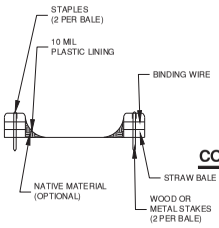
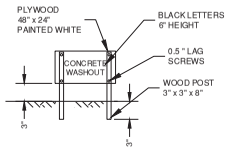
CONSTRUCTION ENTRANCE 2
SCALE: NTS





STAPLE DETAIL
SCALE: NTS



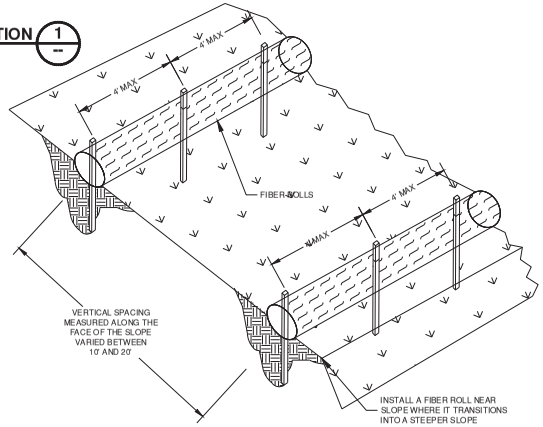


CONCRETE WASHOUT SIGN DETAIL
SCALE: NTS

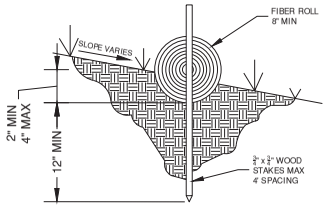
NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

SECTION B-B
SCALE: NTS

CONCRETE WASHOUT 3
SCALE: NTS



TYPICAL FIBER ROLL INSTALLATION
SCALE: NTS



ENTRENCHMENT DETAIL
SCALE: NTS

SLOPE STABILIZATION 4
SCALE: NTS

SCALE VERIFICATION

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0 1"

DATE:	4/24/2020
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SWPPP AND EROSION CONTROL DETAILS

SHEET
C12
SHEET 179 OF 384
CIP PROJ. NUMBER
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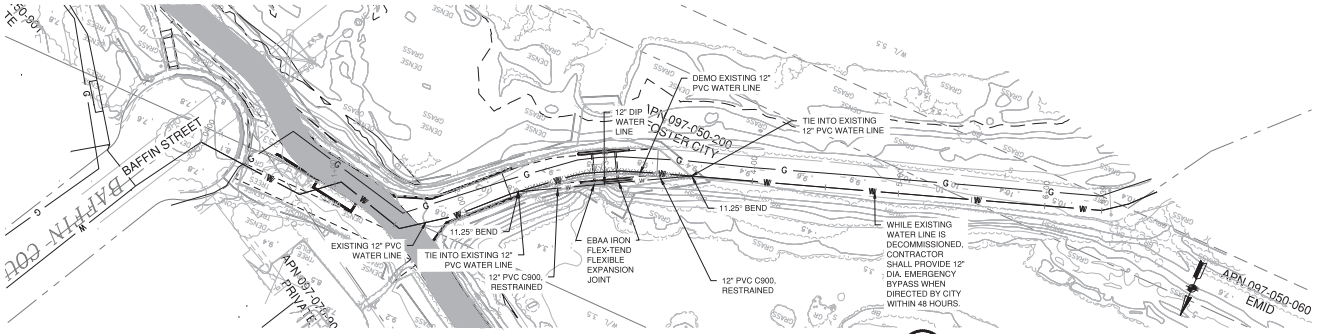
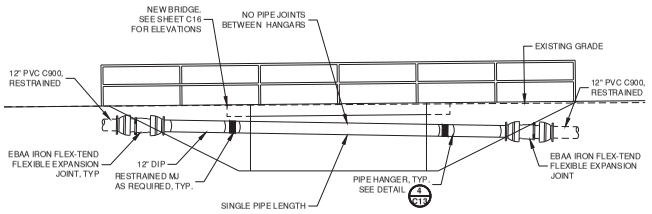


WATER LINE REPLACEMENT AT BAFFIN - PLAN VIEW 1

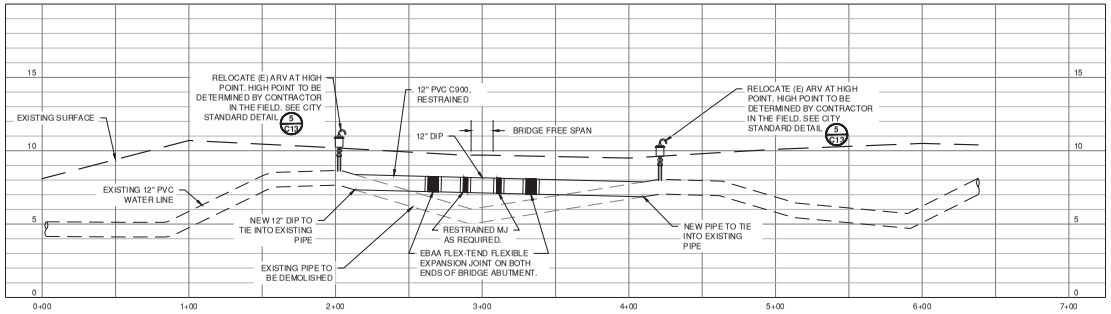
SCALE : 1" = 40'

SCALE: 1 INCH = 40 FEET



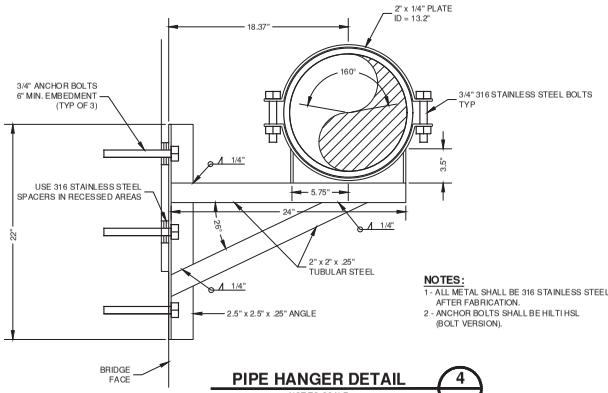
BRIDGE CROSS SECTION 3

SCALE : 1" = 5'



WATER LINE REPLACEMENT AT BAFFIN - PROFILE VIEW 2

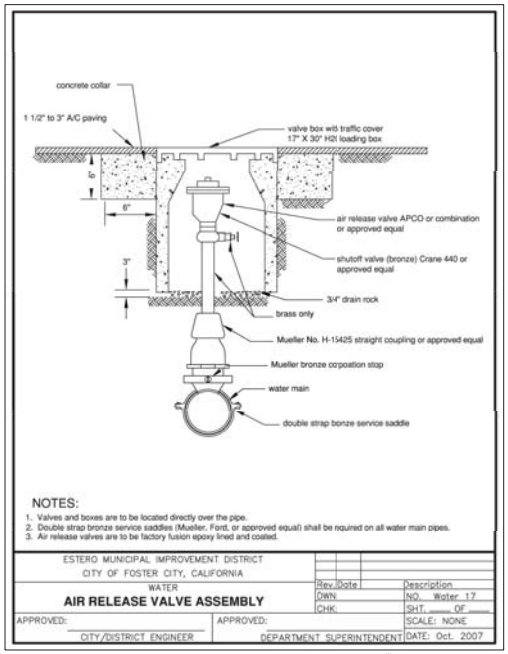
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



NOTES:
1- ALL METAL SHALL BE 316 STAINLESS STEEL AFTER FABRICATION.
2 - ANCHOR BOLTS SHALL BE HILTI HSL (BOLT VERSION).

PIPE HANGER DETAIL 4

NOT TO SCALE



NOTES:
1. Valves and boxes are to be located directly over the pipe.
2. Double strap bronze service saddles (Mueller, Ford, or approved equal) shall be required on all water main pipes.
3. Air release valves are to be factory fusion epoxy lined and coated.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA			
WATER **AIR RELEASE VALVE ASSEMBLY**	Rev. Date	Description	
	DWN	NO. Water 17	
	CHK	SHT. ___ OF ___	
APPROVED: ___ CITY/DISTRICT ENGINEER	APPROVED: ___ DEPARTMENT SUPERINTENDENT	SCALE: NONE DATE: Oct. 2007	

AIR RELEASE VALVE 5

NOT TO SCALE

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

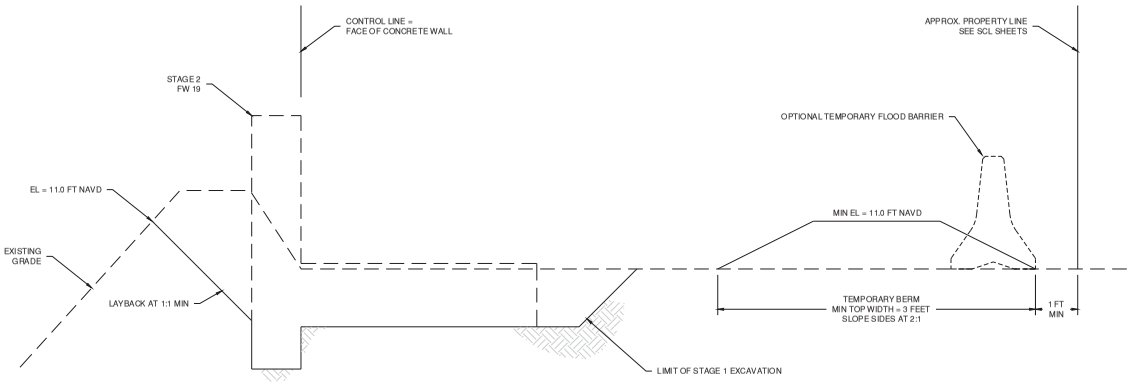
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

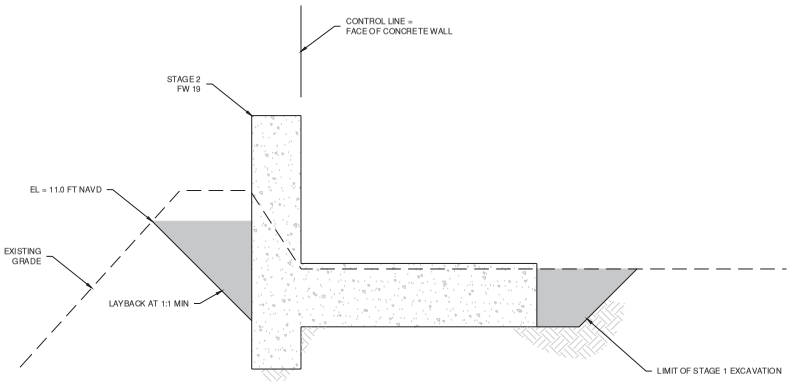
WATER LINE RELOCATION AT BAFFIN STREET

SHEET C13
SHEET 180 OF 384
CIP PROJ. NUMBER CIP 301-657

NOTES:
1. THIS STAGING PLAN APPLIES TO CONCRETE FLOODWALLS BETWEEN STA 304+23 AND STA 331+31 (FLOOD WALLS 18, 19, 20, AND 21).
2. 100-YR TIDE ELEVATION = 10.2 FT NAVD.
3. REFER TO SHEET S-C10 FOR STRUCTURAL DIMENSIONS AND DETAILS.
4. CONTRACTOR MAY PROPOSE ALTERNATIVE MEANS FOR FLOOD PROTECTION DURING CONSTRUCTION.



STAGE 1
SCALE: NTS



STAGE 2
SCALE: NTS

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: FS
PROJECT NUMBER: FOST.12.16
DESIGNED BY: FS
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

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PUBLIC WORKS DEPARTMENT
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SANTA CLARA, CA 95050
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
CONSTRUCTION STAGING FOR FLOOD PROTECTION

SHEET
C14
SHEET 181 OF 384
CIP PROJ. NUMBER
CIP 301-657

CONTROL LINE 1 STARTING STATION	CONTROL LINE 1 ENDING STATION	GUARDRAIL CONTROL LINE	GUARDRAIL (G) OR GUARDRAIL + HANDRAIL (G+H)	GUARDRAIL CONTROL LINE STATIONING	GUARDRAIL CONTROL LINE STATIONING	HEIGHT,INCHES	ESTIMATED LENGTH, FEET
9+29	13+17	FW-01	G	0+00	3+86	42	385.96
11+18	13+05	FW-02	G	0+00	2+00	42	200
45+73	46+18	FW-03	G	2+34	3+02	42	68.00
45+77	46+40	FW-04	G	0+00	0+92	42	92.00
49+45	56+00	RW-01	G	0+00	6+62	42	662.05
49+20	49+28	FW-37	G	0+00	0+14	42	14.53
49+28	49+33	FW-37	G+H	0+15	0+21	G = 42, H = 36	5.64
56+34	56+86	FW-06	G	0+00	0+56	42	55.68
57+07	57+18	FW-06	G	0+78	0+98	42	19.83
63+03	63+08	FW-23	G	0+00	0+05	42	4.65
63+29	63+42.5	FW-23	G	0+26	0+49	42	23.92
63+23	85+64	RW-02	G	0+00	22+87	42	2287.29
69+91	70+23	FW-07	G+H	1+14	1+39	G = 42, H = 36	24.76
82+67	82+71	FW-09	G	0+00	0+04	G = 42, H = 36	3.66
82+92	83+06	FW-09	G	0+25	0+41	42	16.84
83+06	83+11	FW-09	G+H	0+41	0+46	G = 42, H = 36	4.66
85+72	93+70	RW-04	G	0+00	7+89	42	788.75
93+69	95+00	RW-39	G	0+00	1+45	42	44.78
93+77	93+81	FW-24	G+H	0+00	0+04	G = 42, H = 36	3.75
93+81	93+93	FW-24	G	0+04	0+20	42	15.66
94+06	96+75	RW-04	G	8+24	11+03	42	278.98
102+52	103+98	FW-11 AND FW-12	G	N/A	N/A	12	264.63
106+35	109+25	RW-05	G	0+00	2+92	42	291.7
110+72	111+02	FW-13	G	0+00	0+31	G = 42, H = 36	30.86
111+24	111+36	FW-13	G	0+52	0+75	42	22.89
112+16	112+36	RW-06	G	0+33	0+34	42	1
112+36	112+36	RW-06	G+H	0+34	0+44	G = 48±, H = 36	10.08
112+44	112+44	RW-07	G+H	0+00	0+10	G = 48±, H = 36	10.08
112+44	112+47	RW-07	G	0+10	0+11	G = 42, H = 36	1
112+47	112+94	RW-07	G+H	0+11	0+64	G = 42, H = 36	52.82
112+49	113+05	RW-08	G+H	0+00	0+75	G = 42, H = 36	75.2
121+53	122+49	RW-09	G	0+00	1+00	42	100
122+34	122+61	RW-10	G	0+00	0+26	42	25.85
122+49	122+49	RW-40	G	0+05	0+06	G = 42, H = 36	1
122+49	122+49	RW-40	G+H	0+06	0+11	G = 48±, H = 36	5.35
122+57	122+57	RW-11	G	0+05	0+06	G = 48±, H = 36	1
122+57	122+62	RW-11	G+H	0+06	0+11	G = 42, H = 36	4.59
122+62	122+90	RW-11	G	0+11	0+47	42	36.51
127+91	128+05	N/A	G	N/A	N/A	42	24.34
130+37	130+70	RW-12	G	0+00	0+33	42	33
130+56	130+56	RW-42	G	0+00	0+07	G = 42, H = 36	7
130+56	130+56	RW-42	G+H	0+07	0+13	42	5.58
130+65	131+43	RW-13	G+H	0+00	0+81	G = 42, H = 36	80.98
130+89	131+72	RW-41	G	0+00	0+84	42	83.62
130+92	131+54	RW-14	G+H	0+00	0+79	G = 42, H = 36	79.29
137+18	138+39	FW-27	G	0+00	1+22	42	121.69
144+49	144+71	RW-16	G	0+00	0+43	42	42.59
144+66	144+79	RW-17	G+H	0+00	0+29	G = 42, H = 36	29.17
144+79	144+79	RW-17	G	0+29	0+33	42	3.91
152+41	153+19	RW-43	G	0+00	0+77	42	77.5
152+54	153+10	RW-18	G+H	0+00	0+73	G = 42, H = 36	73
153+04	153+17	RW-31	G	0+00	0+23	42	22.66
153+38	153+50	RW-31	G	0+42	0+62	42	20.66
152+66	153+20	RW-19	G+H	0+00	0+54	G = 42, H = 36	54.5
153+20	153+35	RW-19	G	0+54	0+69	42	14.46
153+35	153+40	RW-19	G+H	0+69	0+80	G = 42, H = 36	10.92
153+36	153+63	RW-44	G	0+00	0+27	42	27
153+50	153+50	RW-20	G+H	0+00	0+13	G = 42, H = 36	13.37
153+80	153+93	N/A	G	N/A	N/A	42	24.33
159+65	159+79	FW-29	G	0+00	0+03	G	2.75
164+80	165+00	RW-22	G	0+00	0+30	42	29.95
165+00	166+18	RW-22	G+H	0+30	1+48	G = 42, H = 36	117.86
165+01	166+51	RW-23	G	0+00	1+50	42	150.44
166+39	166+52	RW-24	G	0+00	0+20	G = 42, H = 36	20

SCHEDULE OF GUARDRAILS

SCALE : AS SHOWN

1
--

CONTROL LINE 1 STARTING STATION	CONTROL LINE 1 ENDING STATION	GUARDRAIL CONTROL LINE	GUARDRAIL (G) OR GUARDRAIL + HANDRAIL (G+H)	GUARDRAIL CONTROL LINE STATIONING	GUARDRAIL CONTROL LINE STATIONING	HEIGHT,INCHES	ESTIMATED LENGTH, FEET
166+52	166+62	RW-24	G	0+20	0+33	42	12.92
168+47	168+60	FW-30	G	0+00	0+24	42	23.51
168+81	168+84	FW-30	G	0+45	0+48	42	2.77
177+60	178+79	RW-45	G	0+00	1+15	42	114.57
178+72	178+81	RW-26	G	0+00	0+04	42	4.03
178+81	179+00	RW-26	G+H	0+04	0+43	G = 42, H = 36	38.6
178+89	178+89	RW-27	G	0+00	0+06	42	5.91
178+90	182+90	RW-29	G	0+00	4+12	42	412.24
182+90	185+51	RW-30	G	0+00	2+65	42	265
200+18	200+18	RW-46	G+H	0+00	0+06	G = 42, H = 36	6
200+18	200+18	RW-46	G	0+06	0+13	42	7.42
200+25	200+25	RW-47	G+H	0+00	0+25	G = 42, H = 36	25.25
200+25	200+25	RW-47	G	0+25	0+31	42	6
213+78	213+92	N/A	G	N/A	N/A	42	27.61
216+64	216+98	RW-33	G	0+00	0+35	42	34.79
216+94	217+25	RW-34	G	0+00	0+37	42	32.56
252+43	253+00	CL 1	G	N/A	N/A	42	56.74
306+25	306+35	CL 1	G	N/A	N/A	42	35
306+36	306+63	CL 1	G	N/A	N/A	42	35
301+01	331+06	CL 1	G	N/A	N/A	42	41
331+15	331+20	CL 1	G	N/A	N/A	42	41

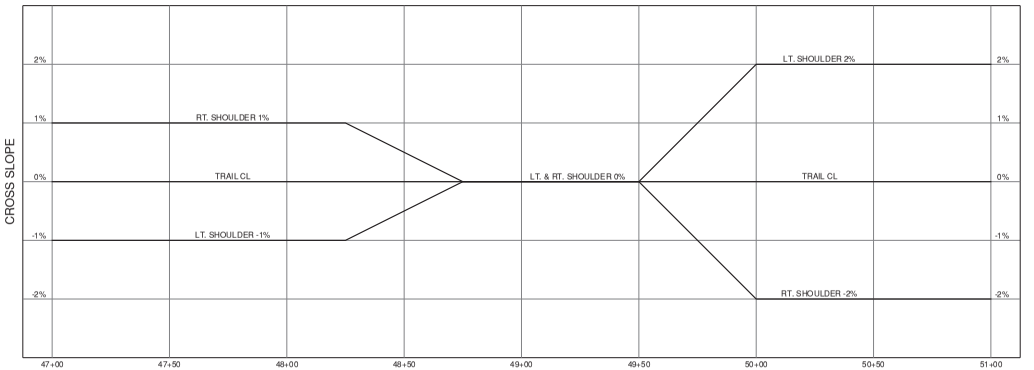
NOTES:

1. HEIGHT PROVIDED IN GUARDRAIL SCHEDULE FOR HANDRAILS IS IN REFERENCE TO WALKING SURFACE.
2. HEIGHT PROVIDED IN GUARDRAIL SCHEDULE FOR GUARDRAILS IS IN REFERENCE TO GROUND SURFACE. GROUND SURFACE REFERS TO EITHER THE ADJACENT TRAIL, OR TO THE TRAIL CURB WHERE GUARDRAILS ARE ADJACENT TO STAIRS.

SCHEDULE OF GUARDRAILS

SCALE : AS SHOWN

1
--



GRADE CHANGE - TRAIL CENTERLINE

HOR. SCALE: 1" = 10'
VER. SCALE: 1" = 5'

TRAIL SUPERELEVATION AT STATION 48+25 TO STATION 49+14

SCALE : AS SHOWN

2
--

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

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PUBLIC WORKS DEPARTMENT
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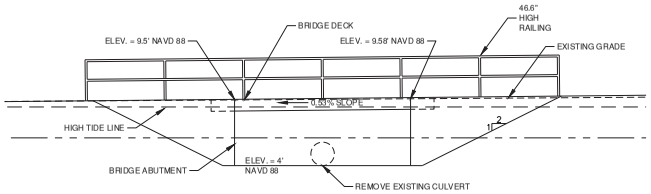
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

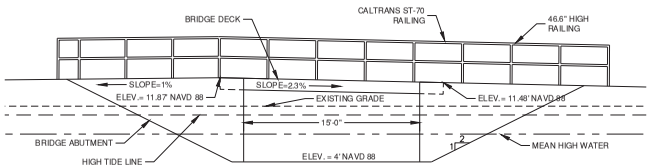
SCHEDULE OF GUARDRAILS AND TRAIL SUPERELEVATION

SHEET
C15
SHEET 182 OF 384
CIP PROJ. NUMBER
CIP 301-657



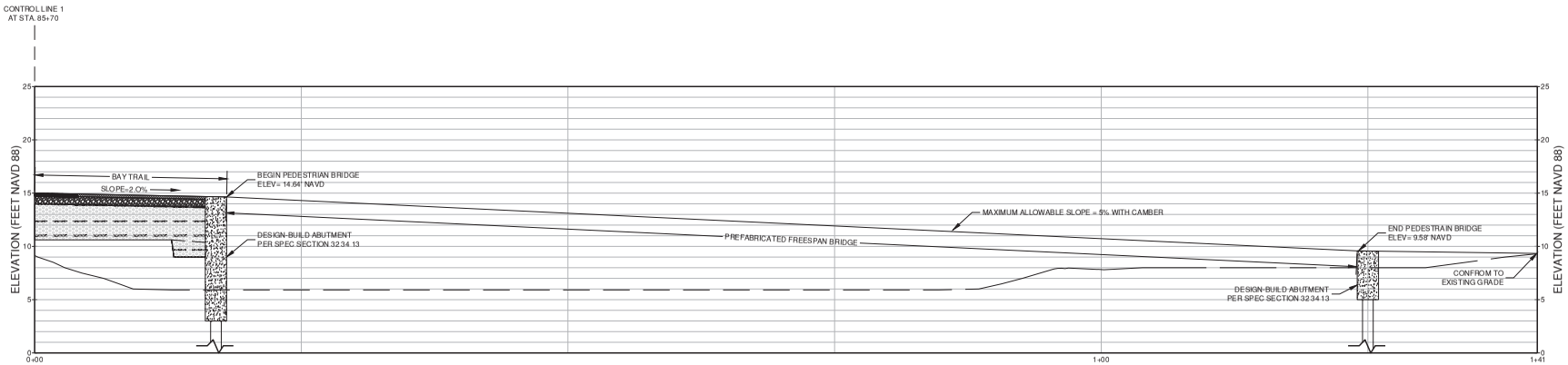
BAFFIN STREET BRIDGE SCHEMATIC CROSS SECTION 1

SCALE: 1" = 5'



EGRESS BRIDGE SCHEMATIC CROSS SECTION 2

SCALE: 1" = 5'



PROFILE AT CONTROL LINE A-8

HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

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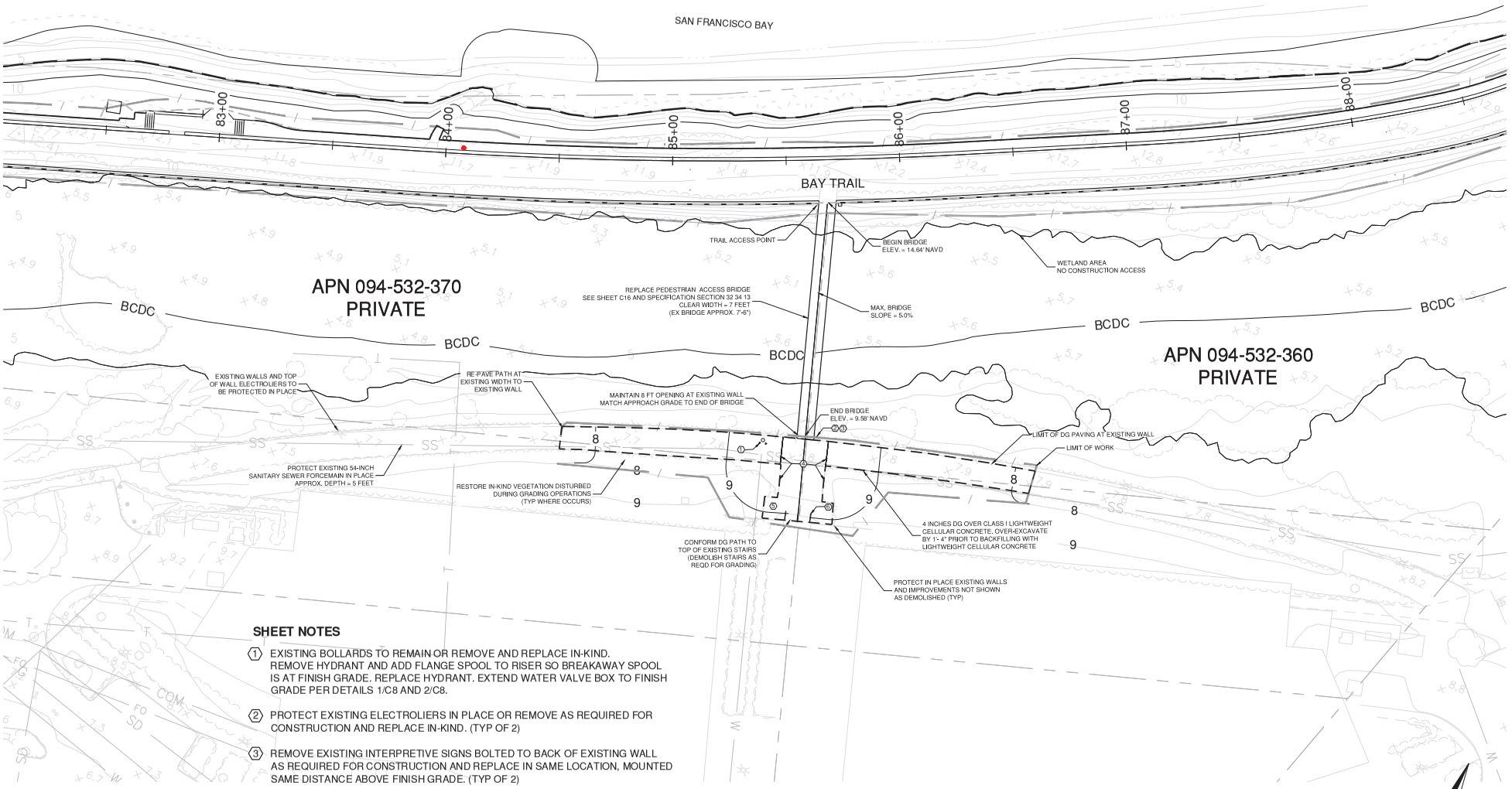
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

DESIGN-BUILD BRIDGE ELEVATIONS

SHEET
C16
SHEET 183 OF 384
CIP PROJ. NUMBER
CIP 301-657



SHEET NOTES

1. EXISTING BOLLARDS TO REMAIN OR REMOVE AND REPLACE IN-KIND. REMOVE HYDRANT AND ADD FLANGE SPOOL TO RISER SO BREAKAWAY SPOOL IS AT FINISH GRADE. REPLACE HYDRANT. EXTEND WATER VALVE BOX TO FINISH GRADE PER DETAILS 1/C8 AND 2/C8.
2. PROTECT EXISTING ELECTROLIERS IN PLACE OR REMOVE AS REQUIRED FOR CONSTRUCTION AND REPLACE IN-KIND. (TYP OF 2)
3. REMOVE EXISTING INTERPRETIVE SIGNS BOLTED TO BACK OF EXISTING WALL AS REQUIRED FOR CONSTRUCTION AND REPLACE IN SAME LOCATION, MOUNTED SAME DISTANCE ABOVE FINISH GRADE. (TYP OF 2)
4. DEMOLISH EXISTING PAVERS TO BOTTOM OF EXISTING STAIRS.
5. REMOVE AND REPLACE IN-KIND EXISTING FURNISHINGS: (2) BENCHES AND (2) TRASH RECEPTACLES.
6. DEMOLISH EXISTING FLOOR-MOUNTED HANDRAILS. (TYP OF 3)

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARQ
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

BAYSIDE TOWERS REGRADING AND PEDESTRIAN BRIDGE PLAN

SHEET
C17
SHEET 184 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/11/2020 FILE PATH: C:\Users\ADam\Desktop\Conform Plans CD\AC Sheets\BAYSIDE TOWERS_Conform\BAYSIDE TOWERS_Conform.dwg

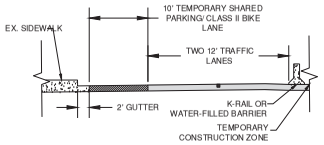
XREFS: X-Title Block, X-Topo - Hwy 92 Bridge, X-FINAL AERIAL TOPO - 18-793-ALL, X-UTILITIES, 90% FINAL GRADING

NOTES:

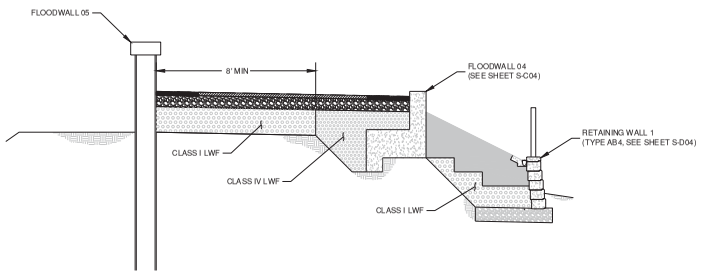
1. FOR TRANSITIONS FROM LIGHTWEIGHT FILL TO NORMAL WEIGHT FILL, REDUCE LIGHTWEIGHT FILL BY 1 FOOT PER 10 LINEAR FEET OF TRAIL.
2. FOR LINEAR TRANSITIONS BETWEEN LIGHTWEIGHT FILL CLASS , USE VERTICAL TRANSITION BETWEEN FILL TYPES.
3. SEE DETAIL 4 THIS SHEET FOR TYPICAL LIGHTWEIGHT FILL CLASS TRANSITION FOR CONTROL LINE 1 STATION 49+25 TO STATION 49+97.7
4. USE LIGHTWEIGHT FILL CLASS MATCHING RW-07 ACROSS ENTIRE SECTION INCLUDING RW-01 BACKFILL, FROM CONTROL LINE 1 STATION 68+98.5 TO STATION 69+34.

NAME OF WALL	APPROX. BEGIN STATION ON CONTROL LINE 1	APPROX. END STATION ON CONTROL LINE 1	AVERAGE WIDTH, FT	LW FILL CLASS OR DENSITY, PCF
FW-01	9+29	13+17.4	18	IV
FW-02	13+17.4	14+23.3	18	IV
FW-03	45+77.4	46+17.7	25	IV
FW-04	46+17.7	49+97.6	10	IV
FW-05	49+25	68+98.5	18	I
RW-01	49+45.1	56+00.	8	I
FW-06	56+34	57+19.3	8	IV
FW-23	63+02.9	63+42	8	IV
RW-02	63+24.4	85+64	4	I
FW-07	68+98.5	69+34	17	IV
FW-07	69+34.	69+74	17	I
FW-07	69+74.	70+19	8	IV
FW-08	69+91.4	98+25	18	I
FW-09	82+70.7	83+10	8	I
RW-39	93+69.5	95+01	8	I
RW-39	93+69.5	95+00.5	8	I
FW-24	93+80.	94+15	8	IV
FW-10	96+98	99+70.9	9	IV
FW-25	99+71	101+25.	9	IV
FW-11	101+25	103+58.5	9	II
FW-12	102+58.8	113+25	18	II
RW-05	106+34.7	109+25.3	8	I
RW-06	112+15.8	112+34.7	8	I
RW-07	112+44.7	112+93.4	8	I
RW-08	113+05.9	112+49.8	8	I
FW-12	113+25.	134+25	18	I
n/a	118+14	118+28.1	5	I
RW-09	121+53	122+49.	8	I
RW-40	122+48.9	122+48.9	8	I
RW-42	130+55.7	130+55.7	8	I
RW-13	130+65.7	131+42.8	8	I
RW-14	131+53.8	130+92.4	8	I
FW-12	134+25.	142+50	18	I
FW-12	142+50	143+25	18	II
FW-12	143+25	170+00	18	I
RW-15	144+50.3	144+50.3	8	I
RW-16	144+49.3	144+70.9	8	I
RW-17	144+66.3	144+79.9	8	I
RW-18	152+54.5	153+09.8	8	I
RW-19	152+65.6	153+40.2	8	I
RW-20	153+50.3	153+50.3	8	I
n/a	153+79.	153+93.4	5	I
FW-31	153+04.5	153+50.5	8	IV
FW-28	159+65.5	159+79.4	9	IV
RW-22	164+80	166+17.5	8	I
RW-24	166+39.1	166+62.6	8	I
FW-30	168+46.4	168+85.7	8	IV
FW-12	170+00.	182+91	18	III
RW-45	177+60.	178+79.1	8	I
RW-26	178+79.7	179+00.3	8	I
RW-27	178+89.2	179+17.2	8	I
RW-29	179+17.2	182+90.8	10	I
RW-30	182+91.	185+51.2	9	I
FW-12	182+91.	185+51.2	9	III
FW-12	185+50.	188+00	18	III
RW-46	200+24.8	200+24.8	8	I
FW-34	200+24.8	207+00	18	III
RW-31	206+36.2	206+57.2	8	I
RW-32	206+67.7	206+67.7	8	I
RW-33	216+64	216+98.2	9	I
RW-34	216+94.5	217+25.3	10	I
FW-16	227+62	228+43	18	I
RW-35	262+38.4	262+57	8	I
RW-38	305+03.3	305+61.1	8	I
RW-45	177+60.	178+79.1	9	I
RW-46	200+24.8	200+24.8	10	I

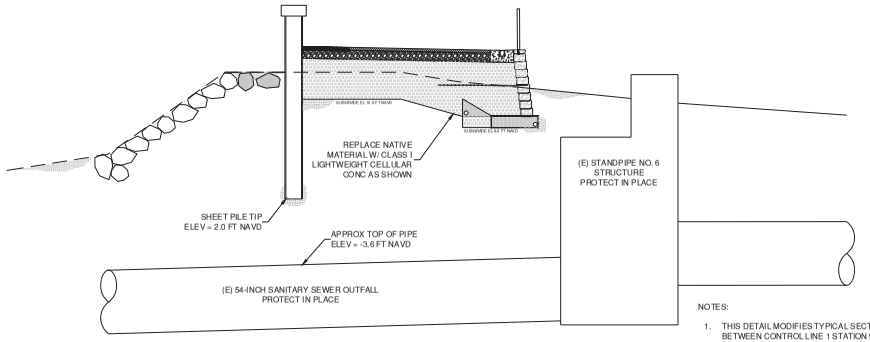
LIGHTWEIGHT FILL SCHEDULE (1)
SCALE : NTS



TEMPORARY STRIPING ON BEACH PARK BLVD. (2)
SCALE : NTS



LEIGHTWEIGHT FILL TRANSITION STATIONS 49+28 TO 49+98 (4)
SCALE : NTS



NOTES:

1. THIS DETAIL MODIFIES TYPICAL SECTION "H" (SHEET TCX 03) BETWEEN CONTROL LINE 1 STATION 95+40 AND STATION 96+40.
2. LONGITUDINAL TRANSITIONS FROM LIGHTWEIGHT CELLULAR FILL SUBGRADE AT ELEVATION 7 FEET TO ADJACENT LIGHTWEIGHT CELLULAR FILL SUBGRADE ELEVATIONS SHALL BE AT 1:1
3. MODIFY SHEET PILE DRIVING INSTALLATION TECHNIQUE AS REQUIRED TO AVOID DAMAGE TO (E) SSFM OUTFALL.
4. BRACE INSTALLED SHEET PILE WALL AGAINST MOVEMENT AS REQUIRED DURING OVER-EXCAVATION.

54-INCH SEWER OUTFALL PROTECTION DETAIL (3)
SCALE : NTS

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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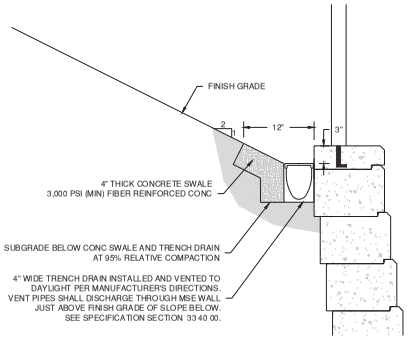
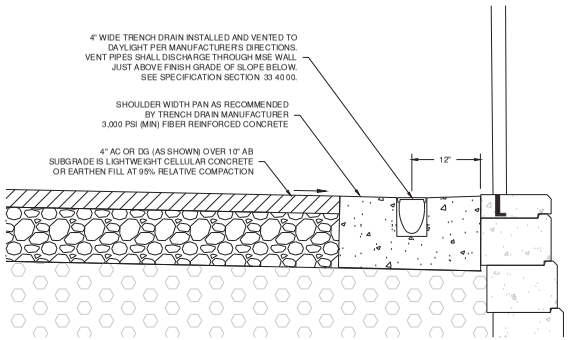
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

MISCELLANEOUS CONSTRUCTION DETAILS

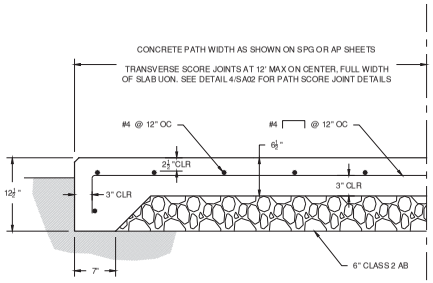
SHEET C18
SHEET 185 OF 384
CIP PROJ. NUMBER CIP 301-657



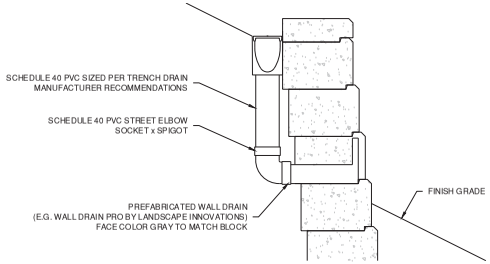
CONCRETE SWALE AT TOE OF SLOPE 1 --
SCALE : NTS

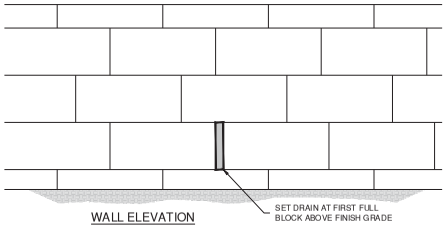


TRENCH DRAIN AT WALL (TYPICAL) 2 --
SCALE : NTS

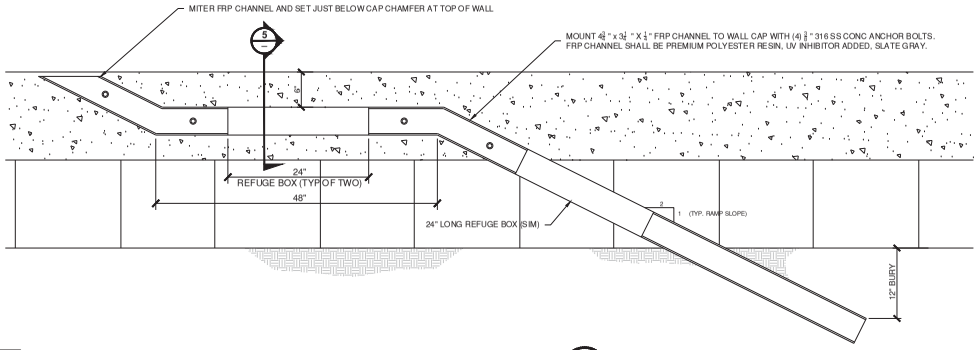


STANDARD CONCRETE PATH 3 --
SCALE : NTS

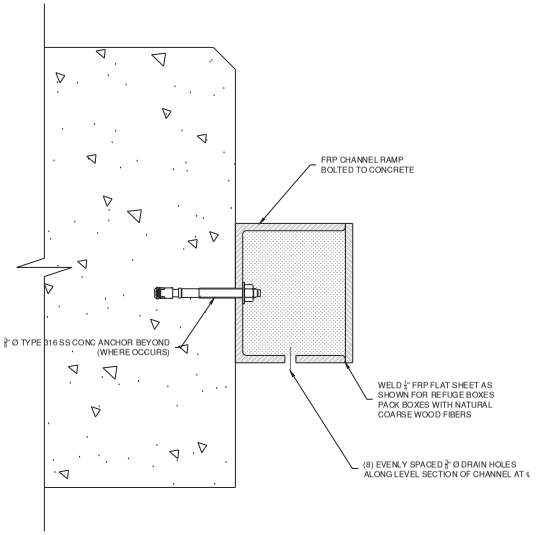




TYPICAL TRENCH DRAIN VENT 6 --
SCALE : NTS



MOUSE REFUGE RAMP 4 --
SCALE : NTS



FRP CHANNEL MOUNTING DETAIL 5 --
SCALE : NTS

SCALE VERIFICATION

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0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ES
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ES
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	07/31/20	CONFORMED SET

CITY OF FOSTER CITY
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SANTA CLARA, CA 95050
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

MISCELLANEOUS CONSTRUCTION DETAILS

SHEET
C19
SHEET 186 OF 384
CIP PROJ. NUMBER
CIP 301-657

THIS SHEET IS RESERVED

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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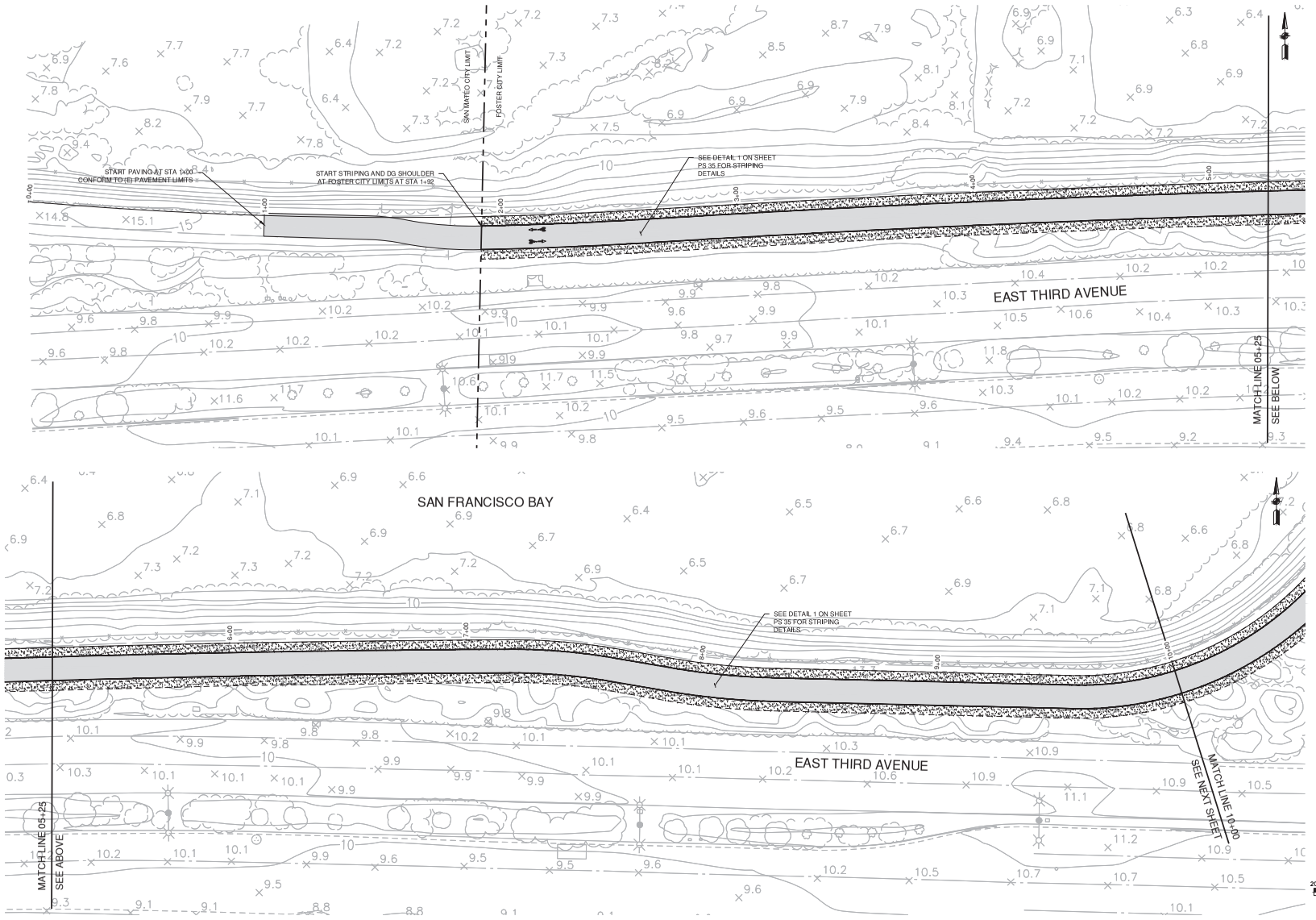
CIP 301-657

MISCELLANEOUS CONSTRUCTION DETAILS

SHEET
C20
SHEET 187 OF 384

CIP PROJ. NUMBER
CIP 301-657



NOTES:

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   SEE SHEET PILE INSTALLATION AND GRADING PLAN FOR PROJECT PLAN AND PROFILE INFORMATION.
   SEE FLOODWALL AND RETAINING WALL SHEETS FOR FLOODWALL AND RETAINING WALL DETAILS.
   SEE CROSS SECTION SHEETS FOR LEVEE CROSS SECTIONS.
   SEE CIVIL SHEETS FOR OTHER DETAILS.
2. PROVIDE PAVEMENT MARKINGS NEAR EACH ACCESS POINT AND PROVIDE PEDESTRIAN CROSSING THROUGH BICYCLE LANES, AS SHOWN.
3. CONTRACTOR TO REMOVE ANY TEMPORARY STRIPING FROM BEACH PARK BOULEVARD AND RE-STRIP TO MATCH THE ORIGINAL STRIPING LAYOUT.

LEGEND

- AC PAVEMENT, SEE SPECIFICATION 32 12 16 (1/PS)
- SHOULDER PAVEMENT, SEE SPECIFICATION SECTION 32 15 40 (1/PS)
- CONCRETE SLAB, SEE LANDSCAPE PLANS FOR DETAILING
- BICYCLE PATH MARKINGS
- PEDESTRIAN PATH MARKINGS

SCALE VERIFICATION

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0 1"

20 0 20 40

SCALE: 1 INCH = 20 FEET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ES	7/31/20	CONFORMED SET

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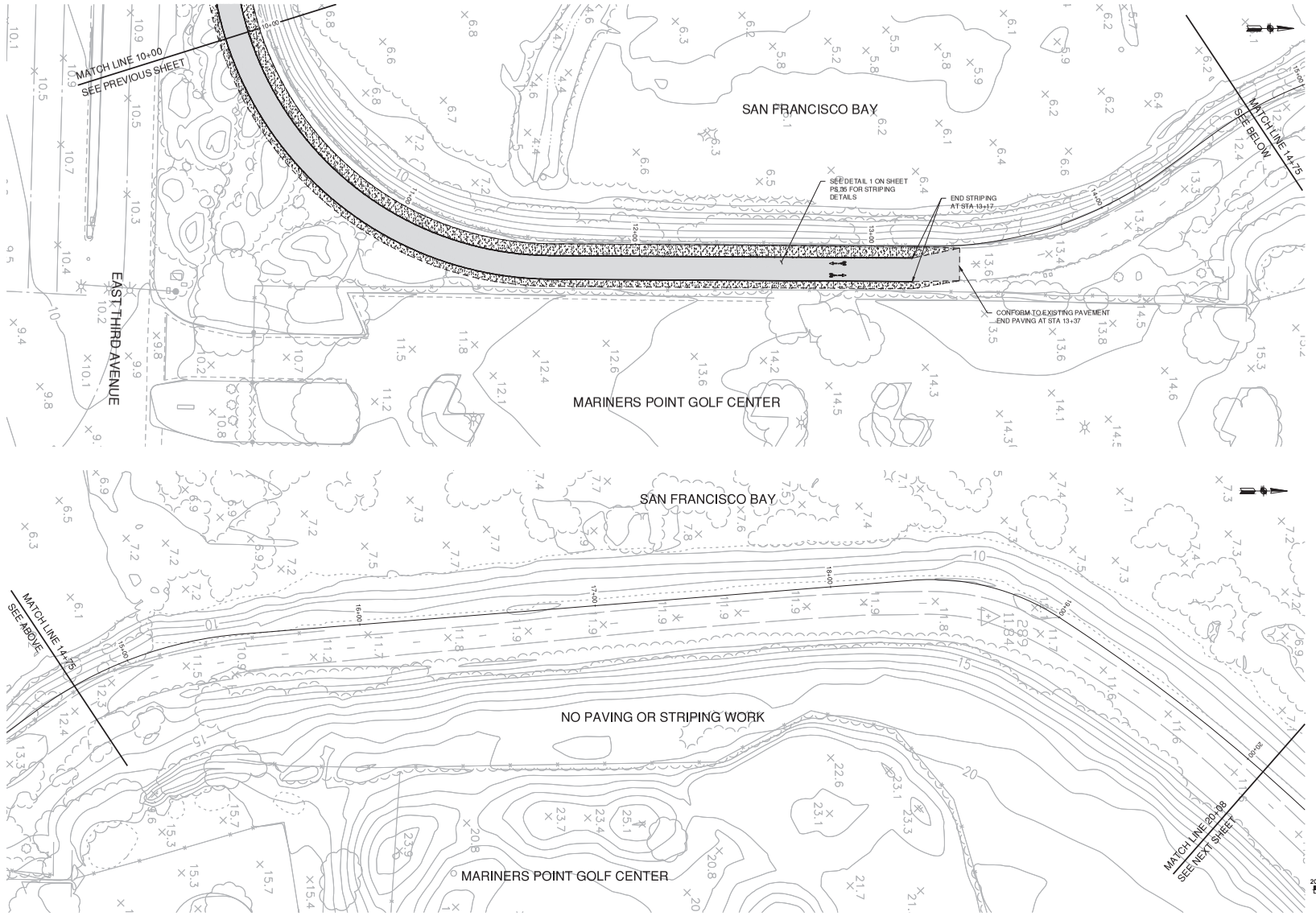
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 01
SHEET 251 OF XXX
CIP PROJ NUMBER
CIP 301-657



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LEGEND

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- SHOULDER PAVEMENT, SEE SPECIFICATION SECTION 32 15 40 (1/CIP)
- CONCRETE SLAB, SEE LANDSCAPE PLANS FOR DETAILING
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- PEDESTRIAN PATH MARKINGS

SCALE VERIFICATION

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0 1"

20 0 20 40

SCALE: 1 INCH = 20 FEET

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DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
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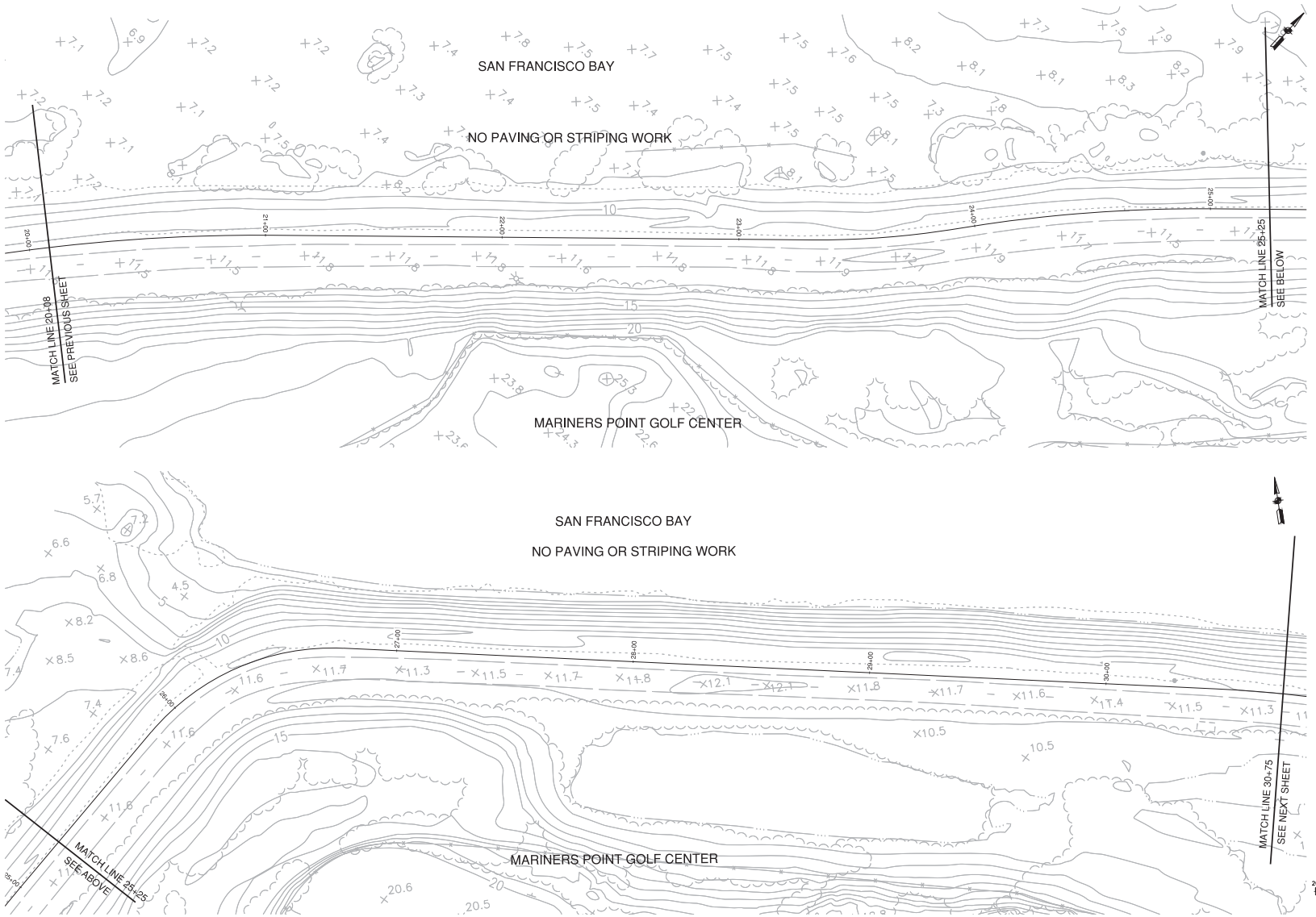
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 02
SHEET 189 OF 384

CIP PROJ. NUMBER
CIP 301-657



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LEGEND

- AC PAVEMENT, SEE SPECIFICATION SECTION 32 12 16 (1/C10)
- SHOULDER PAVEMENT, SEE SPECIFICATION SECTION 32 15 40 (1/C10)
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- BICYCLE PATH MARKINGS
- PEDESTRIAN PATH MARKINGS

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: ES				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: ES				
CHECKED BY: CDA				
SURVEYED BY: WILSEY-HAM	1	ES	7/31/20	CONFORMED SET
	NO.	BY	DATE	REVISIONS

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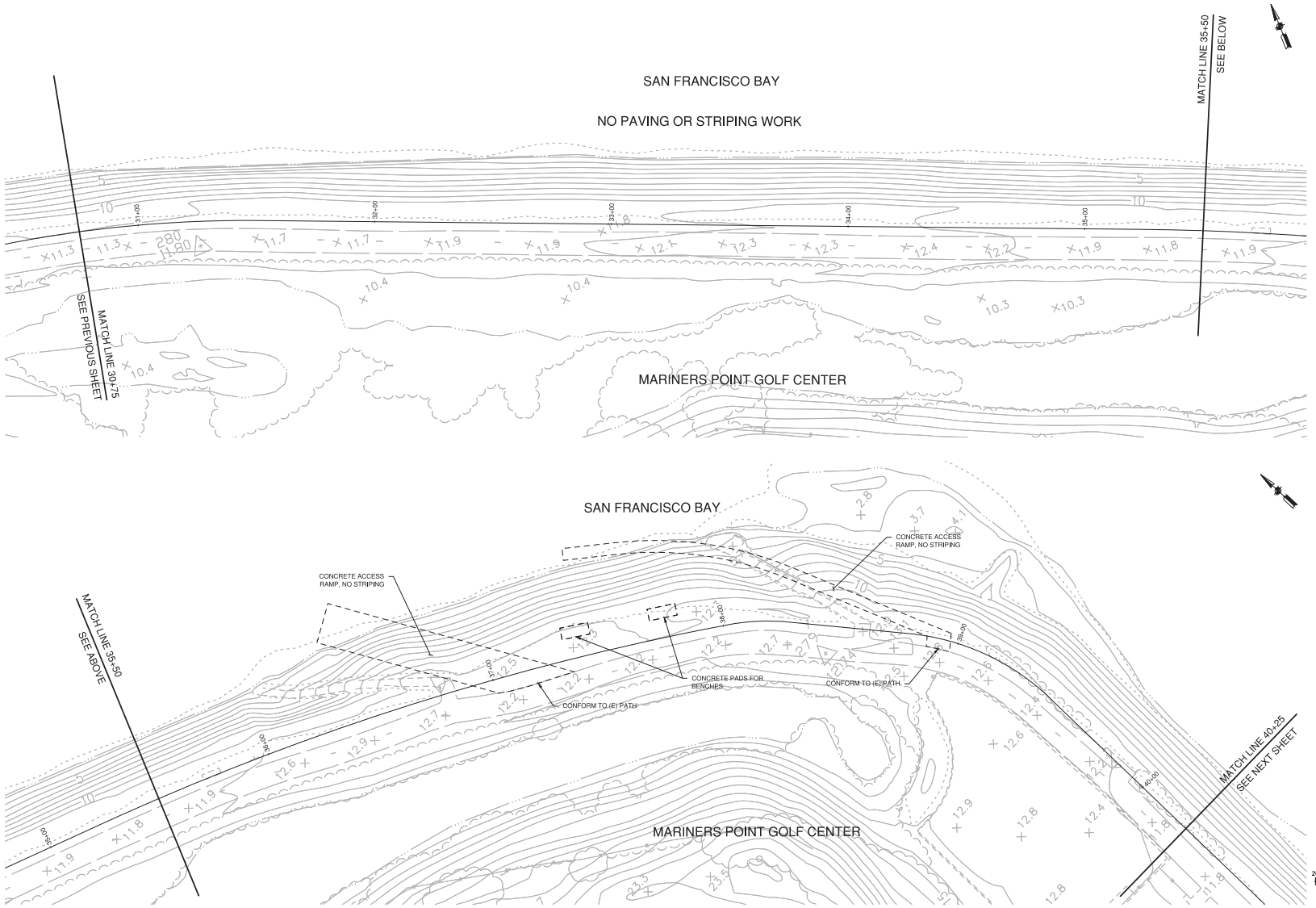
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 03
SHEET 190 OF 384

CIP PROJ. NUMBER
CIP 301-657



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LEGEND

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SCALE VERIFICATION

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0 1"

20 0 20 40

SCALE: 1 INCH = 20 FEET

DATE:	4/24/2020
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DRAWN BY:	ES
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PAVING AND STRIPING PLAN

SHEET
PS 04
SHEET 191 OF 384

CIP PROJ. NUMBER
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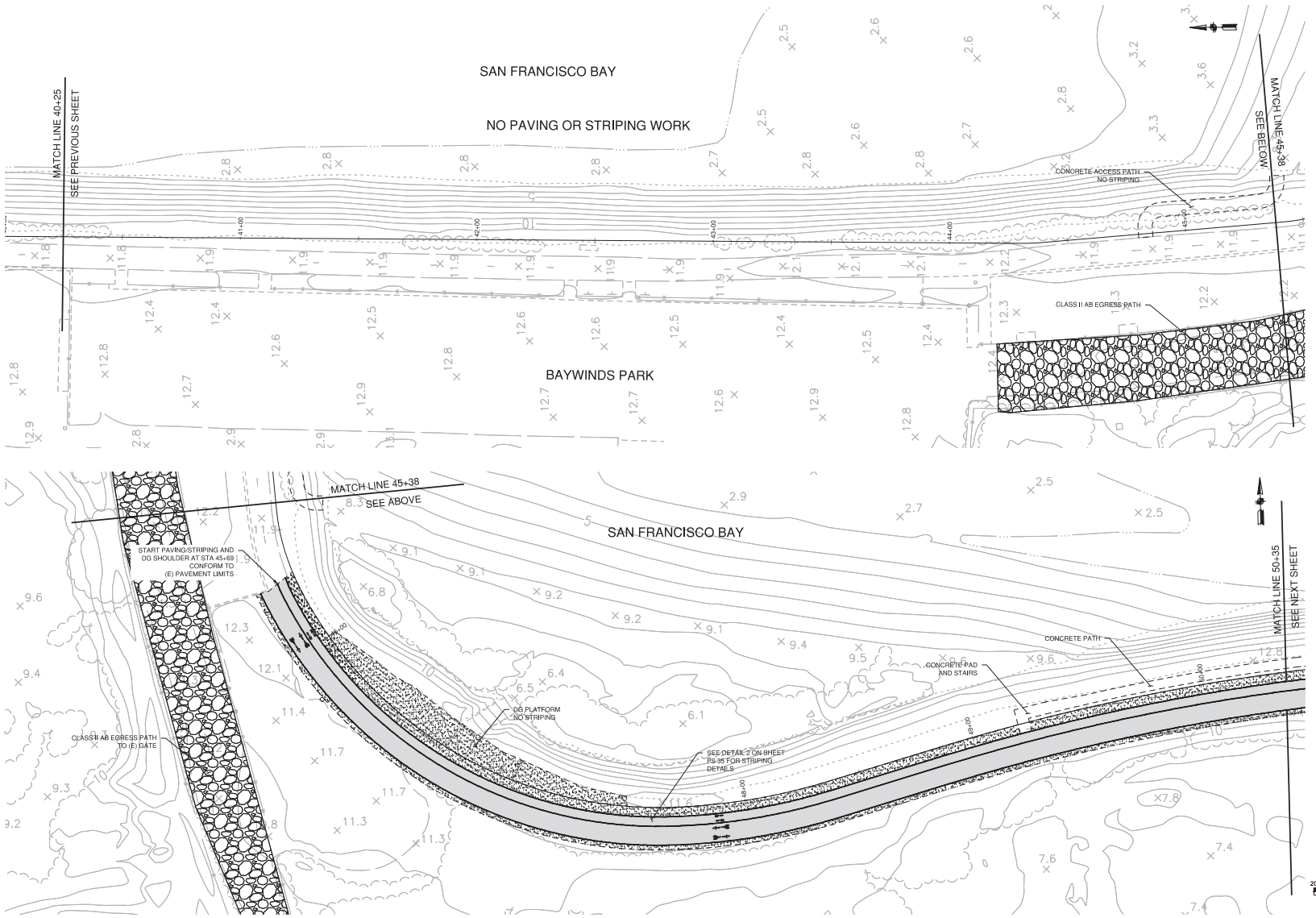

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LEGEND

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- PEDESTRIAN PATH MARKINGS

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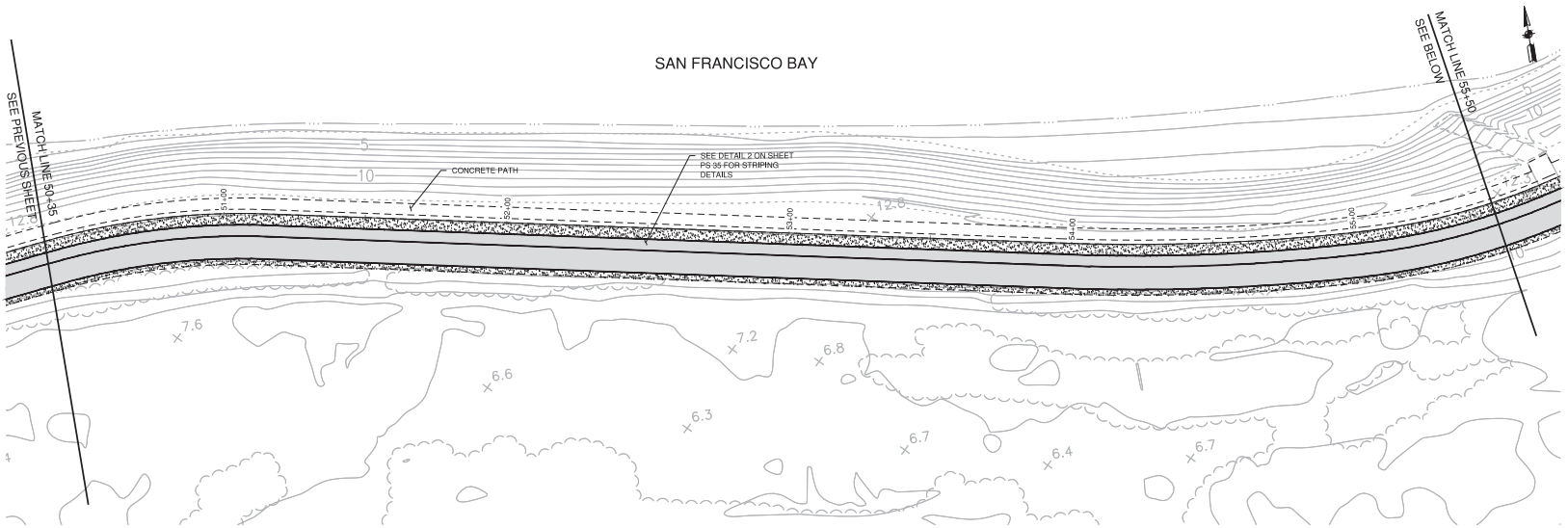
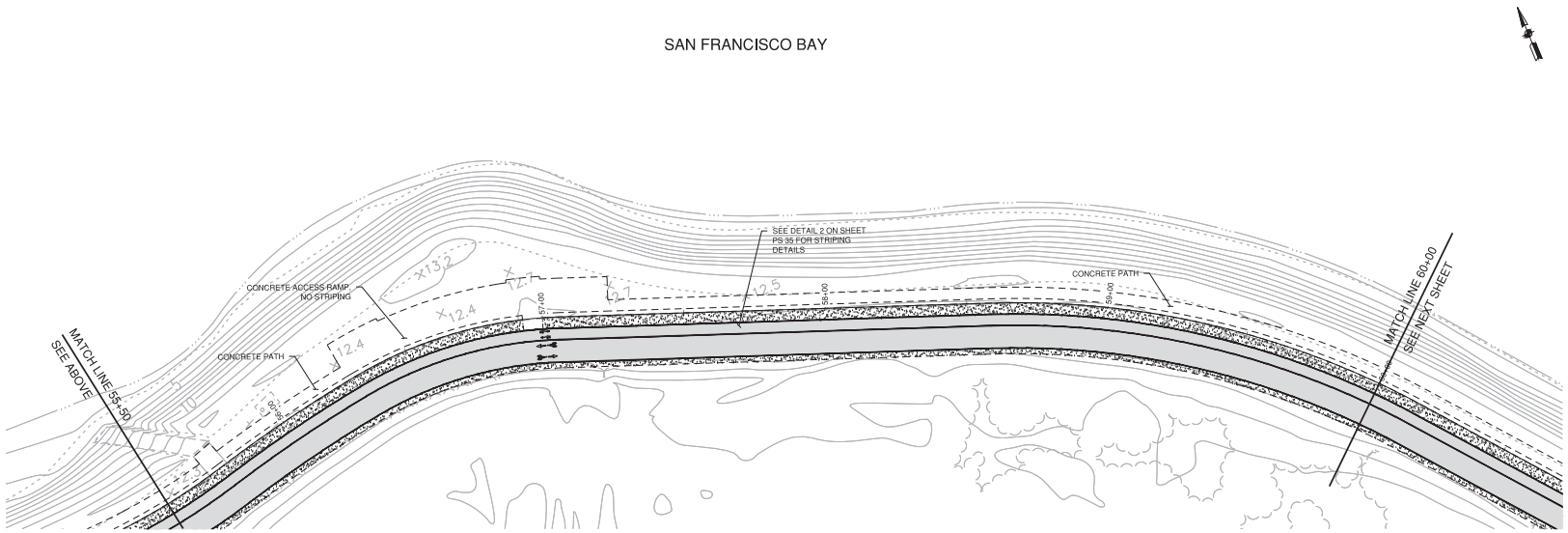
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 05
SHEET 192 OF 384

CIP PROJ. NUMBER
CIP 301-657





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3. CONTRACTOR TO REMOVE ANY TEMPORARY STRIPING FROM BEACH PARK BOULEVARD AND RE-STRIP TO MATCH THE ORIGINAL STRIPING LAYOUT.

LEGEND

- AC PAVEMENT, SEE SPECIFICATION SECTION 32 12 16 (1/PS)
- SHOULDER PAVEMENT, SEE SPECIFICATION SECTION 32 15 40 (1/PS)
- CONCRETE SLAB, SEE LANDSCAPE PLANS FOR DETAILING
- BICYCLE PATH MARKINGS
- PEDESTRIAN PATH MARKINGS

SCALE VERIFICATION

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0 1"

20 0 20 40

SCALE: 1 INCH = 20 FEET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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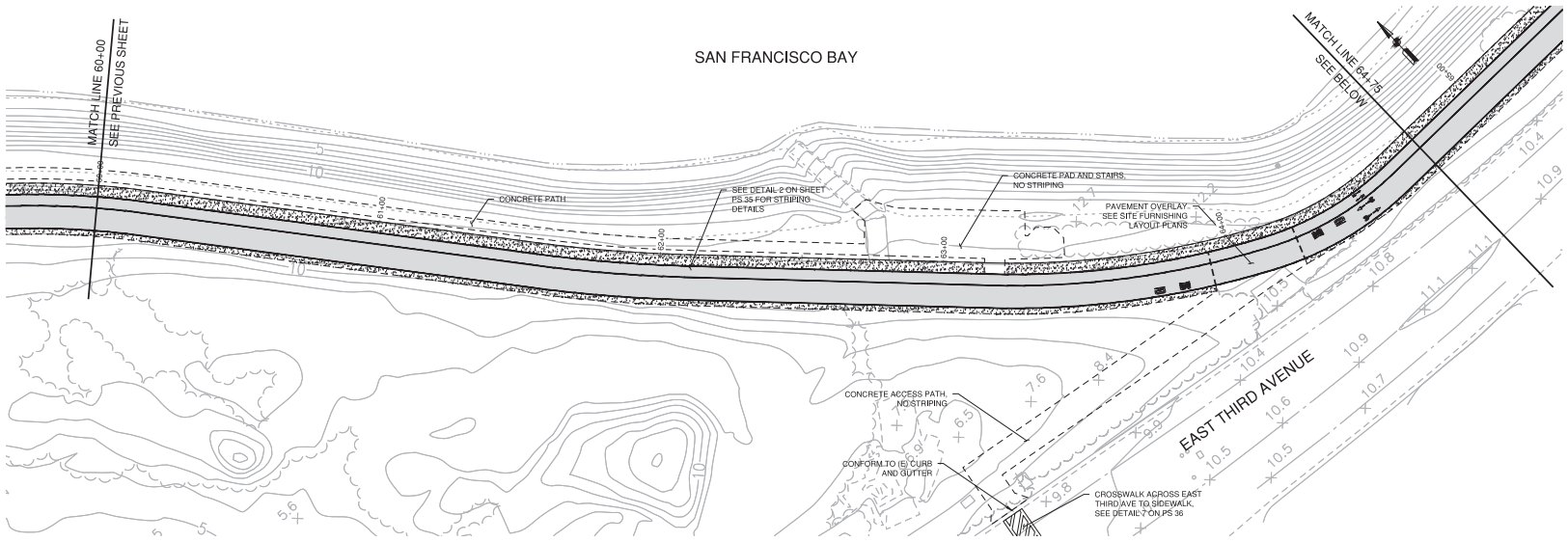
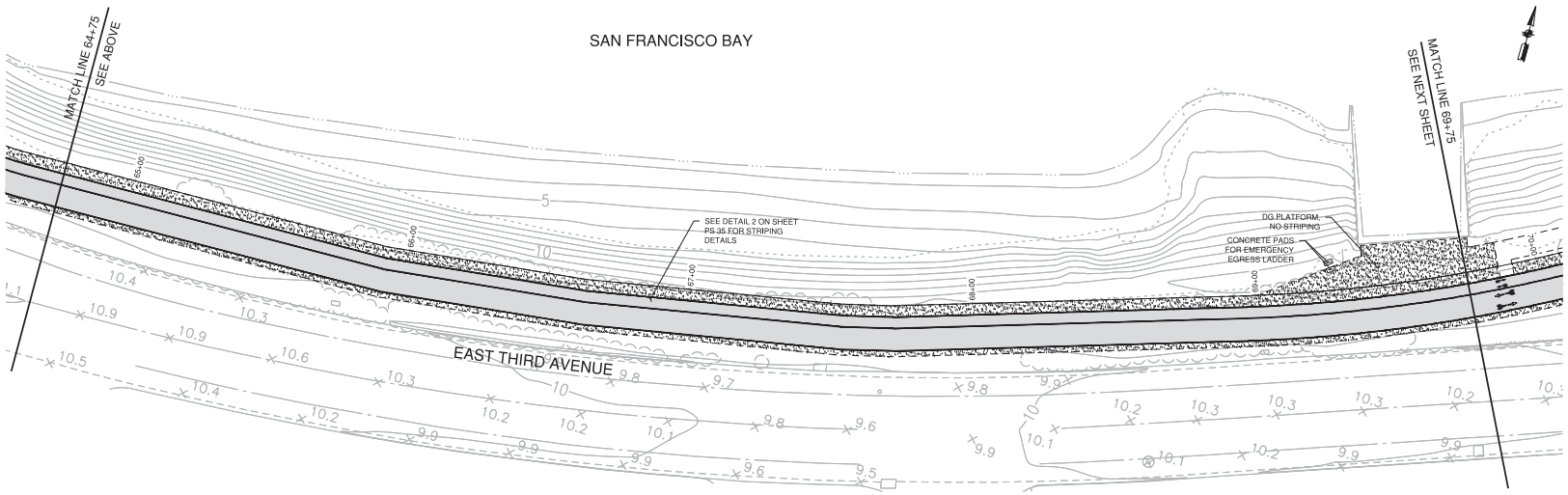
PAVING AND STRIPING PLAN

SHEET
PS 06
SHEET 193 OF 384

CIP PROJ. NUMBER
CIP 301-657





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LEGEND

- AC PAVEMENT, SEE SPECIFICATION SECTION 32 12 16 (1/C10)
- SHOULDER PAVEMENT, SEE SPECIFICATION SECTION 32 15 40 (1/C10)
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- PEDESTRIAN PATH MARKINGS

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0 1"

20 0 20 40

SCALE: 1 INCH = 20 FEET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ES	7/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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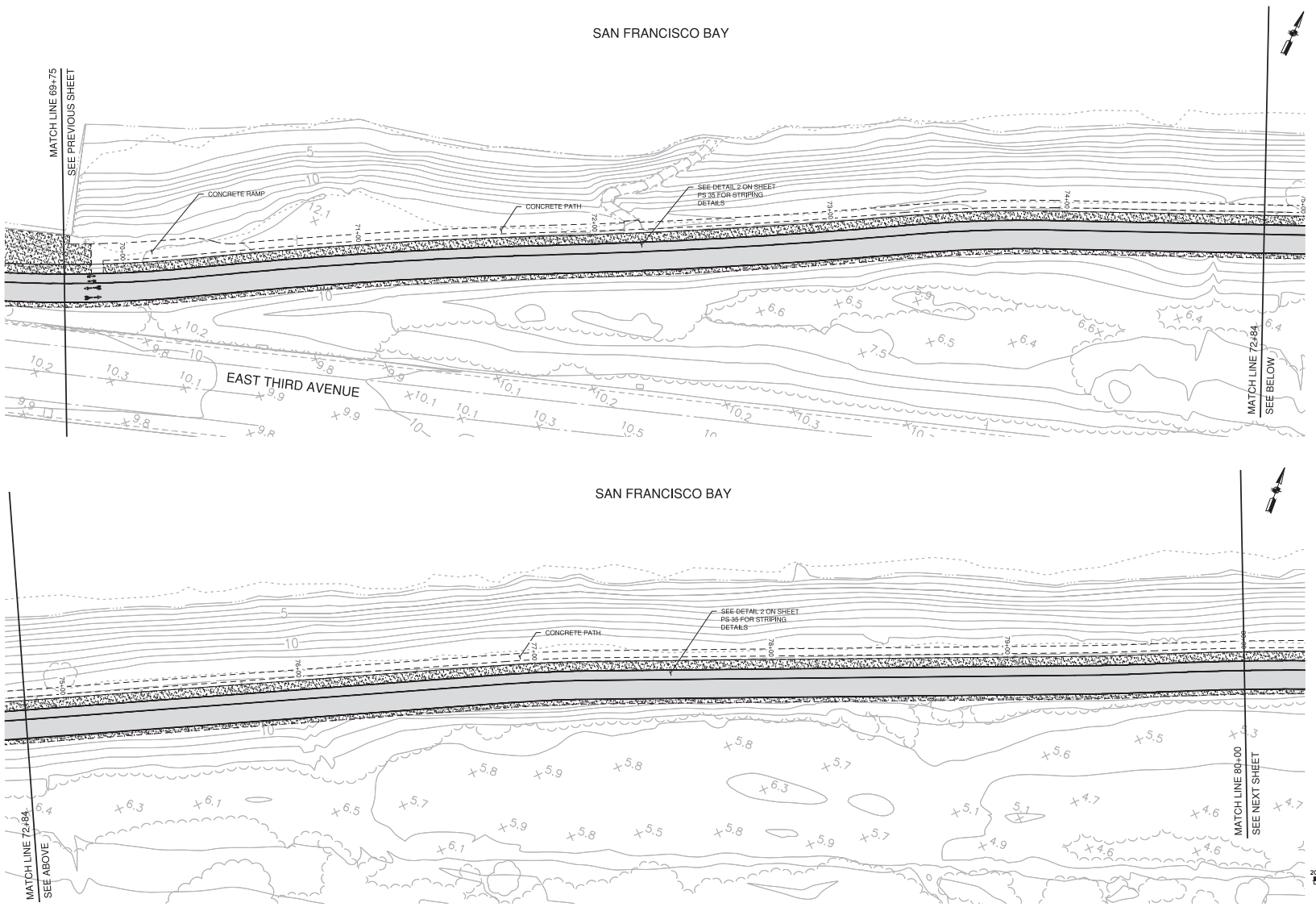
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 07
SHEET 194 OF 384

CIP PROJ. NUMBER
CIP 301-657



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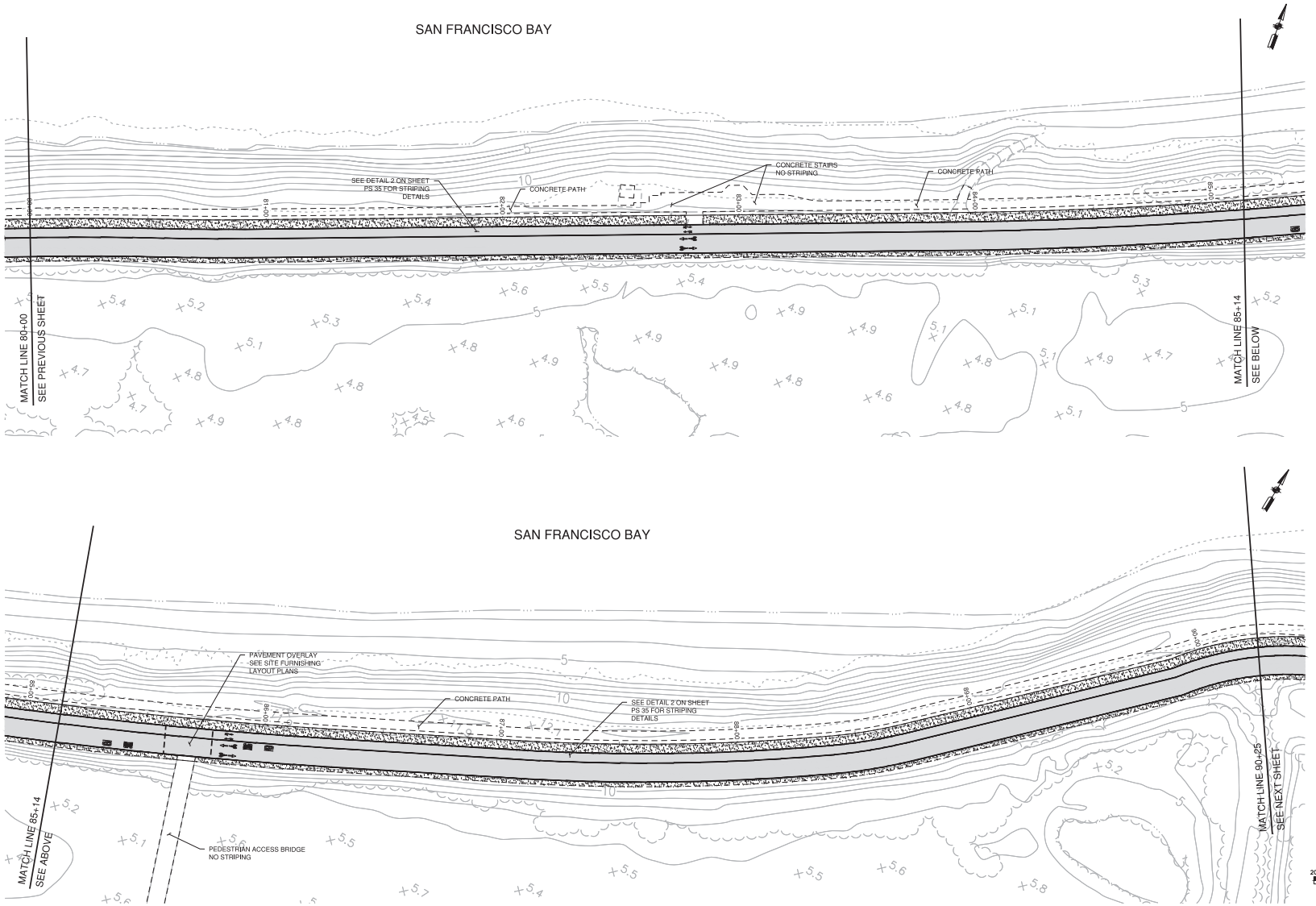

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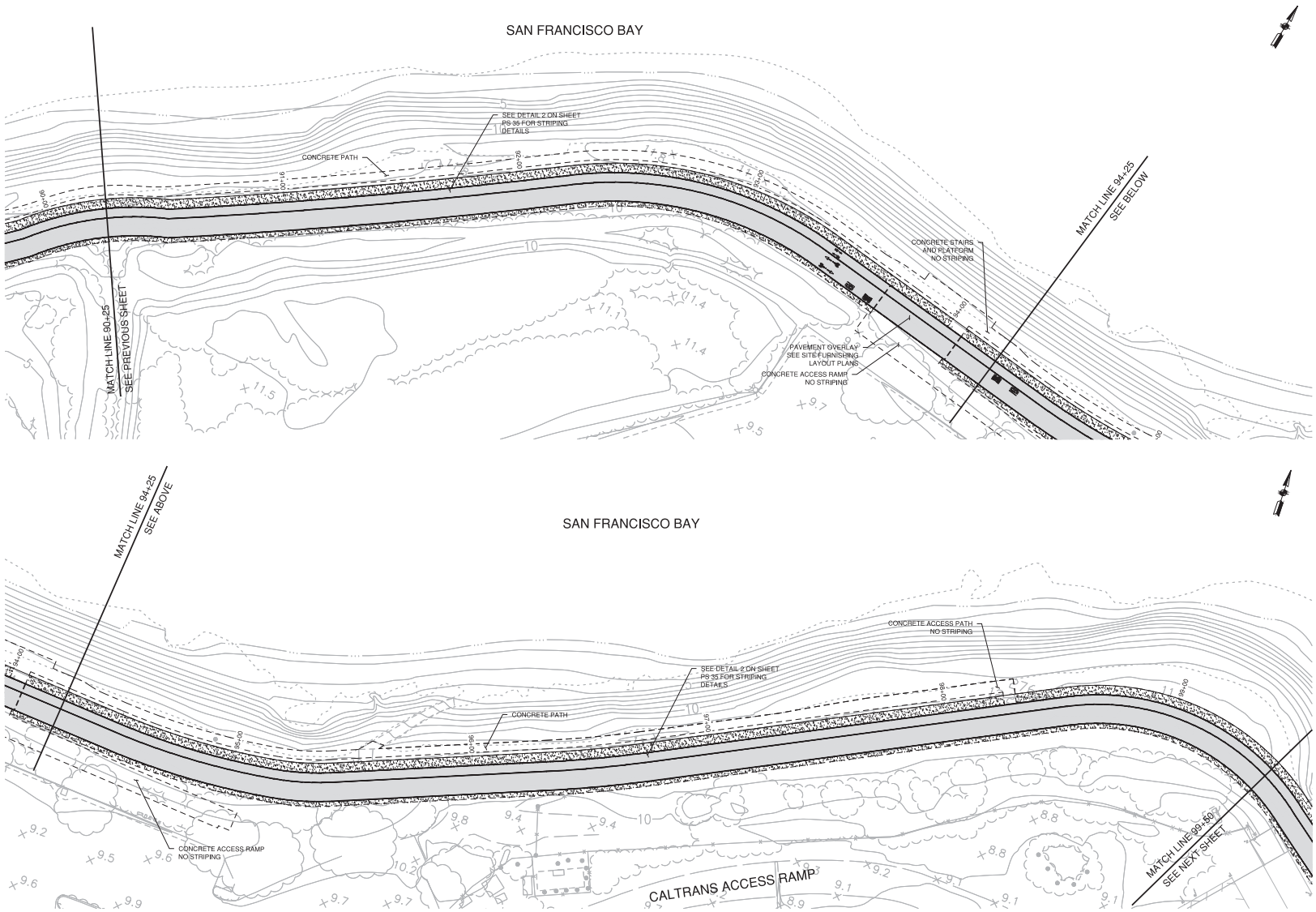

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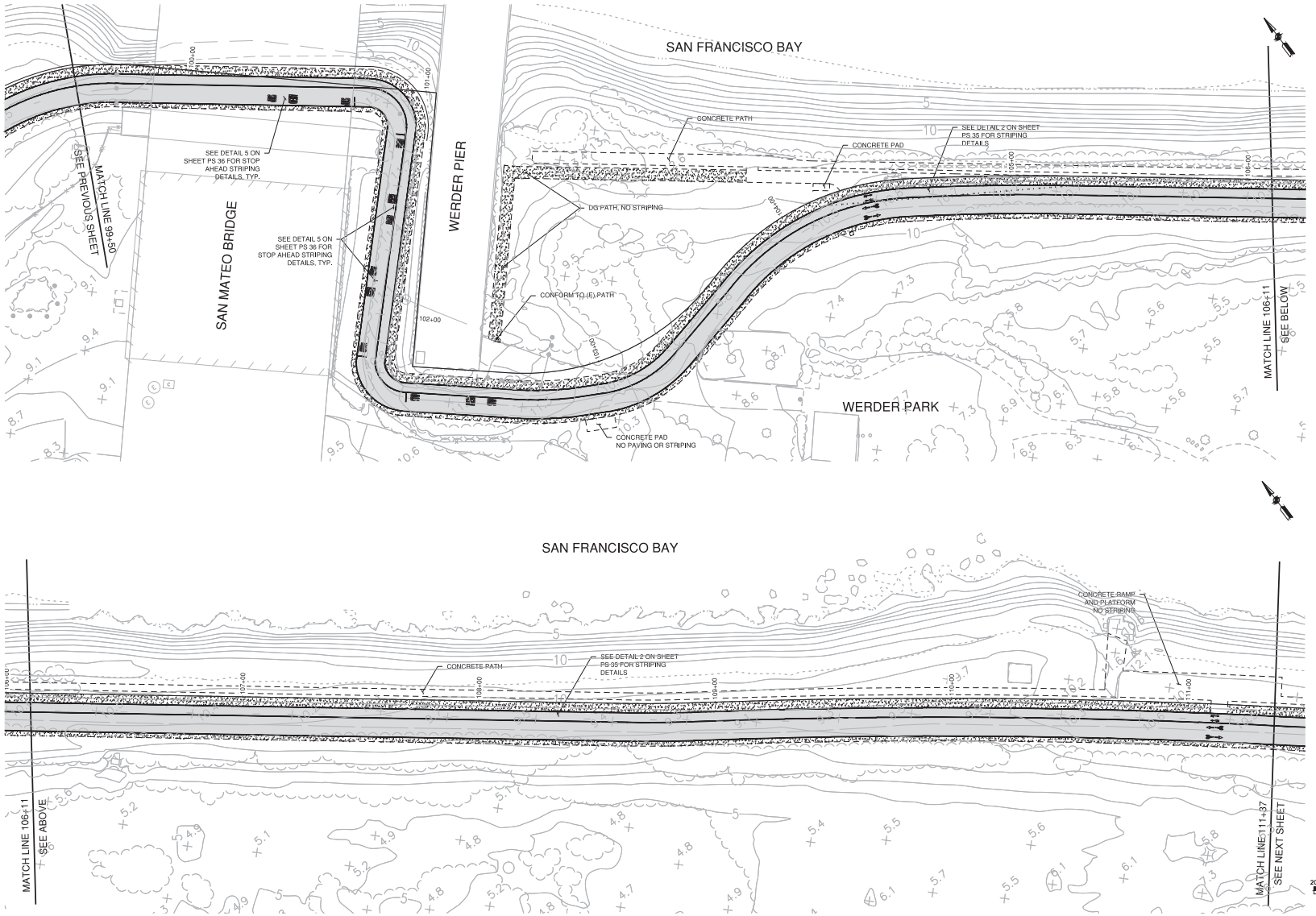

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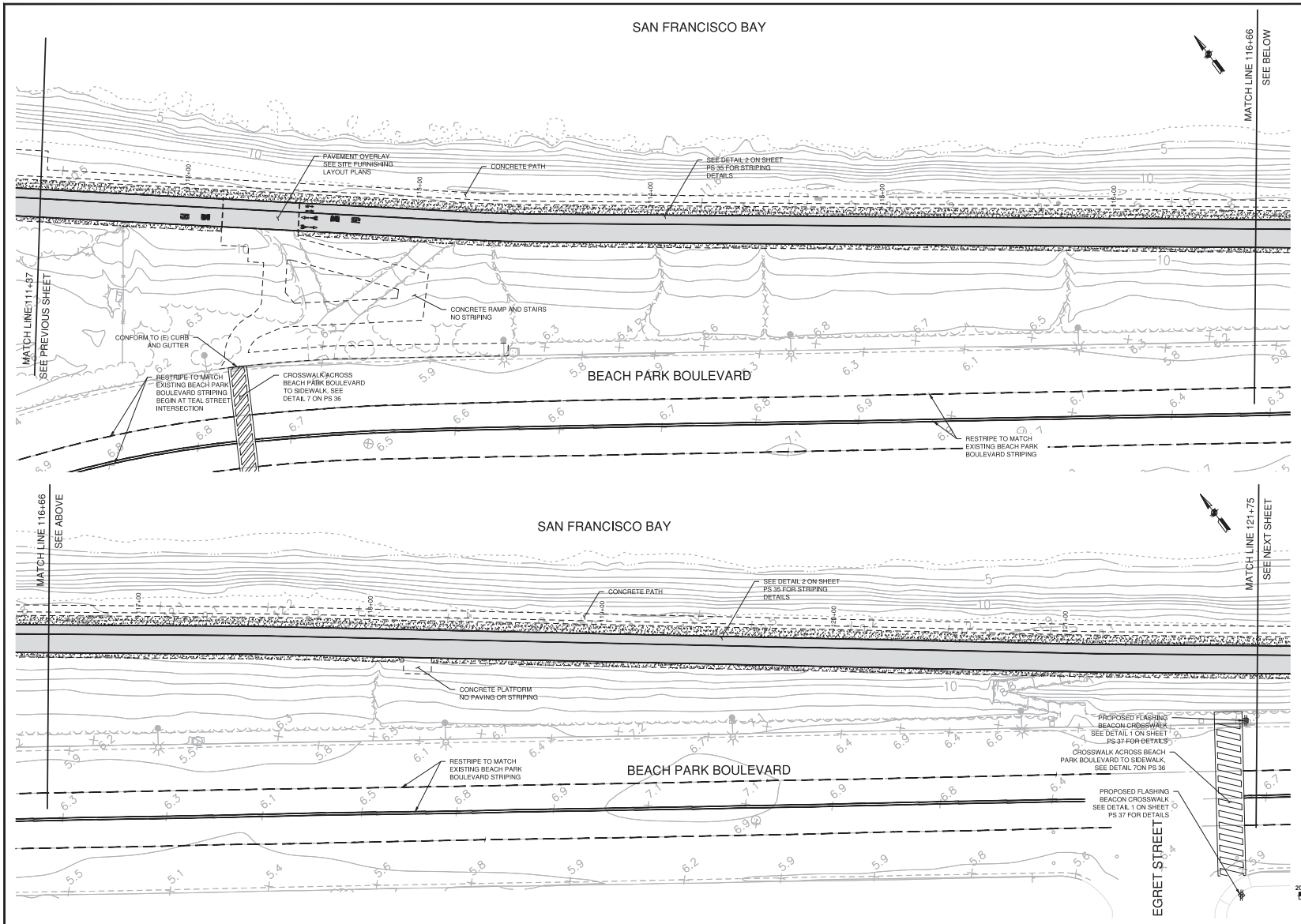

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PAVING AND STRIPING PLAN

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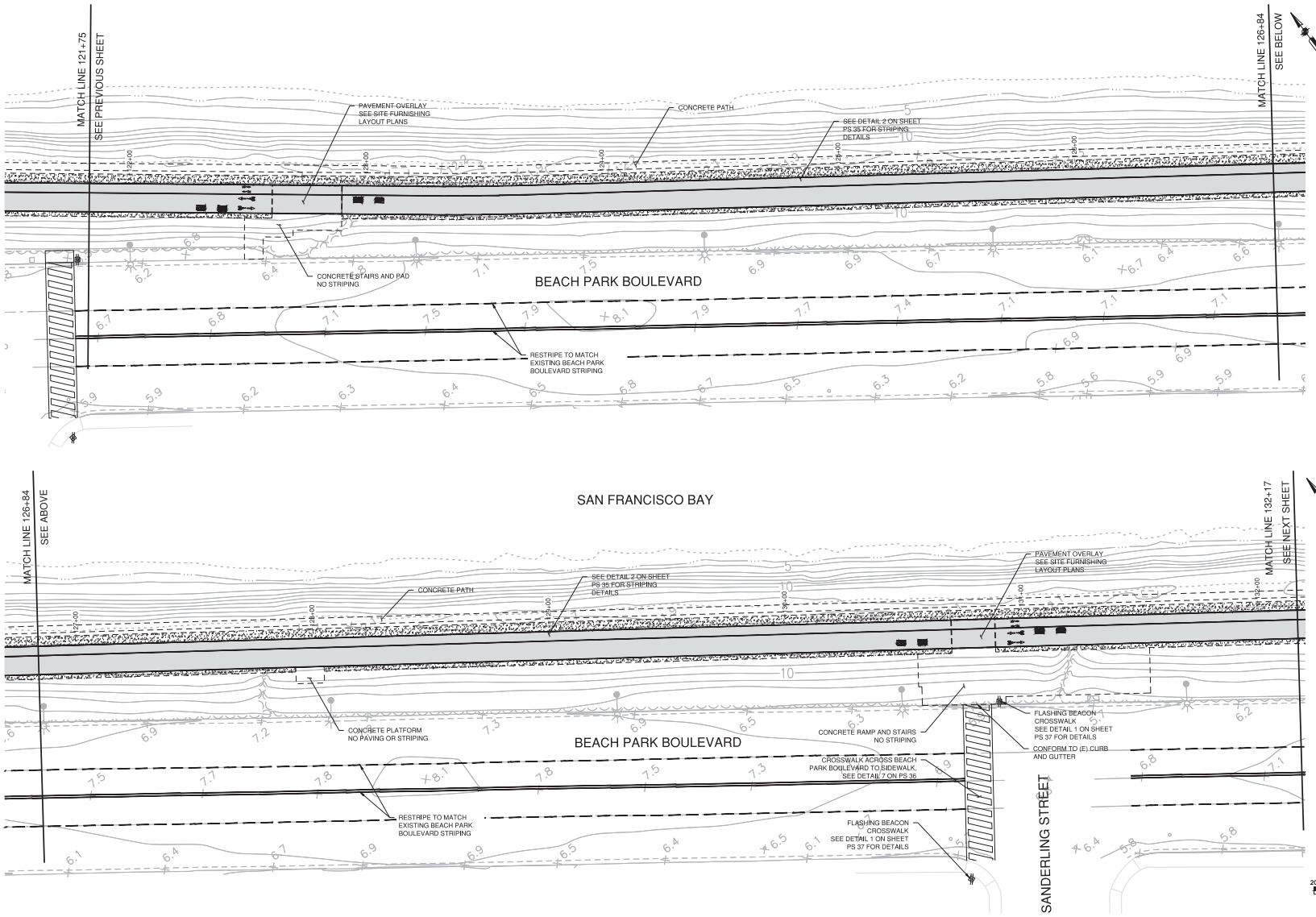

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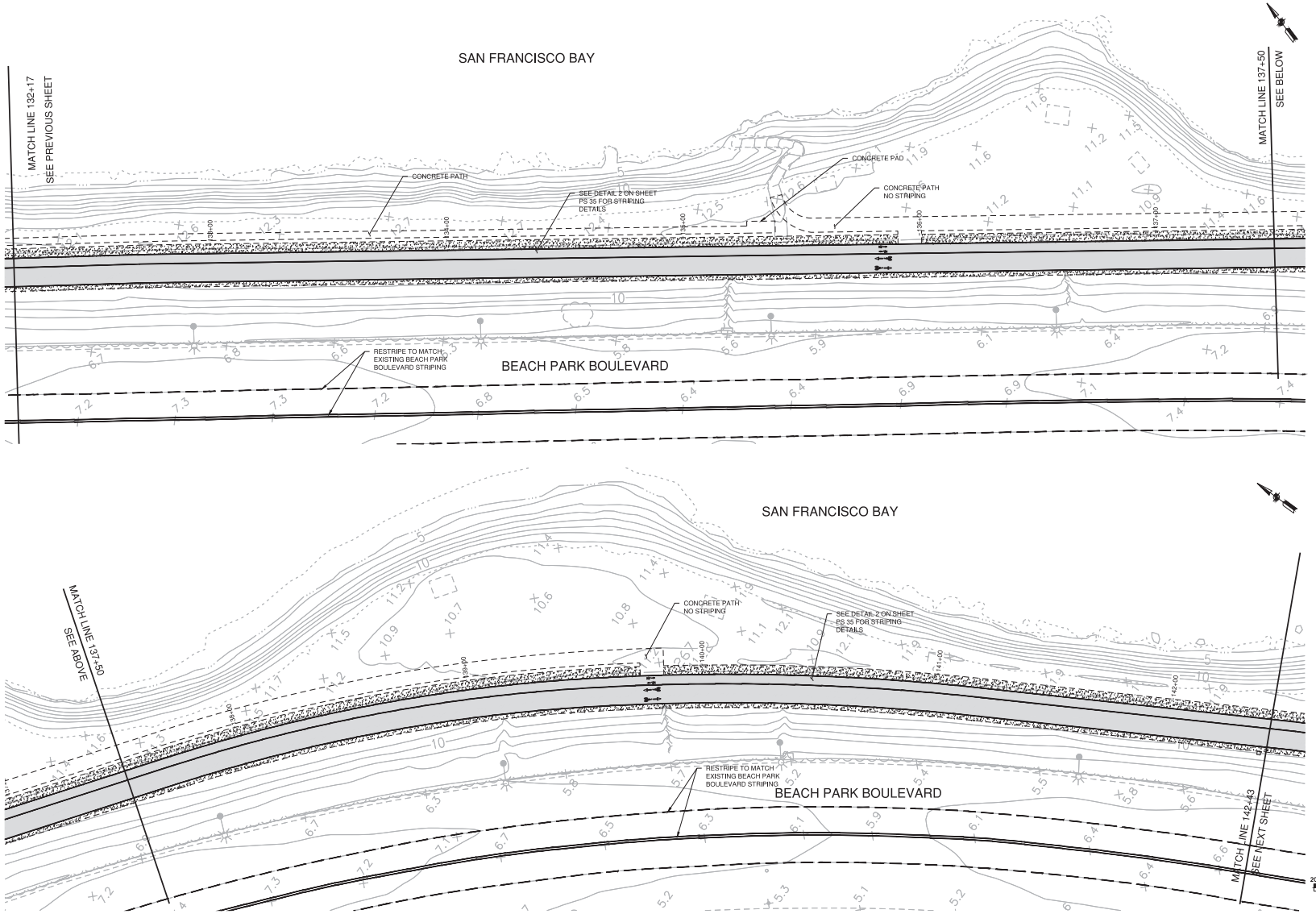

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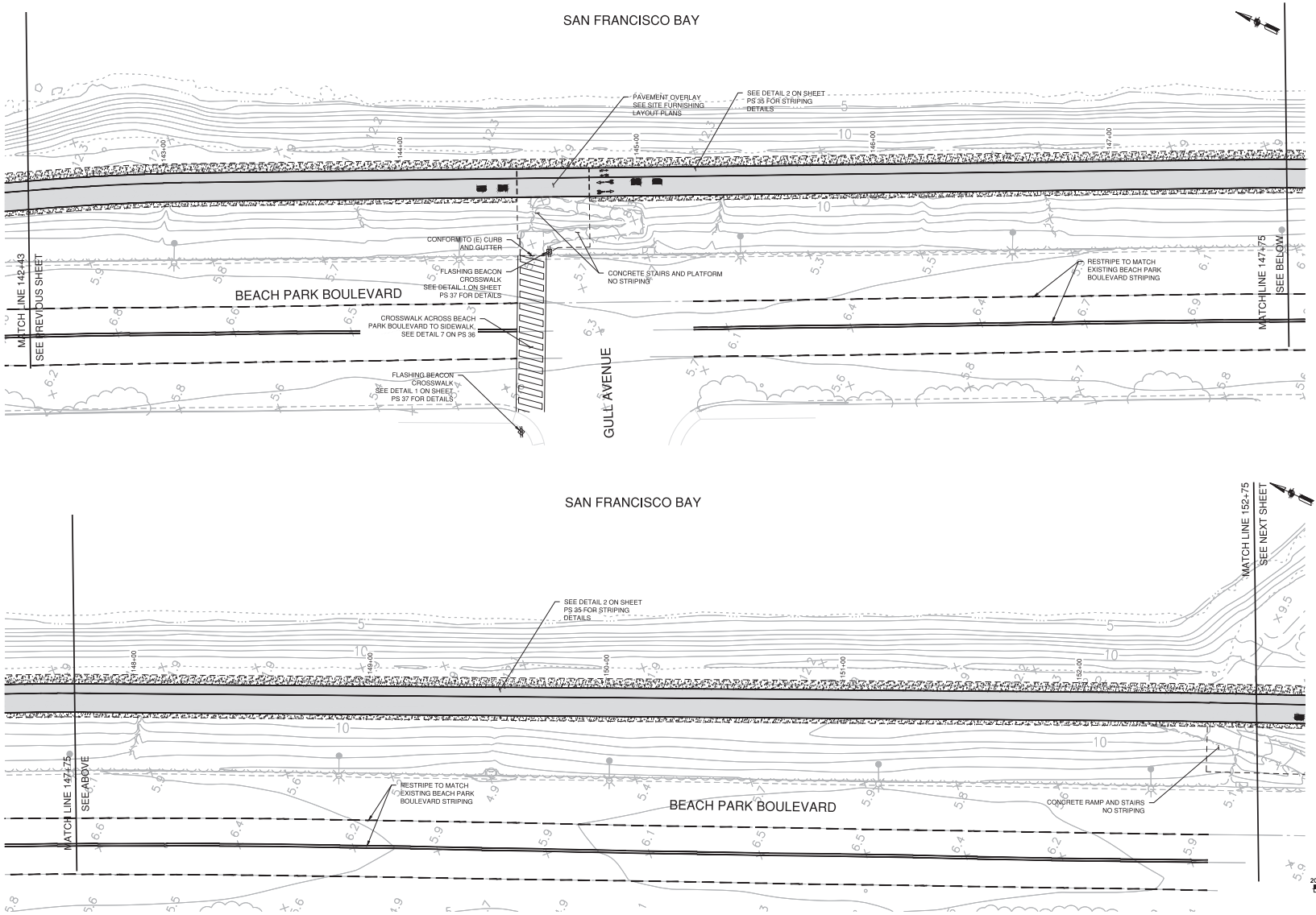

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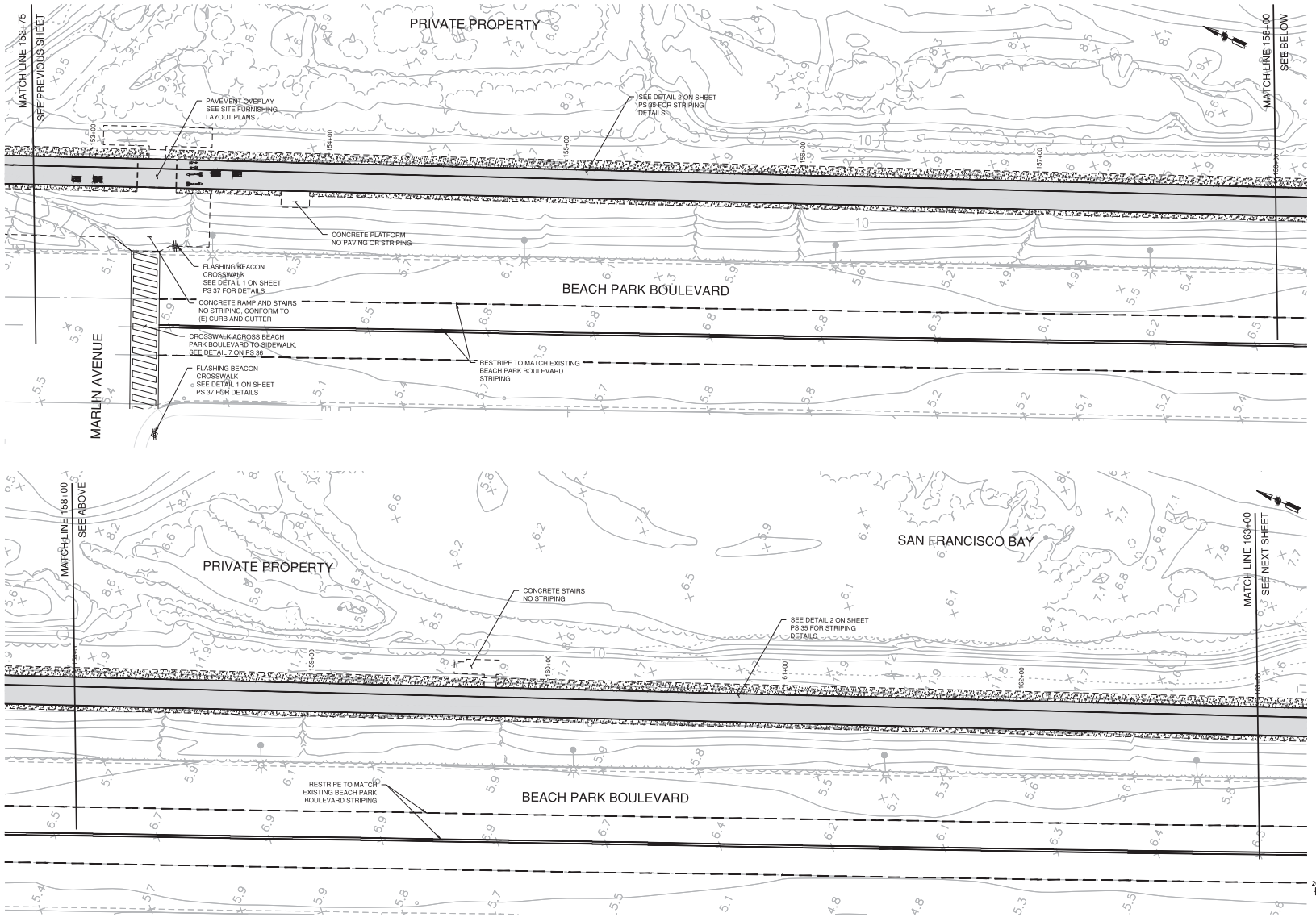

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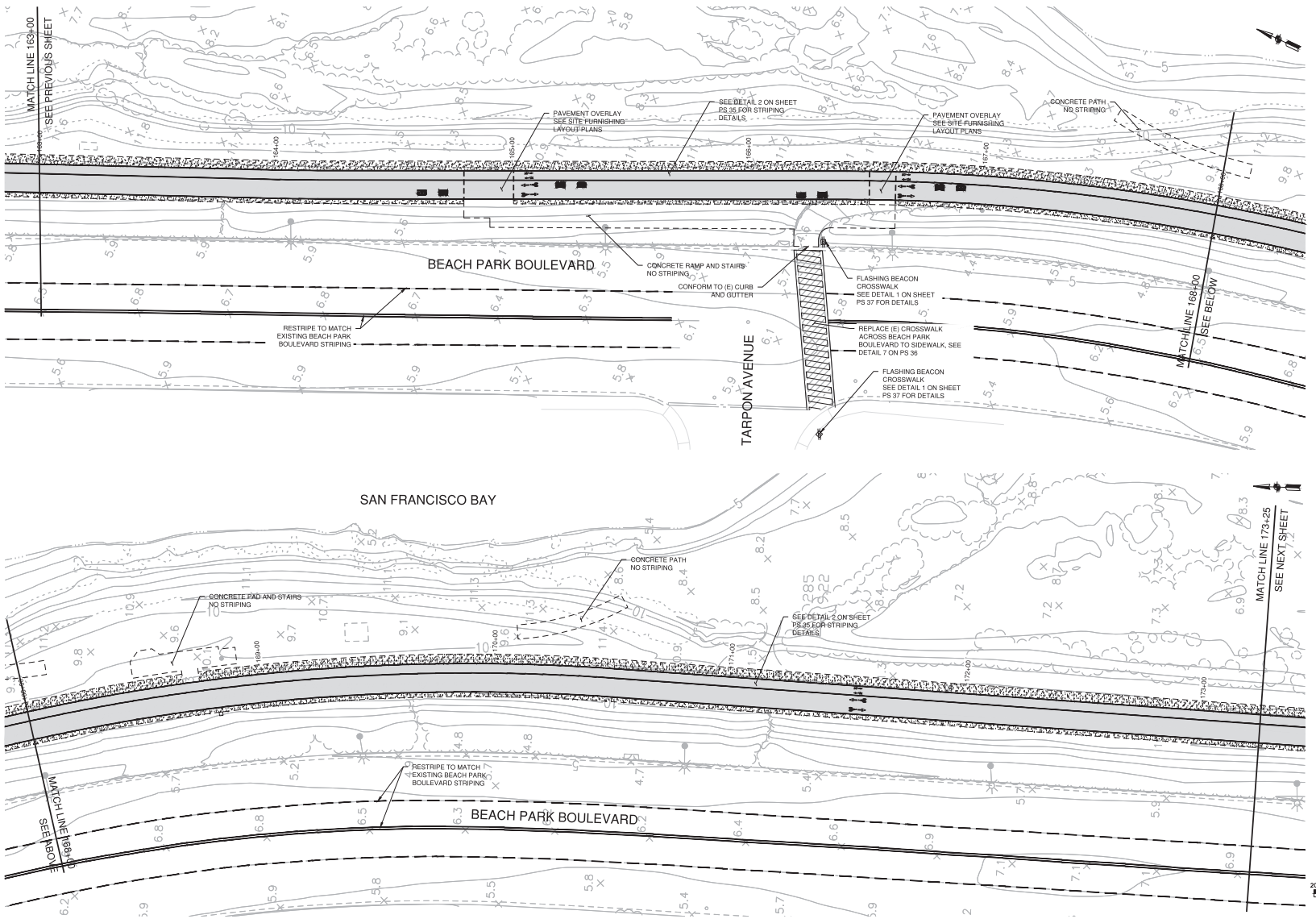

NOTES:

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LEGEND

- AC PAVEMENT, SEE SPECIFICATION SECTION 32 12 16 (1/C10)
- SHOULDER PAVEMENT, SEE SPECIFICATION SECTION 32 15 40 (1/C10)
- CONCRETE SLAB, SEE LANDSCAPE PLANS FOR DETAILING
- BICYCLE PATH MARKINGS
- PEDESTRIAN PATH MARKINGS

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

20 0 20 40

SCALE: 1 INCH = 20 FEET

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: ES				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: ES				
CHECKED BY: CDA				
SURVEYED BY: WILSEY-HAM	1	ES	7/31/20	CONFORMED SET
	NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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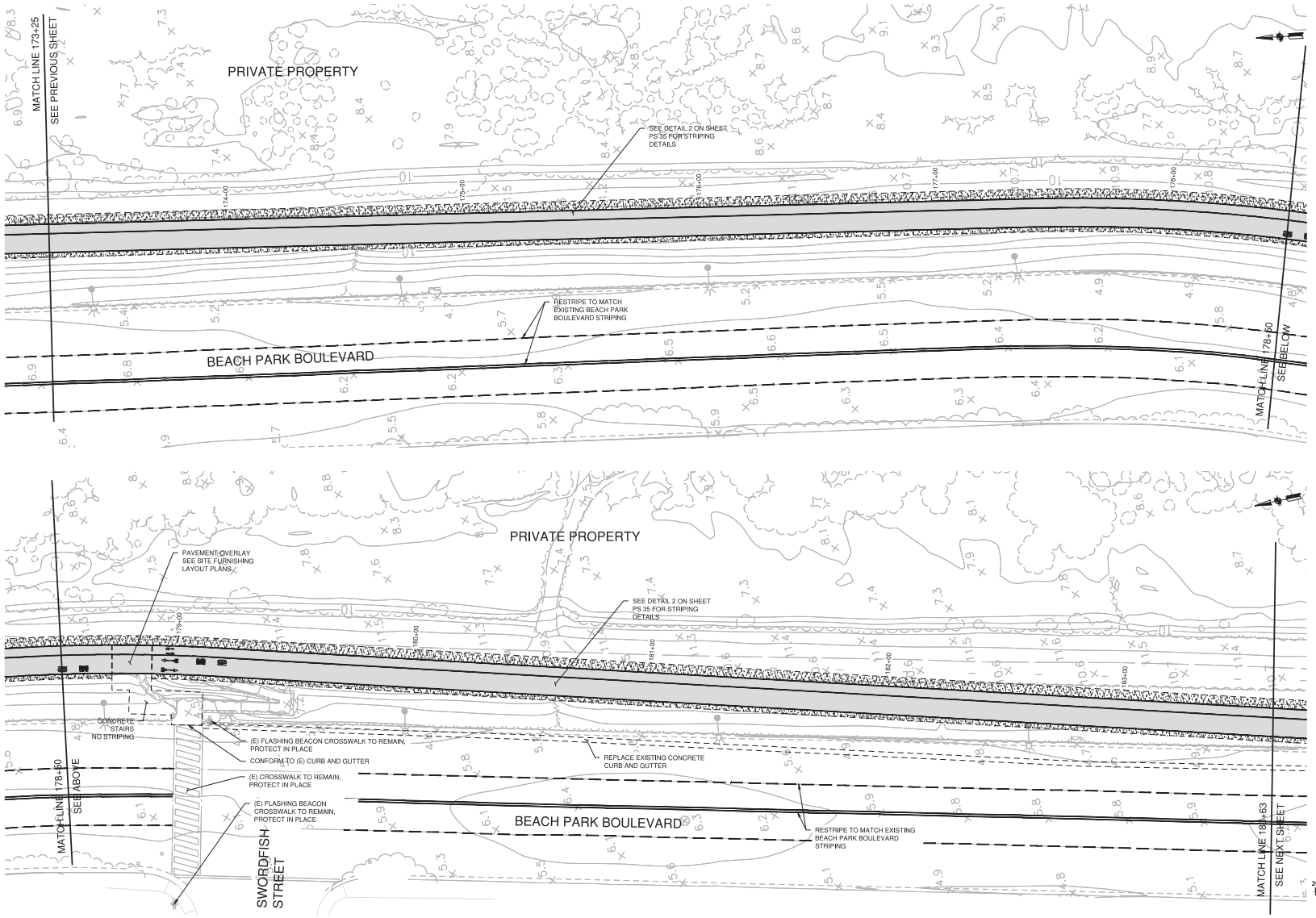
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 17
SHEET 204 OF 384

CIP PROJ. NUMBER
CIP 301-657



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CIP 301-657

PAVING AND STRIPING PLAN

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CIP PROJ. NUMBER
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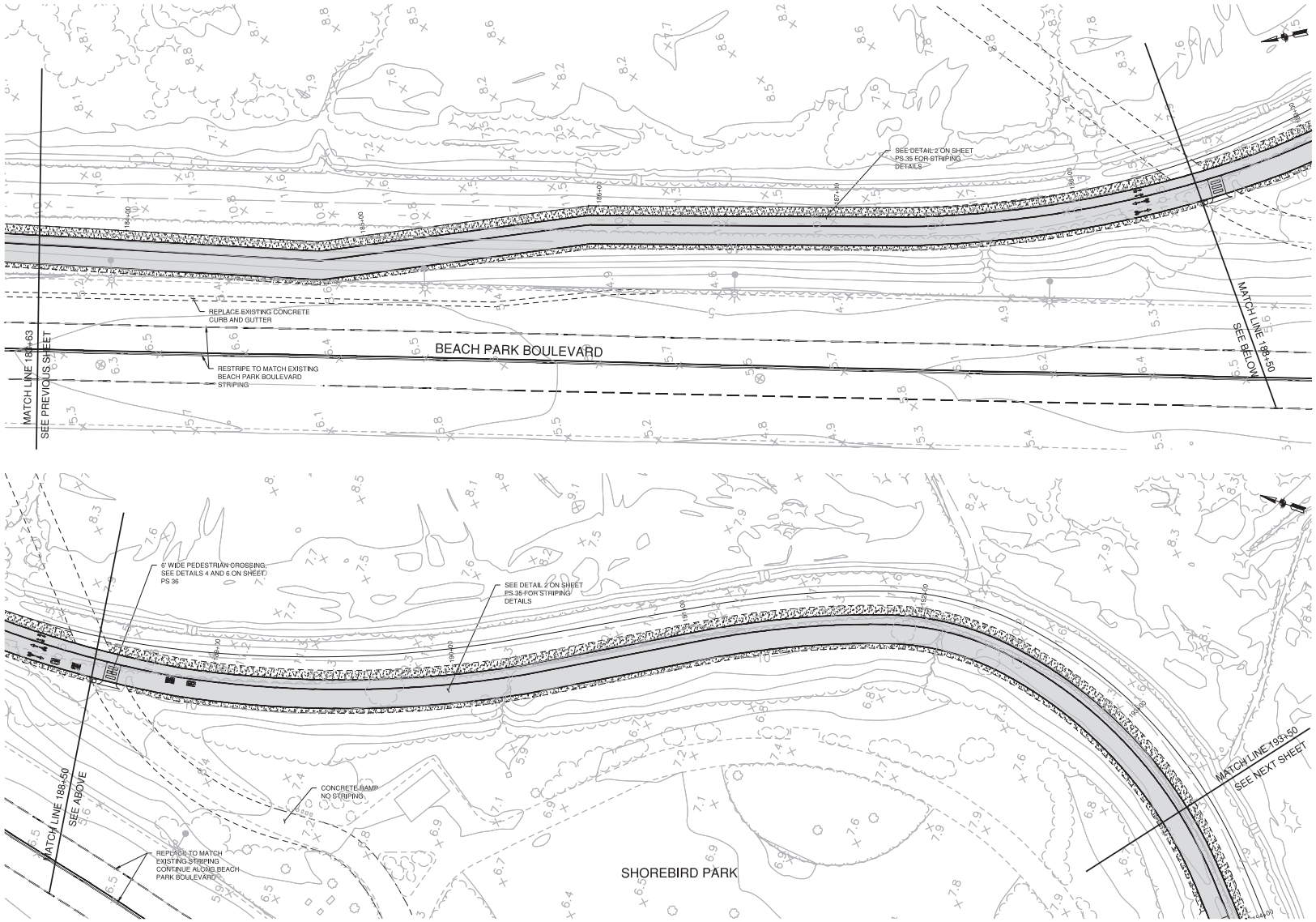

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SHEET 206 OF 384
CIP PROJ. NUMBER
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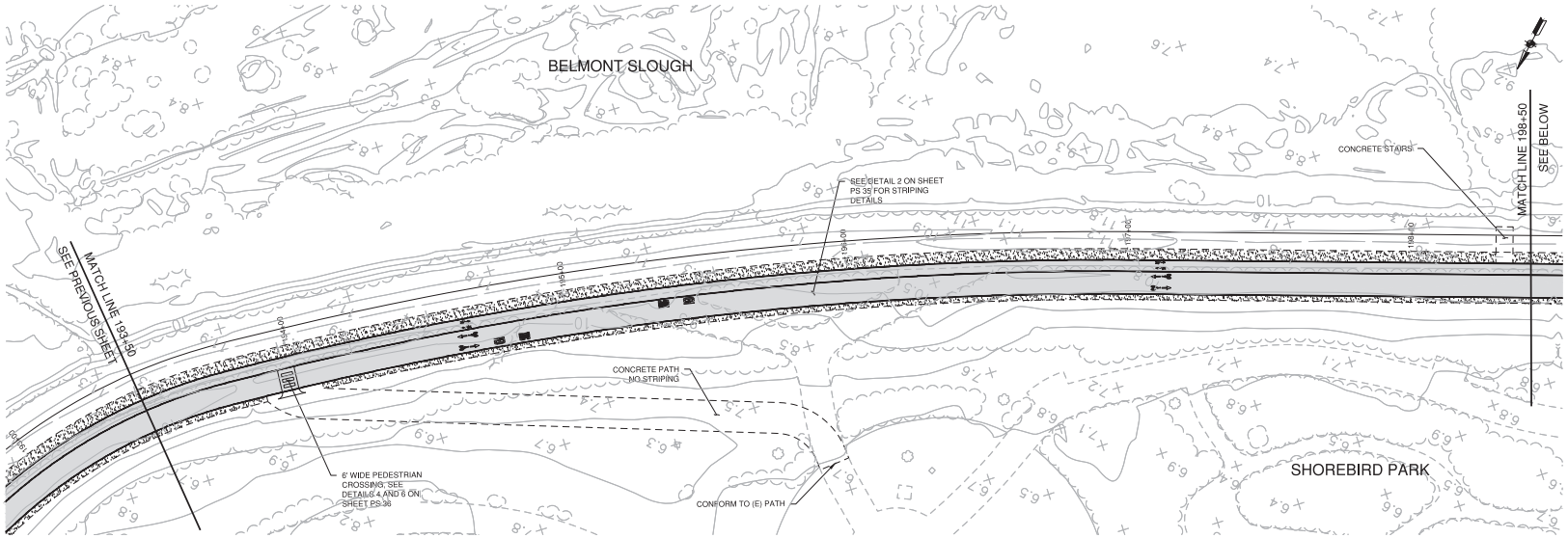

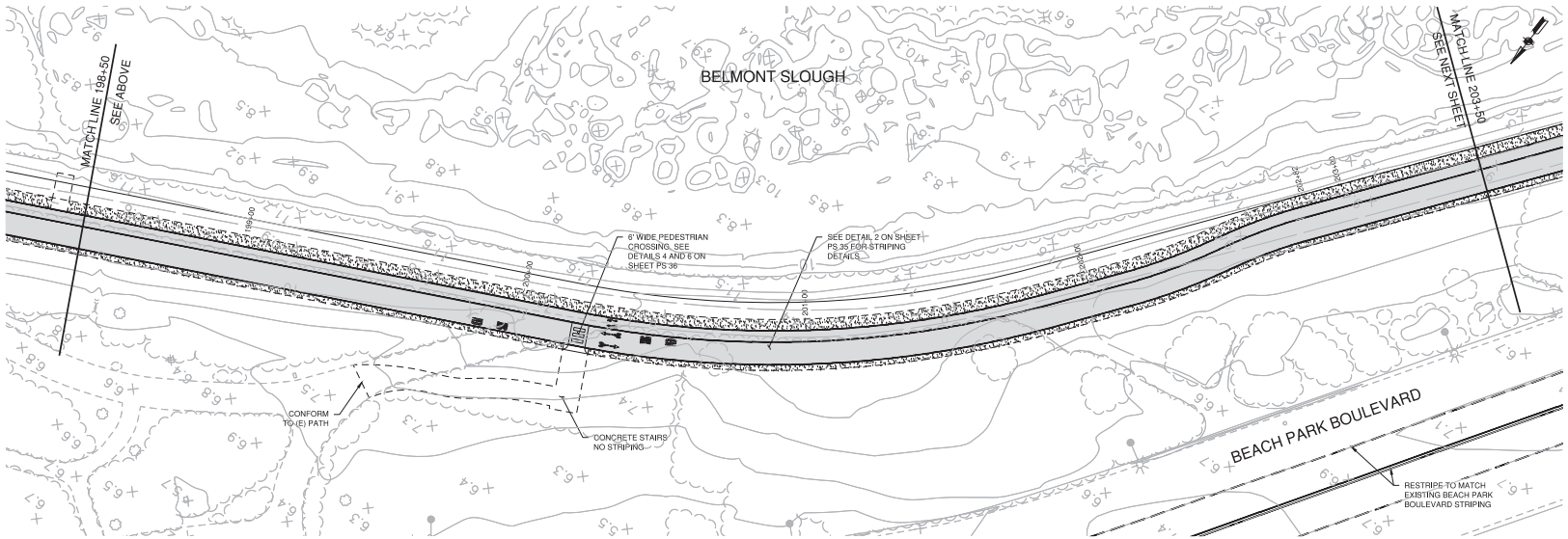

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 20
SHEET 207 OF 384

CIP PROJ. NUMBER
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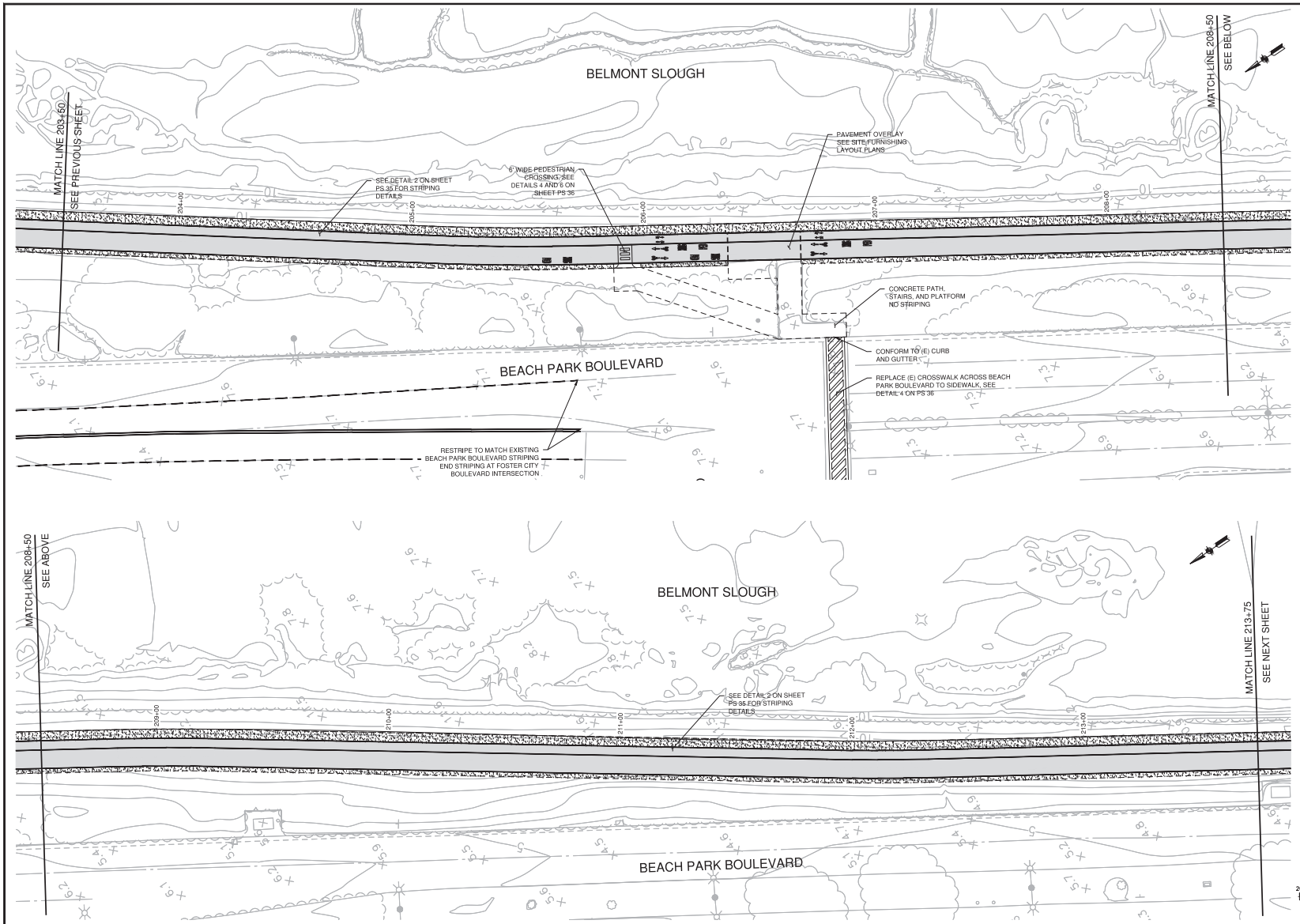

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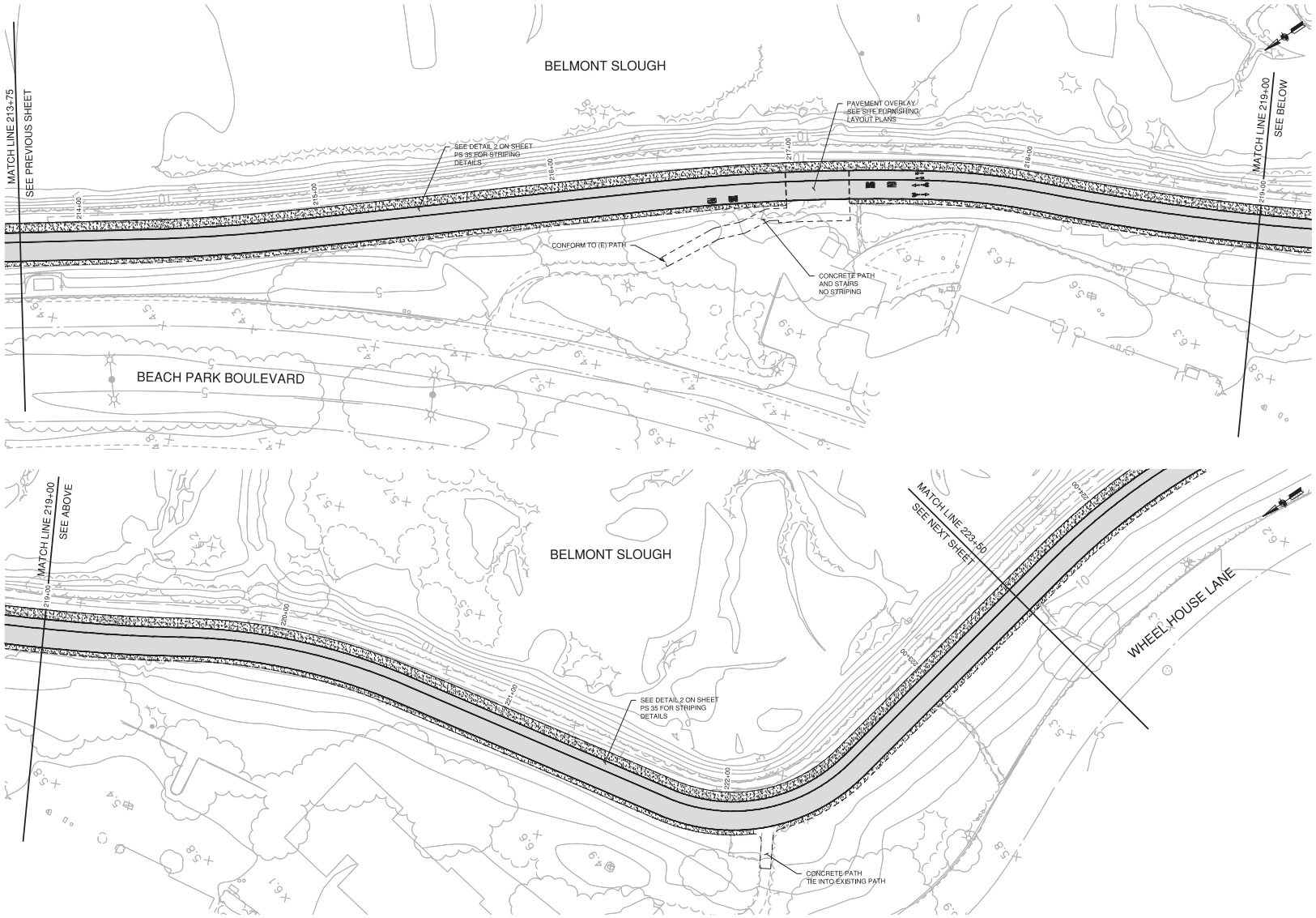
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 21
SHEET 208 OF 384
CIP PROJ. NUMBER
CIP 301-657



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LEGEND

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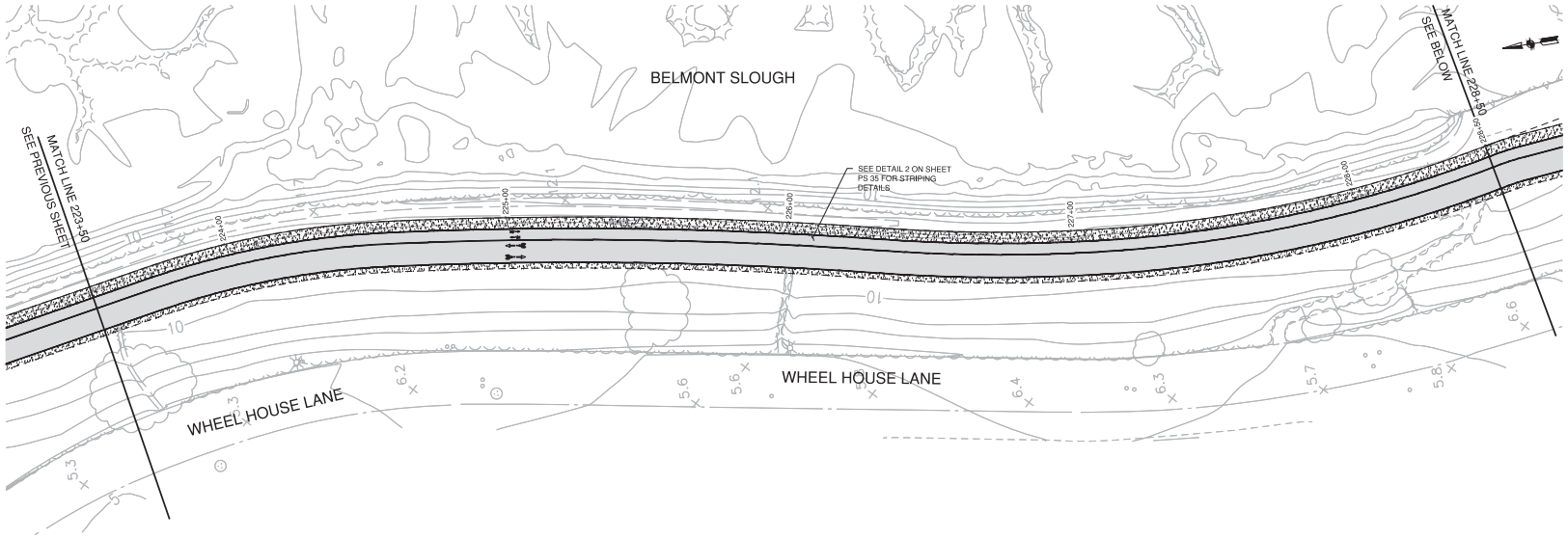
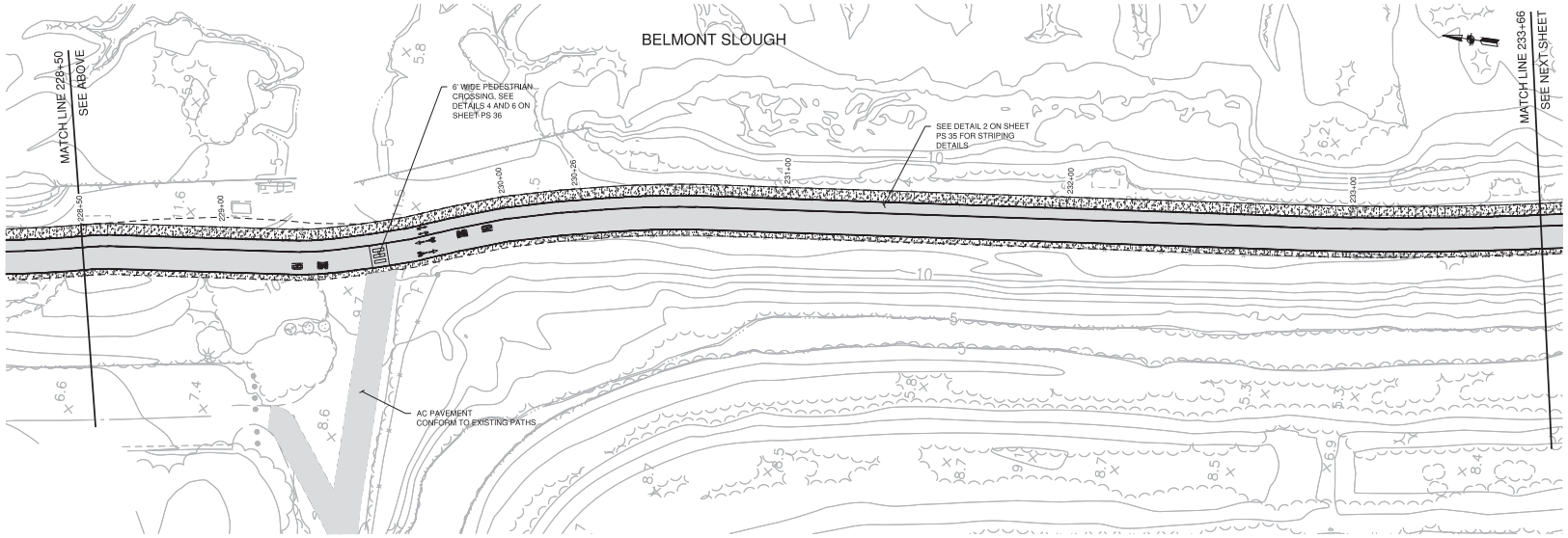
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 22
SHEET 209 OF 384

CIP PROJ. NUMBER
CIP 301-657





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LEGEND

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
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SHEET 210 OF 384
CIP PROJ. NUMBER
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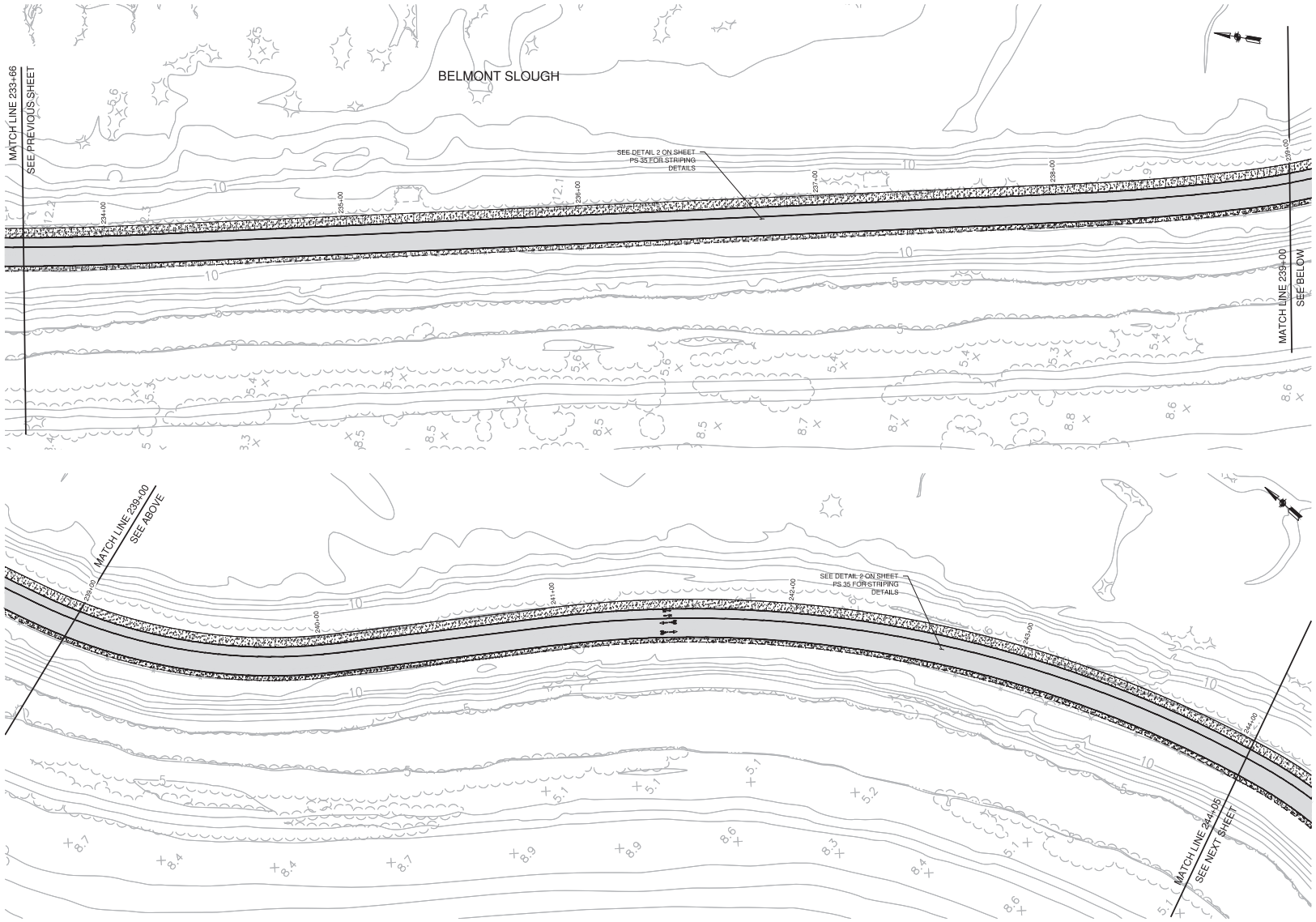

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PAVING AND STRIPING PLAN

SHEET
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SHEET 211 OF 384

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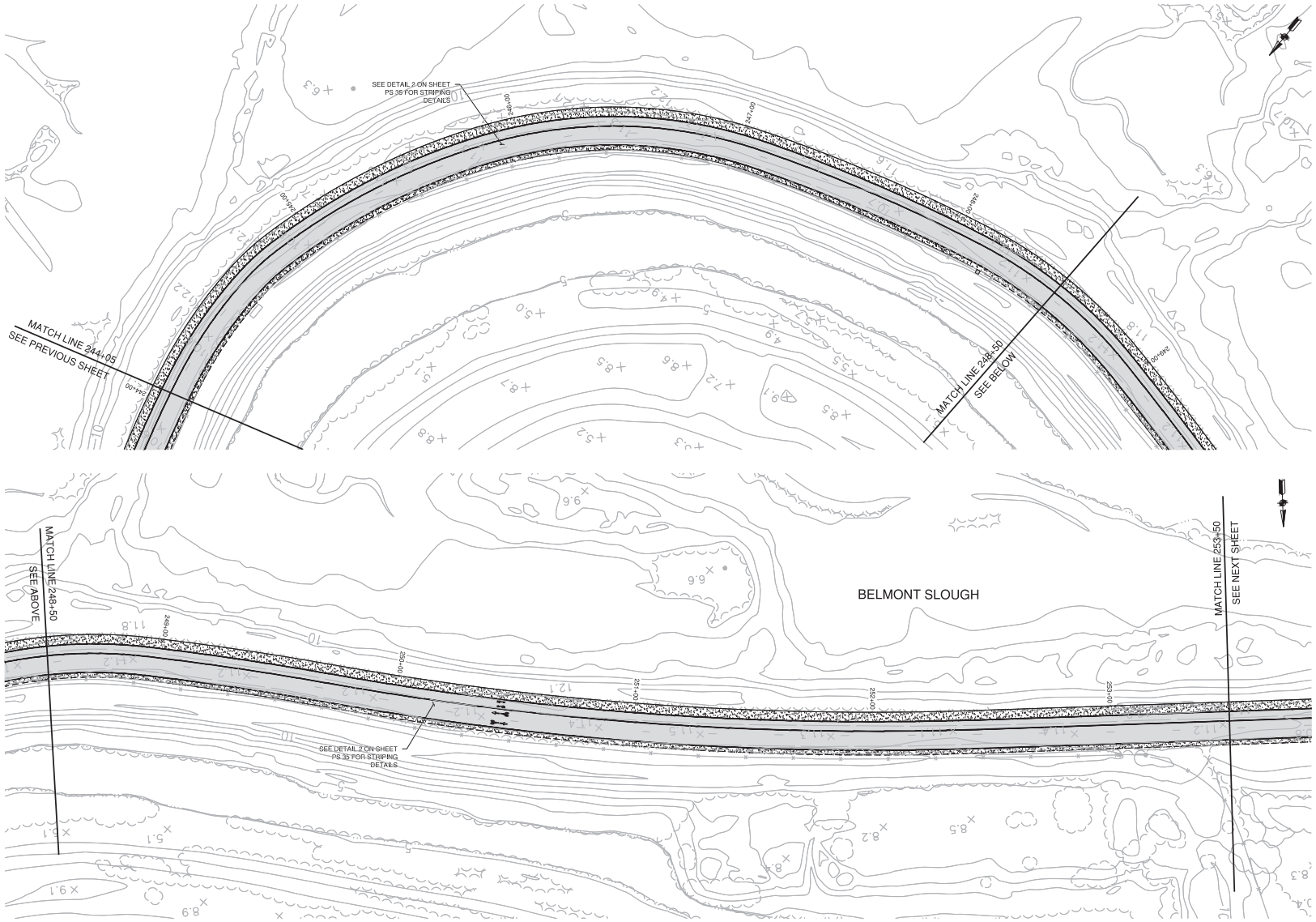

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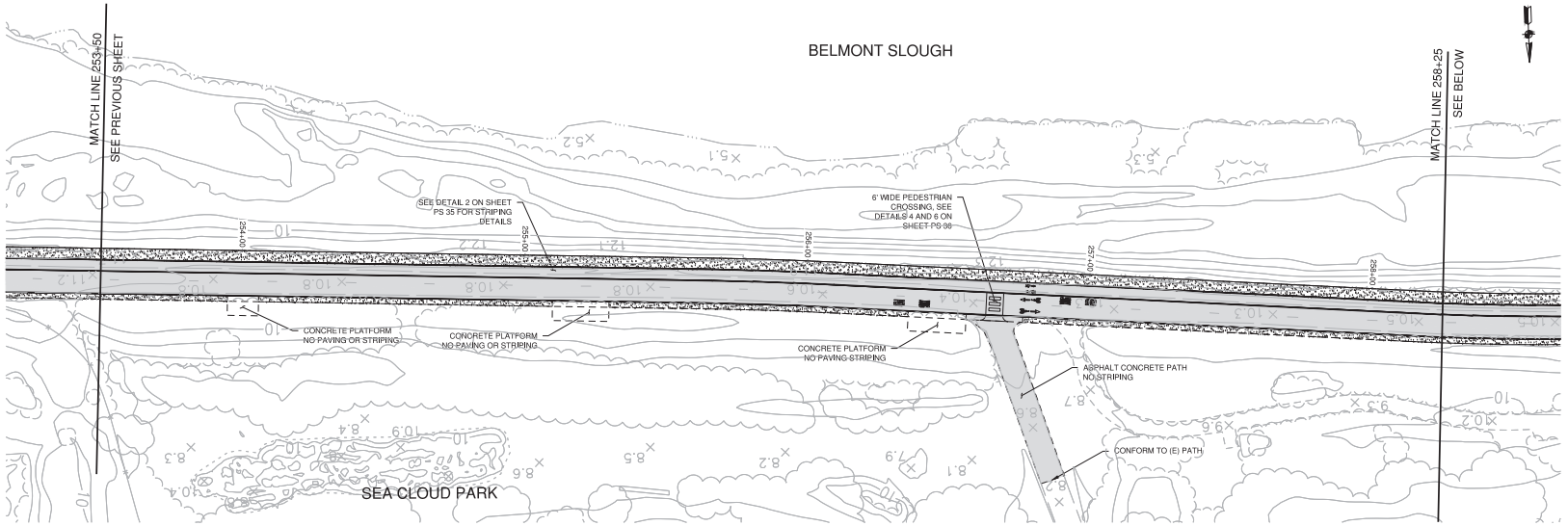

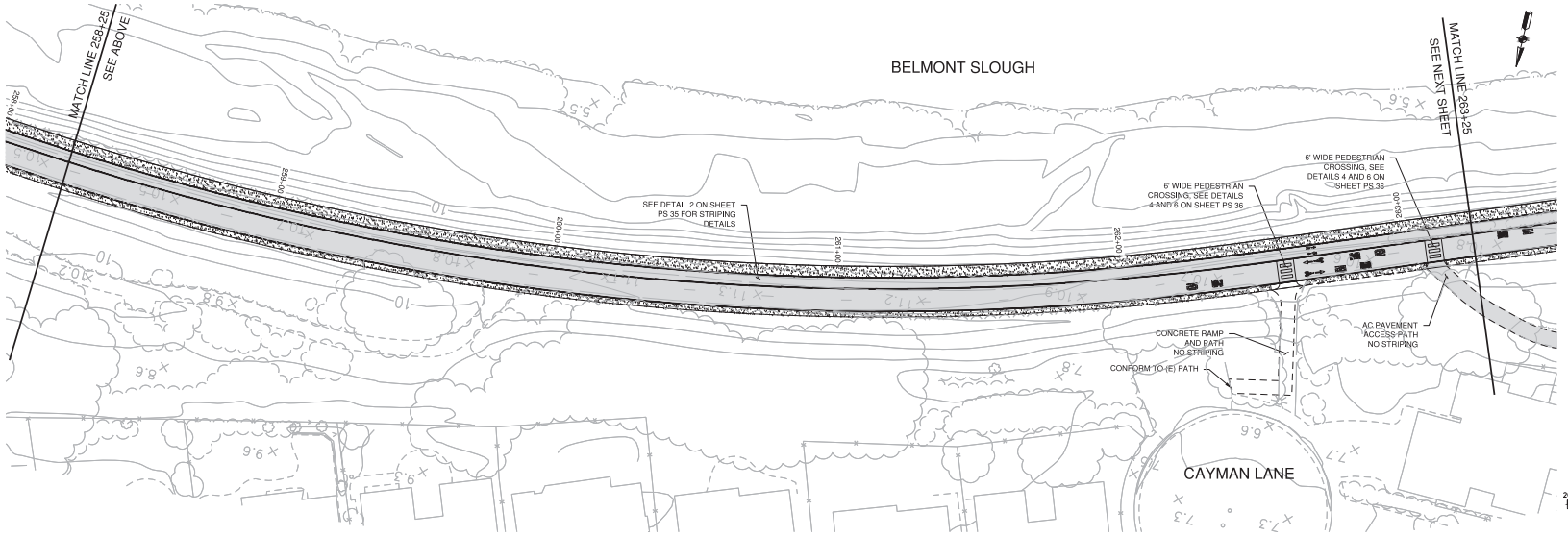

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LEGEND

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SCALE: AS SHOWN
DRAWN BY: ES
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ES
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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1	ES	7/31/20	CONFORMED SET

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PUBLIC WORKS DEPARTMENT
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SANTA CLARA, CA 95050
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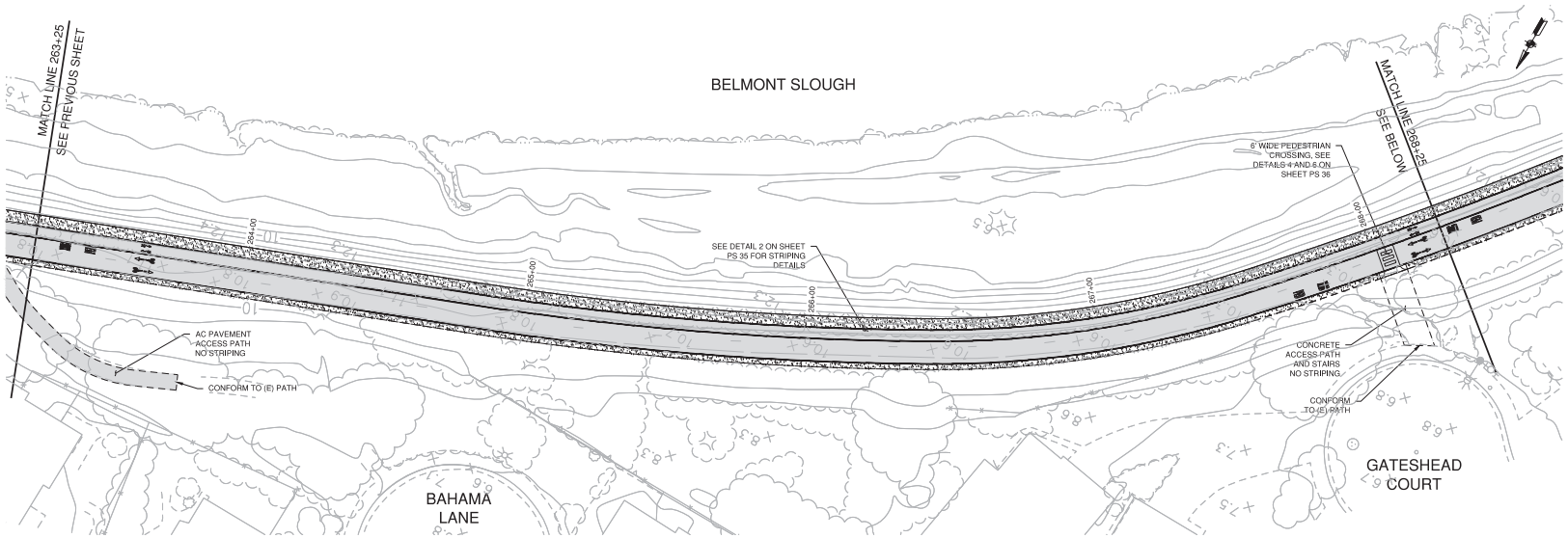
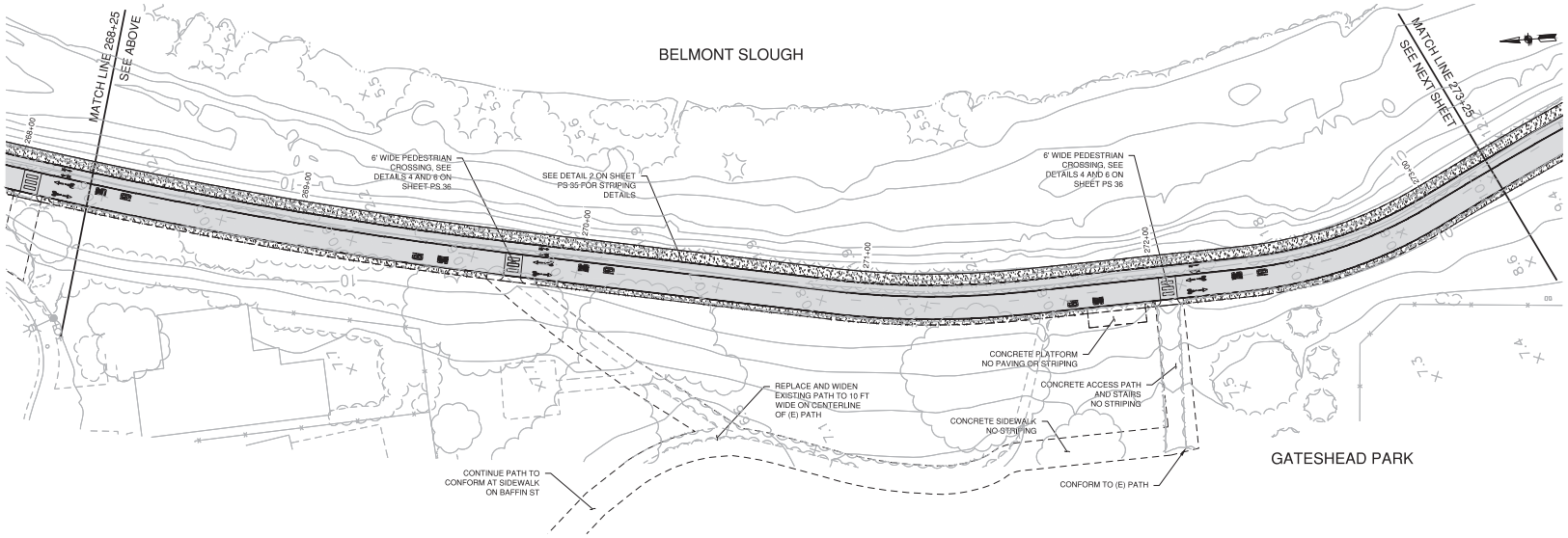
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PAVING AND STRIPING PLAN

SHEET
PS 26
SHEET 213 OF 384

CIP PROJ. NUMBER
CIP 301-657





NOTES:

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3. CONTRACTOR TO REMOVE ANY TEMPORARY STRIPING FROM BEACH PARK BOULEVARD AND RE-STRIP TO MATCH THE ORIGINAL STRIPING LAYOUT.

LEGEND

- AC PAVEMENT, SEE SPECIFICATION SECTION 32 12 16 (1/CIVIL)
- SHOULDER PAVEMENT, SEE SPECIFICATION SECTION 32 15 40 (1/CIVIL)
- CONCRETE SLAB, SEE LANDSCAPE PLANS FOR DETAILING
- BICYCLE PATH MARKINGS
- PEDESTRIAN PATH MARKINGS

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PAVING AND STRIPING PLAN

SHEET
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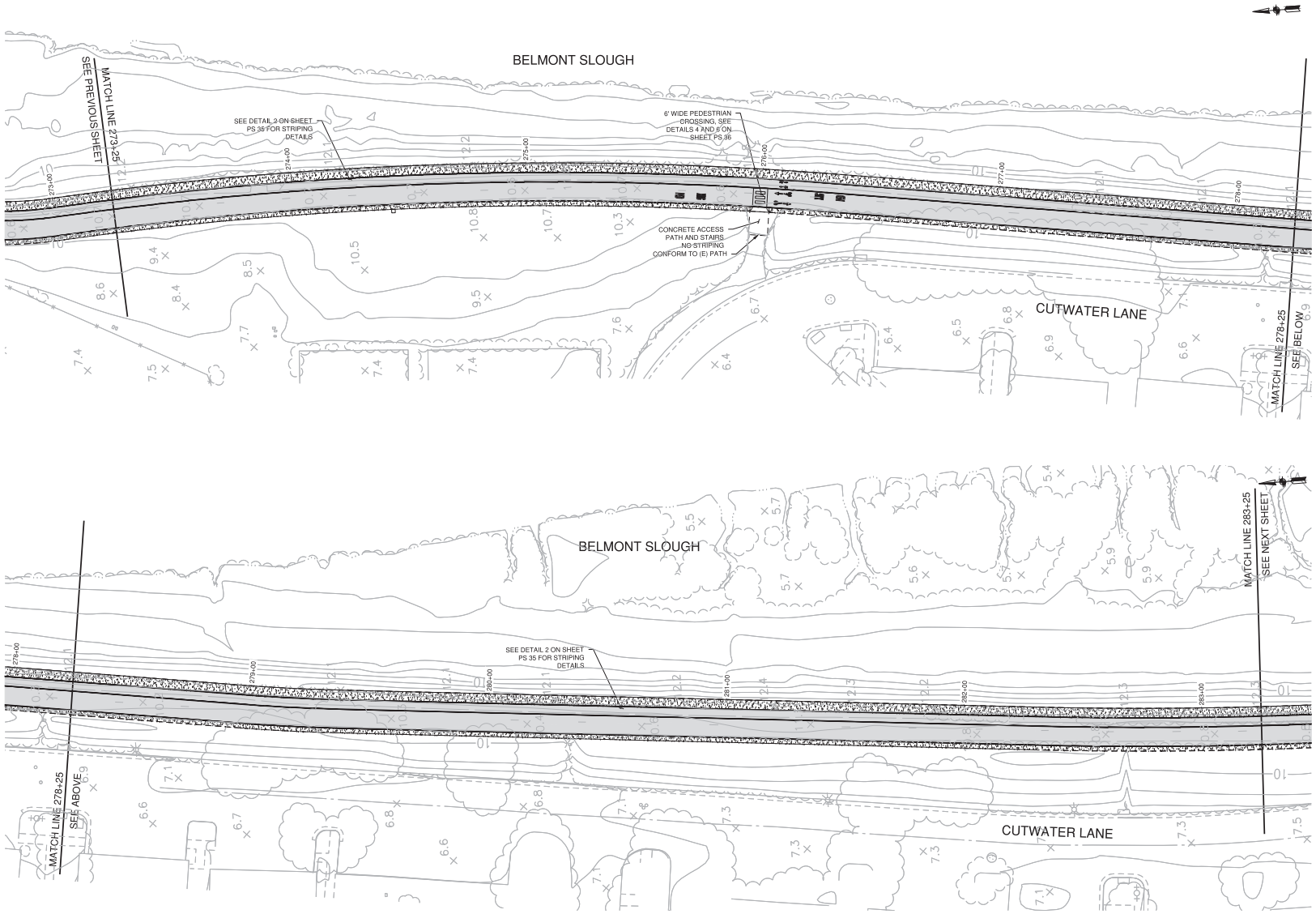

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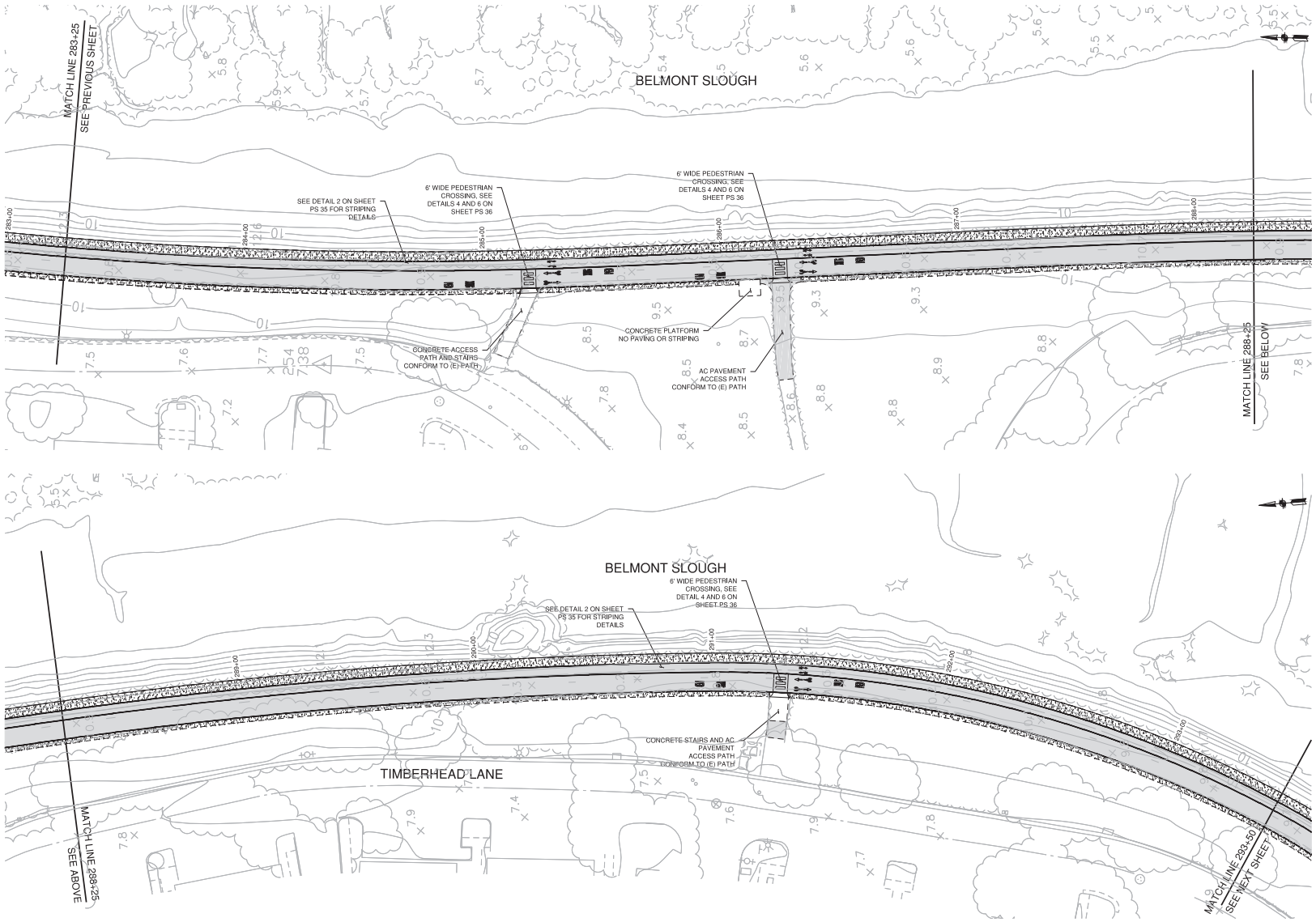

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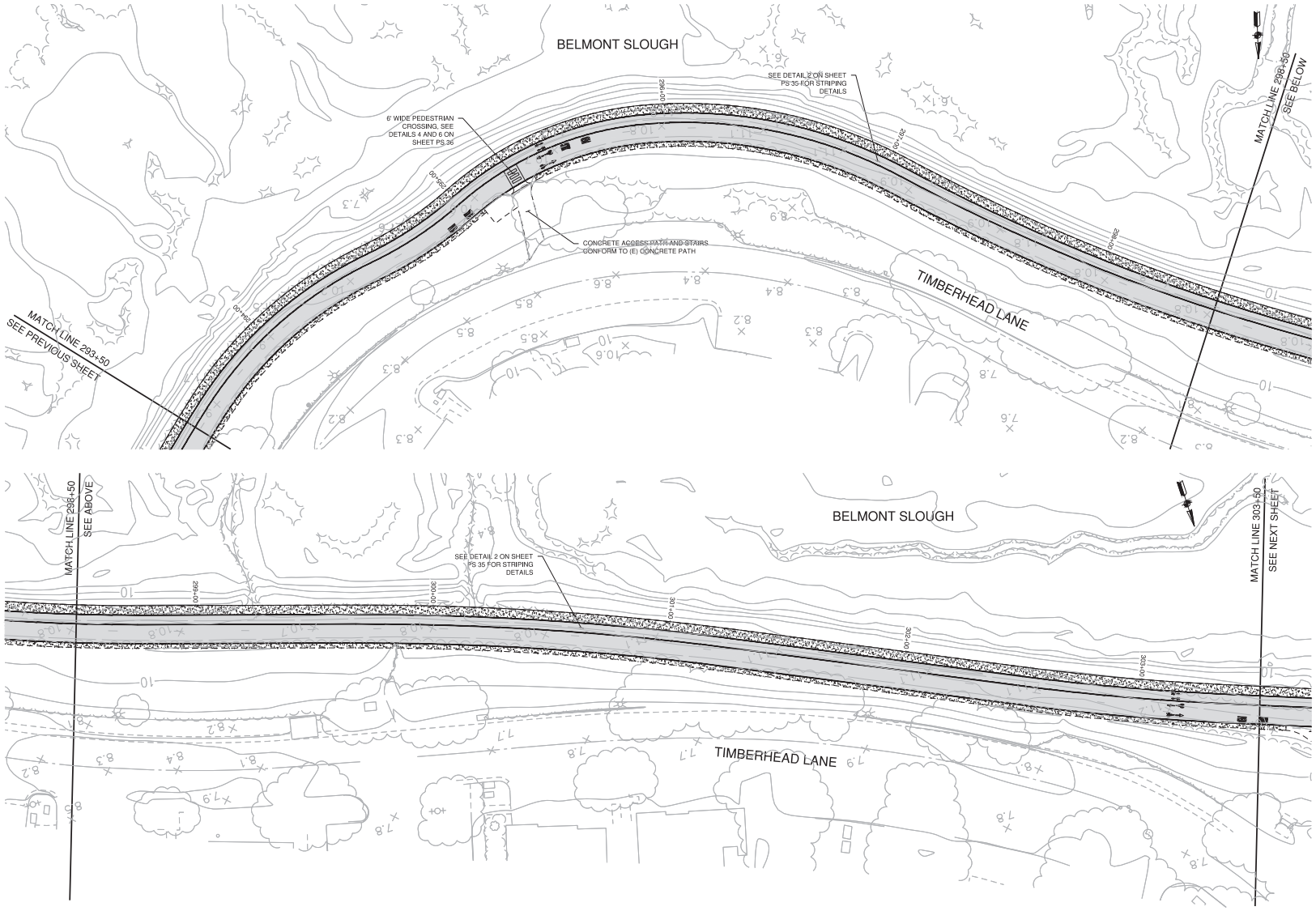

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SHEET 217 OF 384

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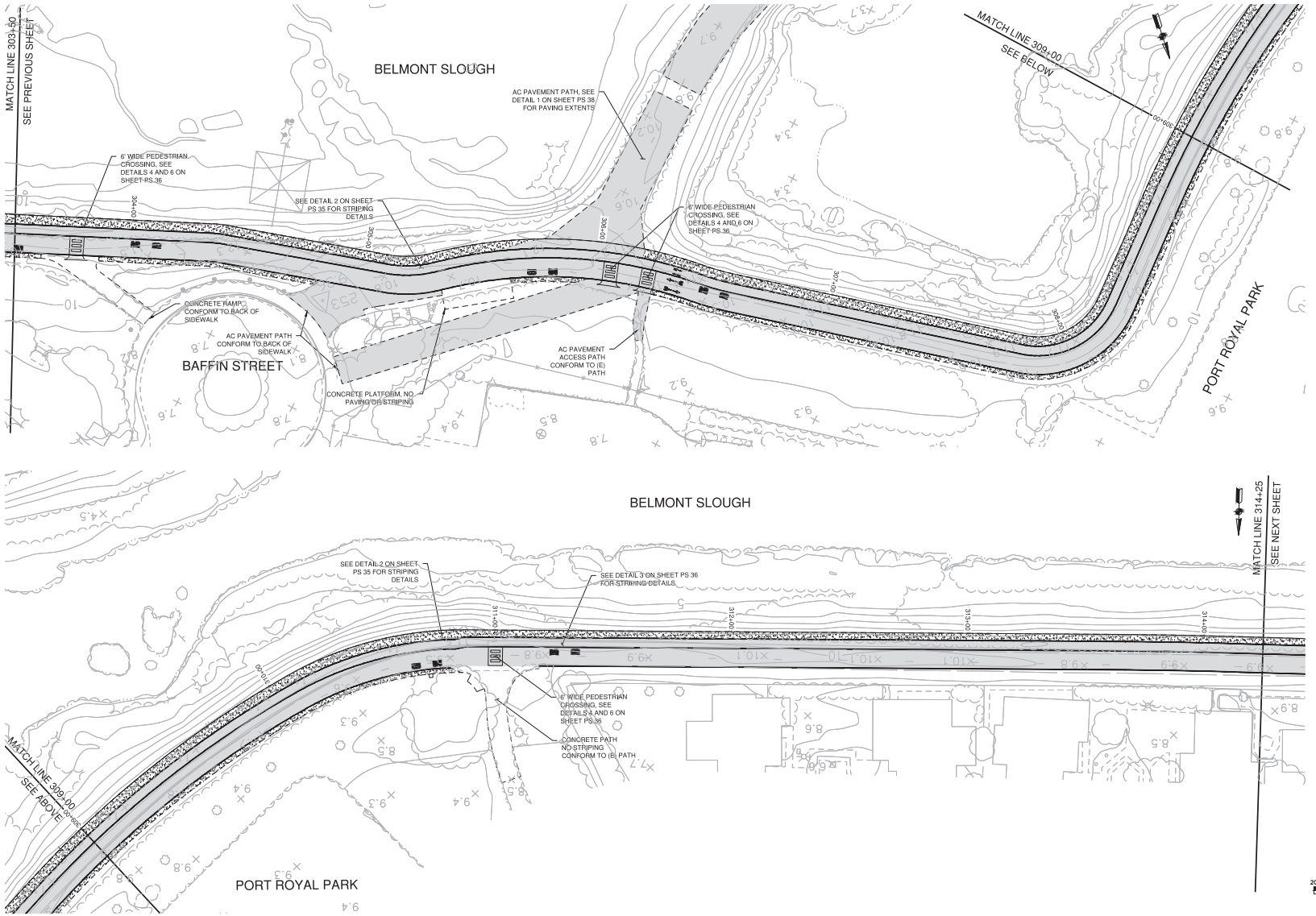

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PAVING AND STRIPING PLAN

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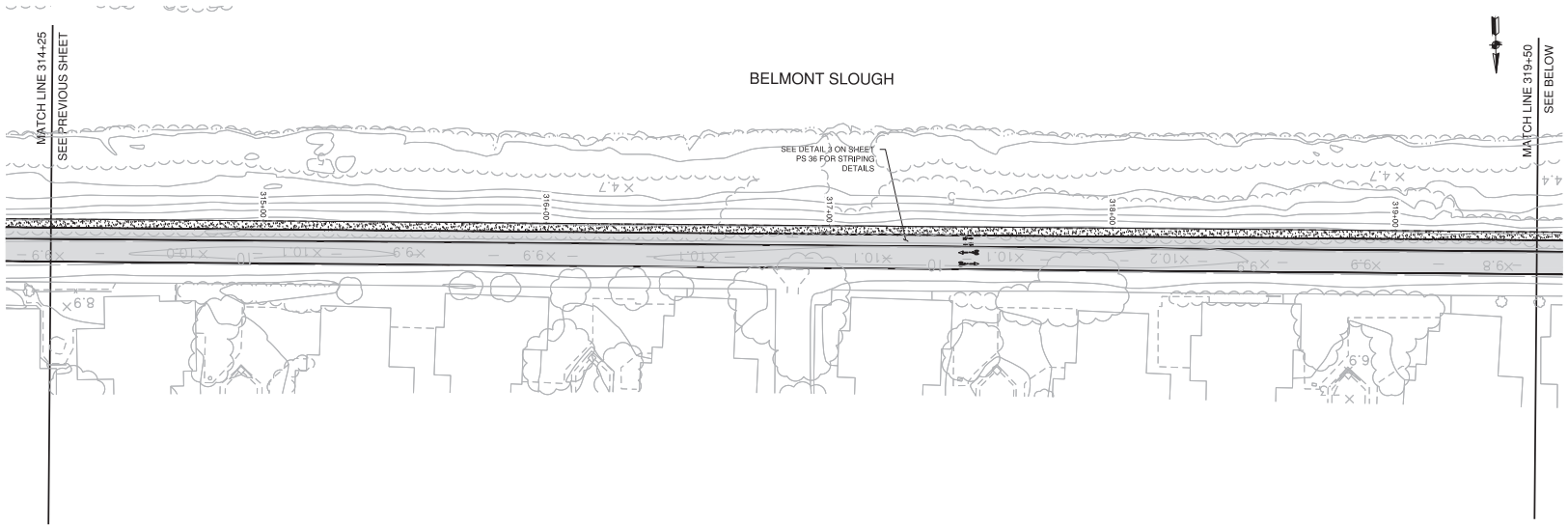

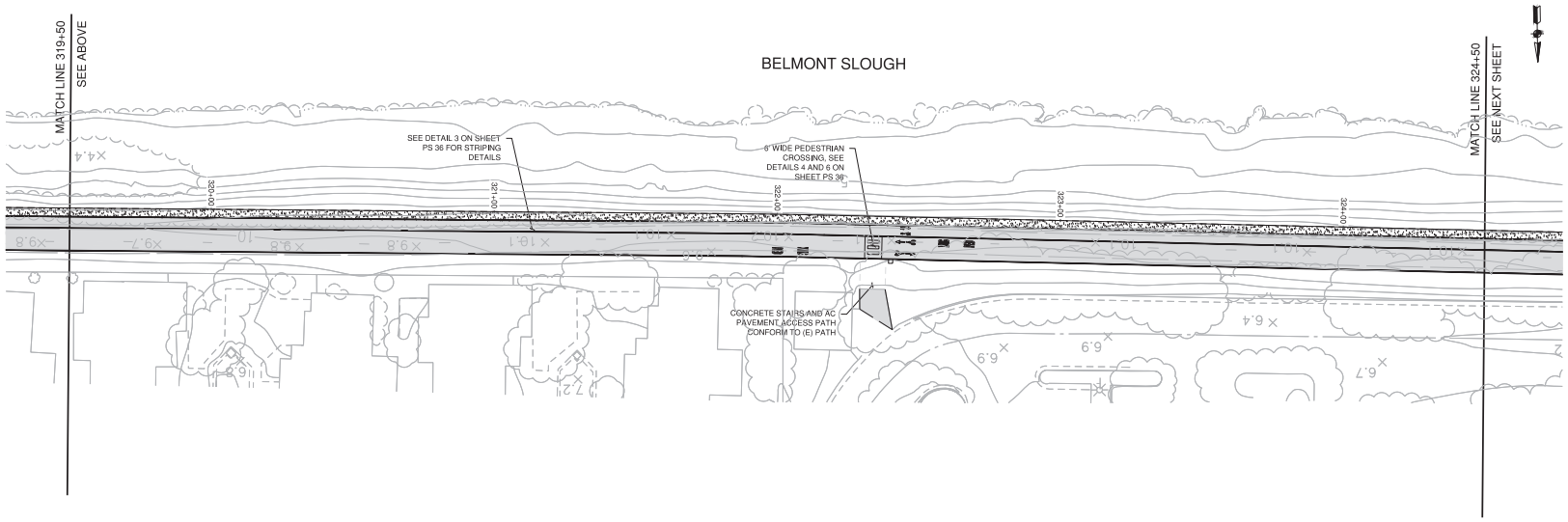

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PAVING AND STRIPING PLAN

SHEET
PS 32
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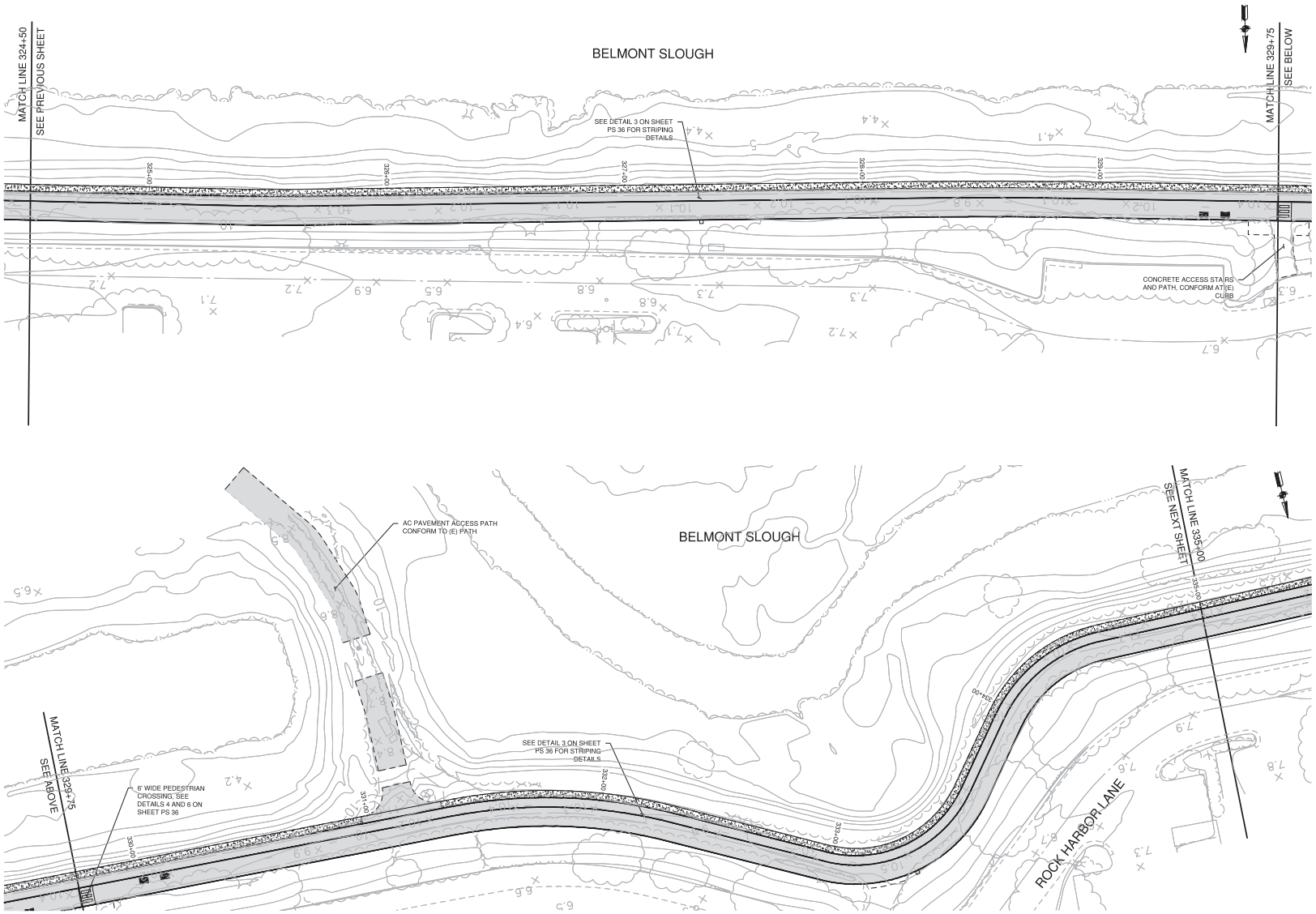

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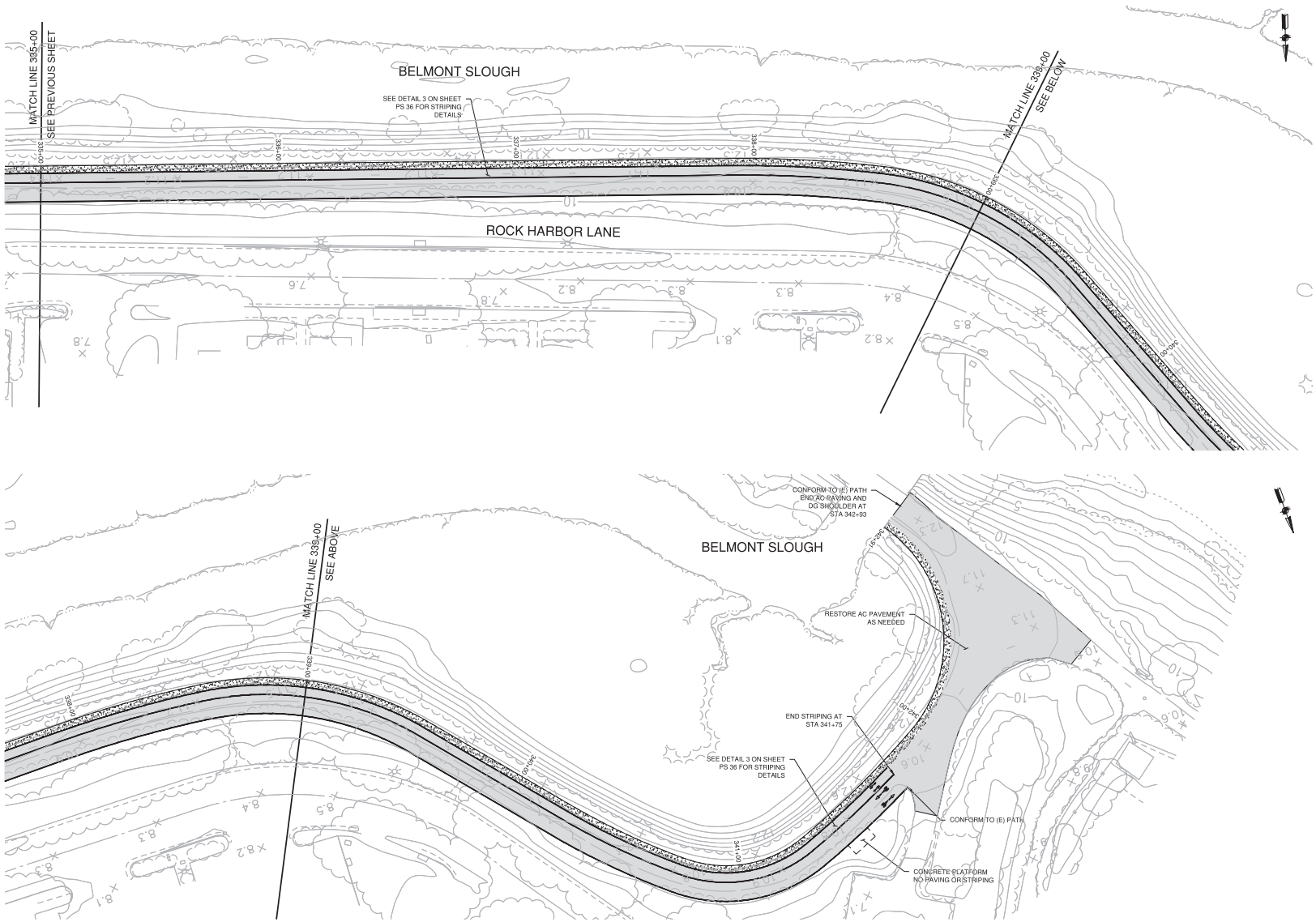

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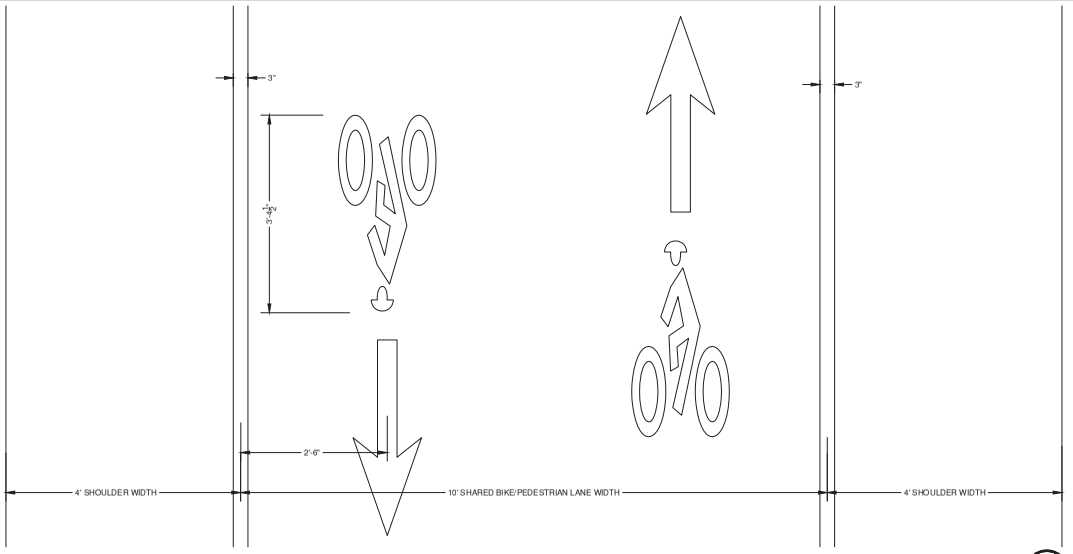
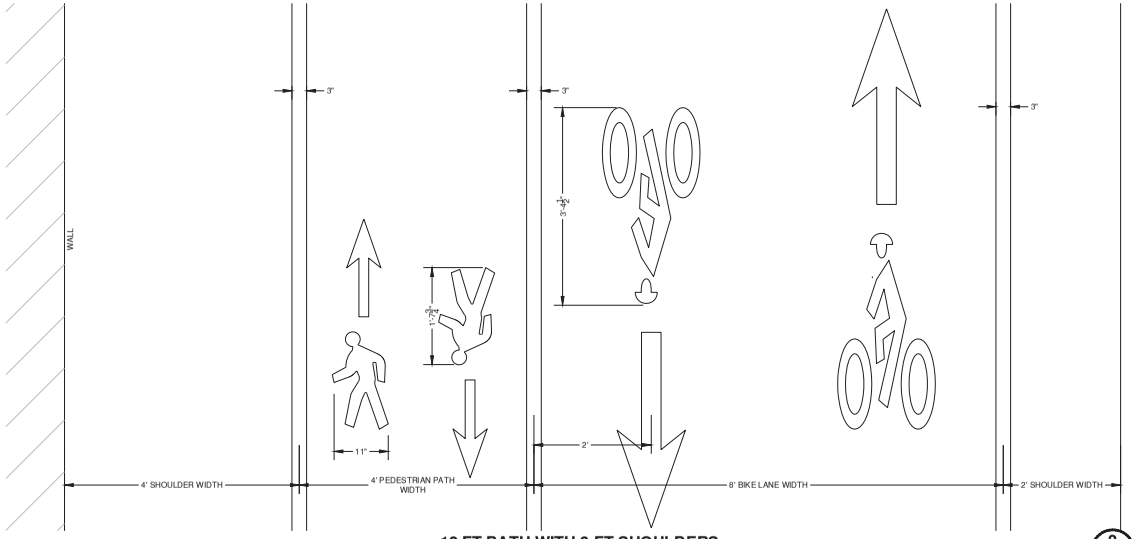


10 FT PATH WITH WIDE SHOULDERS — 1

NO SCALE



12 FT PATH WITH 3 FT SHOULDERS — 2

NO SCALE

NOTES:

1. PLAN ORIENTATION IS IN DIRECTION OF INCREASING STATION, WITH THE BAY SIDE ON THE LEFT AND THE LAND SIDE ON THE RIGHT.

PAVING SCHEDULE		
CONTROL LINE 1 STARTING STATION	CONTROL LINE 1 ENDING STATION	PAVING/STRIPING DETAIL
1+92	13+17	DETAIL 1, PS-35
45+69	310+80	DETAIL 2, PS-35
310+80	341+75	DETAIL 3, PS-36

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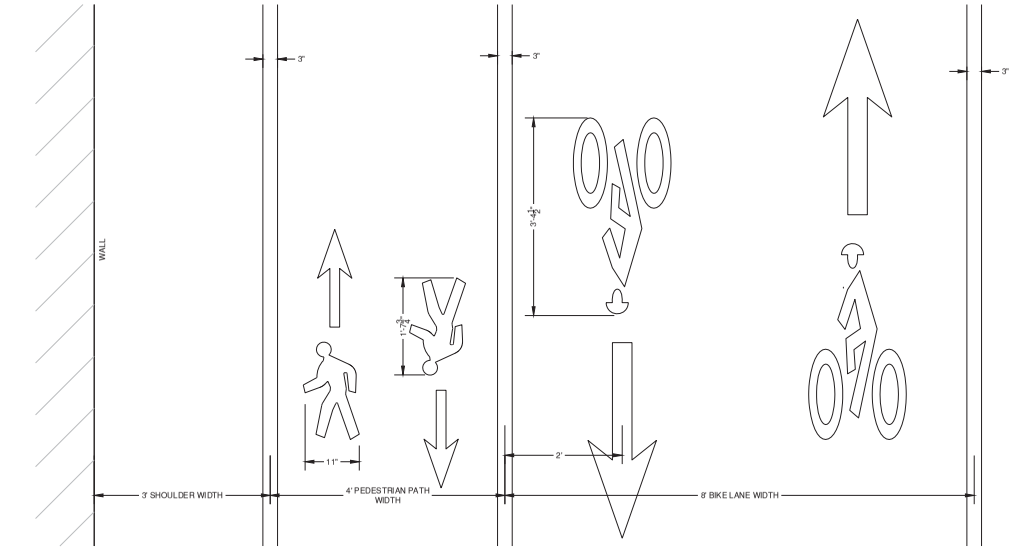

12 FT PATH WITH NO SHOULDER ON INBOARD SIDE 3

NO SCALE

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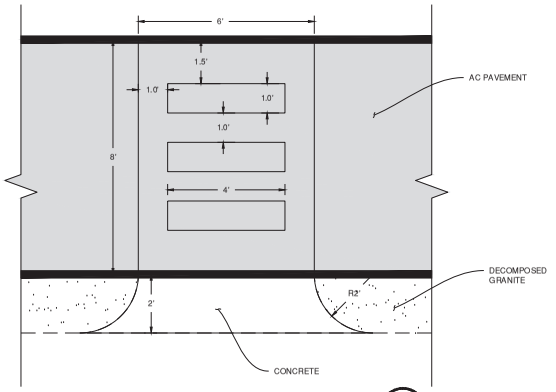


TRAIL PEDESTRIAN CROSSING DETAIL 4

SCALE: 1" = 2'



64"

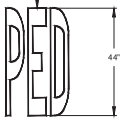


STOP AHEAD STRIPING 5

SCALE: 1" = 2'

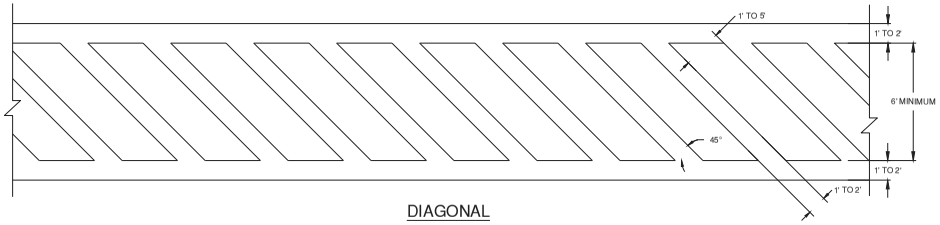


64"



PEDESTRIAN CROSSING STRIPING 6

SCALE: 1" = 2'



DIAGONAL

PEDESTRIAN CROSSING DETAIL 7

NO SCALE

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: ES				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: ES				
CHECKED BY: CDA				
SURVEYED BY: WILSEY-HAM	1	ES	7/31/20	CONFORMED SET
	NO.	BY	DATE	REVISIONS

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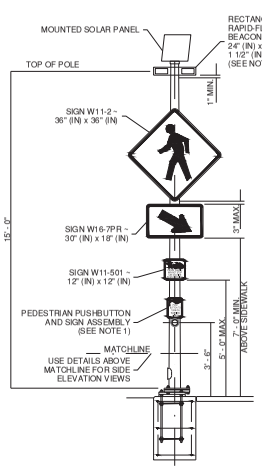
CIP 301-657

PAVING AND STRIPING DETAILS

SHEET
PS 36
SHEET 223 OF 384

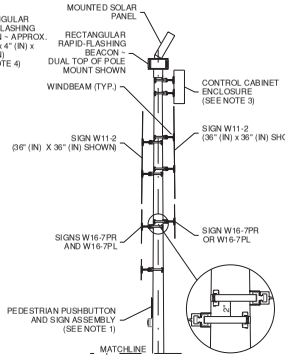
CIP PROJ. NUMBER
CIP 301-657



FRONT ELEVATION VIEW

RAPID-FLASHING BEACON

SLIP BASE AND CONCRETE SQUARE FOUNDATION SHOWN (SEE BELOW)



SIDE ELEVATION VIEW

BI-DIRECTIONAL CONFIGURATION DETAILS

RAPID-FLASHING BEACON RECTANGULAR TYPE (RRFB)

NOTES

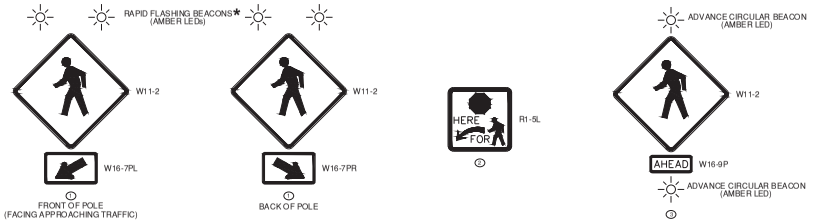
1. PEDESTRIAN PUSHBUTTON AND SIGN ASSEMBLY - MAY BE SEPARATE PARTS. USE 9" (IN) X 12" (IN) R10-25 SIGN IN ACCORDANCE WITH 2009 MUTCD. SIGN MAY INCLUDE INTEGRATED WARNING LIGHTS.
2. TERMINATE RFB CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.
3. CONTROL CABINET ENCLOSURE SHALL BE SIZED BY THE RFB MANUFACTURER.
4. BEACON ASSEMBLY MAY BE MOUNTED ON THE TOP OF THE POLE OR ON THE SIDE OF THE POLE. A SOLAR POWER UNIT MAY BE INSTALLED ON TOP OF THE MOUNT.
5. RRFB DISPLAYS SHALL BE LED TYPE MEETING THE INTENSITY REQUIREMENTS OF SAE J595 FOR CLASS 1 YELLOW, BUT SHALL NOT EXCEED 1000 CANDELAS DURING DAYLIGHT AND 500 CANDELAS AFTER DARK.

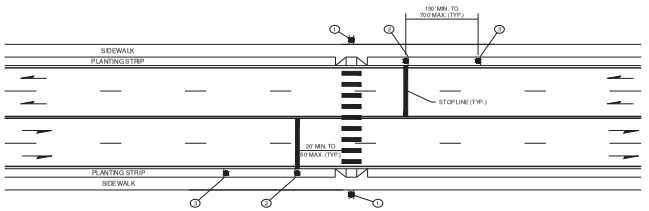
RAPID FLASHING BEACONS SHALL BE MOUNTED ONTO A SQUARE PEDESTAL BASE WITH AN ALUMINUM DOOR USING PELCO PART #PB-5325 POLE; OR AN APPROVED EQUAL. THE BASE ASSEMBLIES SHALL BE EQUIPPED WITH PELCO, PART #PB-5325 POLE AND BASE COLLAR ASSEMBLY OR EQUIVALENT. ALL POLES SHALL BE 4½" O.D. ALUMINUM AND SHALL HAVE A SPUN FINISH. THE LENGTH OF THE POLE SHALL BE SUFFICIENT TO MOUNT SIGNS AND BEACONS AS SHOWN. ALL SIGNAL, SOLAR COLLECTOR, AND SIGN MOUNTING HARDWARE SHALL BE FURNISHED BY THE POLE MANUFACTURER. ANCHOR BOLTS SHALL BE AS MANUFACTURED BY PELCO, PART #PB-5306-GLY; OR AN APPROVED EQUAL COMPATIBLE WITH THE POLE FURNISHED. SQUARE WASHERS ARE REQUIRED



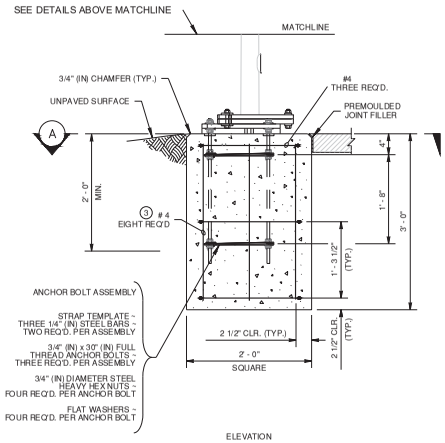
W11-501 (12" x 12")

PEDESTRIAN SYMBOL HEIGHT - 4" (IN)
BICYCLE SYMBOL HEIGHT - 3" (IN)
LETTERS - 1" C
LEGEND - BLACK
BACKGROUND - YELLOW



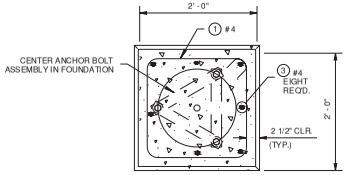


MID-BLOCK CROSSING ON TWO-WAY MULTI-LANE UNDIVIDED ROADWAY



ELEVATION

SQUARE CONCRETE FOUNDATION DETAIL



SECTION A

RAPID FLASHING BEACON AND CROSSWALK DETAILS

NO SCALE

1

DATE: 4/24/2020	1	ES	7/31/20	CONFORMED SET
SCALE: AS SHOWN	NO.	BY	DATE	REVISIONS
DRAWN BY: ES				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: ES				
CHECKED BY: CDA				
SURVEYED BY: WILSEY-HAM				

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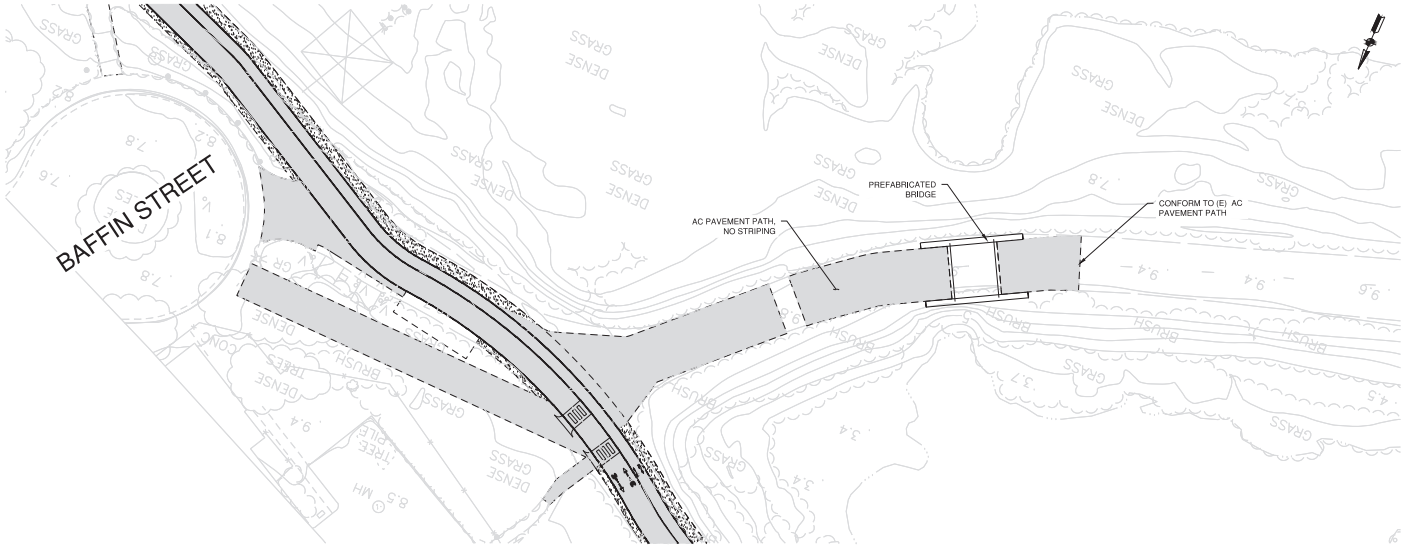
PAVING AND STRIPING DETAILS

SHEET
PS 37
SHEET 224 OF 384

CIP PROJ. NUMBER
CIP 301-657



PAVEMENT REPLACEMENT PLAN FOR BAFFIN STREET BRIDGE REPLACEMENT 1

SCALE: 1" = 20'

DATE:	4/24/2020			
SCALE:	AS SHOWN			
DRAWN BY:	ES			
PROJECT NUMBER:	FOST.12.16			
DESIGNED BY:	ES			
CHECKED BY:	CDA			
SURVEYED BY:	WILSEY-HAM			
NO.	BY	DATE	REVISIONS	
1	ES	7/31/20	CONFORMED SET	

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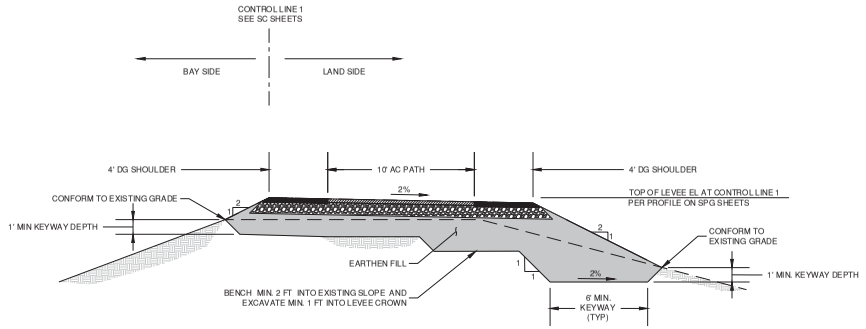
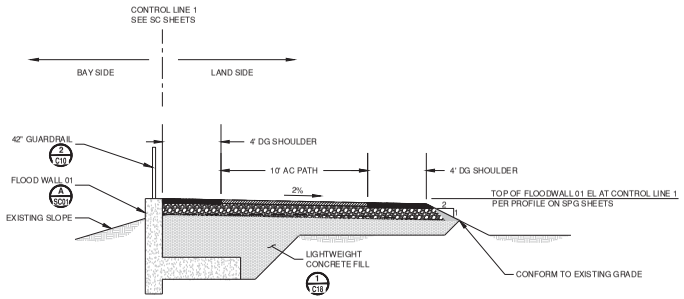
PAVING AND STRIPING DETAILS

SHEET
PS 38
SHEET 225 OF 384

CIP PROJ. NUMBER
CIP 301-657



TYPICAL SECTION A
SCALE: 1/4" = 1'-0"
TCX 01



TYPICAL SECTION B
SCALE: 1/4" = 1'-0"
TCX 01

TYPICAL SECTION SCHEDULE

SECTION	STARTING STATION	ENDING STATION	DESCRIPTION
A	0+00	9+29	LEVEE SECTION - 10' PATH, 4' SHOULDER BOTH SIDES
B	9+29	11+18	CONCRETE FLOOD WALL - BAY SIDE ONLY
C	11+18	14+23	CONCRETE FLOOD WALLS - BAY AND LAND SIDES
N/A	14+23	44+18	NO LEVEE IMPROVEMENTS
D	44+18	45+77	LEVEE SECTION - 12' PATH, 4' SHOULDER AND 2' SHOULDER
E	45+77	49+25	LEVEE SECTION - 12' PATH, VARIED WIDTH TO CONCRETE FLOOD WALL ON LAND SIDE
N/A	49+25	49+98	TRANSITION - SHEET PILE WALL WITH LAND SIDE CONCRETE FLOOD WALL AND RETAINING WALL
F	49+98	55+97	SHEET PILE WALL - 2:1 SLOPE TO MSE RETAINING WALL
G1	55+97	64+00	SHEET PILE WALL - 2:1 SLOPE TO CONFORM
H	64+00	68+99	SHEET PILE WALL - MSE RETAINING WALL ON LAND SIDE
I	68+99	69+91	LAGOON OUTFALL STRUCTURE - MSE RETAINING WALL ON LAND SIDE
H	69+91	96+98	SHEET PILE WALL - MSE RETAINING WALL ON LAND SIDE
J	96+98	98+25	SHEET PILE WALL - CONCRETE FLOODWALL ON LAND SIDE
K	98+25	99+71	CONCRETE FLOODWALL ON LAND SIDE
N/A	99+71	102+50	WERDER PIER IMPROVEMENTS - TRAIL IMPROVEMENTS SIMILAR TO SECTION D
N/A	102+50	104+50	TRANSITION - FLOOD IMPROVEMENTS NOT LOCATED AT CONTROL LINE
G	104+50	106+35	SHEET PILE WALL - 2:1 SLOPE TO CONFORM
F	106+35	109+27	SHEET PILE WALL - 2:1 SLOPE TO MSE RETAINING WALL
G	109+27	165+00	SHEET PILE WALL - 2:1 SLOPE TO CONFORM
H	165+00	166+63	SHEET PILE WALL - MSE RETAINING WALL ON LAND SIDE
G	166+63	177+50	SHEET PILE WALL - 2:1 SLOPE TO CONFORM
F	177+50	182+90	SHEET PILE WALL - 2:1 SLOPE TO MSE RETAINING WALL
H	182+90	185+51	SHEET PILE WALL - MSE RETAINING WALL ON LAND SIDE
G	185+51	186+75	SHEET PILE WALL - 2:1 SLOPE TO CONFORM
L	186+75	188+00	CONCRETE FLOOD WALL - 2:1 SLOPE TO CONFORM
M	188+00	203+05	LEVEE SECTION - 12' PATH WITH 4' AND 2' SHOULDERS - 2:1 SLOPE TO CONFORM
N	203+05	227+62	SHEET PILE WALL - 2:1 SLOPE TO CONFORM
L	227+62	228+42	CONCRETE FLOOD WALL - 2:1 SLOPE TO CONFORM
O	228+42	230+35	LEVEE SECTION AT LAGOON INTAKE - VARIED WIDTH
M	230+35	252+42	LEVEE SECTION - 12' PATH WITH 4' AND 2' SHOULDERS - 2:1 SLOPE TO CONFORM
L	252+42	253+00	CONCRETE FLOOD WALL - 2:1 SLOPE TO CONFORM
N	253+00	304+23	SHEET PILE WALL - 2:1 SLOPE TO CONFORM
P	304+23	306+13	CONCRETE FLOOD WALL - 2:1 SLOPE TO CONFORM
N/A	306+13	306+26	FLOODBREAK - NO TYPICAL SECTION
P	306+26	311+19	CONCRETE FLOOD WALL - 2:1 SLOPE TO CONFORM
Q	311+19	331+09	CONCRETE FLOOD WALL - 2:1 SLOPE TO CONFORM, NO SHOULDER LAND SIDE OF PATH
N/A	331+09	331+21	FLOODBREAK - NO TYPICAL SECTION
R	331+21	342+89	SHEET PILE WALL - 2:1 SLOPE TO CONFORM, NO SHOULDER LAND SIDE OF PATH
N/A	342+89	342+91	SHEET PILE WALL END - NO TYPICAL SECTION

SHEET SET NOTES:

1. TYPICAL SECTIONS SHOWN ARE VIEWED LOOKING ALONG CONTROL LINE 1 IN THE DIRECTION OF INCREASING STATION NUMBERS.
2. SEE "SPG" SHEETS FOR LOCATION OF WHERE EACH TYPICAL SECTION IS APPLIED.
3. SEE "SC" SHEETS FOR LOCATION OF REFERENCE CONTROL LINE; "SPG" SHEETS FOR SHEET PILE WALL CONFIGURATIONS AND GRADING; "W" SHEETS FOR FLOODWALLS AND RETAINING WALLS; AND "CX" SHEETS FOR DETAILED CROSS SECTIONS.
4. SEE "PS" SHEETS FOR PAVEMENT AND STRIPING DETAILS. TYPICAL PAVEMENT IS 3 INCHES OF AC OR 3 INCHES OF DG OVER 10 INCHES OF AB, AS SHOWN.
5. SEE "L" SHEETS FOR TOPSOIL, PLANTING, AND IRRIGATION DETAILS. TOPSOIL AND PLANTING NOT SHOWN FOR CLARITY.
6. SEE "DU" SHEETS FOR CLEARING, GRUBBING, VEGETATION REMOVAL AND PROTECTION, AND STRUCTURE, FENCE AND UTILITY REMOVAL.
7. SEE "S" SHEETS FOR DEPTH OF SHEET PILE WALL PENETRATION AT EACH TYPICAL SECTION. .
8. EMBANKMENT FILL IS SHOWN IN THE TYPICAL SECTIONS AS GRAY SHADING. SEE SPECIFICATION SECTION 31 00 00 FOR FILL MATERIAL, SUBGRADE PREPARATION, BENCHING AND PLACEMENT REQUIREMENTS. LIGHTWEIGHT CONCRETE FILL IS SPECIFIED IN SECTION 31 23 30.
9. CONTRACTOR SHALL PERFORM REMEDIAL GRADING TO LANDSIDE AFTER COMPLETING WATERSIDE IMPROVEMENTS.
10. PAVEMENT LOCATIONS ABOVE AN EARTHEN SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 10 TO 12 INCHES BELOW FINISHED SUBGRADE ELEVATION, MOISTURE CONDITIONED, AND COMPACTED AS RECOMMENDED IN THE FIELD.
11. EARTHEN FILLS SHALL BE PLACED IN LIFTS NO GREATER THAN 10 INCHES. CELLULAR CONCRETE FILLS SHALL NOT EXCEED 4 FEET IN LIFT THICKNESS OR AS RECOMMENDED BY MANUFACTURER.
12. WHERE "DRAIN ROCK" IS INDICATED, CALTRANS CLASS 2 PERMEABLE MATERIAL MAY BE USED.
13. TYPICAL SECTIONS SHOW LIGHTWEIGHT CONCRETE FILL, AGGREGATE BASES, PAVEMENTS, AND CONCRETE PLACED TO THE OUTER ENVELOPE OF SHEET PILE CORRUGATIONS AS THEY WOULD BE SEEN IN PLAN VIEW. (FOR EXAMPLE TO CONTROL LINE 1.) IT SHALL BE UNDERSTOOD THAT FILLS, BASES, PAVEMENTS, AND CONCRETE SHALL BE PLACED SO AS TO FILL COMPLETELY THE CORRUGATIONS OF THE SHEET PILE SECTIONS AS SEEN IN PLAN VIEW, ON BOTH SIDES OF THE SHEET PILING AS OCCURS.

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

TYPICAL CROSS SECTIONS

SHEET
TCX 01
SHEET 226 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ARoehl\AppData\Local\Temp\Temp1_TYPICAL SECTIONS_Conform - Standard.zip\TYPICAL SECTIONS_Conform.dwg

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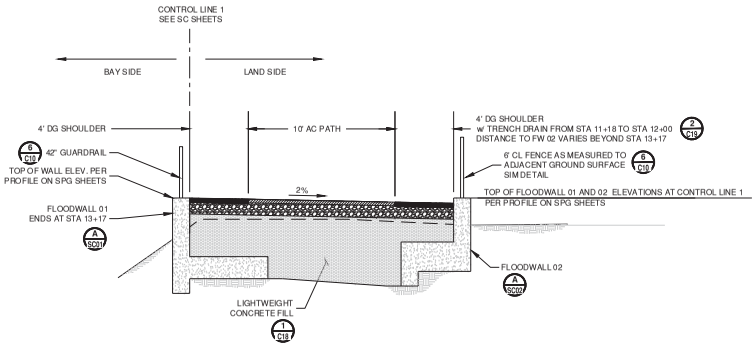
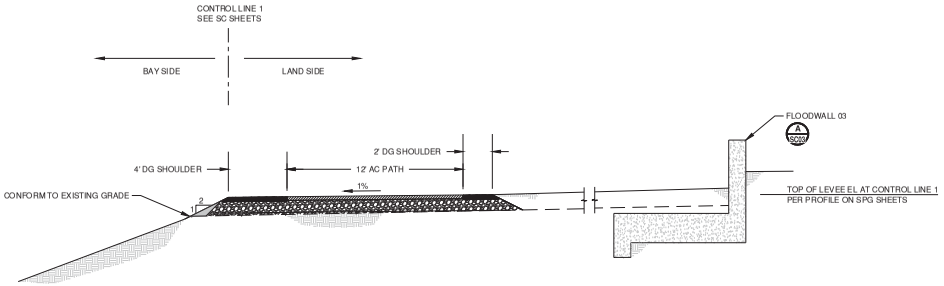
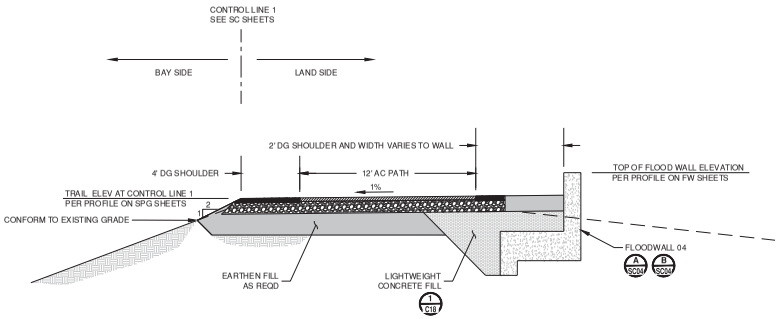


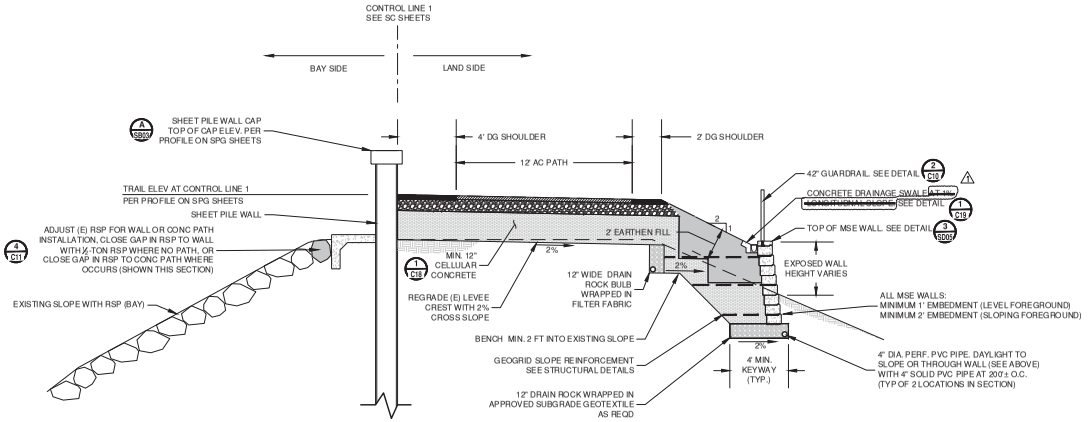
TYPICAL SECTION C (TCX 02)
SCALE: 1/4" = 1'-0"



TYPICAL SECTION D (TCX 02)
SCALE: 1/4" = 1'-0"



TYPICAL SECTION E (TCX 02)
SCALE: 1/4" = 1'-0"



TYPICAL SECTION F (TCX 02)
SCALE: 1/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	7/31/20	CONFORMED SET

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

TYPICAL CROSS SECTIONS

SHEET
TCX 02
SHEET 227 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\Achan\AppData\Local\Temp\Temp1_TYPICAL SECTIONS_Conform - Standard.zip\TYPICAL SECTIONS_Conform.dwg

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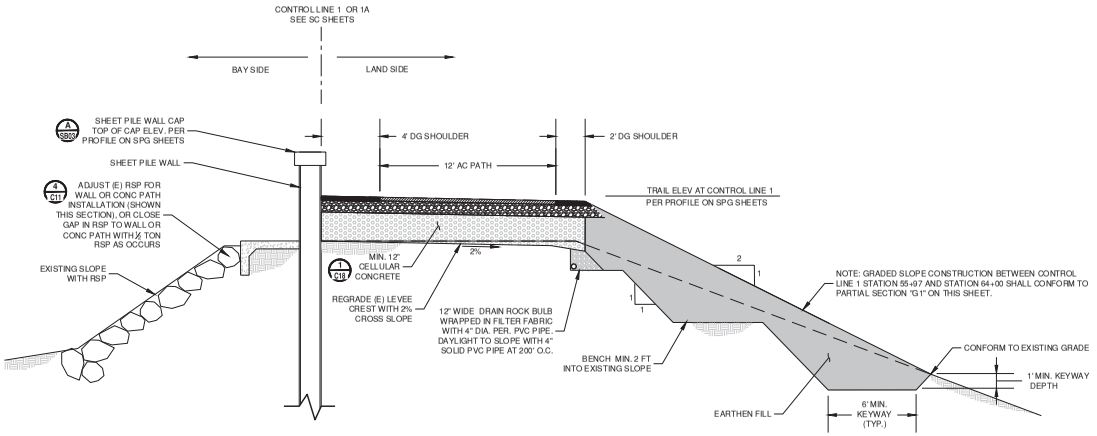

TYPICAL SECTION G TCX 03

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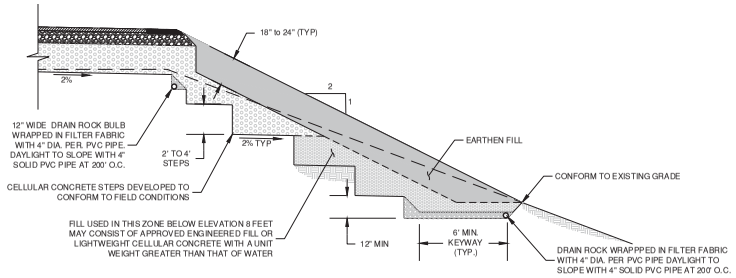
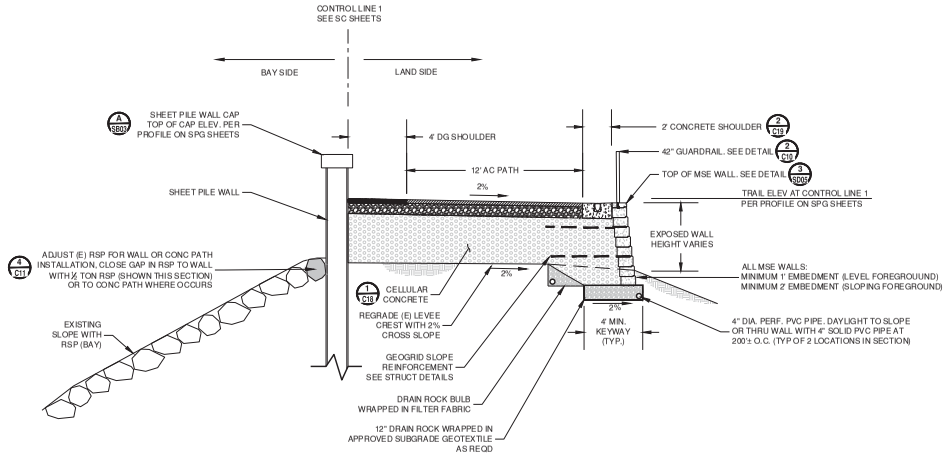


PARTIAL SECTION G1 TCX 03

SCALE: 1/4" = 1'-0"



TYPICAL SECTION H TCX 03

SCALE: 1/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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CIP 301-657

TYPICAL SECTIONS

SHEET
TCX 03
SHEET 228 OF 384

CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\AOsher\AppData\Local\Temp\Temp1_TYPICAL SECTIONS_Conform - Standard.zip\TYPICAL SECTIONS_Conform.dwg

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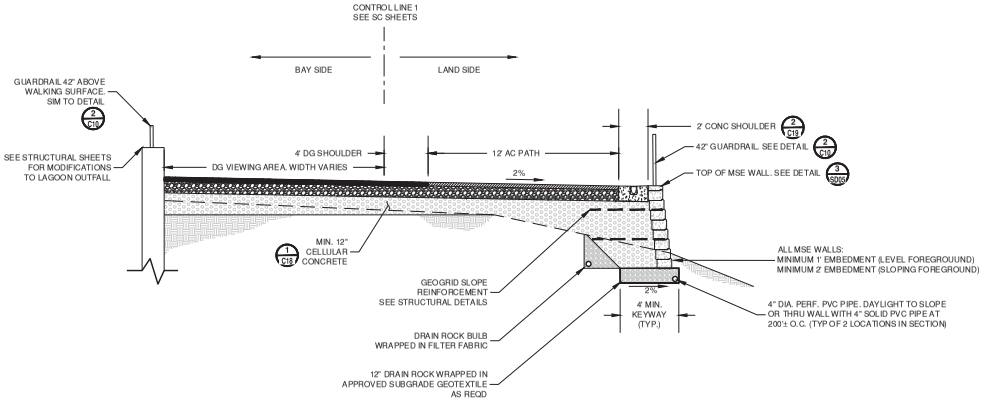
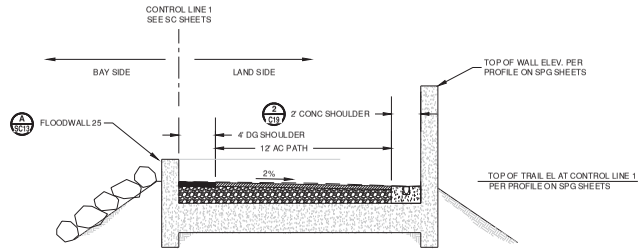


TYPICAL SECTION I — TCX 04

SCALE: 1/4" = 1'-0"



TYPICAL SECTION J — TCX 04

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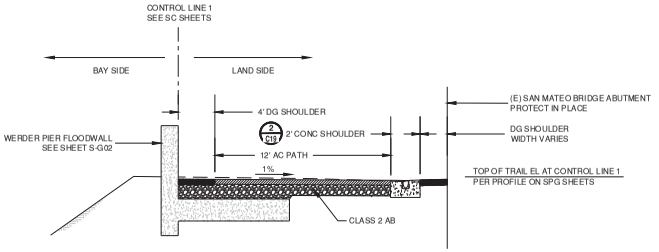

TYPICAL SECTION K — TCX 04

SCALE: 1/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	ARO
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	ARO
CHECKED BY:	CDA
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	7/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

TYPICAL SECTIONS

SHEET
TCX 04
SHEET 229 OF 384

CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\AppData\Local\Temp\Temp1_TYPICAL SECTIONS_Conform - Standard.zip\TYPICAL SECTIONS_Conform.dwg

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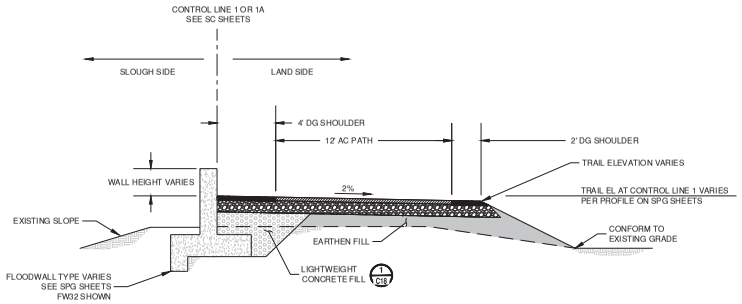
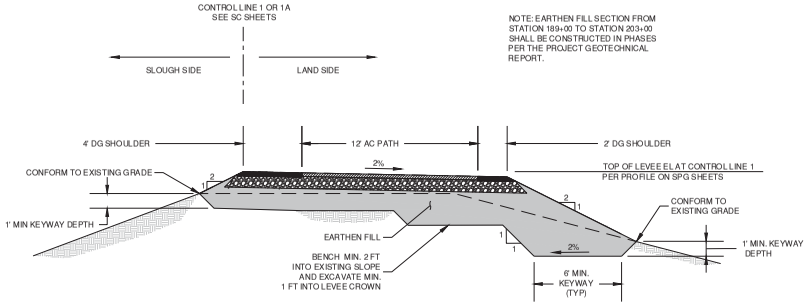
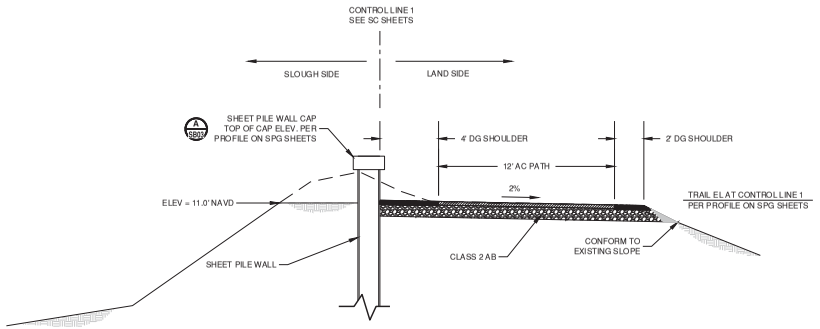


TYPICAL SECTION L — TCX 05
SCALE: 1/4" = 1'-0"



TYPICAL SECTION M — TCX 05
SCALE: 1/4" = 1'-0"



TYPICAL SECTION N — TCX 05
SCALE: 1/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: Value
PROJECT NUMBER: FOST.12.16
DESIGNED BY: Value
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TYPICAL SECTIONS

SHEET
TCX 05
SHEET 230 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\AppData\Local\Temp\Temp1_TYPICAL SECTIONS_Conform - Standard.zip\TYPICAL SECTIONS_Conform.dwg

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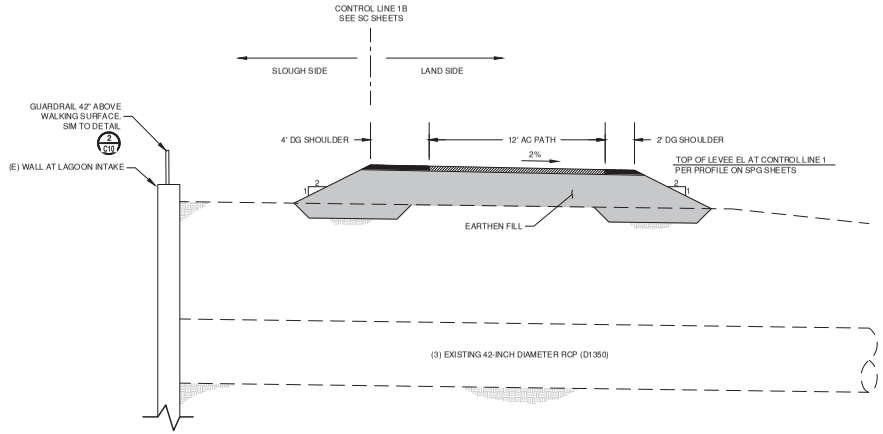
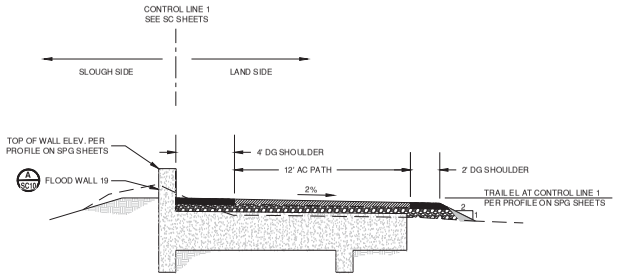
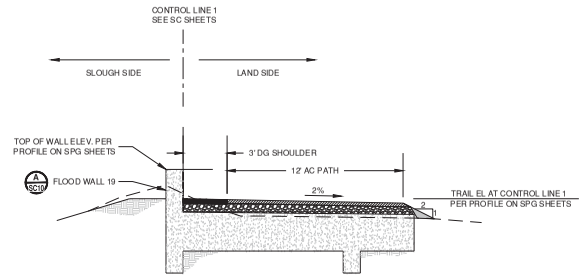


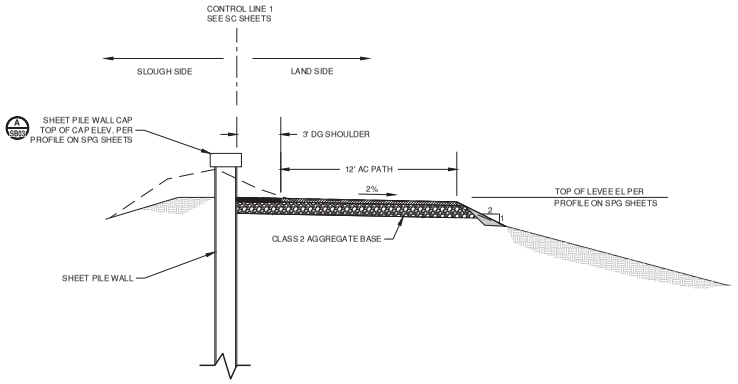
TYPICAL SECTION O — TCX 06
SCALE: 1/4" = 1'-0"



TYPICAL SECTION P — TCX 06
SCALE: 1/4" = 1'-0"



TYPICAL SECTION Q — TCX 05
SCALE: 1/4" = 1'-0"



TYPICAL SECTION R — TCX 05
SCALE: 1/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: Value
PROJECT NUMBER: FOST.12.16
DESIGNED BY: Value
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	CDA	7/31/20	CONFORMED SET

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PUBLIC WORKS DEPARTMENT
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
TYPICAL SECTIONS

SHEET
TCX 06
SHEET 231 OF 384
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 8/6/2020 FILE PATH: C:\Users\ADam\AppData\Local\Temp\Temp1_TYPICAL SECTIONS_Conform - Standard.zip\TYPICAL SECTIONS_Conform.dwg

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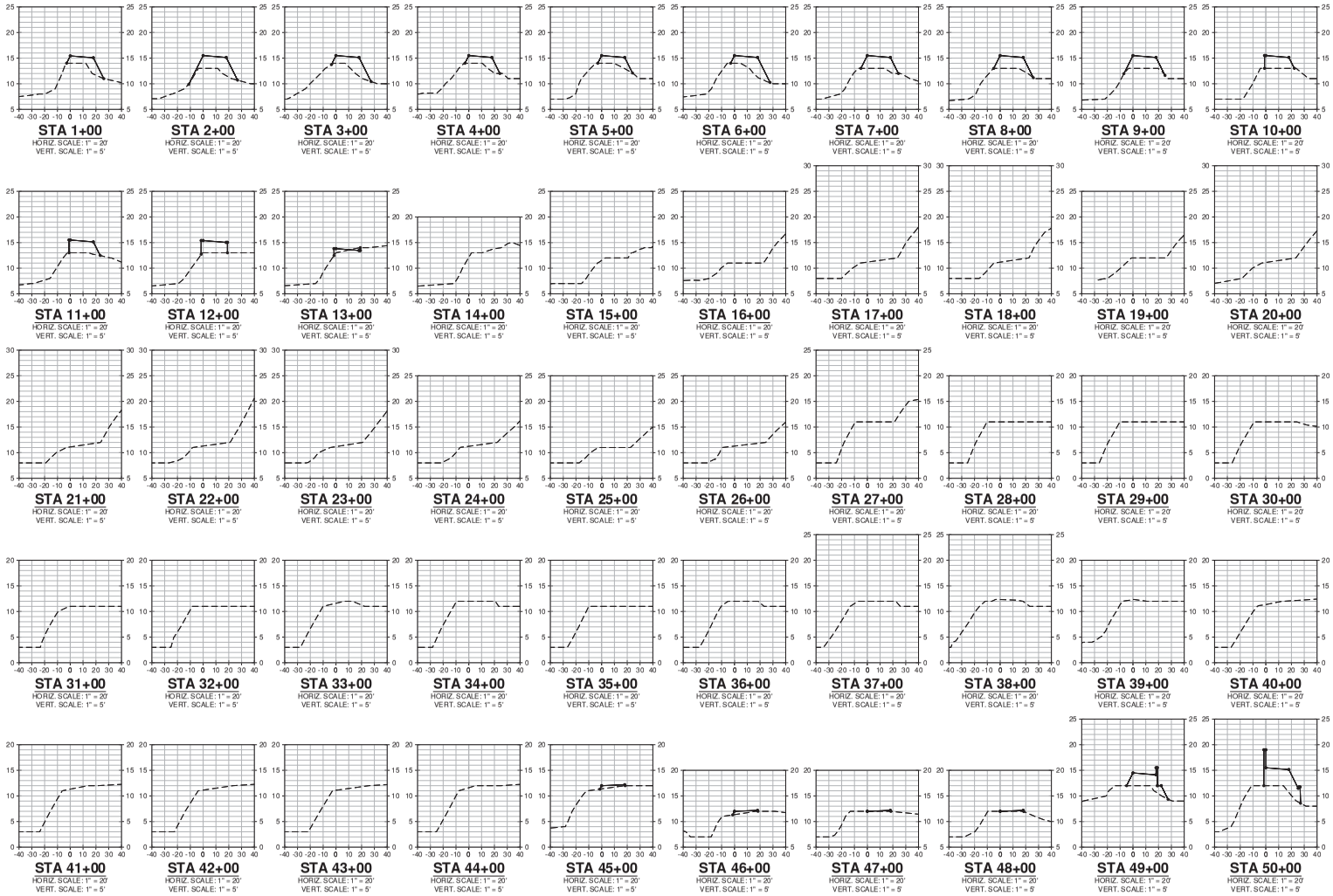

SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1	ARO	07/31/20	CONFORMED SET

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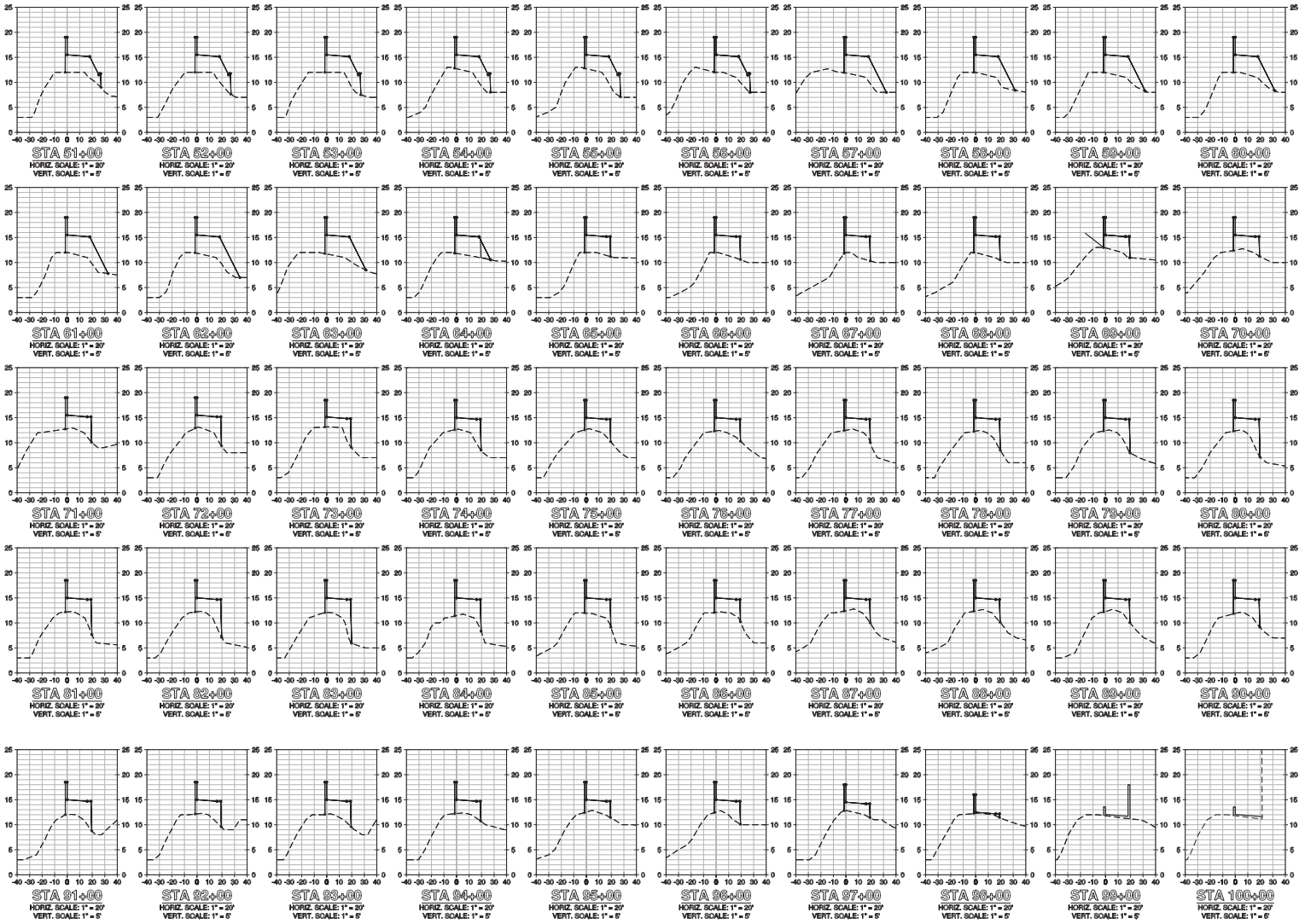
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CROSS SECTIONS

SHEET
CX 01
SHEET 232 OF 384

CIP PROJ. NUMBER
CIP 301-657



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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
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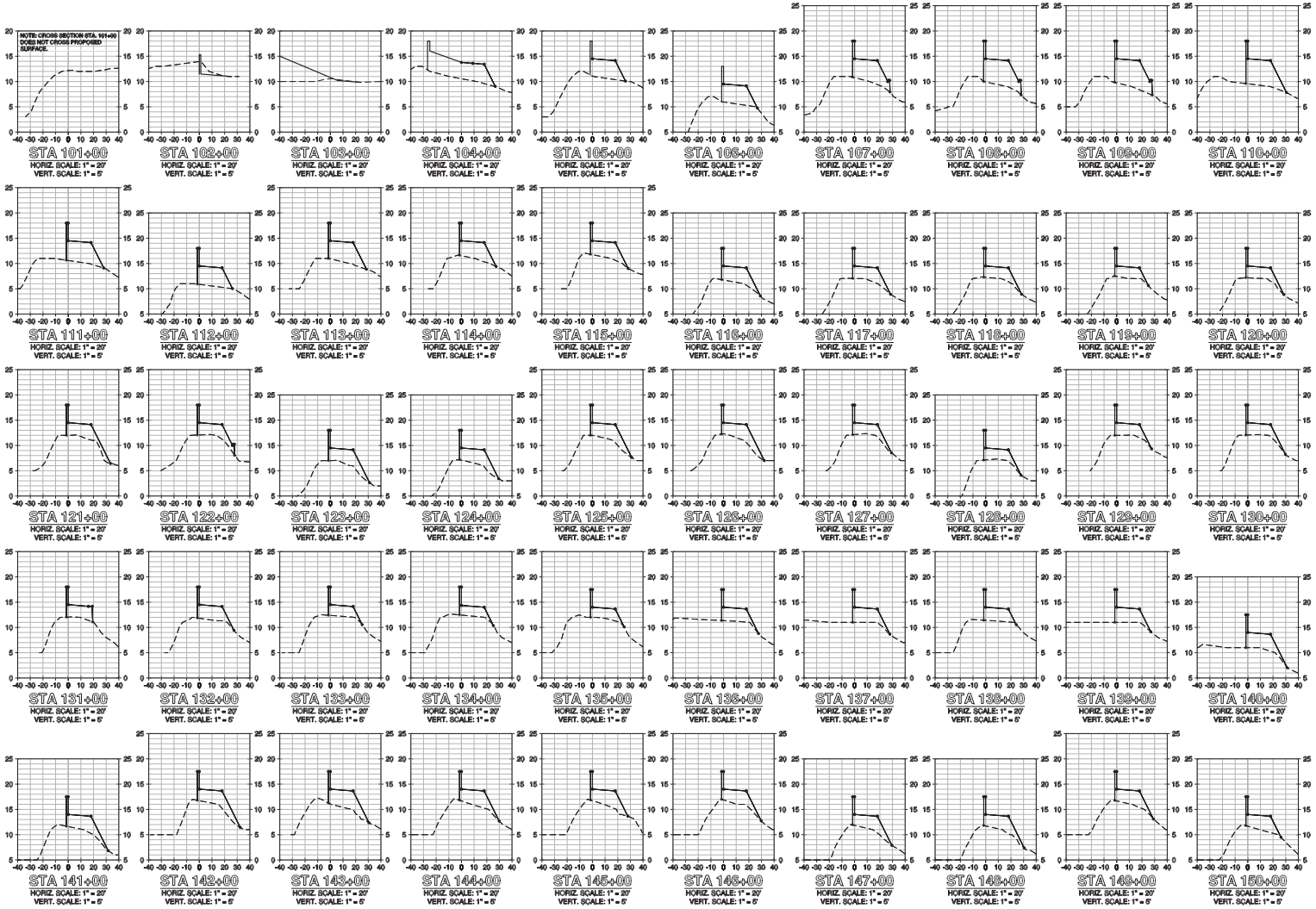
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CROSS SECTIONS

SHEET
CX 02
SHEET 233 OF 384
CIP PROJ. NUMBER
CIP 301-657



SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
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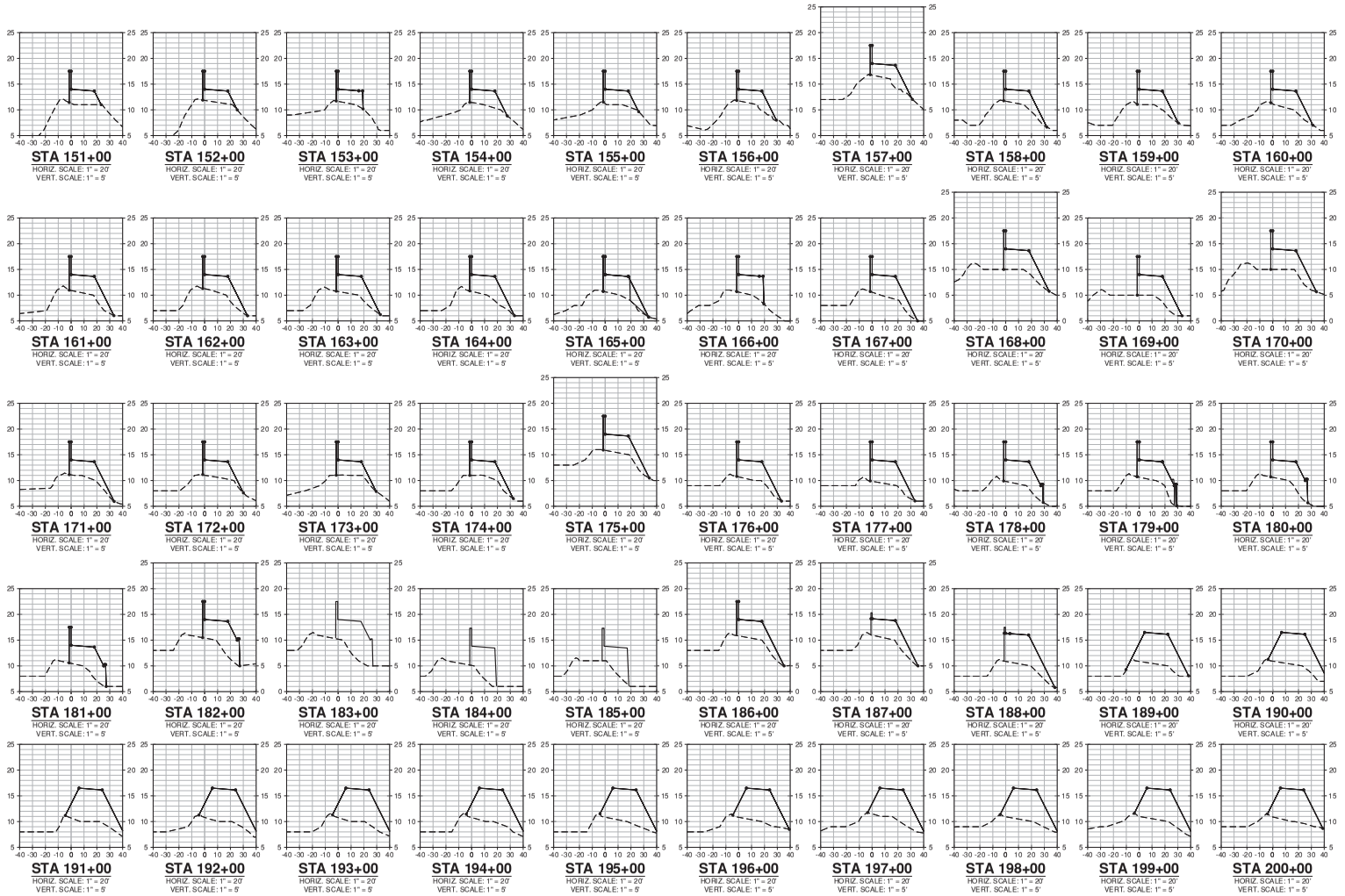
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CROSS SECTIONS

SHEET
CX 03
SHEET 234 OF 384
CIP PROJ. NUMBER
CIP 301-657



SCALE VERIFICATION

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DATE: 4/24/2020
SCALE: AS SHOWN
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PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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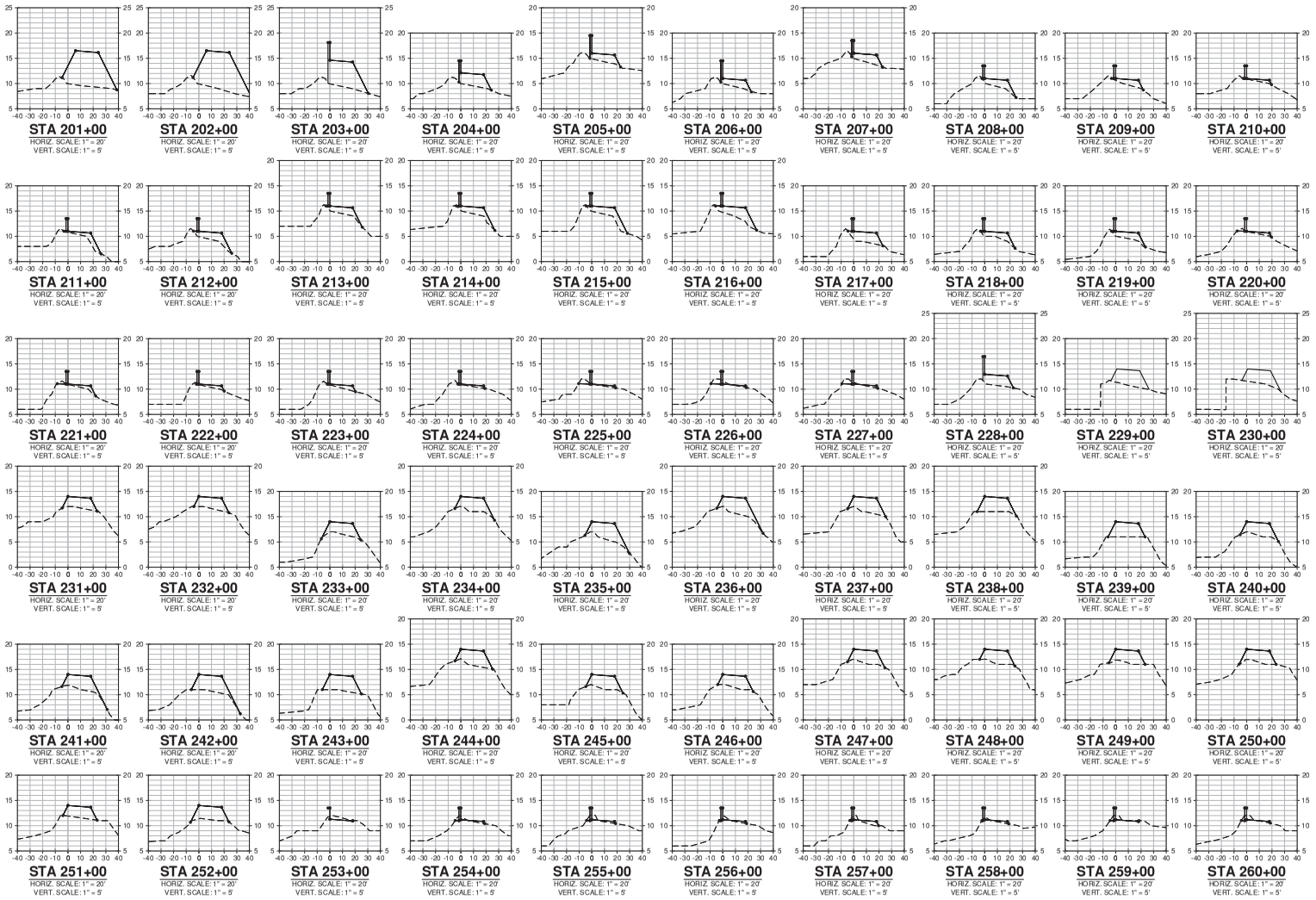
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CROSS SECTIONS

SHEET
CX 04
SHEET 235 OF 384
CIP PROJ. NUMBER
CIP 301-657



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DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
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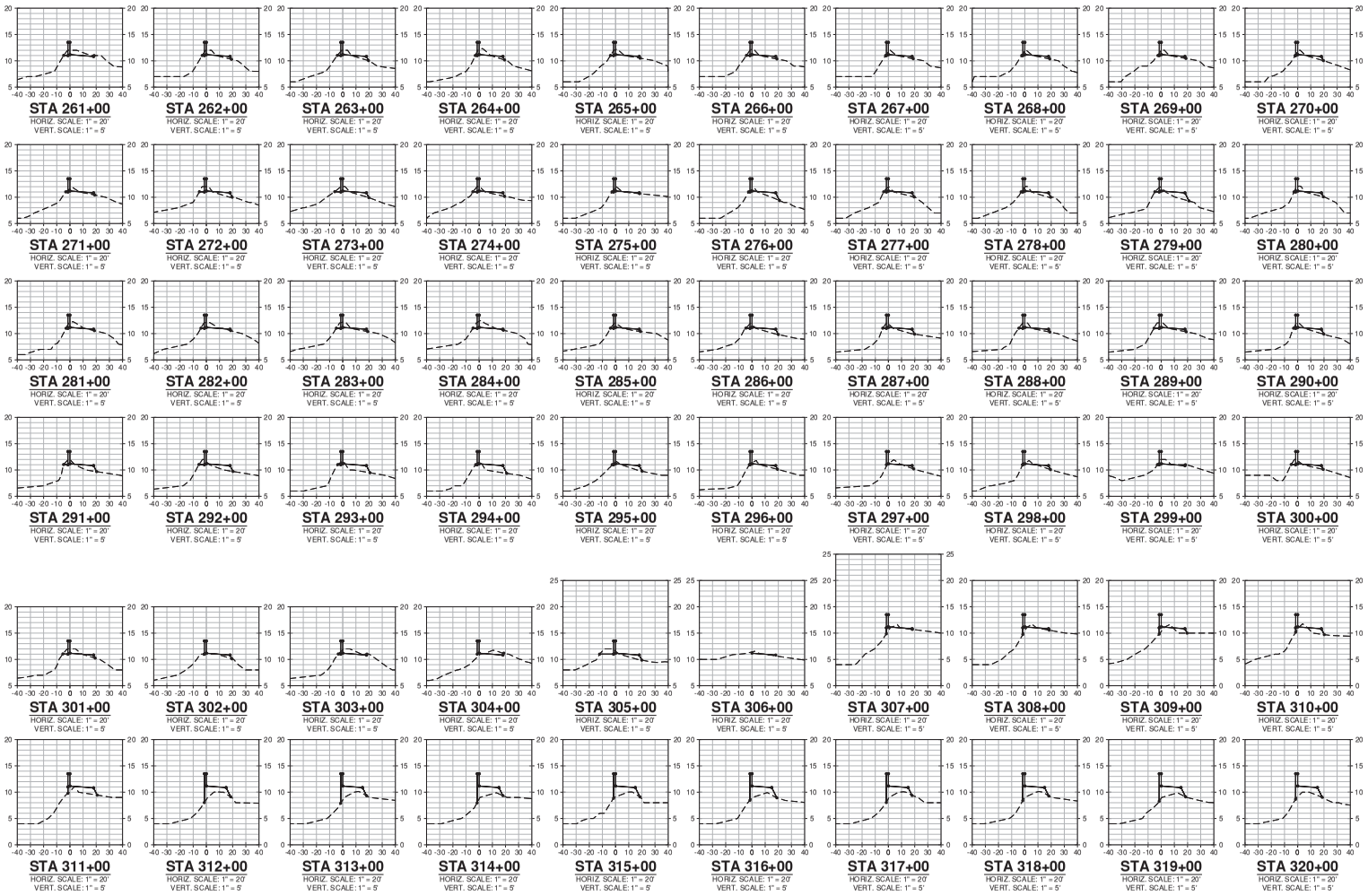
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CROSS SECTIONS

SHEET
CX 05
SHEET 236 OF 384
CIP PROJ. NUMBER
CIP 301-657



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SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
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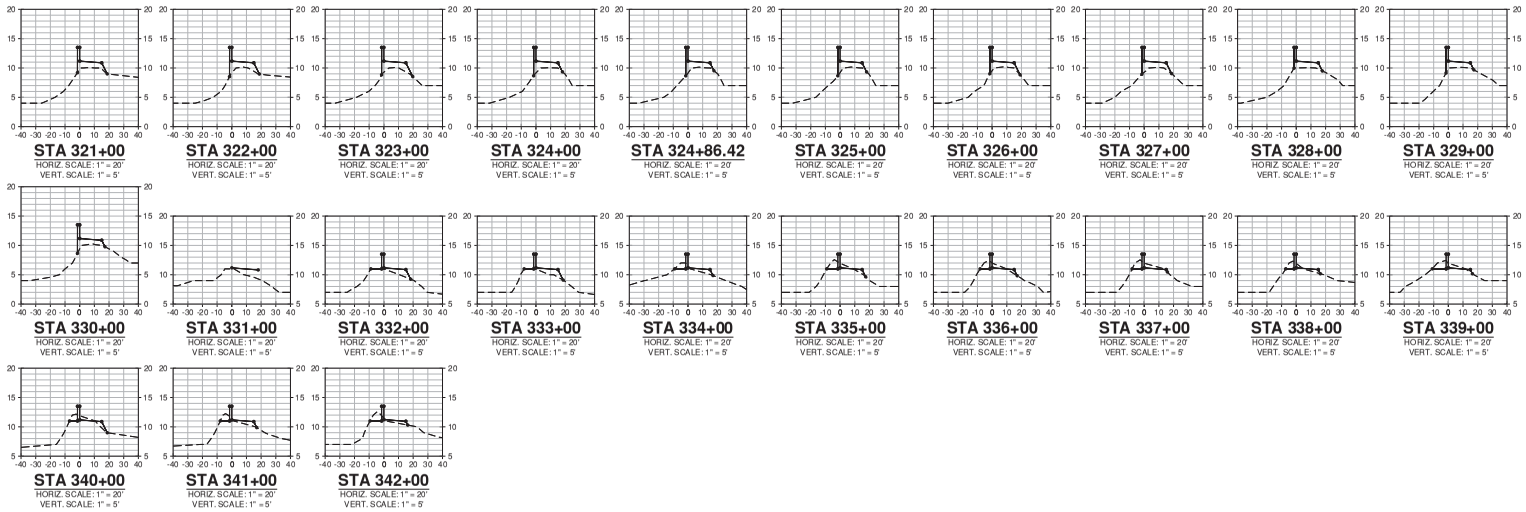
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CROSS SECTIONS

SHEET
CX 06
SHEET 237 OF 384
CIP PROJ. NUMBER
CIP 301-657



SCALE VERIFICATION

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0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: ARO
PROJECT NUMBER: FOST.12.16
DESIGNED BY: ARO
CHECKED BY: CDA
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PUBLIC WORKS DEPARTMENT
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CROSS SECTIONS

SHEET
CX 07
SHEET 238 OF 384
CIP PROJ. NUMBER
CIP 301-657

GENERAL NOTES
LOAD & RESISTANCE FACTOR DESIGN

DESIGN: Concrete Retaining and Flood Walls:
- USACE Engineering and Design - Retaining and Flood Walls (EM 1110-2-2502)
- FEMA 65.10(b) Levee Evaluation by Engeo Incorporated, Dated November 17, 2017

Sheet Pile Walls:
- USACE Engineering and Design - Design of Sheet Pile Walls (EM 1110-2-2504)
- FEMA 65.10(b) Levee Evaluation by Engeo Incorporated, Dated November 17, 2017

DEAD LOAD: Self weight

LIVE LOAD: 90 psf pedestrian load and H10 maintenance vehicle

LOADING CASES:

Usual:	Permanent Loads
Unusual:	Permanent Loads + H10 Vehicular Surcharge
Unusual:	Permanent Loads + 90 psf Pedestrian Surcharge
Extreme:	Permanent Loads + Seismic Earth Pressure
Extreme:	Permanent Loads + Wave Loading
Extreme:	Permanent Loads + Maximum Stillwater Elevation at Elev 13.50

WAVE LOADS:

Station 0+00 to 18+00:	190 plf at Elev 12.94
Station 40+00 to 48+00:	192 plf at Elev 12.94
Station 48+00 to 73+00:	308 plf at Elev 12.94
Station 73+00 to 99+00:	284 plf at Elev 12.94
Station 99+00 to 103+00:	318 plf at Elev 12.94
Station 103+00 to 133+00:	416 plf at Elev 12.74
Station 133+00 to 185+00:	325 plf at Elev 12.74
Station 206+00 to 342+60:	0 plf

SOIL PARAMETERS:

Unit Weight	
- Existing Fill:	115 pcf
- Engineered Fill:	125 pcf
Active Pressure (EFP):	
- Existing Fill:	40 pcf
- Engineered Fill:	45 pcf
- Geogrid-Reinforced Engineered Fill:	15 pcf
Ultimate Bearing Resistance:	
- No Downslope Within 5 Feet of Wall at BOF Elev:	
- Above Elev 10.00:	4,500 psf
- Elev 7.50 to Elev 10.00:	3,000 psf
- Below Elev 7.50:	1,500 psf
- Downslope Within 5 Feet of Wall at BOF Elev:	
- Above Elev 10.00:	4,500 psf
- Elev 7.50 to Elev 10.00:	2,200 psf
- Below Elev 7.50:	1,000 psf
Ultimate Friction Coefficient:	
- Elev 7.50 and Above:	0.45
- Below Elev 7.50:	0.30
Seismic Earth Pressure:	Dynamic Increment
- Equivalent Fluid Pressure:	9 pcf

CELLULAR CONCRETE FILL PARAMETERS:

Cast Density:	
- Class I:	30-35 pcf
- Class II:	41-46 pcf
- Class III:	55-60 pcf
- Class IV:	90-95 pcf
Active Earth Pressure Coeff (Ka):	0.27
Passive Earth Pressure Coeff (Kp):	3.70
Seismic Earth Pressure:	Dynamic Increment
Seismic Earth Pressure Coeff (Kae):	0.10

REINFORCED CONCRETE: f'c = 5,000 psi
fy = 60,000 psi (ASTM A706)

SHEET PILES: ASTM A572
Fy = 50,000 psi

SOIL REINFORCEMENT (GEOGRID):

Type 1:	Ultimate Tensile Strength (ASTM D6637), min:	1,870 plf
	Creep Limited Strength (ASTM D5262), min:	1,130 plf
	Long-Term Design Strength, min:	860 plf
Type 2:	Ultimate Tensile Strength (ASTM D6637), min:	3,600 plf
	Creep Limited Strength (ASTM D5262), min:	2,320 plf
	Long-Term Design Strength, min:	1,910 plf

EXCAVATION AND SHORING: Excavation and shoring is solely the Contractor"s responsibility.
Shore/underpin adjacen structures that could be damaged by excavating work.

ABBREVIATIONS

AB:	Aggregate Base, Allan Block
BOF:	Bottom of Footing
BOK:	Bottom of Key
BW:	Bottom of Wall
Clr:	Clear, Clearance
Conc:	Concrete
Const:	Construction
Dia:	Diameter
EFP:	Equivalent Fluid Pressure
Elev:	Elevation
Exist:	Existing
FG:	Finish Grade
ft:	Foot, Feet
FW:	Flood Wall
GP:	Grading Plane
Horiz:	Horizontal
Ht:	Height
in:	Inch, Inches
LOL:	Layout Line
Lt:	Left
Max:	Maximum
Min:	Minimum
No.:	Number
OG:	Original Grade
Reinf:	Reinforcement, Reinforcing, Reinforced
Rt:	Right
RW:	Retaining Wall
Sim:	Similar
SS:	Sanitary Sewer
TW:	Top of Wall
Typ:	Typical
UON:	Unless Otherwise Noted
Vert:	Vertical

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-A01.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: RLQ
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLANDO — No. C 45488 — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

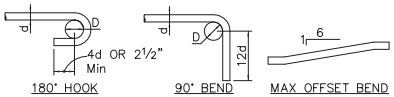
BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - GENERAL NOTES

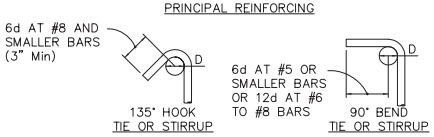
SHEET
S-A01
SHEET 239 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-A01) 2015272



D = 6d FOR #3 THRU #8
D = 8d FOR #9 THRU #11
D = 10d FOR #14 THRU #18

PRINCIPAL REINFORCING



D = 4d FOR #5 AND SMALLER
D = 6d FOR #6 THRU #8
D = 8d FOR #9 THRU #11

TIES OR STIRRUPS

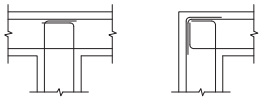
NOTES:
1. All bends shall be made cold.
2. #14 & #18 bars shall be bend-tested and approved prior to bending.

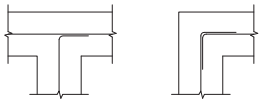
TYPICAL BAR HOOKS & BENDS (1 SA02)
NO SCALE

LAP SPLICE SCHEDULE		
BAR SIZE	f'c=5000 PSI	
	BOTTOM	TOP
#3	16"	16"
#4	16"	18"
#5	18"	24"
#6	27"	36"
#7	36"	42"
#8	42"	54"
#9	54"	66"
#10	66"	84"
#11	72"	96"
WWR 6x6 - W8 MAX	8", MEASURED FROM TRANSVERSE WIRE AT EDGE OF SHEET	WWR / LAP LENGTH
WWR 12x12 - W8 MAX	14", MEASURED FROM TRANSVERSE WIRE AT EDGE OF SHEET	

NOTES:
1. Lap splice locations shall be approved by the engineer.
2. The top bar lap splice shall be used for horizontal bars where there is 12" or more of fresh concrete below the bar. wall horizontal bars are 'top bars'. wall vertical bars are 'bottom bars'.
3. When two bars of different sizes are spliced, use the shorter lap length.
4. Stagger lap splices of adjacent bars by 24".
5. Increase lap splice length by a factor of 1.3 for epoxy coated top bars and 1.5 for epoxy coated bottom bars and 1.33 for light weight concrete.
6. Minimum center to center bar spacing: 3" for #6 and smaller, 5" for #7 and larger. increase lap length by a factor of 1.7 for smaller spacing, but no less than 1½" clear distance for #8 and smaller; and 2½" clear distance for #9 and larger.

LAP SPLICE SCHEDULE (2 SA02)
NO SCALE

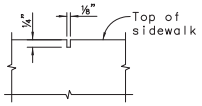




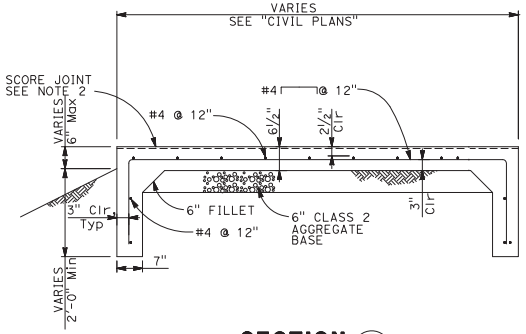
* VERTICAL REINFORCING NOT SHOWN

NOTES:
1. d = BAR DIAMETER
2. SEE TYPICAL BAR HOOKS & BENDS FOR MIN HOOK DIMENSIONS.

FOOTING AND WALL INTERSECTIONS (3 SA02)
3/4" = 1'-0"



PAVEMENT SCORE JOINT (4 SA02)
NO SCALE



SECTION (5 SA02)
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-A02.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: SMH
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLANDO — No. C 54555 — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

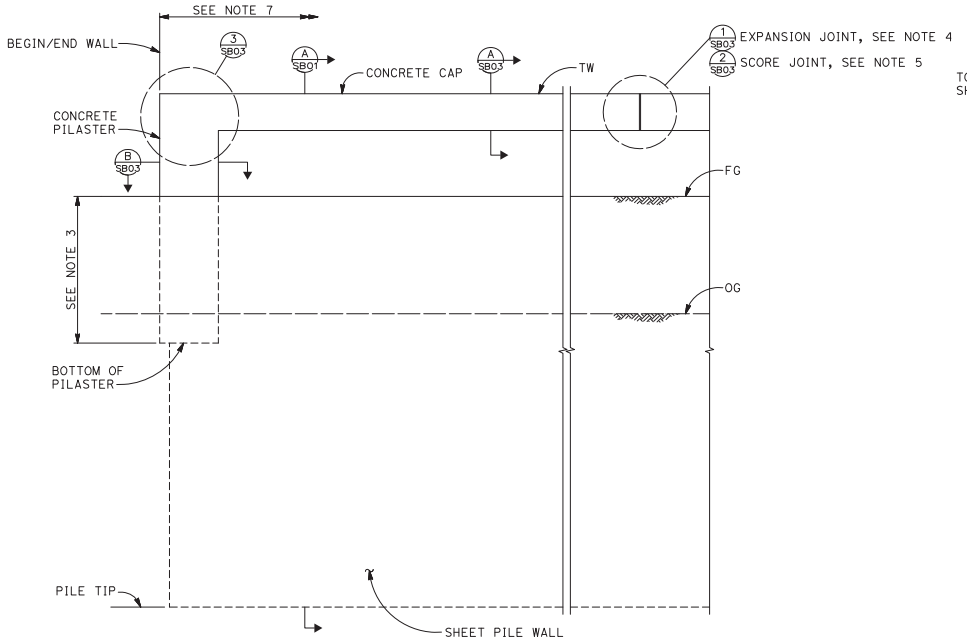
BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

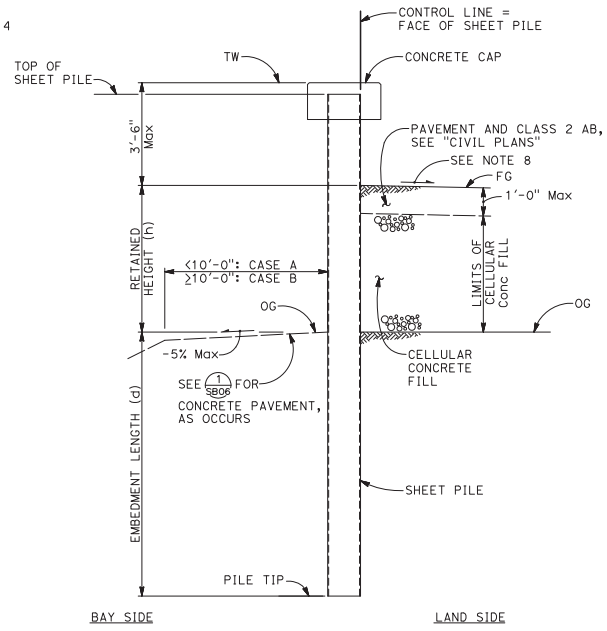
STRUCTURAL DETAILS - TYPICAL DETAILS

SHEET
S-A02
SHEET 240 OF 384
CIP PROJ. NUMMBER
CIP 301-657

(20152725-A02) 2015272



TYPICAL SHEET PILE WALL ELEVATION 1 SB01
1/2" = 1'-0"



SECTION A SB01
1/2" = 1'-0"

TABLE OF SHEET PILE DIMENSIONS AND DATA

			STATION 49+25 TO 98+25			STATION 102+58.8 TO 133+00			STATION 133+00 TO 170+00			STATION 170+00 TO 207+75		
CASE A	Max RETAINED HEIGHT (h)	(ft)	3.00	4.00	5.00	3.00	4.00	5.00	3.00	4.00	5.00	3.00	4.00	-
	CELLULAR CONCRETE CLASS	--	I	I	II	I	II	II	I	II	III	III	III	-
	Min EMBEDMENT DEPTH (d), SEE NOTE 9	(ft)	10'-0"	12'-6"	15'-0"	11'-0"	12'-0"	15'-0"	12'-0"	12'-0"	15'-0"	11'-3"	17'-0"	-
	Min THICKNESS (t), SEE NOTE 9	(in)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	-
	Min MOMENT OF INERTIA, SEE NOTE 9	(in^4/ft)	329.9	329.9	404.6	329.9	329.9	404.6	329.9	329.9	404.6	329.9	435.1	-
CASE B	Max RETAINED HEGHT (h)	(ft)	3.00	4.00	5.00	3.00	4.00	5.00	3.00	4.00	5.00	3.00	4.00	4.50
	CELLULAR CONCRETE CLASS	--	I	I	II	I	II	II	I	II	III	III	III	III
	Min EMBEDMENT DEPTH (d), SEE NOTE 9	(ft)	10'-0"	12'-6"	15'-0"	11'-0"	12'-0"	15'-0"	12'-0"	12'-0"	15'-0"	11'-3"	12'-0"	13'-6"
	Min THICKNESS (t), SEE NOTE 9	(in)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
	Min MOMENT OF INERTIA, SEE NOTE 9	(in^4/ft)	329.9	329.9	404.6	329.9	329.9	404.6	329.9	329.9	404.6	329.9	329.9	435.1

NOTES:
1. Structural elevation is shown viewed from the land side looking towards the bay.
2. Structural typical section shown viewed along Control Line looking up station.
3. Set bottom of pilaster at 1'-0" minimum below "OG" or at 3'-0" below "FG", whichever is lower.
4. Expansion joints must be spaced at 96'-0" maximum, see 1 SB03
5. Score joints must be spaced at 24'-0" maximum, see 2 SB03
6. All sheet pile wall bar reinforcing steel must be epoxy coated.
7. Refer to "SPG" sheets for sheet pile wall layout, configuration, top of wall elevations, existing grade and final grade elevations at control lines.
8. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
9. Minimum values shown, see "SPG" sheets for minimum pile tip elevations and sheet pile shapes to be installed. Sheet pile walls are designed for the soil grades of the final configuration shown. Other temporary configurations during the construction period are solely the Contractor's responsibility.
10. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-B01.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: RLQ
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLANDO — No. C 54855 — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

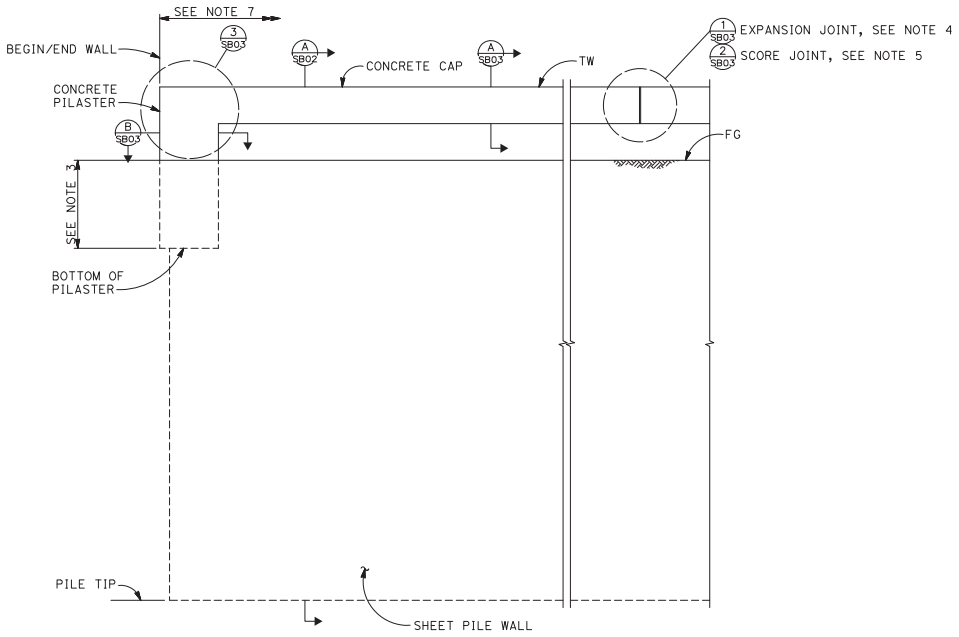
BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - SHEET PILE DETAILS No. 1

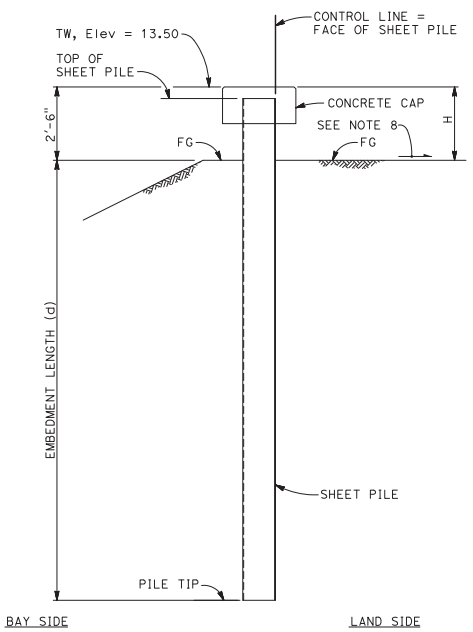
SHEET
S-B01
SHEET 241 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-B01) 2015272



TYPICAL SHEET PILE WALL ELEVATION (1 SB02)

1/2" = 1'-0"



SECTION (A SB02)

1/2" = 1'-0"

TABLE OF SHEET PILE DIMENSIONS AND DATA				
		STATION 207+75 TO 220+00	STATION 220+00 TO 228+42	STATION 252+58 TO 342+63
HEIGHT ABOVE FG ON LANDSIDE (H)	(ft)	2'-0" Min, 3'-0" Max	2'-0" Min, 3'-0" Max	2'-6"
MINIMUM EMBEDMENT DEPTH (d), SEE NOTE 9	(ft)	10'-0"	11'-3"	12'-0"
MINIMUM THICKNESS (t), SEE NOTE 9	(in)	0.330	0.330	0.330
MINIMUM MOMENT OF INERTIA, SEE NOTE 9	(in^4/ft)	156.9	156.9	156.9

NOTES:
1. Structural elevation is shown viewed from the land side looking towards the bay.
2. Structural typical section shown viewed along Control Line looking up station.
3. Set bottom of pilaster at 1'-0" minimum below "OG" or at 3'-0" below "FG", whichever is lower.
4. Expansion joints must be spaced at 96'-0" maximum, see (1 SB03)
5. Score joints must be spaced at 24'-0" maximum, see (2 SB03)
6. All sheet pile wall bar reinforcing steel must be epoxy coated.
7. Refer to "SPG" sheets for sheet pile wall layout, configuration, top of wall elevations, existing grade and final grade elevations at control lines.
8. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
9. Minimum values shown, see "SPG" sheets for minimum pile tip elevations and sheet pile shapes to be installed. Sheet pile walls are designed for the soil grades of the final configuration shown. Other temporary configurations during the construction period are solely the Contractor's responsibility.
10. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: RLQ
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
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610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLAND No. C 54515 Exp. 6/30/22 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

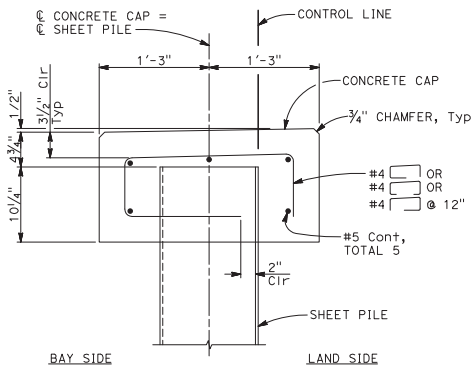
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - SHEET PILE DETAILS No. 2

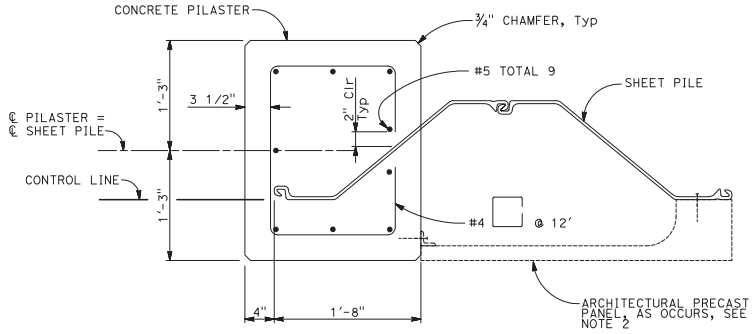
SHEET
S-B02
SHEET 242 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-B02) 2015272

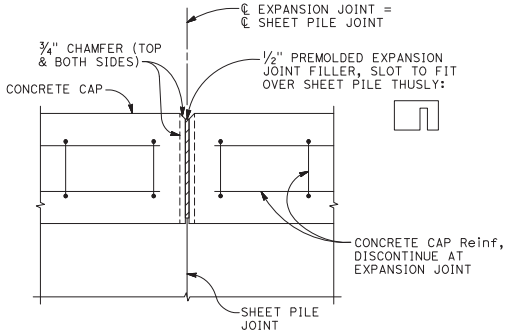
NOTES:
1. All Sheet Pile Wall bar reinforcing steel must be epoxy coated.
2. Refer to "L" sheets for architectural treatment limits and type.



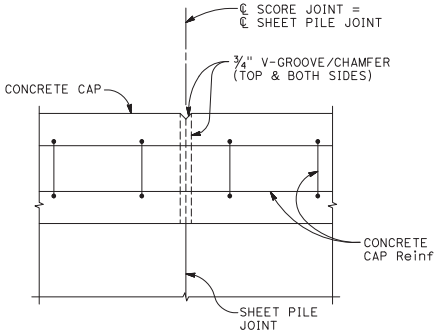
SECTION A
1 1/2" = 1'-0" SB03



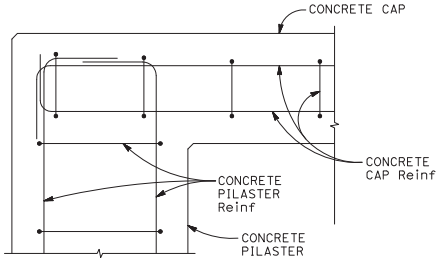
SECTION B
1 1/2" = 1'-0" SB03



DETAIL 1
1 1/2" = 1'-0" SB03



DETAIL 2
1 1/2" = 1'-0" SB03



DETAIL 3
1 1/2" = 1'-0" SB03

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-54959 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - SHEET PILE DETAILS No. 3

SHEET
S-B03
SHEET 243 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-B03) 2015272

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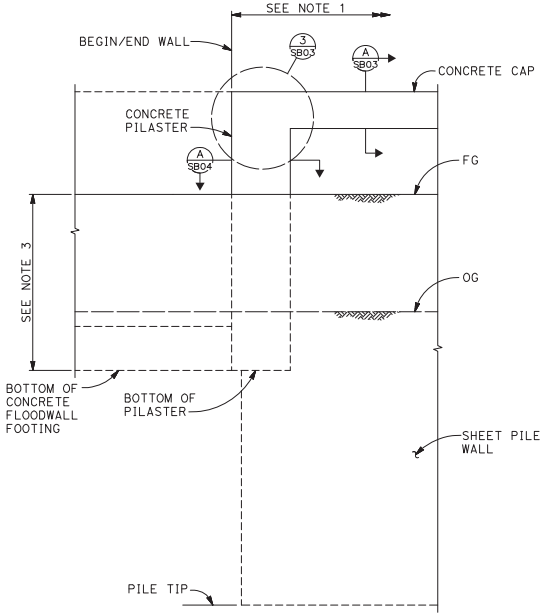
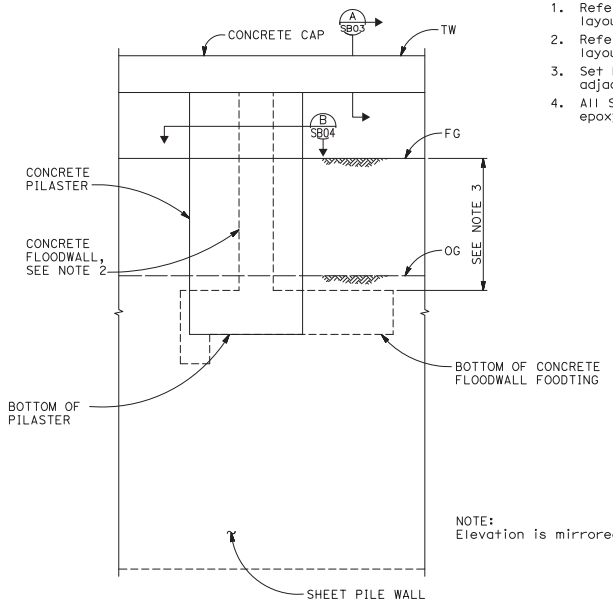


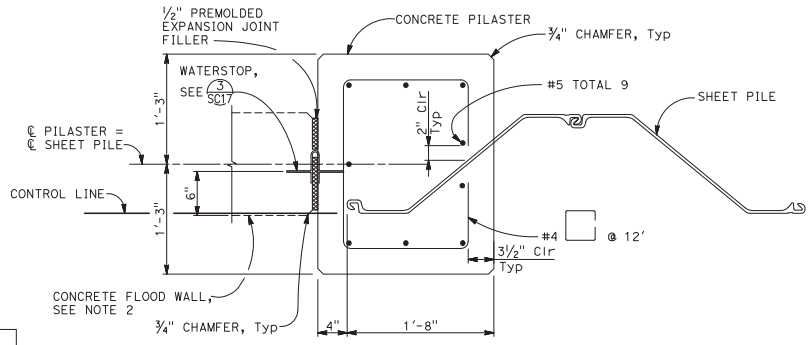
SHEET PILE WALL/CONCRETE FLOOD WALL TRANSITION 1 SB04
1/2" = 1'-0"



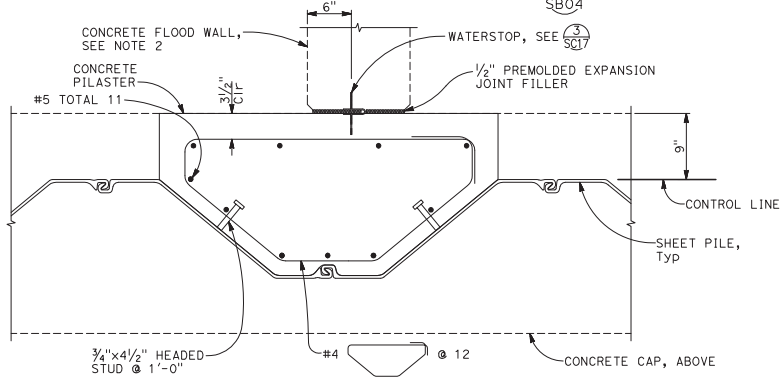
NOTE:
Elevation is mirrored.

NOTES:
1. Refer to "SPG" sheets for sheet pile wall layout, configuration and grading.
2. Refer to "S-C" sheets for concrete flood wall layout, configuration and details.
3. Set bottom of pilaster to match bottom of adjacent concrete flood wall footing elevation.
4. All Sheet Pile Wall reinforcing steel must be epoxy coated.

SHEET PILE WALL/CONCRETE FLOOD WALL TRANSITION 2 SB04
1/2" = 1'-0"



SECTION A SB04
1 1/2" = 1'-0"



SECTION B SB04
1 1/2" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: RLQ				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: DSR				
CHECKED BY: DBD				
SURVEYED BY: WILSEY-HAM				
	NO.	BY	DATE	REVISIONS
			07/31/20	CONFORMED SET

CITY OF FOSTER CITY
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610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C54959 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - SHEET PILE DETAILS No. 4

SHEET
S-B04
SHEET 244 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-B04) 2015272

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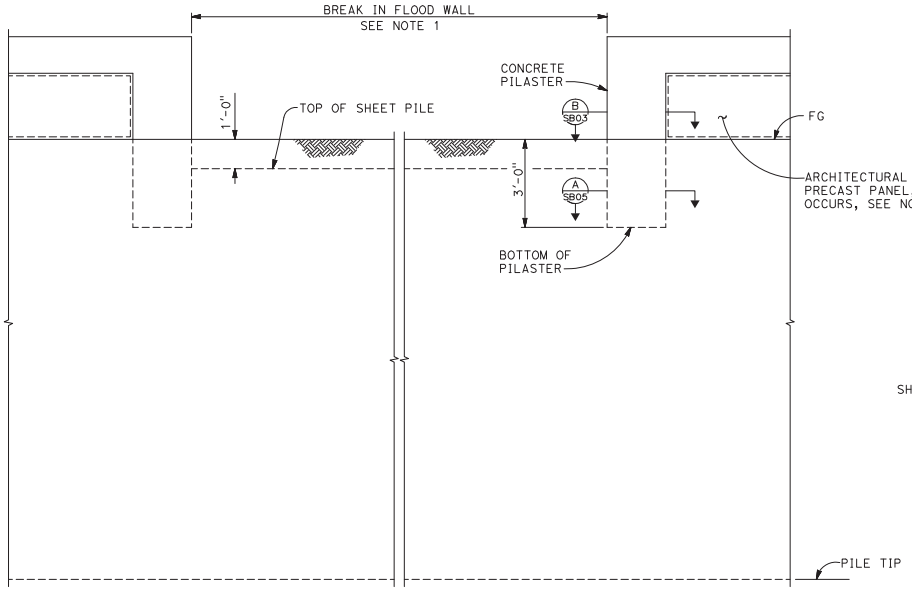
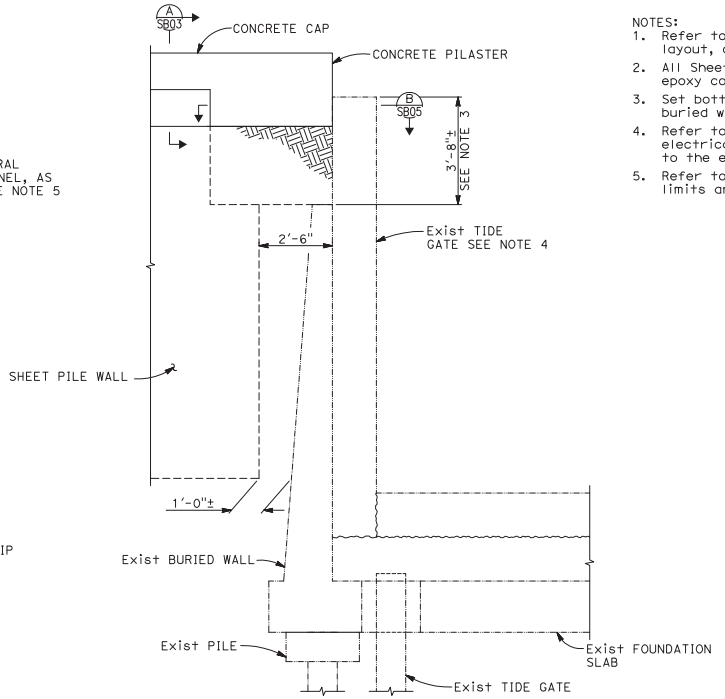


TYPICAL BREAK IN SHEET PILE WALL

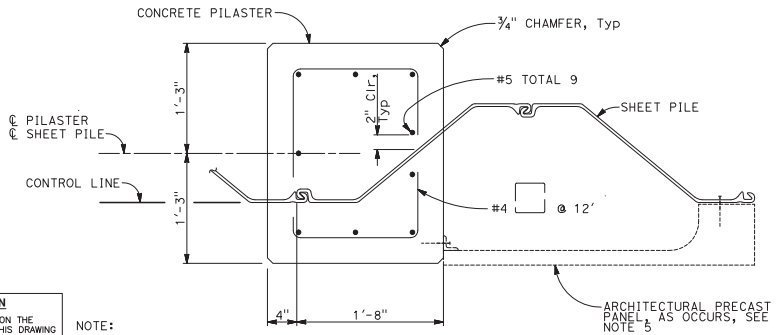
1/2" = 1'-0" (1 SB05)



SHEET PILE WALL/ TIDE GATE TRANSITION

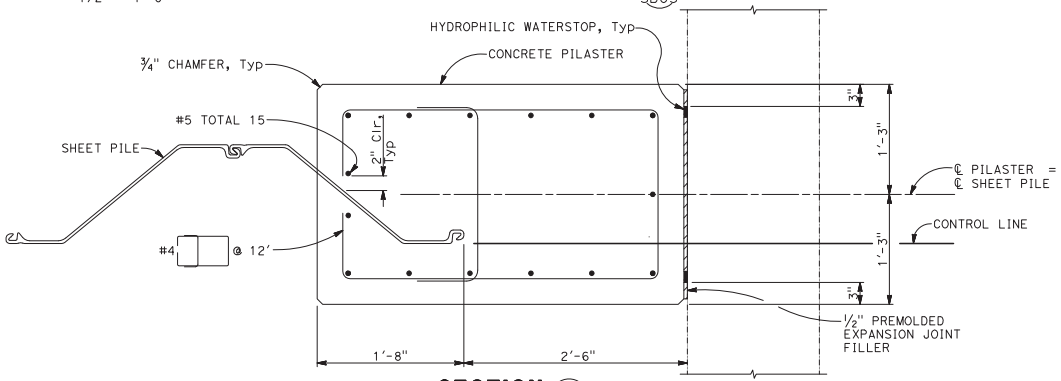
1/2" = 1'-0" (2 SB05)

NOTES:
1. Refer to "SPG" sheets for sheet pile wall layout, configuration and grading.
2. All Sheet Pile Wall reinforcing steel must be epoxy coated.
3. Set bottom of pilaster to match top of Exist buried wall.
4. Refer to "DU" sheets for layout of existing electrical conduits located within and adjacent to the existing O'Neil Slough Tide Gate structure.
5. Refer to "L" sheets for architectural treatment limits and type.



SECTION A

1 1/2" = 1'-0" (SB05)



SECTION B

1 1/2" = 1'-0" (SB05)

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. C 54585 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

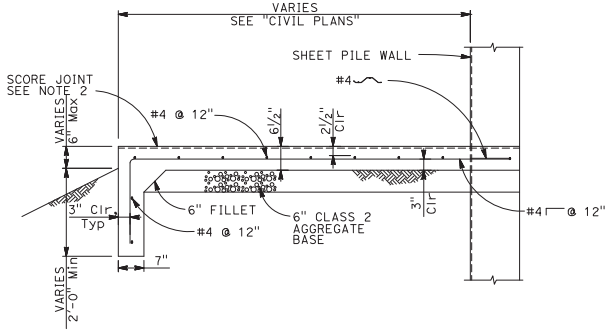
STRUCTURAL DETAILS - SHEET PILE DETAILS No. 5

SHEET
S-B05
SHEET 245 OF 384
CIP PROJ. NUMBER
CIP 301-657

(20152725-B05) 2015272

W:\2015\2015272\2015272S-B05.dwg

NOTES:
1. All Sheet Pile Wall bar reinforcing steel must be epoxy coated.
2. Transverse score joints are to be installed at 12'-0" max on center and extend full width of slab, UON. See (4/SA02) for sidewalk score joint details.



SECTION (1/SB06)
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-B06.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: RLQ
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLANDO — No. — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

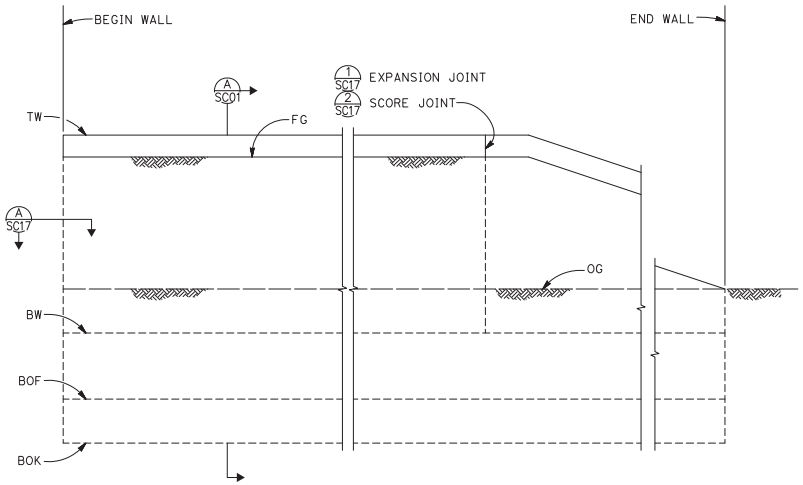
STRUCTURAL DETAILS - SHEET PILE DETAILS No. 6

SHEET
S-B06
SHEET 246 OF 384
CIP PROJ. NUMBER
CIP 301-657

(20152725-B06) 2015272

NOTES:

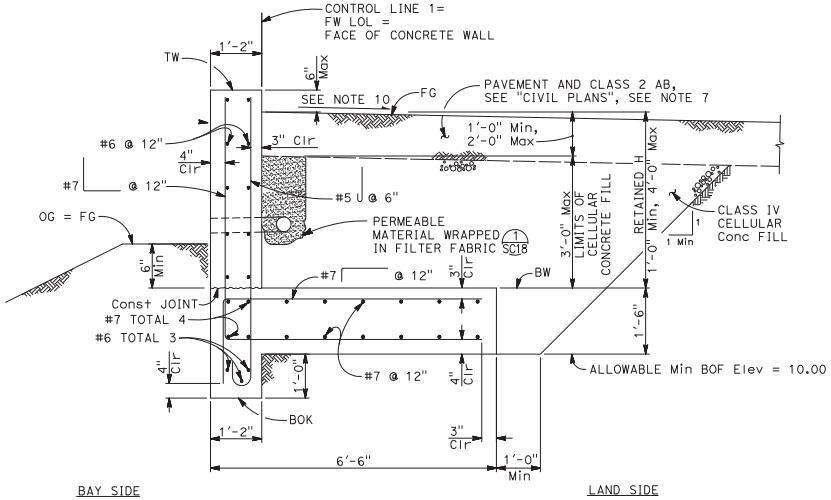
1. Structural elevation is shown viewed from land side looking towards the bay.
2. Structural typical section is shown viewed along Control Line 1 looking up station.
3. Expansion joints must be placed at 96'-0" maximum, see (1/SC17).
4. Score joints must be placed at 24'-0" maximum, see (2/SC17).
5. All bar reinforcing steel must be epoxy coated.
6. Provide step in flood wall as required, see Detail (4/SC17).
7. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
8. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines, and grading.
9. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
10. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade, soil reinforcement, and trail grading details.
11. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



FLOOD WALL No. 1

TYPICAL FLOOD WALL ELEVATION (1/SC01)

3/4" = 1'-0"



FLOOD WALL No. 1

SECTION (A/SC01)

3/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-C01.dwg

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DBR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLANDO — No. C 54455 — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 1

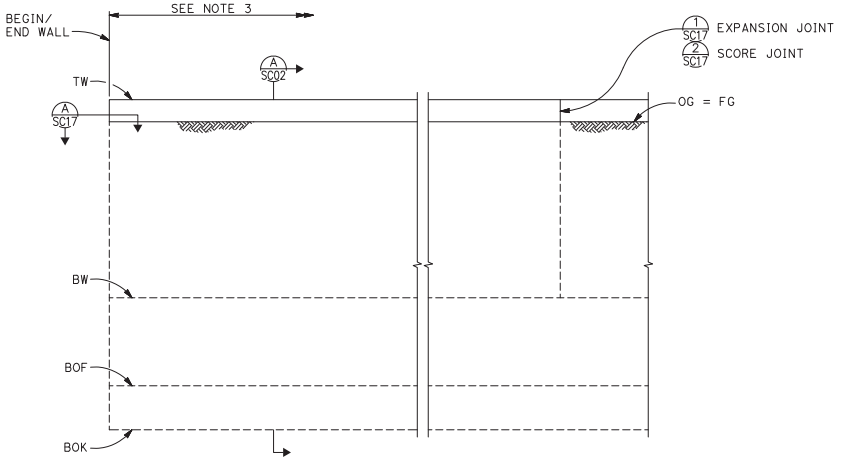
SHEET
S-C01
SHEET 247 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-C01) 2015272

NOTES:

1. Structural elevation is shown viewed from land side looking towards the bay.
2. Structural typical section is shown viewed along Control Line 1 looking up station.
3. Expansion joints must be placed at 96'-0" maximum, see (1/SC17).
4. Score joints must be placed at 24'-0" maximum, see (2/SC17).
5. All bar reinforcing steel must be epoxy coated.
6. Provide step in flood wall as required, see Detail (4/SC17).
7. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
8. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines, and grading.
9. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
10. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade, soil reinforcement, and trail grading details.
11. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.

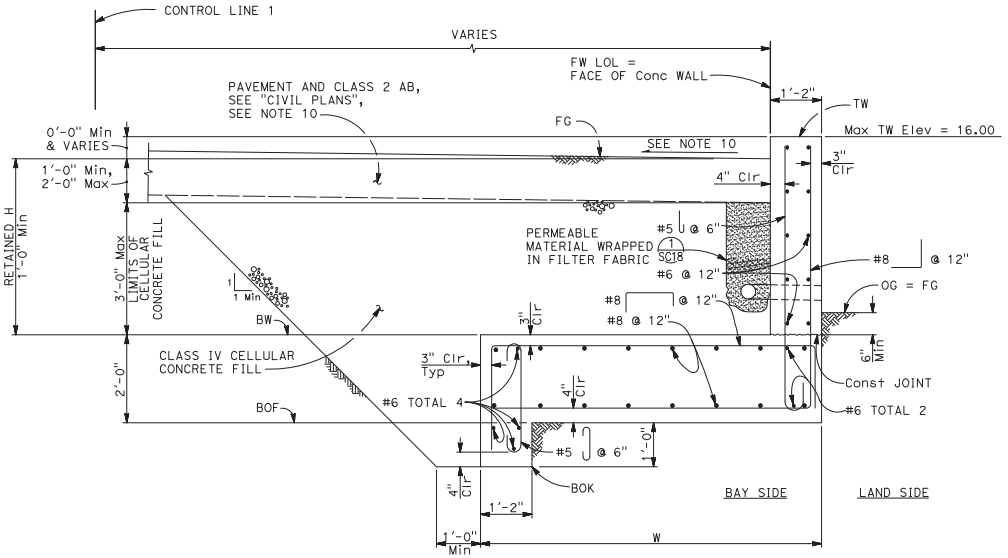
TABLE OF DIMENSIONS AND DATA		
ALLOWABLE Min BOF Elev (ft)	9.00	10.50
Max RETAINED H	2'-6"	3'-0"
FOOTING WIDTH, W	7'-9"	4'-9"



FLOOD WALL No. 2

TYPICAL FLOOD WALL ELEVATION (1/SC02)

3/4" = 1'-0"



FLOOD WALL No. 2

SECTION (A/SC02)

3/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-C02.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: RLQ
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLAND — No. C 54585 — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

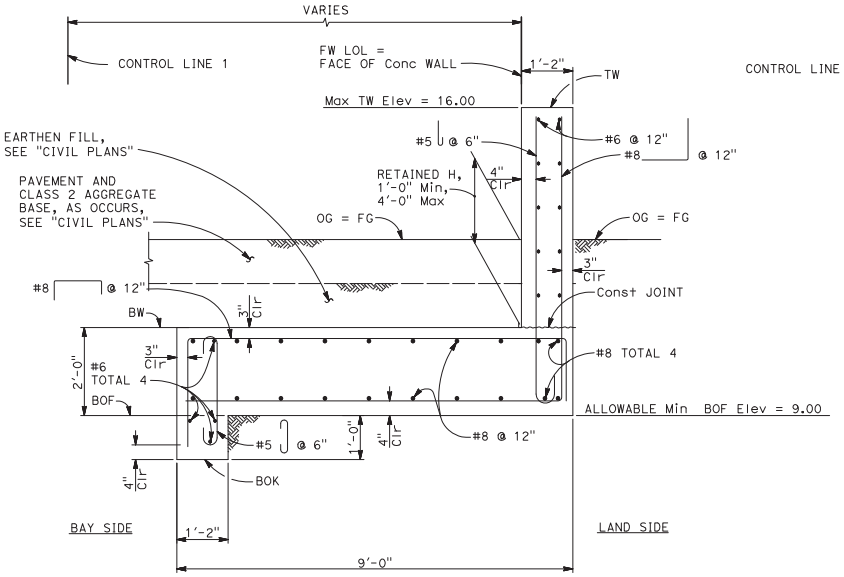
STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 2

SHEET
S-C02
SHEET 248 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-C02) 2015272

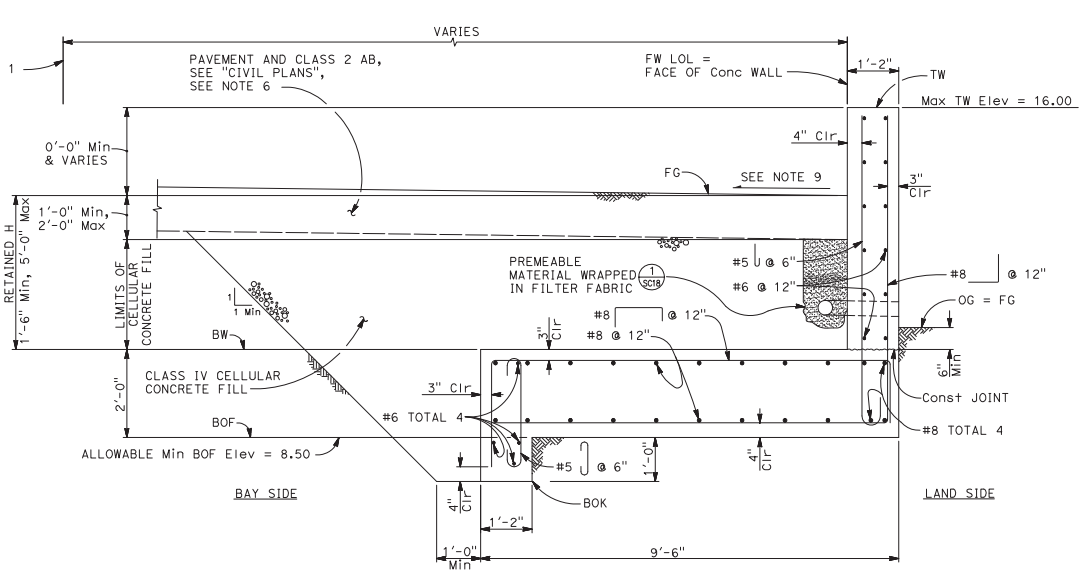
NOTES:

1. Structural typical section is shown viewed along Control Line 1 looking up station.
2. Expansion joints must be placed at 96'-0" maximum, see (1/SC17).
3. Score joints must be placed at 24'-0" maximum, see (2/SC17).
4. All bar reinforcing steel must be epoxy coated.
5. Provide step in flood wall as required, see (4/SC17).
6. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
7. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines, and grading.
8. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
9. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
10. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



FLOOD WALL No. 3 - TYPE A

SECTION (A/SC03)
3/4" = 1'-0"



FLOOD WALL No. 3 - TYPE B

SECTION (B/SC03)
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLANDO — No. C 54855 — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 3

SHEET
S-C03
SHEET 249 OF 384
CIP PROJ. NUMBER
CIP 301-657

(20152725-C03) 2015272

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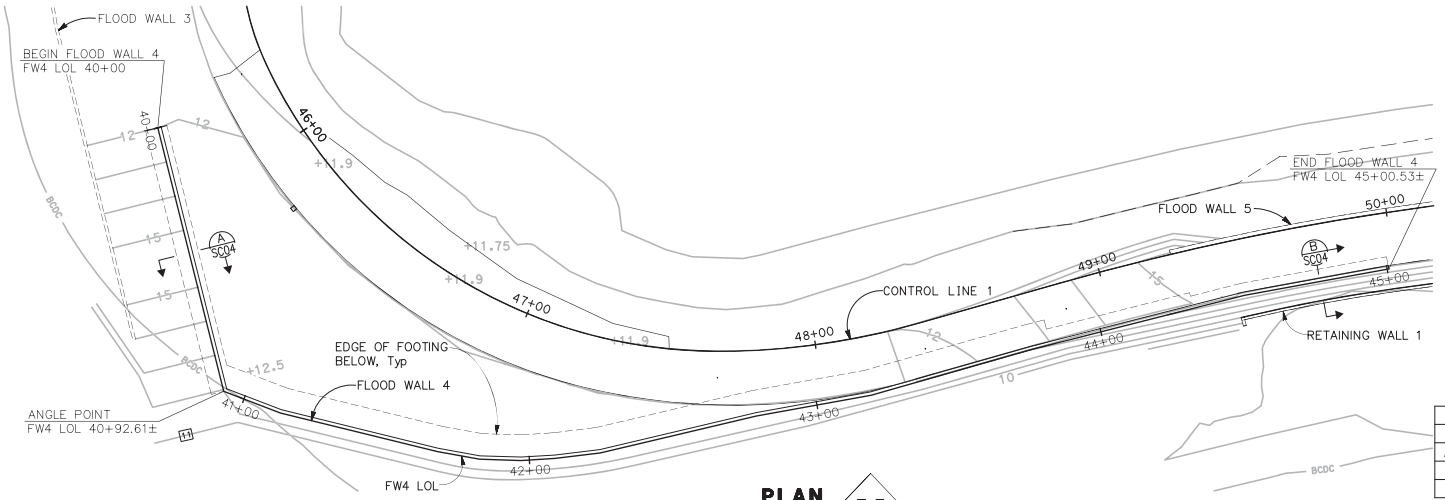
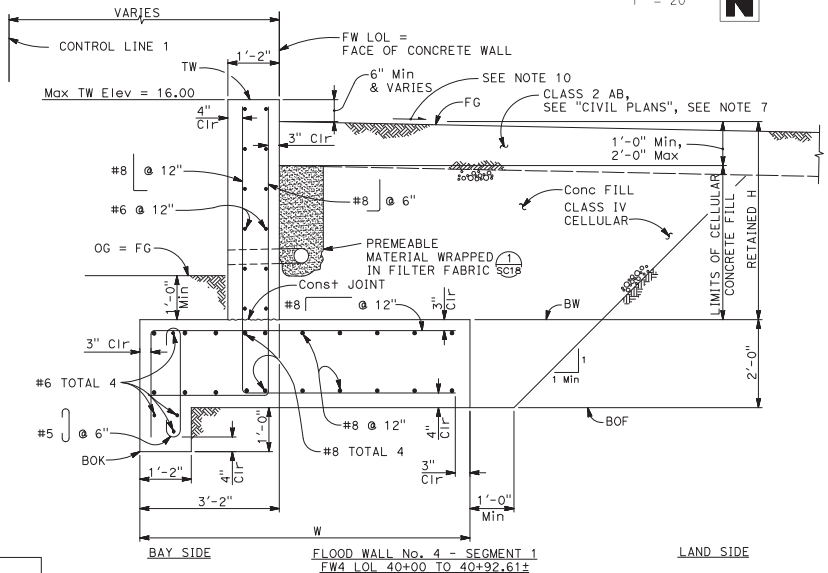


PLAN
1" = 20'

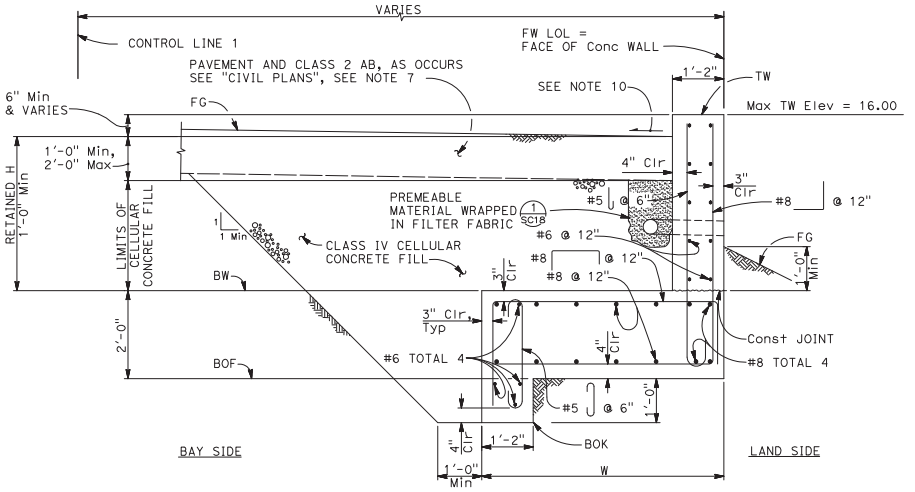
NOTES:
1. This plan accurate for Flood Wall No. 4 work only.
2. Structural typical section is shown viewed along FW LOL looking up station.
3. Expansion joints must be placed at 96'-0" maximum, see (1/SC17).
4. Score joints must be placed at 24'-0" maximum, see (2/SC17).
5. All bar reinforcing steel must be epoxy coated.
6. Provide step in flood wall as required, see (4/SC17).
7. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
8. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines and grading.
9. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
10. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
11. See "Civil Plans" for Right-of-Way, Utility, Drainage, Roadway, and layout information not noted.

TABLE OF DIMENSIONS AND DATA				
	SEGMENT 1	SEGMENT 2		
ALLOWABLE Min BOF Elev (ft)	9.00	9.00	10.00	11.00
Max RETAINED H	4'-6"	4'-6"	3'-6"	2'-6"
FOOTING WIDTH, W	7'-6"	8'-9"	5'-6"	4'-3"



FLOOD WALL No. 4 - SEGMENT 1
FW4 LOL 40+00 TO 40+92.61±

SECTION (A/SC04)
3/4" = 1'-0"



FLOOD WALL No. 4 - SEGMENT 2
FW4 LOL 40+92.61± TO 45+00.53±

SECTION (B/SC04)
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	SMH
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DSD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER
ANTHONY P. ROLANDO
No. C 54615
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 4

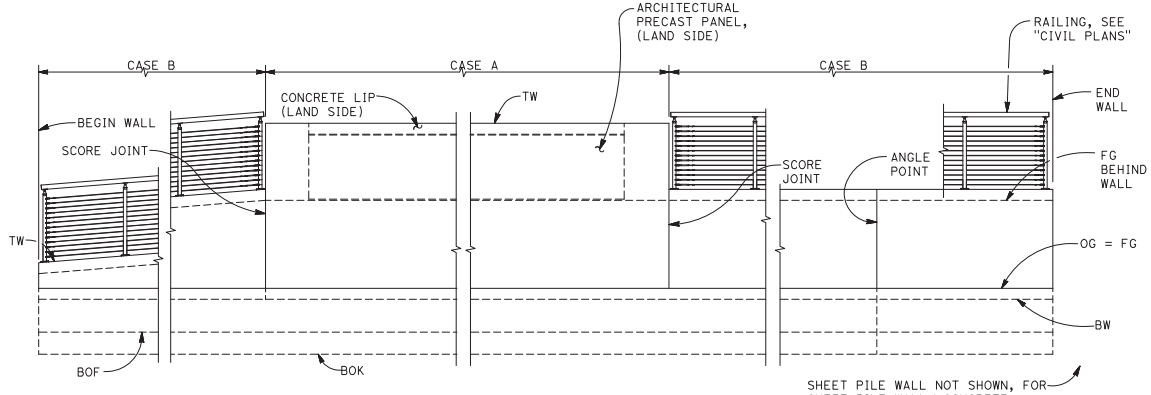
SHEET
S-C04
SHEET 250 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-C04) 2015272

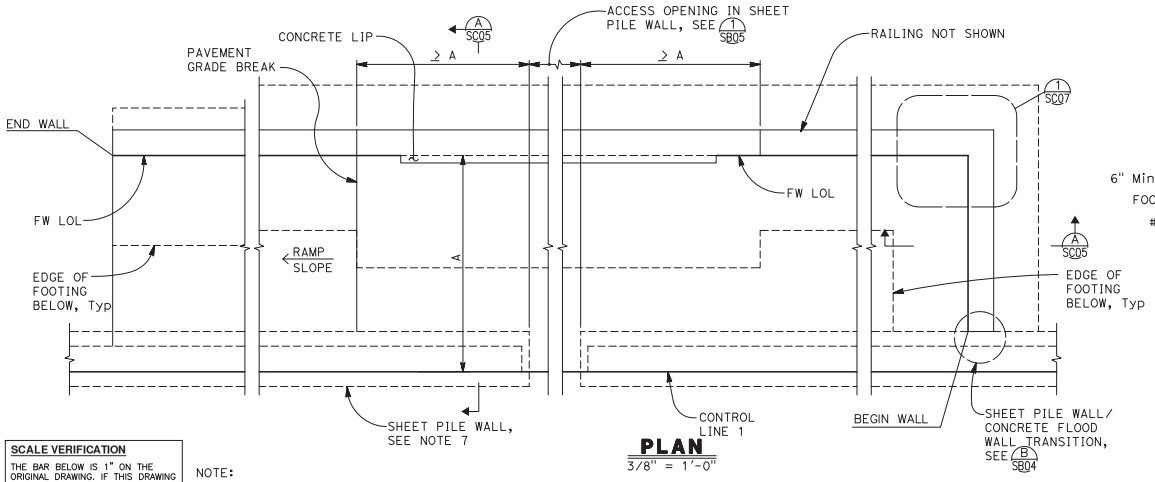
W:\2015\2015272\2015272S-C04.dwg

TABLE OF DIMENSIONS AND DATA							
FW	ALLOWABLE Min BOF Elev (ft)	CASE A			CASE B		
		Max DESIGN H	B	C	Max DESIGN H	B	C
6	9.50	8'-0"	4'-1"	3'-2"	5'-0"	2'-10"	3'-2"
13	8.50	8'-0"	4'-7"	3'-2"	5'-0"	4'-1"	2'-2"

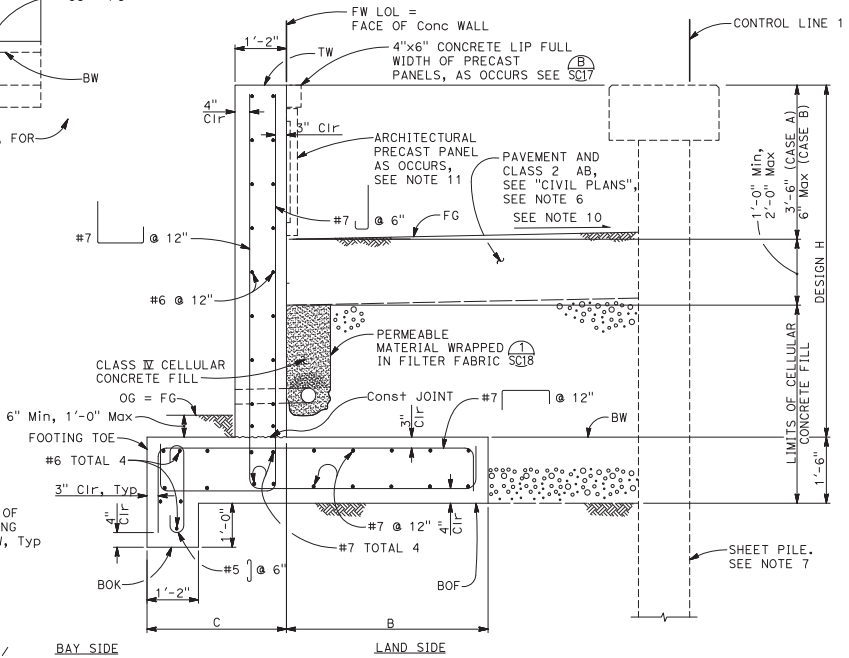
NOTES:
1. Structural elevation is shown viewed from bay side looking towards the land side.
2. Expansion joints must be placed at 96'-0" maximum, see 1/SC17.
3. Score joints must be placed at 24'-0" maximum, see 2/SC17.
4. All bar reinforcing steel must be epoxy coated.
5. Provide step in flood wall footing as required, see 4/SC17.
6. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
7. For sheet pile wall details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
8. Refer to "SPG" sheets for flood wall layout, configuration, top of wall elevations, finish grade elevations at control lines, and grading.
9. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
10. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
11. Refer to "L" sheets for architectural treatment limits and type.
12. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



MIRRORED DEVELOPED ELEVATION
3/8" = 1'-0"



PLAN
3/8" = 1'-0"



SECTION A/SC05
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-C05.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: SMH
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. C 54615 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

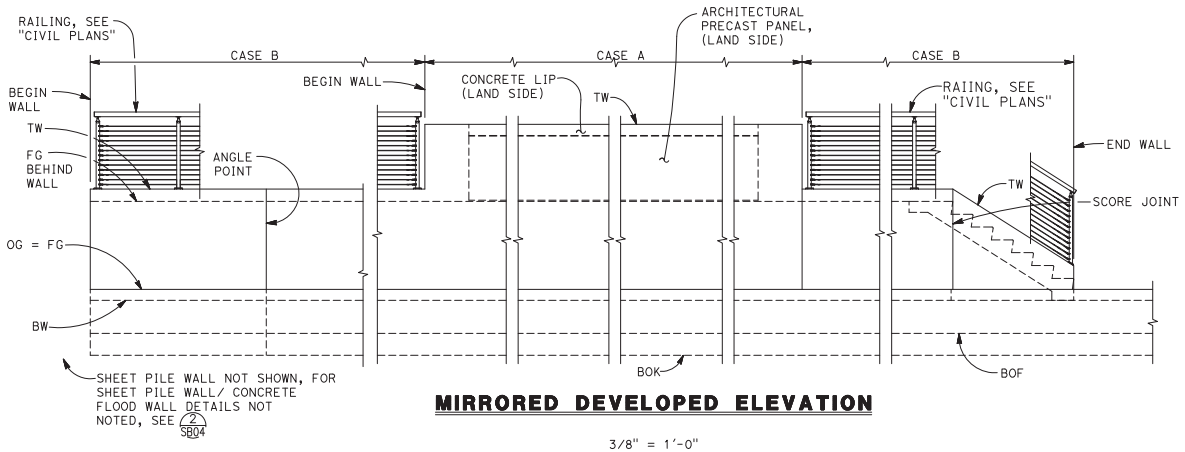
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 5

SHEET
S-C05
SHEET 251 OF 384
CIP PROJ. NUMBER
CIP 301-657

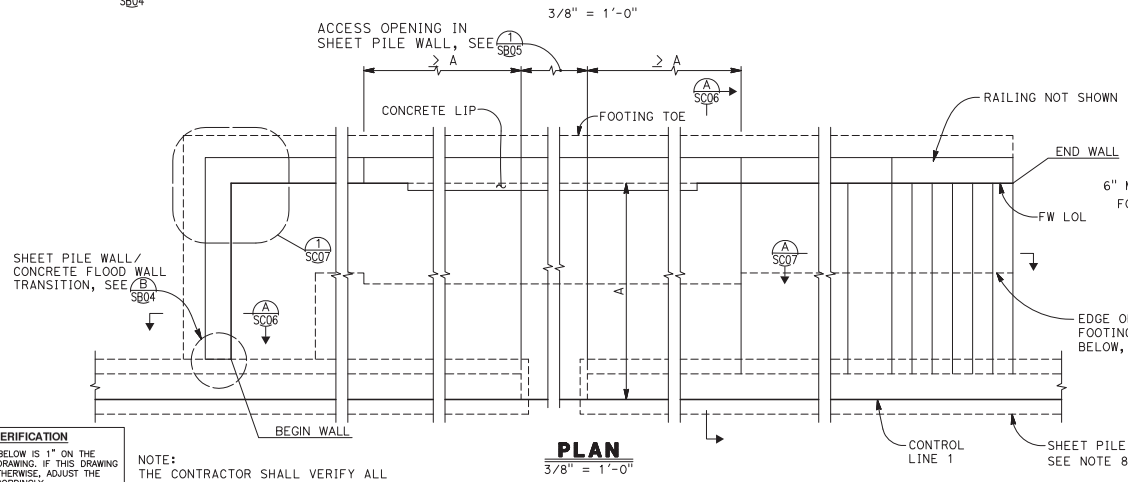
(2015272S-C05) 2015272

TABLE OF DIMENSIONS AND DATA							
FW	ALLOWABLE Min BOF Elev (ft)	CASE A			CASE B		
		Max DESIGN H	B	C	Max DESIGN H	B	C
9	9.00	8'-0"	5'-1"	2'-2"	5'-6"	3'-7"	2'-2"
23	9.50	8'-0"	5'-1"	2'-2"	5'-6"	3'-10"	2'-2"
24	9.50	7'-6"	4'-7"	2'-2"	5'-6"	3'-10"	2'-2"
28	9.00	7'-0"	4'-7"	2'-2"	4'-3"	3'-1"	2'-2"
30	9.00	7'-0"	3'-10"	3'-2"	4'-6"	2'-4"	3'-2"
37	10.00	7'-6"	4'-7"	2'-2"	5'-0"	3'-4"	2'-2"

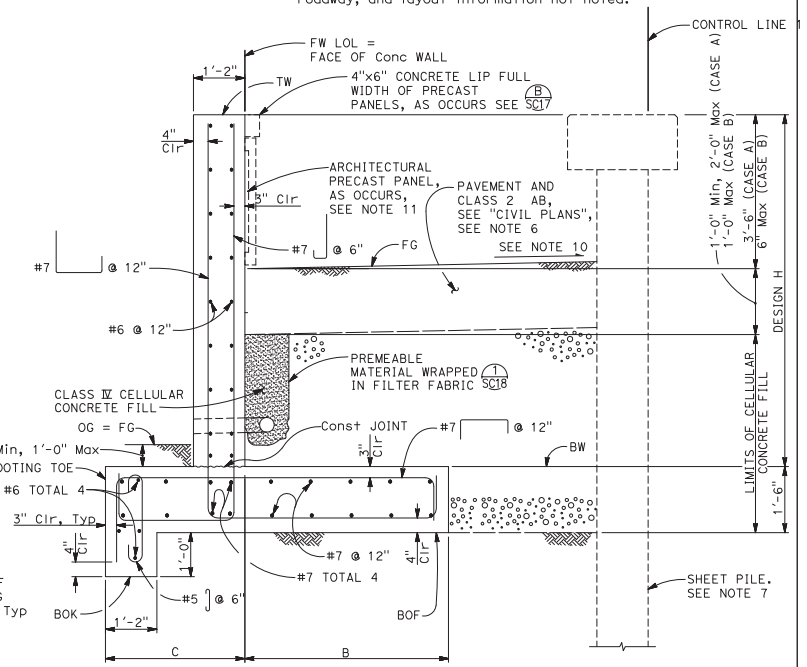
NOTES:
1. Structural elevation is shown viewed from bay side looking towards the land side.
2. Expansion joints must be placed at 96'-0" maximum, see (1/SC17).
3. Score joints must be placed at 24'-0" maximum, see (2/SC17).
4. All bar reinforcing steel must be epoxy coated.
5. Provide step in flood wall footing as required, see (4/SC17).
6. Class 2 aggregate base may be installed between pavement or stairs and cellular concrete fill as required.
7. For sheet pile wall details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
8. Refer to "SPG" sheets for flood wall layout, configuration, top of wall elevations, finish grade elevations at control lines, and grading.
9. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
10. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
11. Refer to "L" sheets for architectural treatment limits and type.
12. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



MIRRORED DEVELOPED ELEVATION



PLAN
3/8" = 1'-0"



SECTION
3/4" = 1'-0" (A/SC06)

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-C06.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: SMH
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. S-5455 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

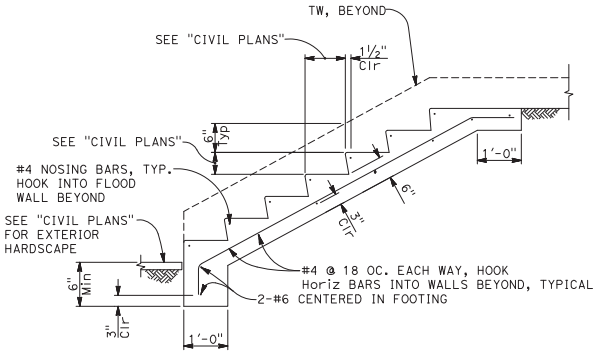
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 6

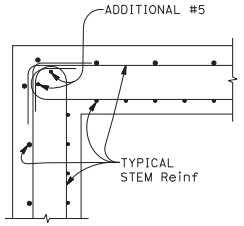
SHEET
S-C06
SHEET 252 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-C06) 2015272

NOTE:
All bar reinforcing steel must be epoxy coated.



TYPICAL CONCRETE STAIR SECTION (A / SC07)
3/4" = 1'-0"



STEM CORNER DETAIL (1 / SC07)
1" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	SMH
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLANDO — No. C 54645 — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 7

SHEET
S-C07
SHEET 253 OF 384
CIP PROJ. NUMBER
CIP 301-657

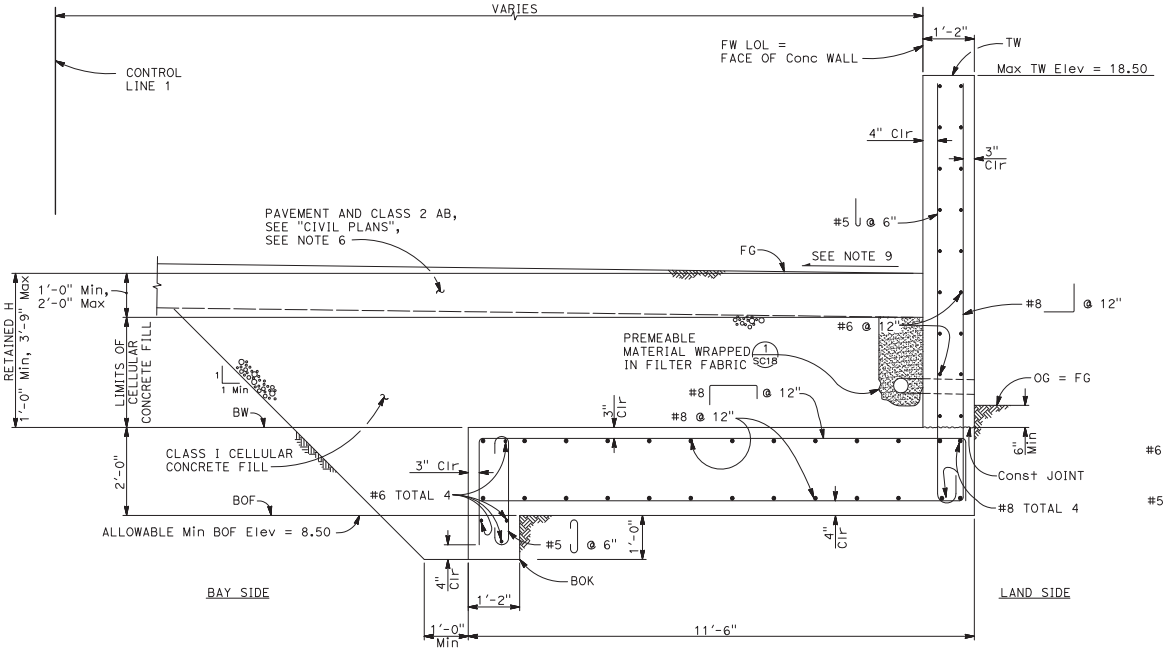
(2015272S-C07) 2015272

W:\2015\2015272\2015272S-C07.dwg

NOTES:

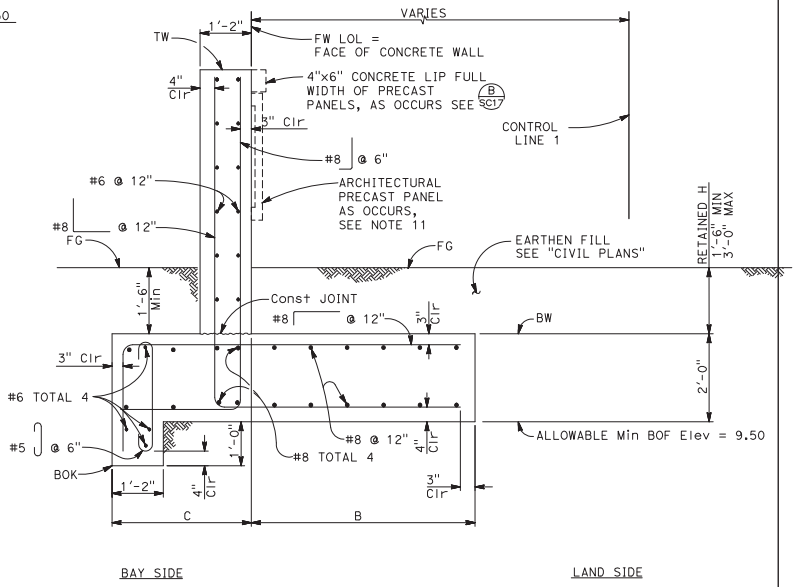
1. Structural typical section is shown viewed along Control Line 1 looking up station.
2. Expansion joints must be placed at 96'-0" maximum, see 1/SC17.
3. Score joints must be placed at 24'-0" maximum, see 2/SC17.
4. All bar reinforcing steel must be epoxy coated.
5. Provide step in flood wall footing as required, see 4/SC17.
6. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
7. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines, and grading.
8. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
9. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
10. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.
11. Refer to "L" sheets for architectural treatment limits and type.

TABLE OF DIMENSIONS AND DATA			
FW	Max TW Elev	B	C
14	17.50	5'-1"	3'-2"
15	17.50	5'-1"	3'-2"
35	18.00	5'-0"	4'-3"



FLOOD WALL No. 10

SECTION A/SC08
3/4" = 1'-0"



FLOOD WALL No. 14, 15, AND 35

SECTION B/SC08
3/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-54659 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 8

SHEET
S-C08
SHEET 254 OF 384
CIP PROJ. NUNMBER
CIP 301-657

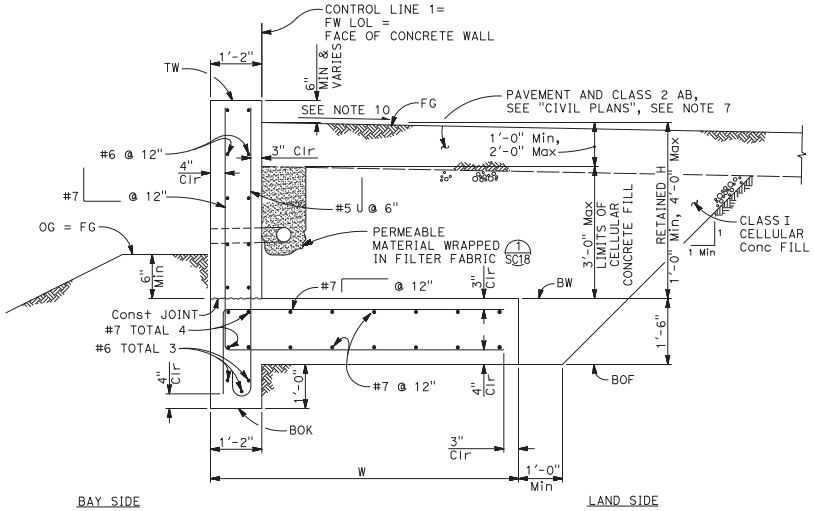
(2015272S-C08) 2015272

W:\2015\2015272\2015272S-C08.dwg

NOTES:

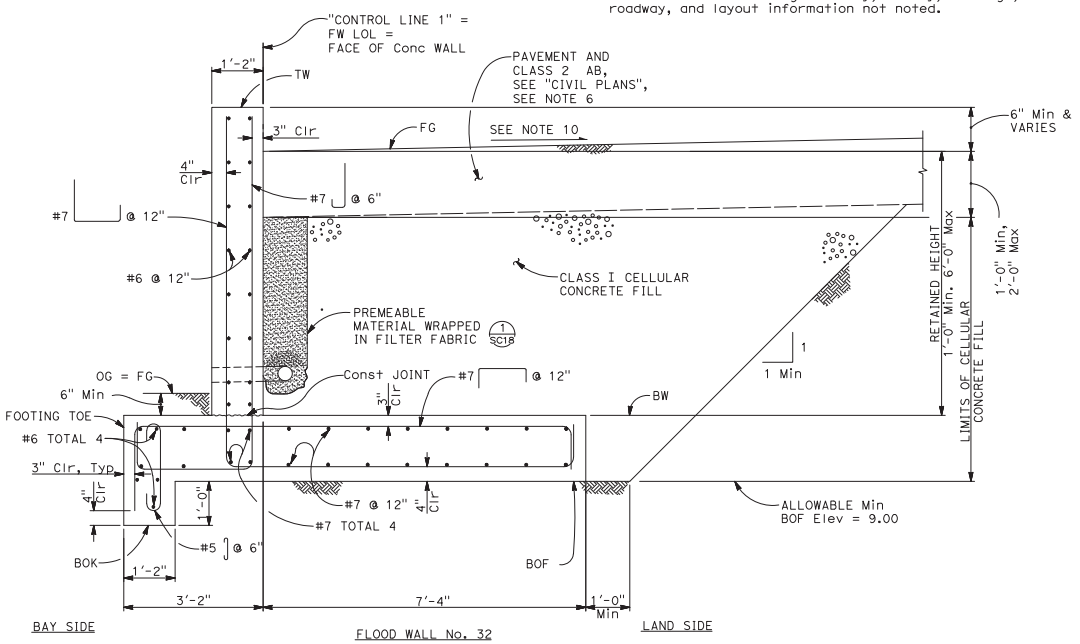
1. Structural elevation is shown viewed from land side looking towards the bay.
2. Structural typical section is shown viewed along Control Line 1 looking up station.
3. Expansion joints must be placed at 96'-0" maximum, see 1/SC17.
4. Score joints must be placed at 24'-0" maximum, see 2/SC17.
5. All bar reinforcing steel must be epoxy coated.
6. Provide step in flood wall as required, see Detail 4/SC17.
7. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
8. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines, and grading.
9. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
10. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade, soil reinforcement, and trail grading details.
11. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.

TABLE OF DIMENSIONS AND DATA			
FW	ALLOWABLE MIN BOF Elev (ft)	Max RETAINED H	FOOTING WIDRTH, W
16	8.50	4'-0"	7'-0"
26	8.50	4'-0"	7'-3"



FLOOD WALL No. 16 AND 26

SECTION A/SC09
3/4" = 1'-0"



FLOOD WALL No. 32

SECTION B/SC09
3/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	SMH
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-5459 Exp. 6/30/22 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 9

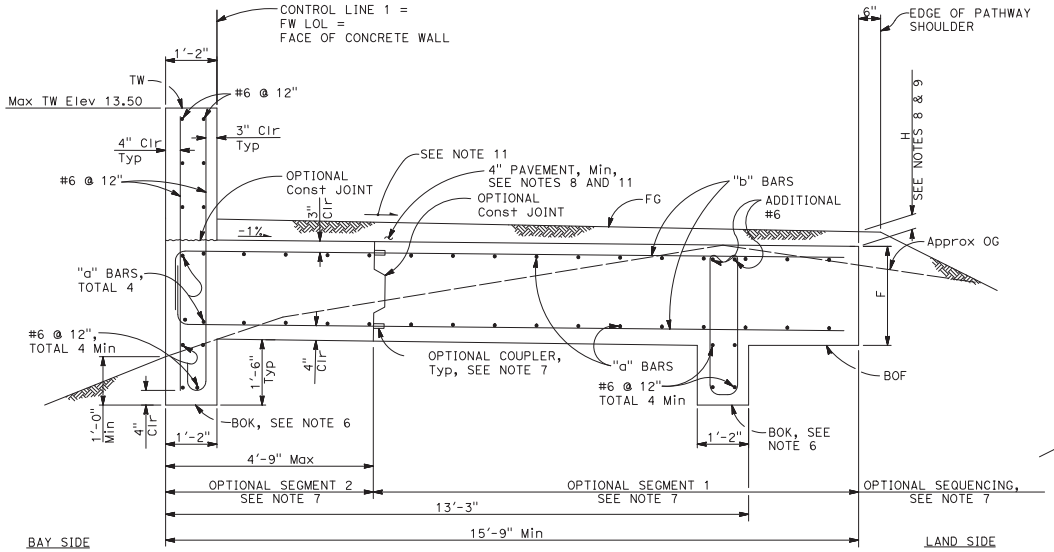
SHEET
S-C09
SHEET 255 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-C09) 2015272

W:\2015\2015272\2015272S-C09.dwg

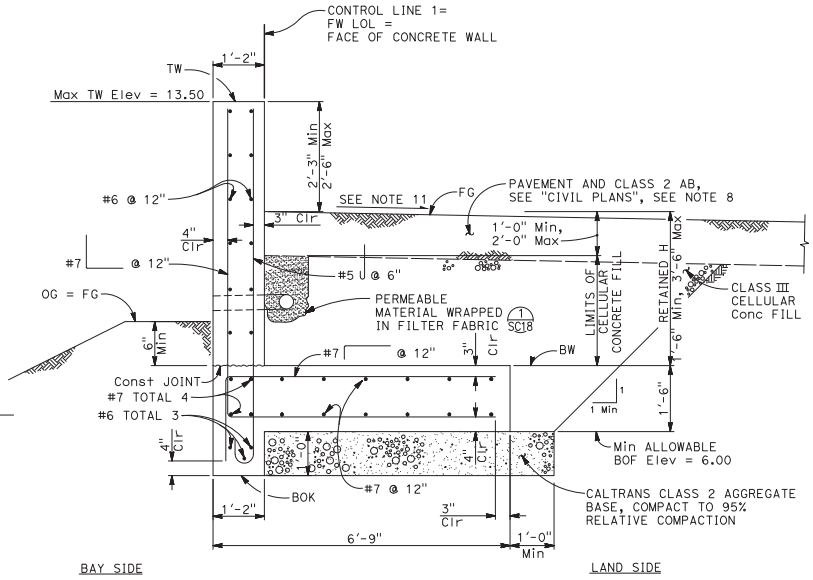
NOTES:

1. Structural typical section is shown viewed along Control Line 1 looking up station.
2. Expansion joints must be placed at 96'-0" maximum, see (1/SC17).
3. Score joints must be placed at 24'-0" maximum, see (2/SC17).
4. All flood wall bar reinforcing steel must be epoxy coated.
5. Provide step in flood wall as required, see (4/SC17).
6. Bottom of key elevations must be equal for both keys of footing.
7. Construction of Flood Wall 18 and Flood Wall 19 may be sequenced in two stages. Construction of Optional Segment 1 must be completed before construction of Optional Segment 2.
8. Class 2 aggregate base may be installed between pavement and top of footing as required.
9. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines and grading.
10. Refer to "FW" sheeets for top of wall elevations and existing grade elevations at FW LOL.
11. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade and trail grading details.
12. Refer to "L" sheets for architectural treatment limits and type.
13. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



FLOOD WALL No. 18

SECTION (A/SC10)
3/4" = 1'-0"



FLOOD WALL No. 19

SECTION (B/SC10)
3/4" = 1'-0"

TABLE OF DIMENSIONS AND DATA					
SECTION (A/SC10) AND SECTION (A/SC1)					
FW	ALLOWABLE Min BOF Elev (ft)	F	H, Max	"a" BARS	"b" BARS
18	8.00	2'-9"	6"	#8 @ 9"	#8 @ 9"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-C10.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: SMH
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER
ANTHONY P. ROLAND
No. C 54615
Exp. 6/30/22
CIVIL
STATE OF CALIFORNIA

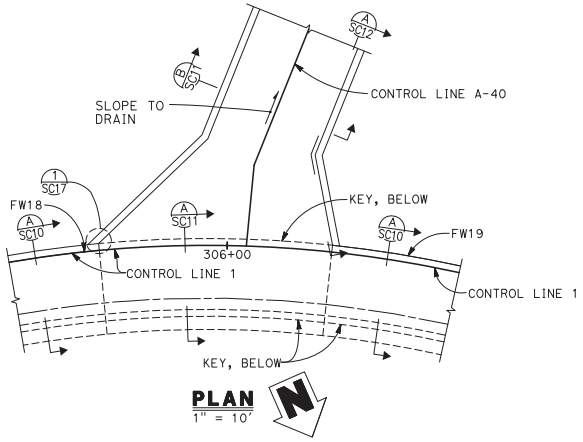
BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 10

SHEET
S-C10
SHEET 256 OF 384
CIP PROJ. NUMBER
CIP 301-657

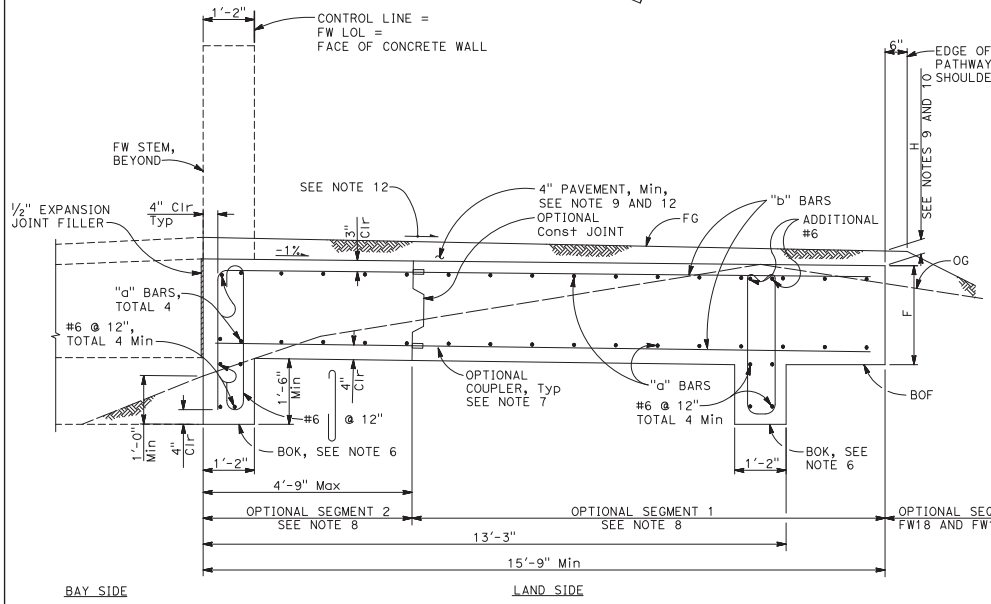
(2015272S-C10) 2015272



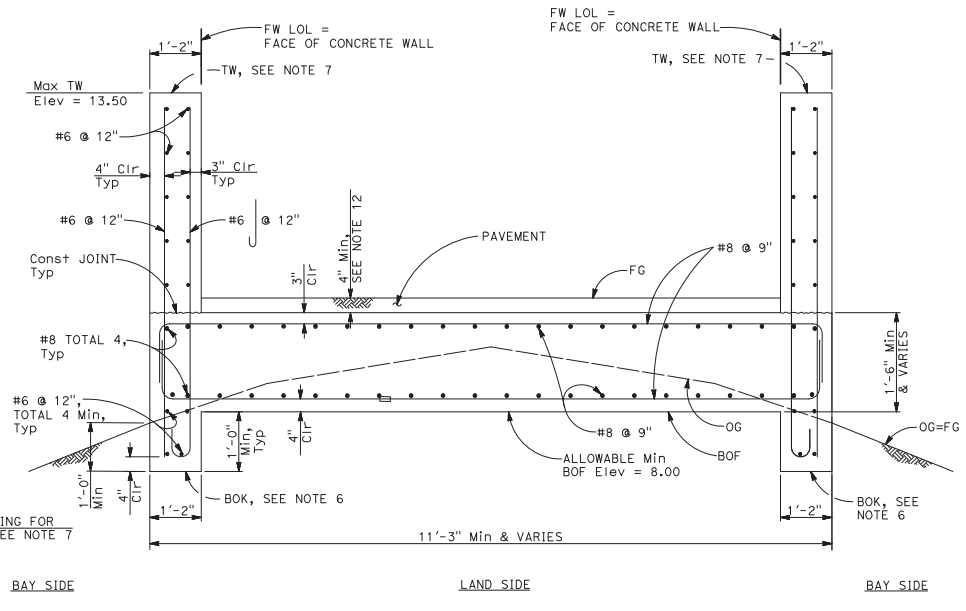
PLAN
1" = 10'

NOTES:

1. Structural typical section is shown viewed along FW LOL looking up station.
2. Expansion joints must be placed at 96'-0" maximum, see 1/SC17.
3. Score joints must be placed at 24'-0" maximum, see 2/SC17.
4. All flood wall bar reinforcing steel must be epoxy coated.
5. Provide step in flood wall as required, see 4/SC17.
6. Bottom of key elevations must be equal for both keys of footing.
7. Top of wall elevations must be equal for both stems of wall.
8. Construction of flood wall may be sequenced in two stages. Construction of Optional Segment 1 must be completed before construction of Optional Segment 2.
9. Class 2 aggregate base may be installed between pavement and top of footing as required.
10. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines and grading.
11. Refer to "FW" sheeets for top of wall elevations and existing grade elevations as FW LOL.
12. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade and trail grading details.
13. Refer to "L" sheets for architectural treatment limits and type.
14. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



SECTION A
3/4" = 1'-0" SC1.1



SECTION B
3/4" = 1'-0" SC1.1

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-C11.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: SMH
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

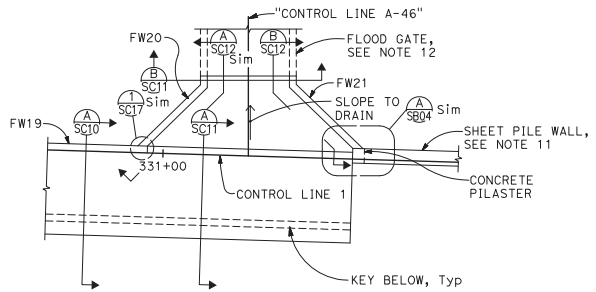
REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. C 54615 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 11

SHEET
S-C11
SHEET 257 OF 384
CIP PROJ. NUMBER
CIP 301-657

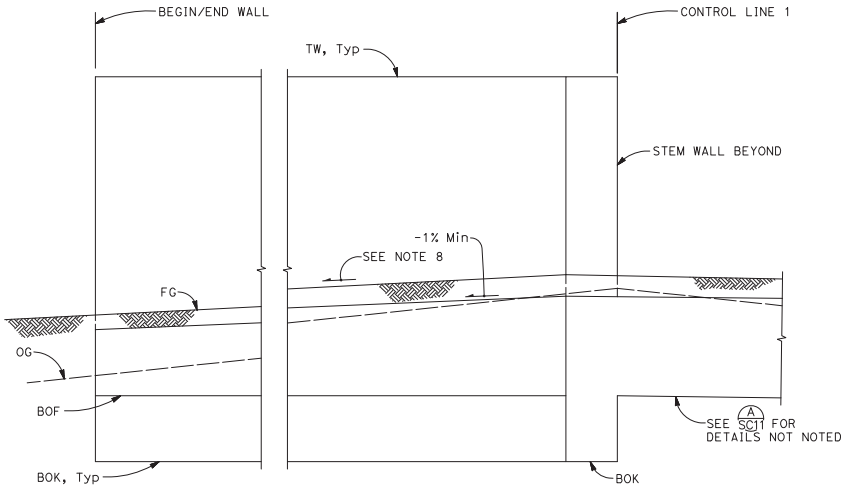
(2015272S-C11) 2015272



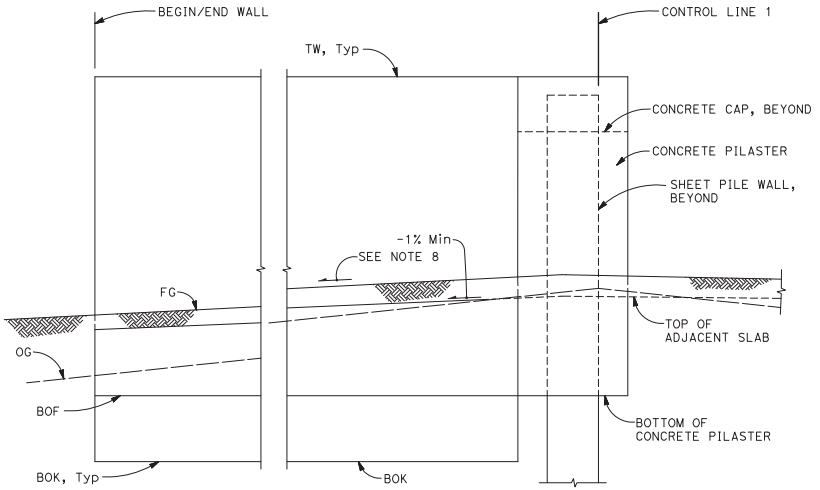
PLAN
1" = 10'

NOTES:

1. Expansion joints must be placed at 96'-0" maximum, see 1 SC17.
2. Score joints must be placed at 24'-0" maximum, see 2 SC17.
3. All flood wall bar reinforcing steel must be epoxy coated.
4. Bottom of key elevations must be equal for both keys of footing.
5. Top of wall elevations must bet equal for both stems of wall.
6. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines, and grading.
7. Refer to "FW" sheets for top of wall elevations and existing grade elevations as FW LOL.
8. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, and trail grading details.
9. Refer to "L" sheets for architectural treatment limits and type.
10. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.
11. For sheet pile wall details, see "STRUCTURAL DETAILS - SHEET PILE DETAILS" sheets.
12. For flood gate details, see "STRUCTURAL DETAILS - FLOOD GATE DETAILS" sheets.



SECTION A
3/4" = 1'-0" SC12



SECTION B
3/4" = 1'-0" SC12

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-C12.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: SMH
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. C 54615 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

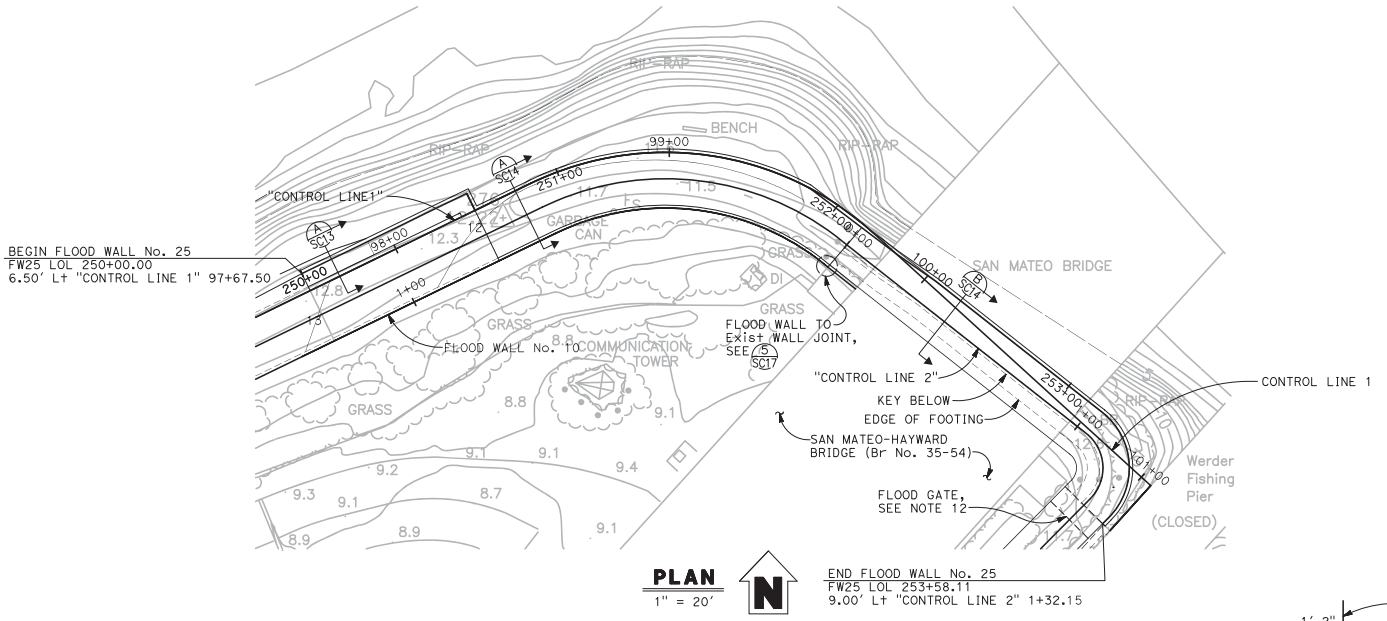
STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 12

SHEET
S-C12
SHEET 258 OF 384
CIP PROJ. NUMBER
CIP 301-657

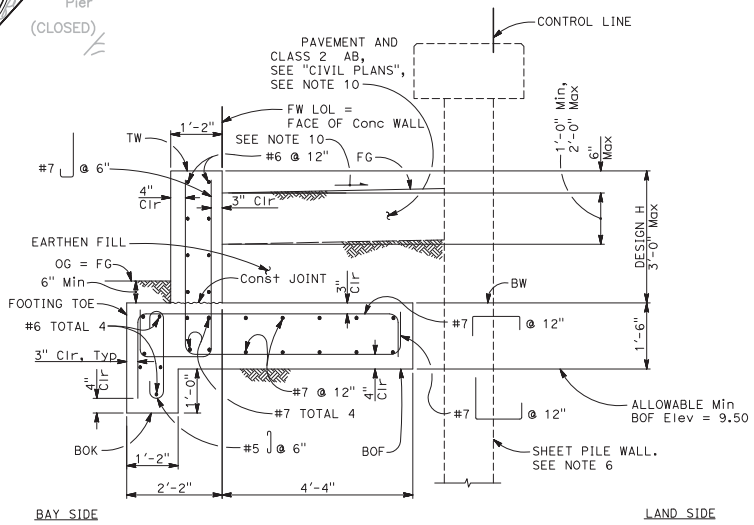
(2015272S-C12) 2015272

NOTES:

1. This plan accurate for Flood Wall No. 25 work only.
2. Structural typical section is shown viewed along FW LOL looking up station.
3. Expansion joints must be placed at 96'-0" maximum, see 1/SC17.
4. Score joints must be placed at 24'-0" maximum, see 2/SC17.
5. All bar reinforcing steel must be epoxy coated.
6. Provide step in flood wall as required, see 4/SC17.
7. For sheet pile wall details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
8. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines, and grading.
9. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
10. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
11. See "Civil Plans" for Right-of Way, utility, Drainage, Roadway, and Layout Information not noted.
12. For flood gate details, see "STRUCTURAL DETAILS-FLOOD GATE DETAILS" sheet.



PLAN
1" = 20'



FLOOD WALL No. 25 SEGMENT 1
FW25 LOL 250+00 TO 250+68.99

SECTION A/SC13
3/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-65459 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 13

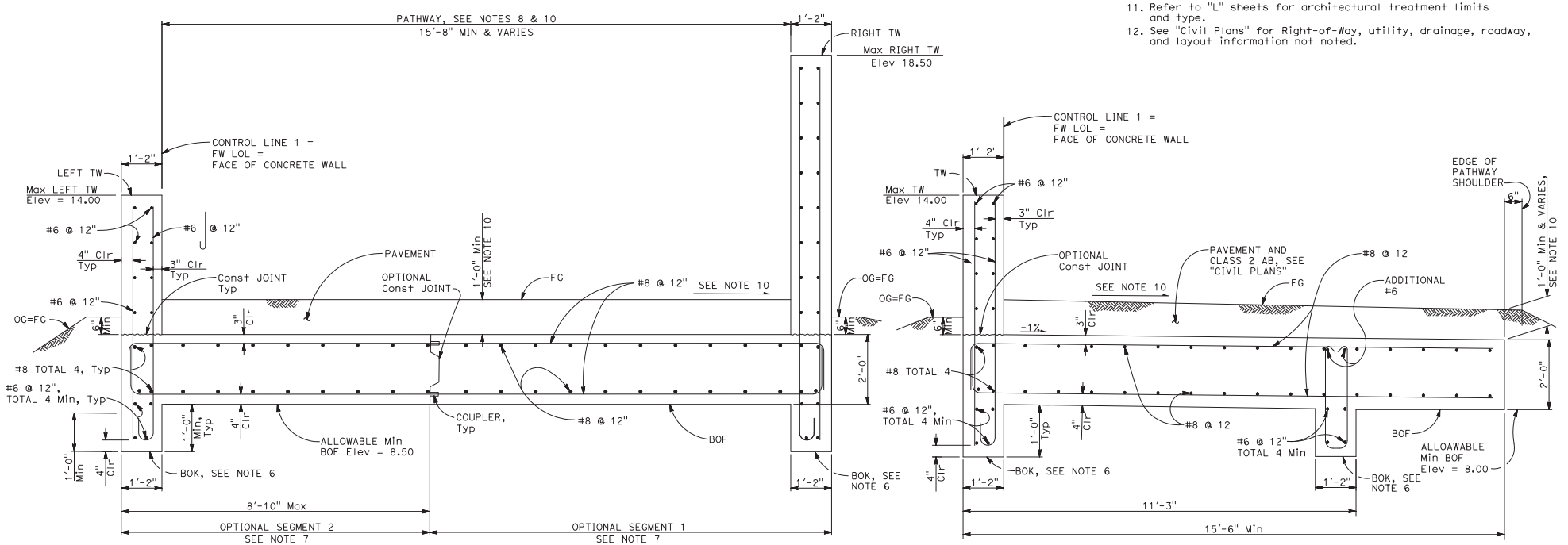
SHEET
S-C13
SHEET 259 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-C13) 2015272

W:\2015\2015272\2015272S-C13.dwg

NOTES:

1. Structural typical section is shown viewed along Control Line 1 looking up station.
2. Expansion joints must be placed at 96'-0" maximum, see 1/SC17.
3. Score joints must be placed at 24'-0" maximum, see 2/SC17.
4. All bar reinforcing steel must be epoxy coated.
5. Provide step in flood wall as required, see 4/SC17.
6. Bottom of key elevations must be equal for both keys of footing.
7. Construction of flood wall may be sequenced in two stages. Construction of Optional Segment 1 must be completed before construction of Optional Segment 2.
8. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines and grading.
9. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
10. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
11. Refer to "L" sheets for architectural treatment limits and type.
12. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



FLOODWALL No. 25 - SEGMENT 2
FW25 LOL 250+68.99 TO 252+11.07±

SECTION A
3/4" = 1'-0" SC14

FLOOD WALL No. 25 - SEGMENT 3
FW25 LOL 252+11.07± TO END OF WALL

SECTION B
3/4" = 1'-0" SC14

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: AR				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: DSR				
CHECKED BY: DBD				
SURVEYED BY: WILSEY-HAM				
	NO.	BY	DATE	REVISIONS
			07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-59459 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 14

SHEET
S-C14
SHEET 260 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-C14) 2015272

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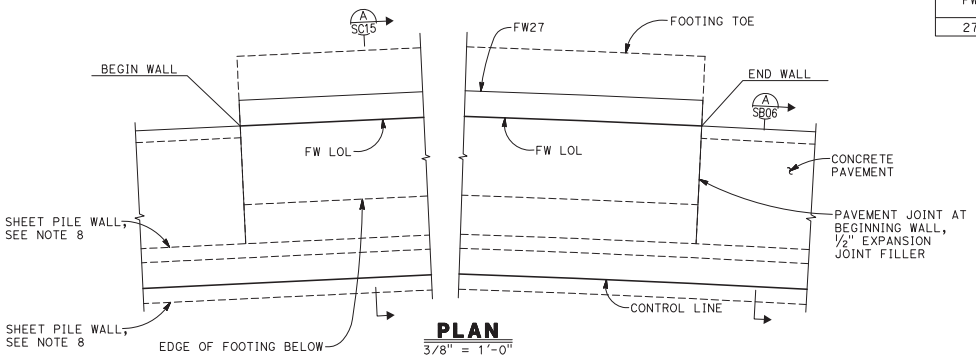
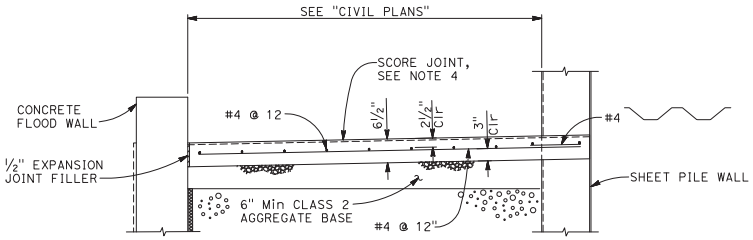


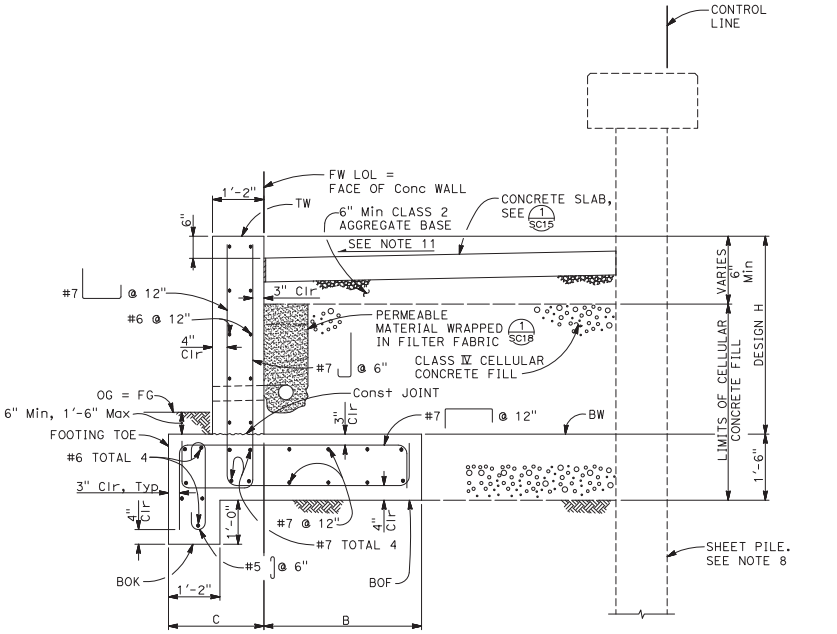
PLAN
3/8" = 1'-0"

TABLE OF DIMENSIONS AND DATA				
FW	ALLOWABLE Min BOF Elev (ft)	Max DESIGN H	B	C
27	9.00	4'-6"	3'-7"	2'-2"

NOTES:
1. Structural typical section is shown viewed along FW LOL looking up station.
2. Wall expansion joints must be placed at 96'-0" maximum, see (1/SC17).
3. Wall score joints must be placed at 24'-0" maximum, see (2/SC17).
4. Transverse pavement score joints are to be installed at 12'-0" Max on center and extend full width of slab, UON. See (4/SA02) for sidewalk score details.
5. All bar reinforcing steel must be epoxy coated.
6. Provide step in flood wall footing as required, see (4/SC17).
7. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
8. For sheet pile wall details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
9. Refer to "SPG" sheets for flood wall layout, configuration, top of wall elevations, finish grade elevations at control lines and grading.
10. Refer to "FW" sheets for top of wall elevations and existing grade elevations FW LOL.
11. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade, soil reinforcement, and trail grading details.
12. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



DETAIL (1/SC15)
3/4" = 1'-0"



SECTION (A/SC15)
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-C15.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: RLQ
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLAND — No. C 54855 — Exp. 6/30/20 — CIVIL — STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

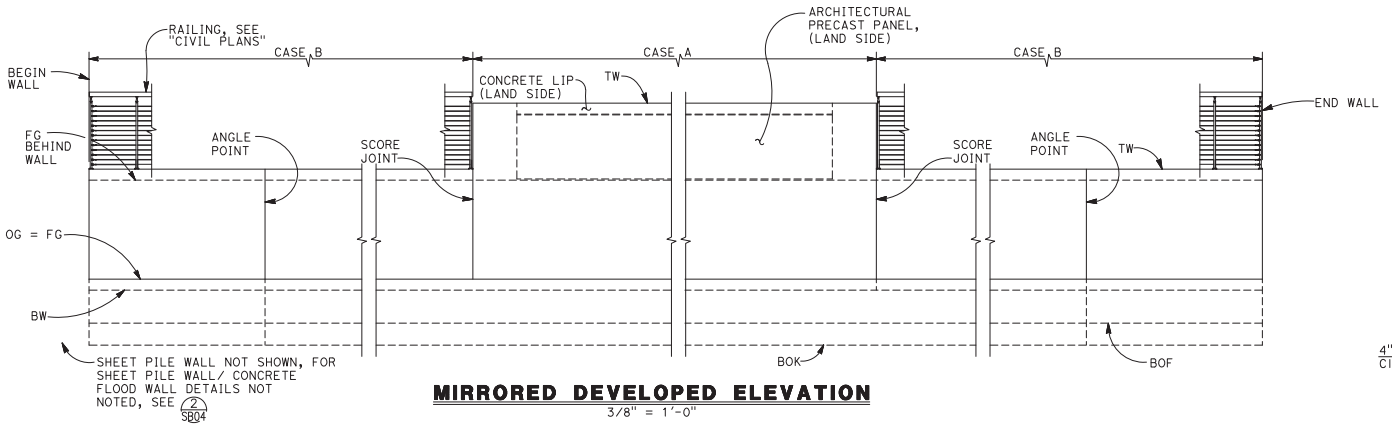
STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 15

SHEET
S-C15
SHEET 261 OF 384
CIP PROJ. NUMBER
CIP 301-657

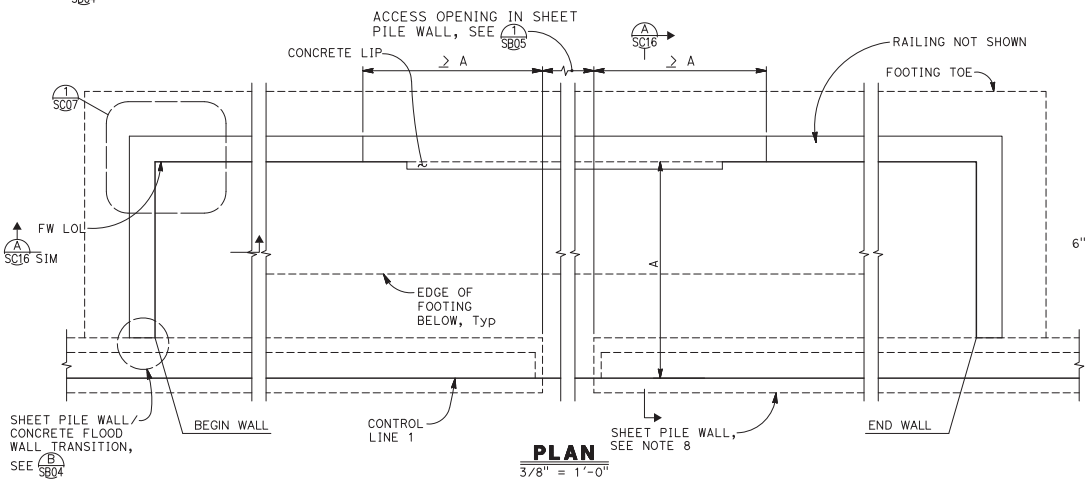
(2015272S-C15) 2015272

TABLE OF DIMENSIONS AND DATA							
FW	ALLOWABLE Min BOF Elev (ft)	CASE A			CASE B		
		Max DESIGN H	B	C	Max DESIGN H	B	C
31	7.50	8'-6"	6'-4"	3'-2"	5'-6"	6'-4"	3'-2"

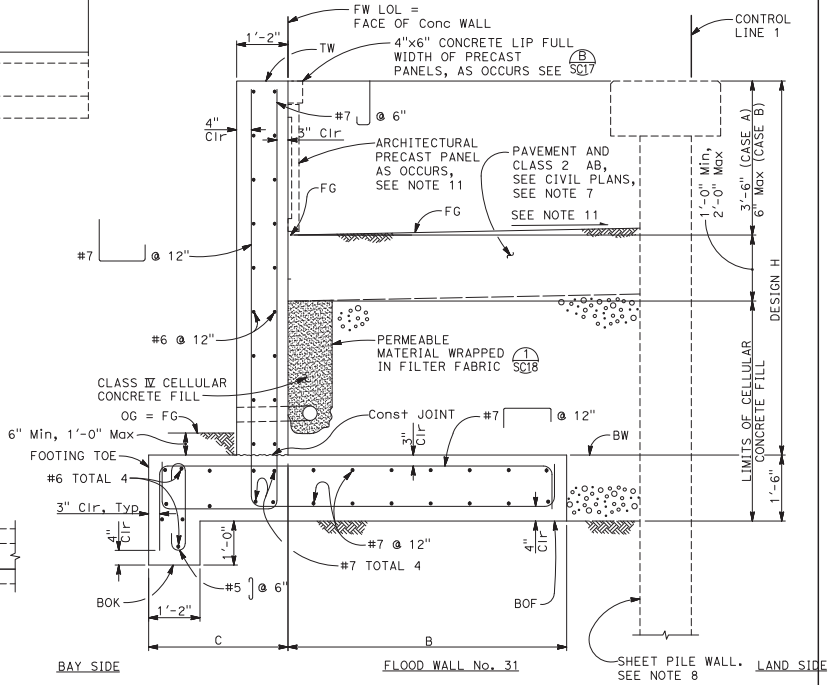
NOTES:
1. Structural elevation is shown viewed from bay side looking towards the land side.
2. Structural typical section is shown viewed along FW LOL looking up station.
3. Expansion joints must be placed at 96'-0" maximum, see (1/SC17).
4. Score joints must be placed at 24'-0" maximum, see (2/SC17).
5. All bar reinforcing steel must be epoxy coated.
6. Provide step in flood wall footing as required, see (4/SC17).
7. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
8. For sheet pile wall details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
9. Refer to "SPG" sheets for flood wall layout, configuration, top of wall elevations, finish grade elevations at control lines and grading.
10. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
11. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade, soil reinforcement, and trail grading details.
12. Refer to "L" sheets for architectural treatment limits and type.
13. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



MIRRORED DEVELOPED ELEVATION
3/8" = 1'-0"



PLAN
3/8" = 1'-0"



SECTION (A/SC16)
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: SMH
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. C 54615 Exp. 6/30/22 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 16

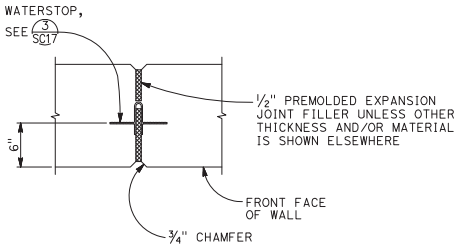
SHEET
S-C16
SHEET 262 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-C16) 2015272

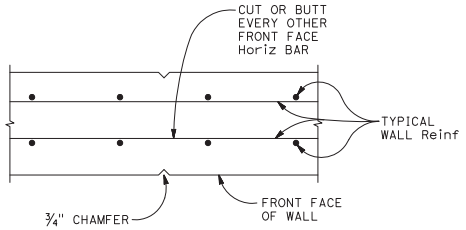
W:\2015\2015272\2015272S-C16.dwg

NOTES:

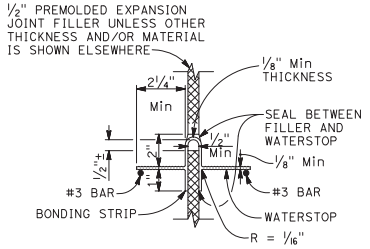
1. Holes in waterstop will be permitted in the outer ½" of the web for wire, rings, etc. Tie waterstop web to #3 reinforcing bars @ 12" maximum intervals to support the waterstop in proper position during concrete placement. Alternative detail may be submitted for approval of the Engineer.
2. Waterstop must have 5 or more pairs of raised ribs to provide 0.1 square inch minimum rib cross-section area on each half of the waterstop.
3. All bar reinforcing steel must be epoxy coated.
4. Refer to "L" sheets for architectural treatment limits and type.



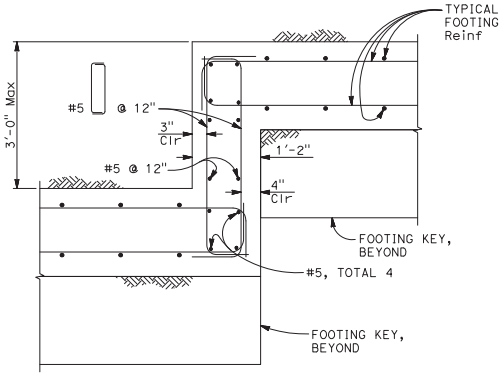
EXPANSION JOINT DETAIL 1 SC17
NO SCALE



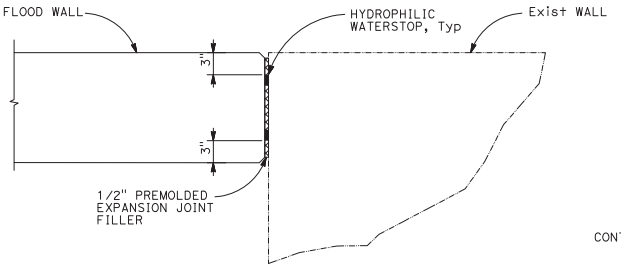
SCORE JOINT DETAIL 2 SC17
NO SCALE



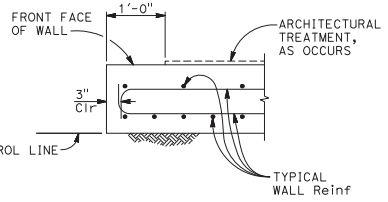
WATERSTOP DETAIL 3 SC17
NO SCALE



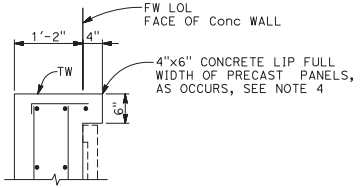
FOOTING STEP DETAIL 4 SC17
NO SCALE



NEW/Exist WALL JOINT DETAIL 5 SC17
1 1/2"=1'-0"



SECTION A SC17
1" = 1'-0"



SECTION B SC17
1" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. C 54645 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 17

SHEET
S-C17
SHEET 263 OF 384
CIP PROJ. NUMBER
CIP 301-657

(20152725-C17) 2015272

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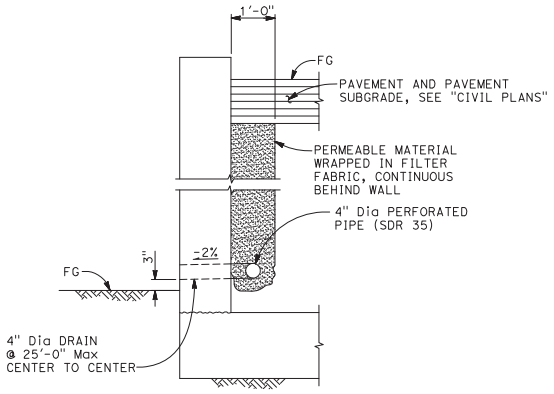
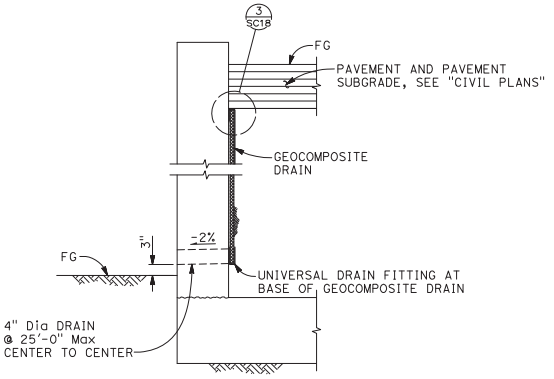
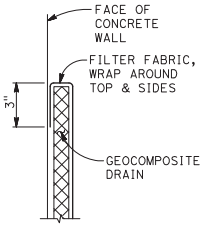


NOTE:
At Contdractor's option, geocomposite drain per 2/SC18 may be used

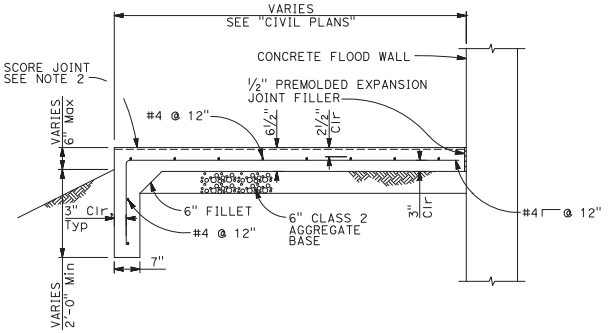
DETAIL 1/SC18
NO SCALE



DETAIL 2/SC18
NO SCALE



DETAIL 3/SC18
NO SCALE



DETAIL 4/SC18
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: RLQ				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: DSR				
CHECKED BY: DBD				
SURVEYED BY: WILSEY-HAM				
	NO.	BY	DATE	REVISIONS
			07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-65459 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - CONCRETE FLOOD WALL DETAILS No. 18

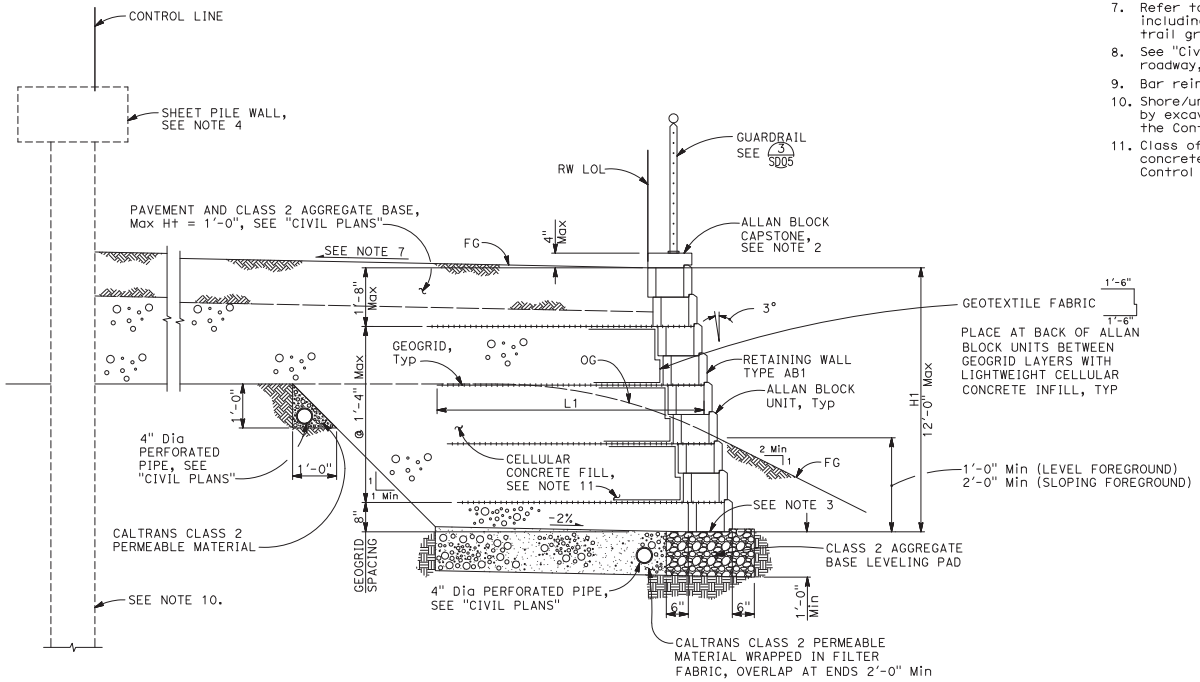
SHEET
S-C18
SHEET 264 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-C18) 2015272

W:\2015\2015272\2015272S-C18.dwg

NOTES:

1. Structural typical section shown viewed along Control Line looking up station.
2. Bond Allan Block capstones to Allan Block units with epoxy adhesive.
3. Bottom Allan Block unit must be constructed directly on Well-Graded Granular Wall Rock.
4. For sheet pile wall details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
5. Refer to "SPG" sheets for retaining wall layout, configuration, finish grade elevations at control lines, and grading.
6. Refer to "RW" sheets for top of wall elevations and existing grade elevations at RW LOL.
7. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
8. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.
9. Bar reinforcing steel must be epoxy coated.
10. Shore/underpin adjacent structures that could be damaged by excavating work. Excavation and shoring is solely the the Contractor's responsibility.
11. Class of cellular concrete fill must match class of cellular concrete fill specified for sheet pile wall at same Control Line station.



RETAINING WALL TYPE AB1 DATA		
H1 (ft, Max)	L1	GEOGRID TYPE
12	9'-6"	1
10	8'-6"	1
8	7'-0"	1
6	6'-0"	1
4	5'-0"	1

RETAINING WALL TYPE AB1 TYPICAL SECTION

3/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-D01.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: SMH
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. RICHARDS — No. C 54855 — Exp. 6/30/22 — CIVIL — STATE OF CALIFORNIA

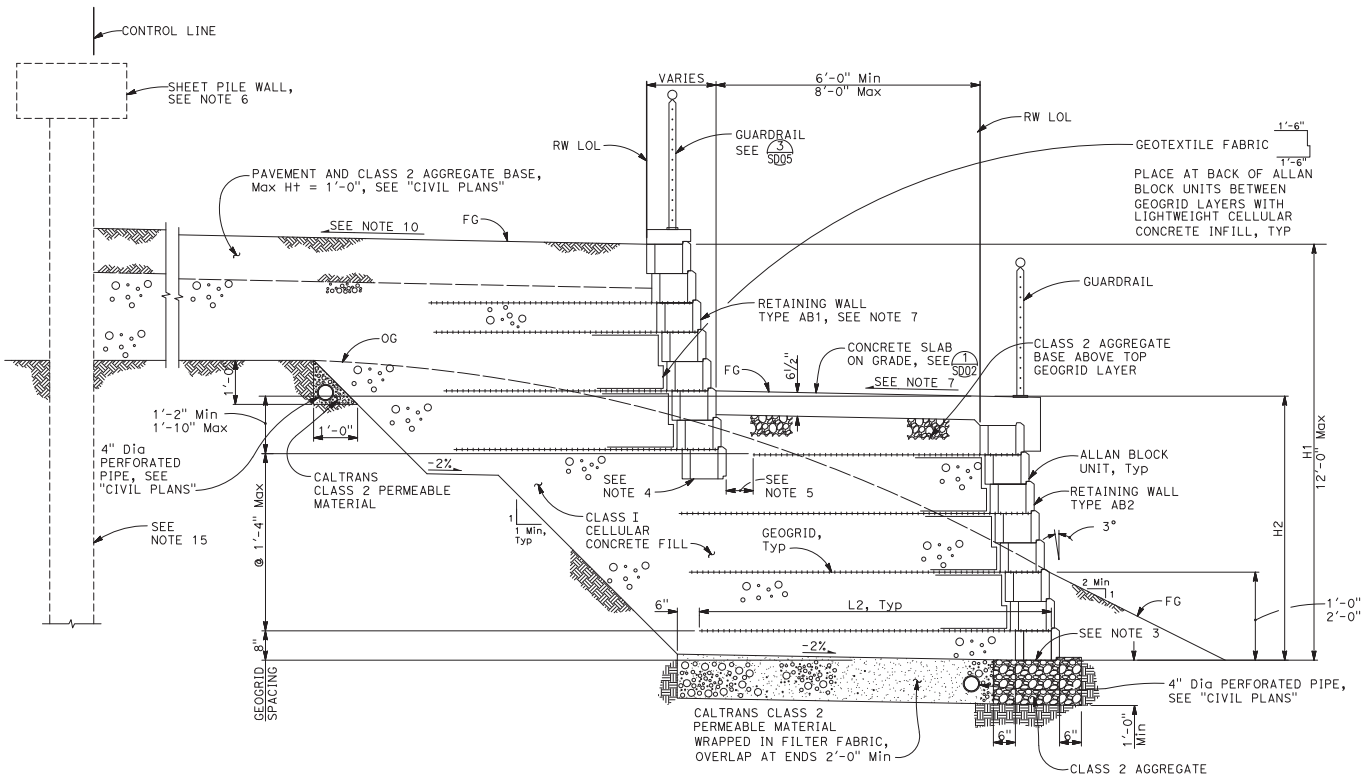
BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - RETAINING WALL DETAILS No. 1

SHEET
S-D01
SHEET 265 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-D01) 2015272



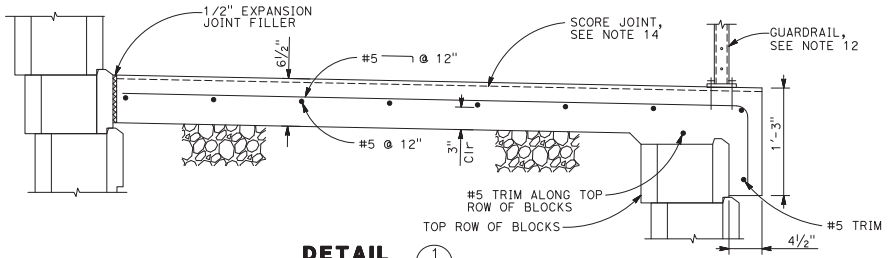
RETAINING WALL TYPE AB2 TYPICAL SECTION

3/4" = 1'-0"

NOTES:

1. Structural typical section shown viewed along Control Line looking up station.
2. Bond Allan Block capstones to Allan Block units with epoxy adhesive.
3. Bottom Allan Block unit must be constructed directly on Well-Graded Granular Wall Rock.
4. Bottom Allan Block unit of upper wall must be constructed directly on cellular concrete fill or 6" Max height concrete leveling pad.
5. Where adjacent wall prevents installing Geogrid full length, trim Geogrid to provide 6" Clr.
6. For sheet pile wall details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
7. For Retaining Wall Type AB1, see "STRUCTURAL DETAILS-RETAINING WALL DETAILS No. 1" sheet.
8. Refer to "SPG" sheets for retaining wall layout, configuration, finish grade elevations at control lines and grading.
9. Refer to "RW" sheets for top of wall elevations and existing grade elevations at RW LOL.
10. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
11. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.
12. Refer to "C" sheets for guardrail details not noted.
13. All bar reinforcing steel must be epoxy coated.
14. Transverse score joints are to be installed at 12'-0" Max on center and extend full width of slab, uon. See 4 SA02 for sidewalk score joint details.
15. Shore/underpin adjacent structures that could be damaged by excavating work. Excavation and shoring is solely the Contractor's responsibility.
16. Class of cellular concrete fill must match class of cellular concrete fill specified for sheet pile wall at same Control Line station.

RETAINING WALL TYPE AB2 DATA			
H1 (ft, Max)	H2 (ft, Max)	L2	GEOGRID TYPE
12	10	8'-6"	1
	8	7'-0"	1
	6	6'-0"	1
	4	5'-6"	1
10	8	7'-0"	1
	6	6'-0"	1
	4	5'-6"	1
8	6	6'-0"	1
	4	5'-0"	1
6	4	5'-0"	1



DETAIL 1 SD02

1 1/2"=1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-D02.dwg

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: AR
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER — ANTHONY P. ROLLANDI — No. C 54585 — Exp: 6/30/22 — CIVIL — STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - RETAINING WALL DETAILS No. 2

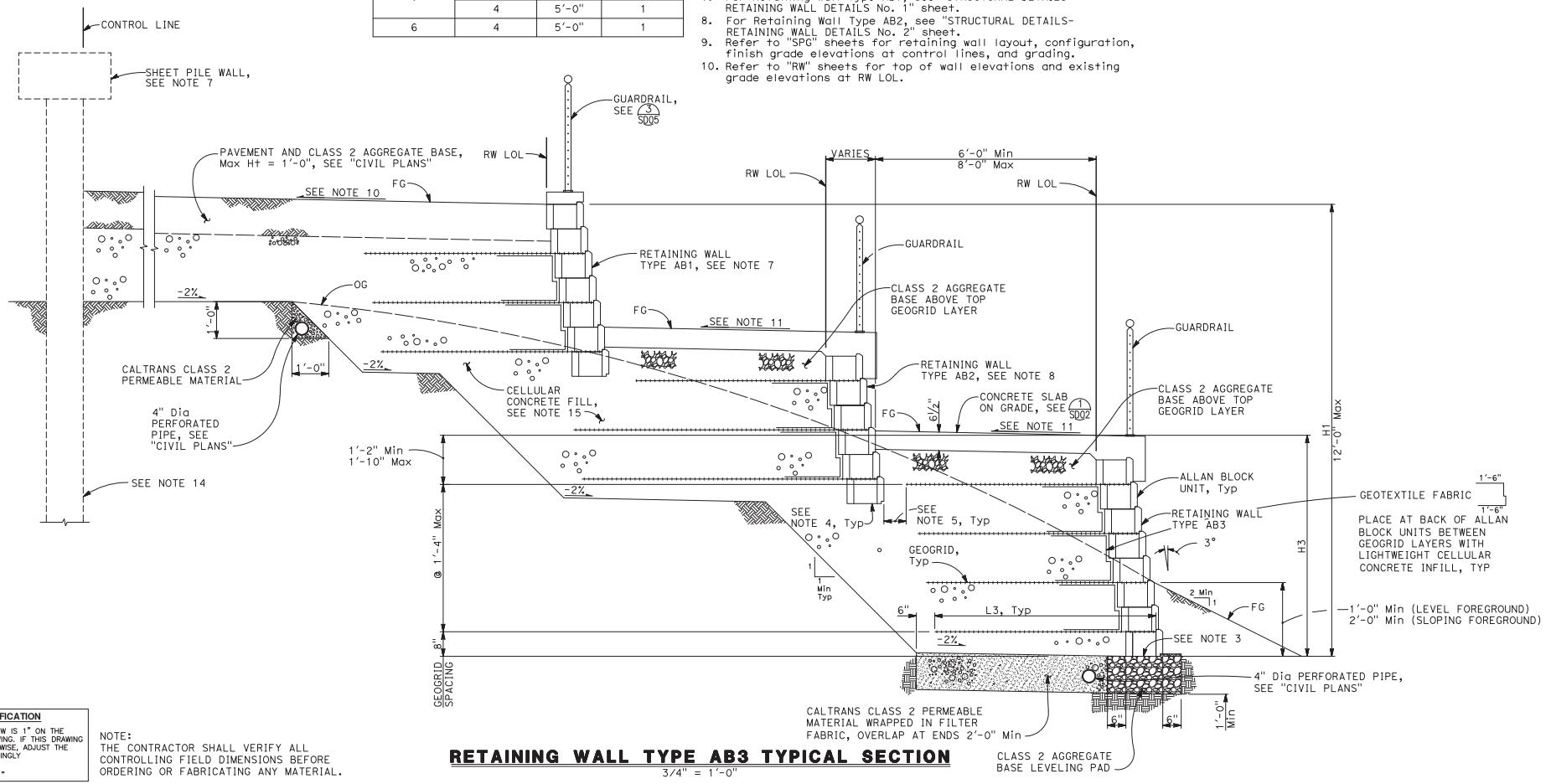
SHEET
S-D02
SHEET 266 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-D02) 2015272

RETAINING WALL TYPE AB3 DATA			
H1 (ft, Max)	H3 (ft, Max)	L3	GEOGRID TYPE
12	10	8'-6"	1
	8	7'-0"	1
	6	6'-0"	1
	4	5'-6"	1
10	8	7'-0"	1
	6	6'-0"	1
	4	5'-6"	1
8	6	6'-0"	1
	4	5'-0"	1
6	4	5'-0"	1

NOTES:

1. Structural typical section shown viewed along Control Line looking up station.
2. Bond Allan Block capstones to Allan Block units with epoxy adhesive.
3. Bottom Allan Block unit must be constructed directly on Well-Graded Granular Wall Rock.
4. Bottom Allan Block unit of upper wall must be constructed directly on cellular concrete fill or 6" Max height concrete leveling pad.
5. Where adjacent wall prevents installing Geogrid full length, trim Geogrid to provide 6" Clr.
6. For sheet pile wall details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
7. For Retaining Wall Type AB1, see "STRUCTURAL DETAILS-RETAINING WALL DETAILS No. 1" sheet.
8. For Retaining Wall Type AB2, see "STRUCTURAL DETAILS-RETAINING WALL DETAILS No. 2" sheet.
9. Refer to "SPG" sheets for retaining wall layout, configuration, finish grade elevations at control lines, and grading.
10. Refer to "RW" sheets for top of wall elevations and existing grade elevations at RW LOL.
11. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
12. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.
13. All bar reinforcing steel must be epoxy coated.
14. Shore/underpin adjacent structures that could be damaged by excavating work. Excavation and shoring is solely the the Contractor's responsibility.
15. Class of cellular concrete fill must match class of cellular concrete fill specified for sheet pile wall at same Control Line station.



RETAINING WALL TYPE AB3 TYPICAL SECTION

3/4" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: AR
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: DBD
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. RICHARDS No. C 45855 Exp. 6/30/22 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - RETAINING WALL DETAILS No. 3

SHEET
S-D03
SHEET 267 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-D03) 2015272

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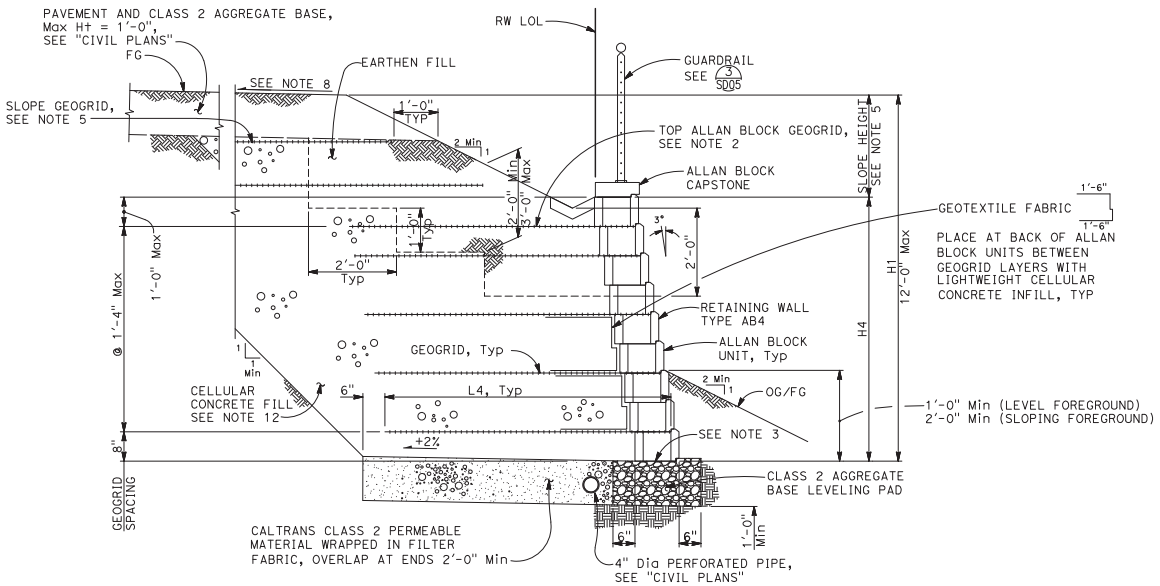

RETAINING WALL TYPE AB4 TYPICAL SECTION

3/4" = 1'-0"

NOTES:

1. Structural typical section shown viewed along Control Line looking up station.
2. Top Allan Block Geogrid layer must be Type 2 Geogrid.
3. Bond Allan Block capstones to Allan Block units with epoxy adhesive.
4. Bottom Allan Block unit must be constructed directly on Well-Graded Granular Wall Rock.
5. Install Type 1 Geogrid @ 2'-0" Max spacing within slope for slope height 6'-0" and greater.
6. Refer to "SPG" sheets for retaining wall layout, configuration, finish grade elevations at control lines, and grading.
7. Refer to "RW" sheets for top of wall elevations and existing grade elevations at RW LOL.
8. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
9. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.
10. All bar reinforcing steel must be epoxy coated.
11. Shore/underpin adjacent structures that could be damaged by excavating work. Excavation and shoring is solely the the Contractor's responsibility.
12. Class of cellular concrete fill may be class I , II , or III . Where sheet pile or concrete flood wall is located at same Control Line station, the class of cellular concrete fill must match class of cellular concrete fill specified for flood wall at same Control Line station.

RETAINING WALL TYPE AB4 DATA			
H1 (ft, Max)	H4 (ft, Max)	L4	GEOGRID TYPE, UON, SEE NOTE 2
12	10	10'-6"	1
	8	8'-0"	1
	6	7'-0"	1
	4	5'-6"	1
10	8	8'-6"	1
	6	6'-6"	1
	4	5'-6"	1
8	6	7'-0"	1
	4	5'-0"	1
6	4	6'-6"	1

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	SMH
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-5459 Exp. 6/30/22 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - RETAINING WALL DETAILS No. 4

SHEET
S-D04
SHEET 268 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(20152725-D04) 2015272

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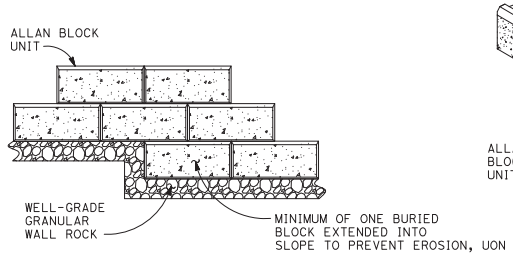
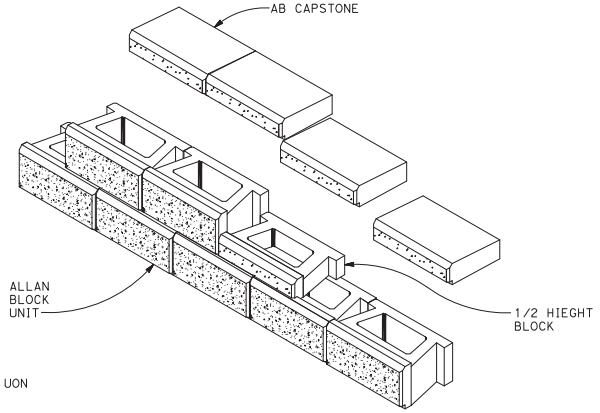
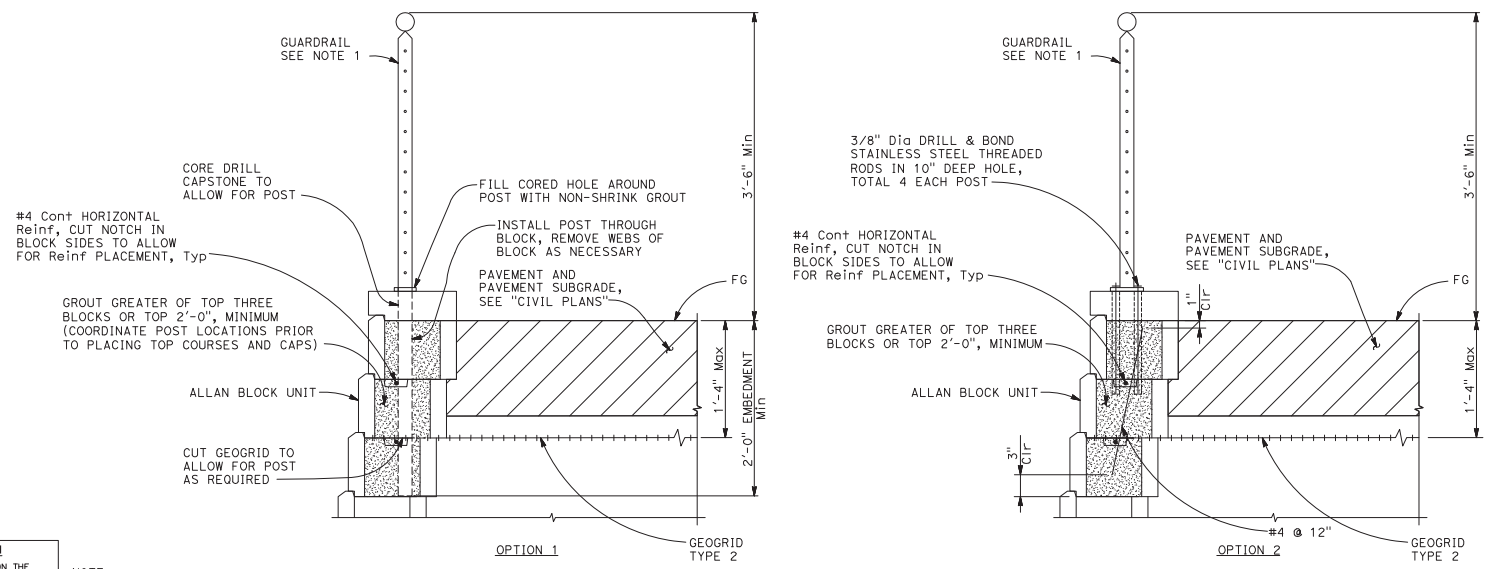
NOTES:
1. Refer to "C" sheets for guardrail details not noted.
2. All bar reinforcing steel must be epoxy coated.



BOTTOM OF WALL STEP DETAIL 1 SD05
NO SCALE



TOP OF WALL STEP DETAIL 2 SD05
NO SCALE



GUARDRAIL DETAIL 3 SD05
1 1/2"=1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

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PUBLIC WORKS DEPARTMENT
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BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - RETAINING WALL DETAILS No. 5

SHEET
S-D05
SHEET 269 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-D05) 2015272

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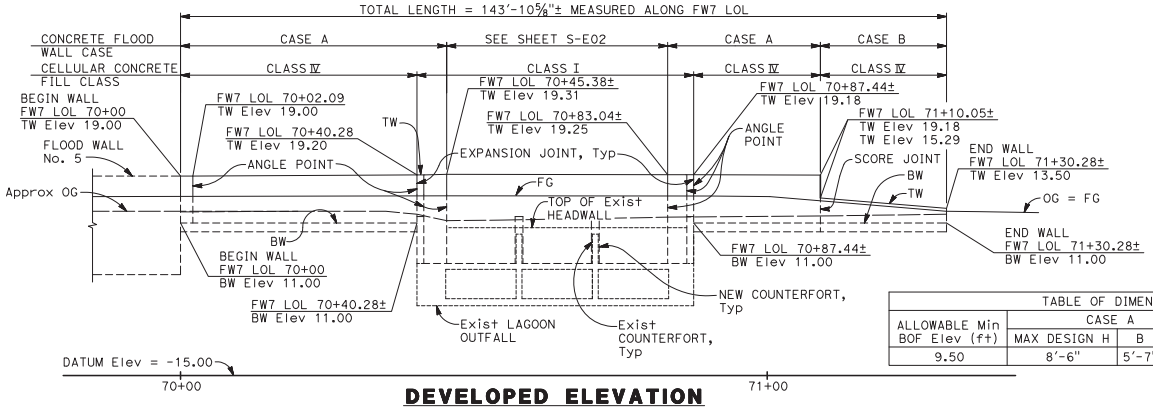
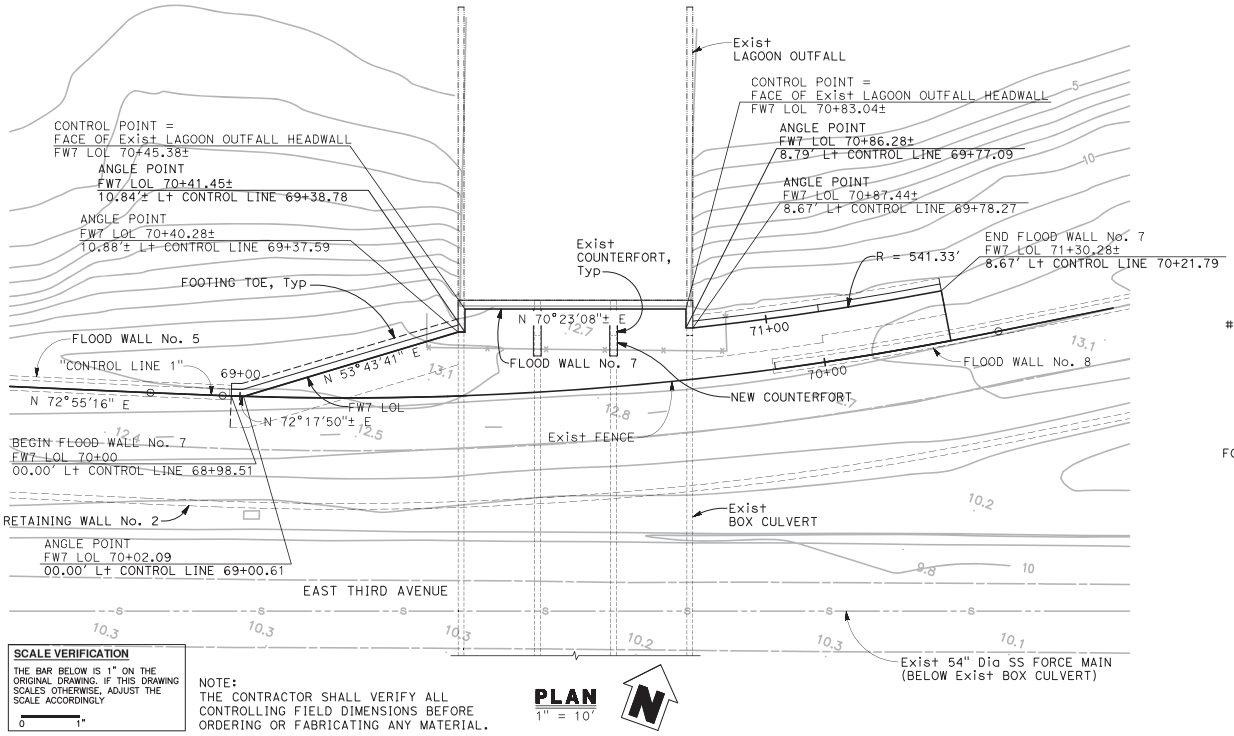


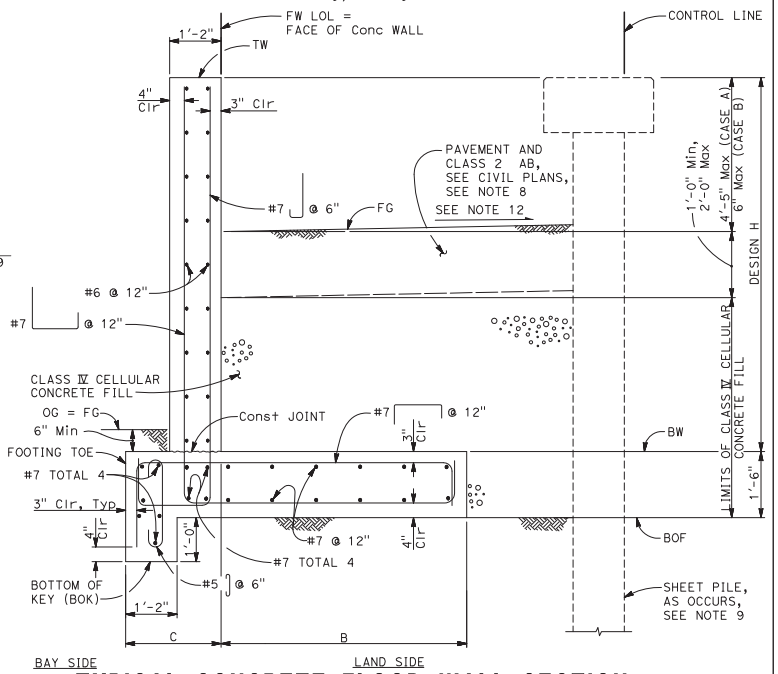
TABLE OF DIMENSIONS AND DATA						
ALLOWABLE Min BOF Elev (ft)	CASE A			CASE B		
	MAX DESIGN H	B	C	MAX DESIGN H	B	C
9.50	8'-6"	5'-7"	2'-2"	5'-6"	4'-1"	2'-2"

DEVELOPED ELEVATION
1" = 10'

NOTES:
1. This plan accurate for Flood Wall No. 7 work only.
2. Structural Elevation is shown viewed from land side looking towards the bay.
3. Top of wall (TW) and bottom of wall (BW) profiles are linear between points shown unless otherwise noted.
4. Structural Typical Section is shown viewed along FW LOL looking up station.
5. Score joints must be placed at 24'-0" maximum, see (2/SC17).
6. All bar reinforcing steel must be epoxy coated.
7. Provide step in flood wall as required, see (4/SC17).
8. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
9. For sheet pile details, see "STRUCTURAL DETAILS-SHEET PILE DETAILS" sheets.
10. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines, and grading.
11. Refer to "FW" sheets for top of wall elevations and existing grade elevations at FW LOL.
12. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
13. Refer to "L" sheets for architectural treatment limits and type.
14. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.



PLAN
1" = 10'



TYPICAL CONCRETE FLOOD WALL SECTION
3/4" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 7/31/2018
SCALE: AS SHOWN
DRAWN BY: RLQ
PROJECT NUMBER: FOST.12.16
DESIGNED BY: DSR
CHECKED BY: APH
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. C 54615 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
STRUCTURAL DETAILS - LAGOON OUTFALL DETAILS No. 1

SHEET
S-E01
SHEET 270 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-E01) 2015272

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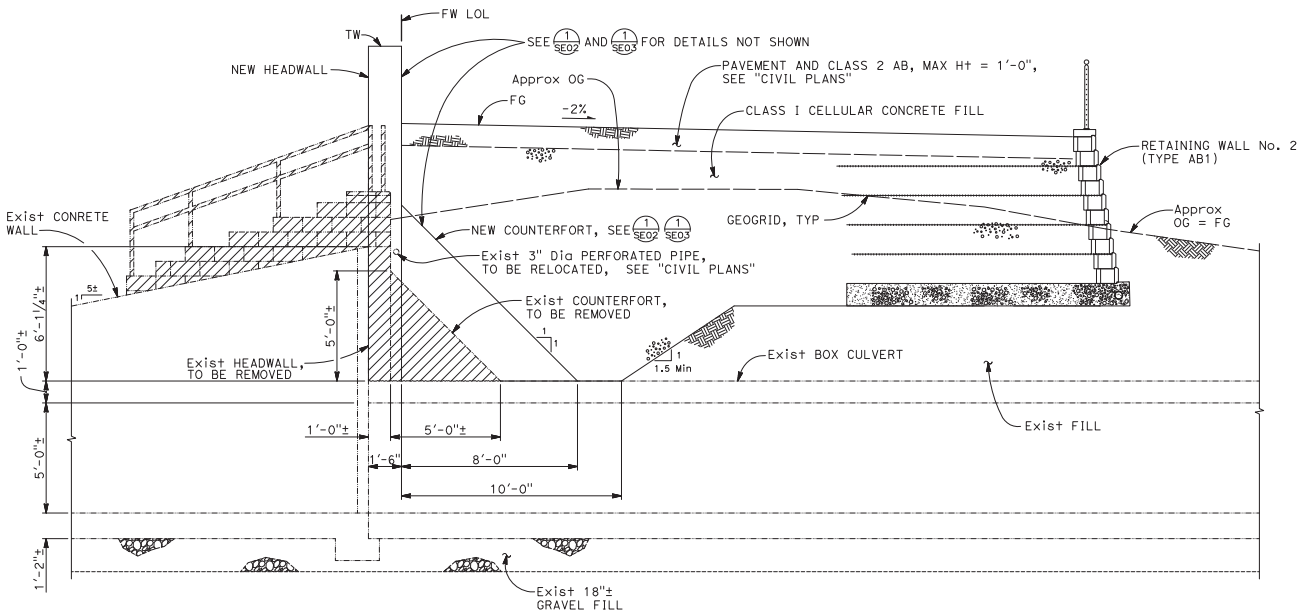
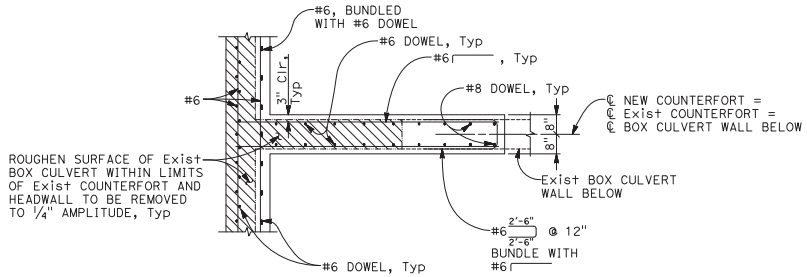
NOTE:
See Sheet S-E01 for notes.



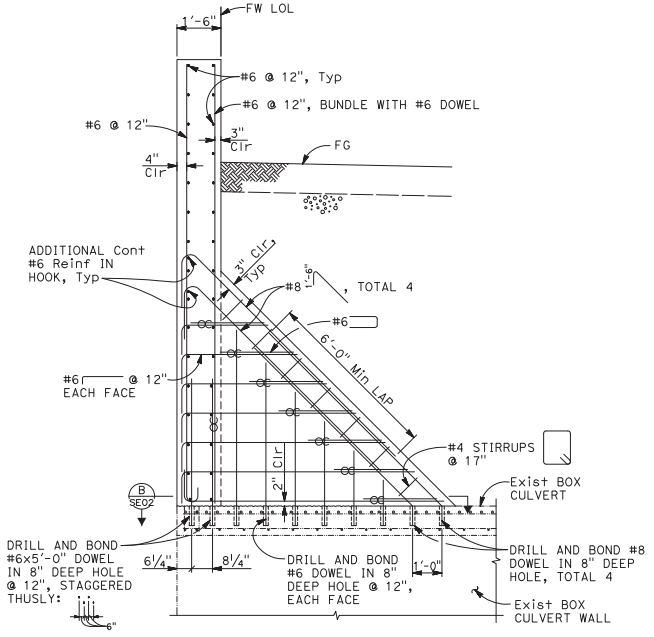
TYPICAL EXIST LAGOON OUTFALL MODIFICATION SECTION A/SE02

3/8" = 1'-0"



SECTION B/SE02

1/2" = 1'-0"



DETAIL 1/SE02

1/2" = 1'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-59459 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - LAGOON OUTFALL DETAILS No. 2

SHEET
S-E02
SHEET 271 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-E02) 2015272

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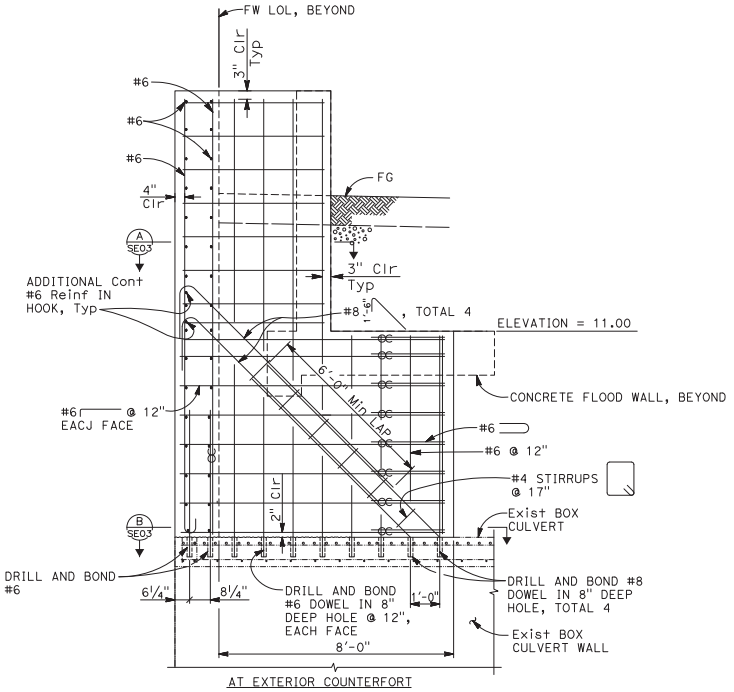
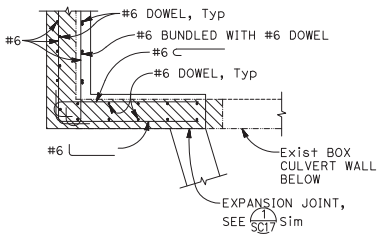
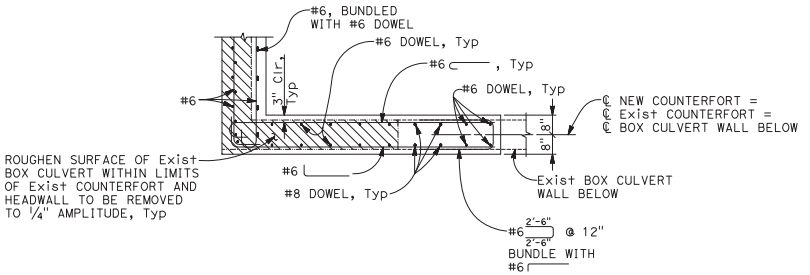
NOTE:
See Sheet S-E01 for notes.



DETAIL 1 SE03
1/2" = 1'-0"



SECTION A SE03
1/2" = 1'-0"



SECTION B SE03
1/2" = 1'-0"

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

W:\2015\2015272\2015272S-E03.dwg

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	RLQ
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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REGISTERED PROFESSIONAL ENGINEER ANTHONY P. ROLANDO No. C 54648 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

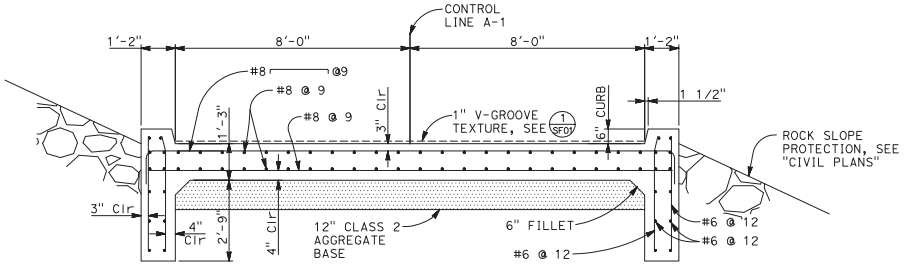
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - LAGOON OUTFALL DETAILS No. 3

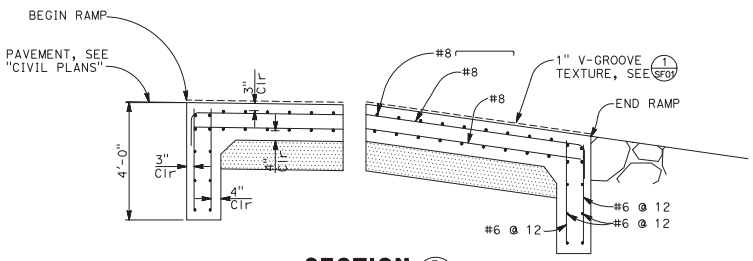
SHEET
S-E03
SHEET 272 OF 384
CIP PROJ. NUMBER
CIP 301-657

(2015272S-E03) 2015272

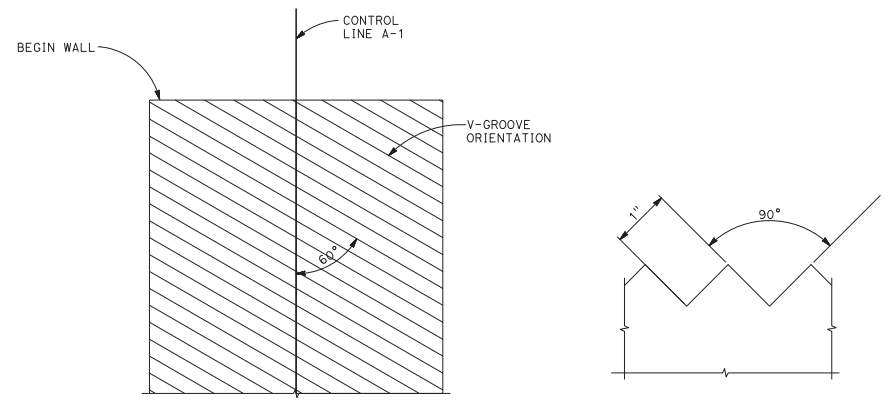
NOTES:
1. Refer to "A" sheets for boat ramp layout and details not noted.
2. Section A is shown viewed looking along Control Line A-1.
3. Section B is shown viewed perpendicular to Control Line A-1.
4. All bar reinforcing steel must be epoxy coated.



SECTION A SF01
1/2" = 1'-0"



SECTION B SF01
1/2" = 1'-0"



DETAIL 1 SF01
NO SCALE

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: RLQ				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: DSR				
CHECKED BY: DBD				
SURVEYED BY: WILSEY-HAM			07/31/20	CONFORMED SET
	NO.	BY	DATE	REVISIONS

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PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-65459 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - BOAT RAMP DETAILS

SHEET
S-F01
SHEET 273 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-F01) 2015272

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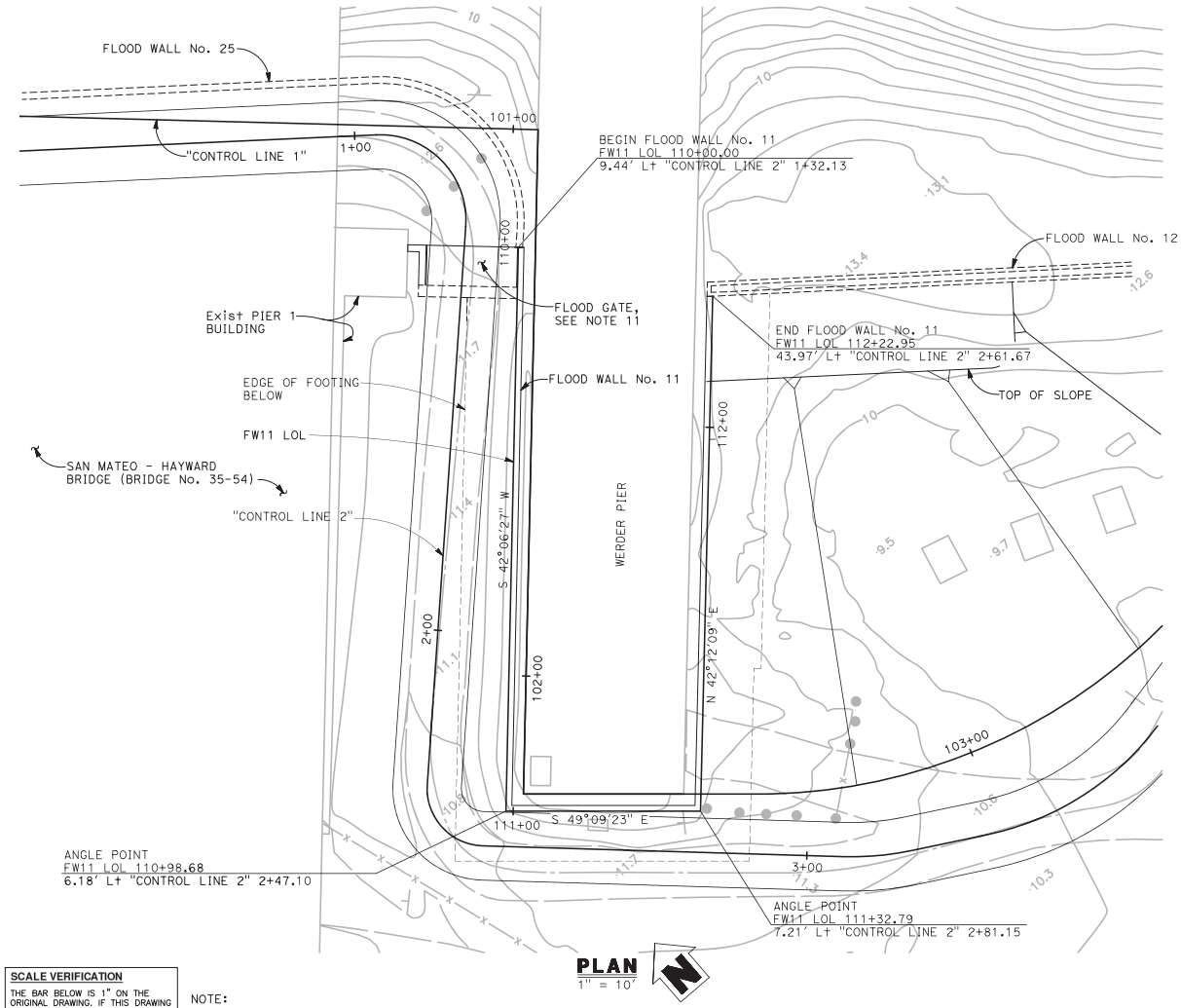

PLAN
1" = 10'

NOTES:
1. This plan accurate for Flood Wall No. 11 work only.
2. Structural elevation is shown viewed from land side looking towards Werder Pier.
3. Structural typical section is shown viewed along FW LOL looking up station.
4. Expansion joints must be placed at 96'-0" maximum, see 1/SC17
5. Score joints must be placed at 24'-0" maximum, see 2/SC17
6. All bar reinforcing steel must be epoxy coated.
7. Class 2 aggregate base may be installed between pavement and cellular concrete fill as required.
8. Refer to "SPG" sheets for flood wall layout, configuration, existing grade elevations at control lines, and grading.
9. Refer to "TCX" sheets for civil typical cross sections, including paving and subgrade, soil reinforcement, and trail grading details.
10. Refer to "L" sheets for architectural treatment limits and type.
11. For flood gate details, see "STRUCTURAL DETAILS-FLOOD GATE DETAILS" sheet.

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	SMH
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

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PUBLIC WORKS DEPARTMENT
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REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-54459 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - WERDER PIER GENERAL PLAN

SHEET
S-G01
SHEET 274 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-G01) 2015272

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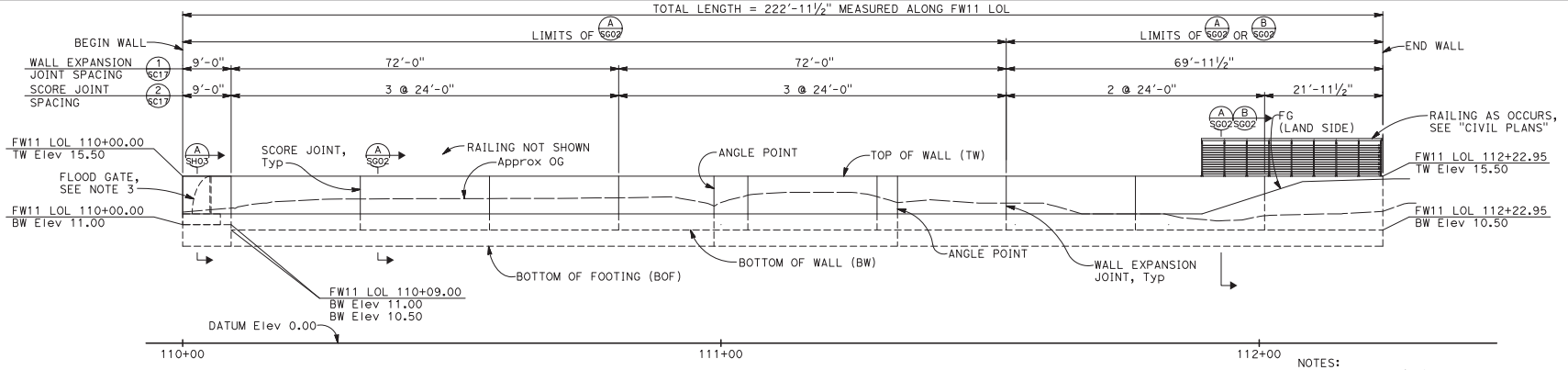
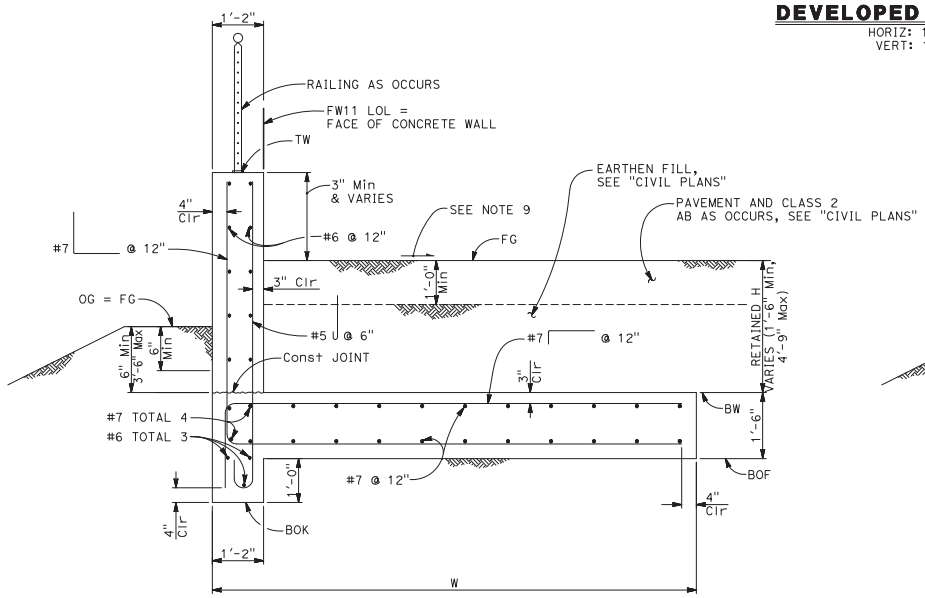


DEVELOPED ELEVATION

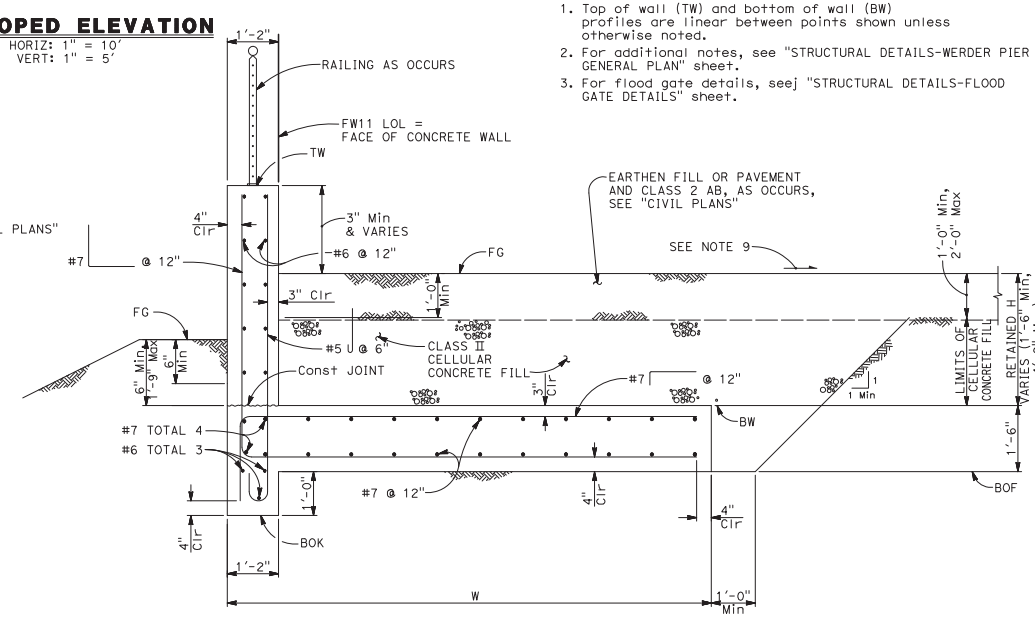
HORIZ: 1" = 10'
VERT: 1" = 5'

NOTES:
1. Top of wall (TW) and bottom of wall (BW) profiles are linear between points shown unless otherwise noted.
2. For additional notes, see "STRUCTURAL DETAILS-WERDER PIER GENERAL PLAN" sheet.
3. For flood gate details, seej "STRUCTURAL DETAILS-FLOOD GATE DETAILS" sheet.



SECTION A SG02

3/4" = 1'-0"



SECTION B SG02

3/4" = 1'-0"

TABLE OF FLOOD WALL DIMENSIONS		
RETAINED H	≤ 3'-6"	> 3'-6" (4'-9" Max)
W	8'-9"	11'-0"

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	SMH
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-65459 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - WERDER PIER DETAILS No. 1

SHEET
S-G02
SHEET 275 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-G02) 2015272

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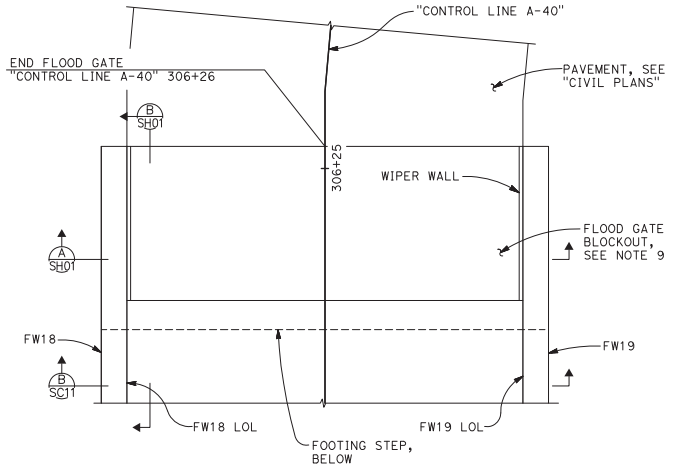
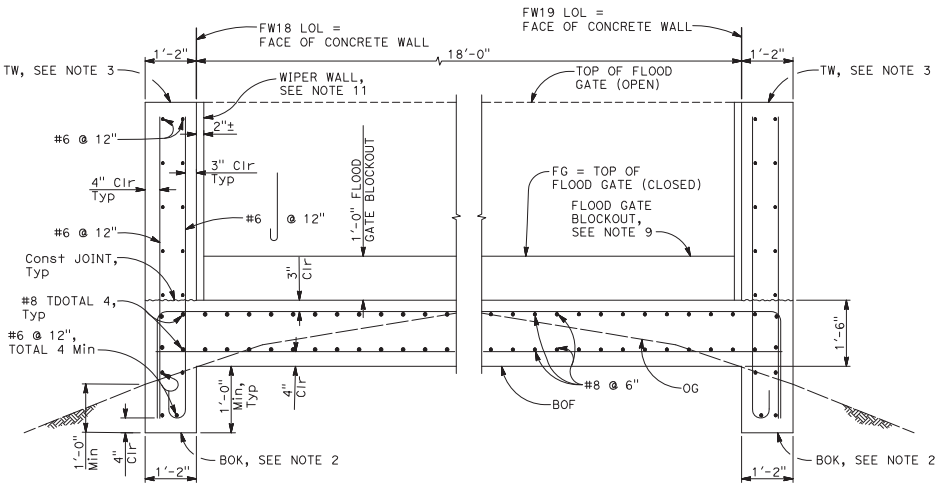


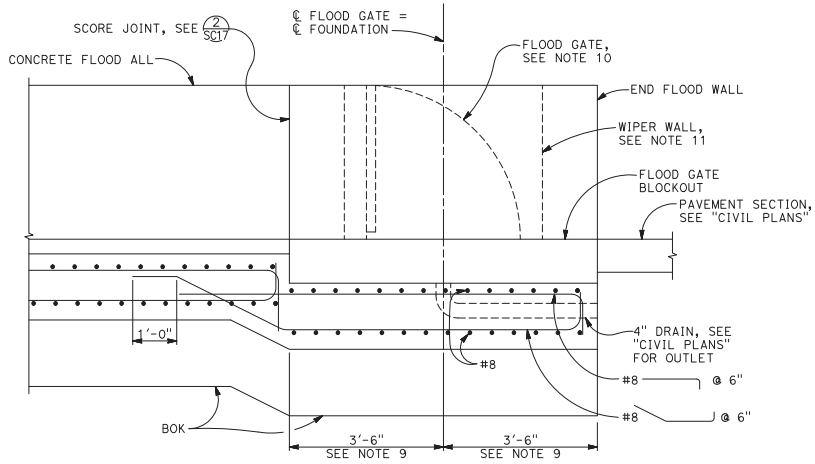
PLAN
3/8" = 1'-0"

NOTES:

1. All bar reinforcing steel must be epoxy coated.
2. Bottom of key elevations must be equal for both keys of footing.
3. Top of wall elevations must be equal for both stems of wall.
4. Construction of flood wall may be sequenced in two stages. Construction of Optional Segment 1 must be completed before construction of Optional Segment 2.
5. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines and grading.
6. Refer to "FW" sheeets for top of wall elevations and existing grade elevations as FW LOL.
7. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade and trail grading details.
8. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.
9. Verify minimum flood gate blockout dimensions with manufacturer to order or fabricating any materials.
10. Install flood gate per manufracturer's recommendations.
11. Install wiper wall per manufacturer's recommendations.



SECTION A / SH01
3/4" = 1'-0"



SECTION B / SH01
3/4" = 1'-0"

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0 1"

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DATE:	4/24/2020
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PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DSD
SURVEYED BY:	WILSEY-HAM

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610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4628

REGISTERED PROFESSIONAL ENGINEER
ANTHONY P. ROLAND
No. C 54615
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

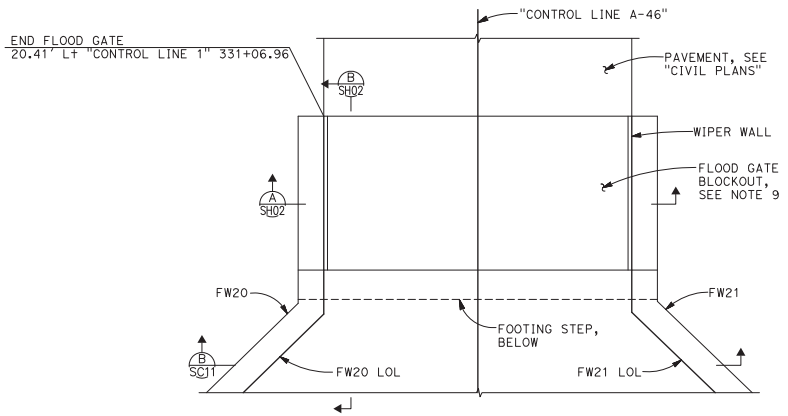
BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - FLOOD GATE DETAILS No. 1

SHEET
S-H01
SHEET 276 OF 384
CIP PROJ. NUMBER
CIP 301-657

(20152725-H01) 2015272



PLAN
3/8" = 1'-0"

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10. Install flood gate per manufracturer's recommendations.
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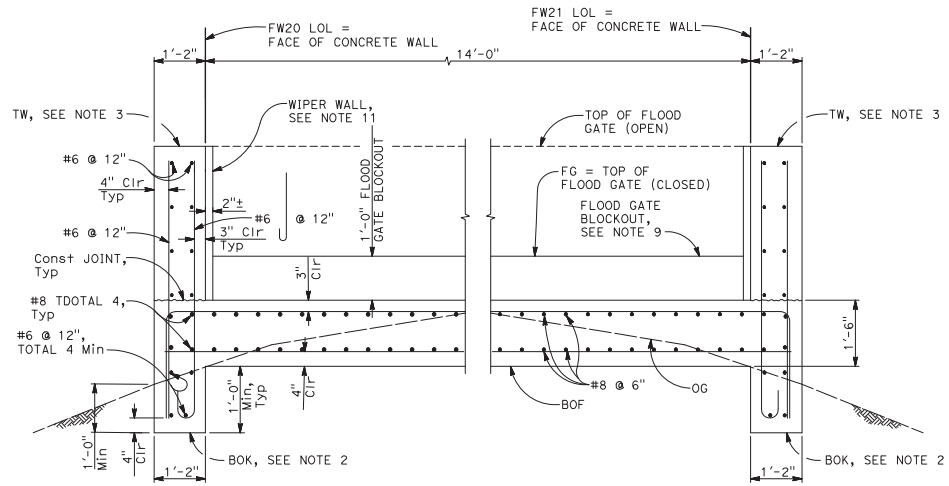
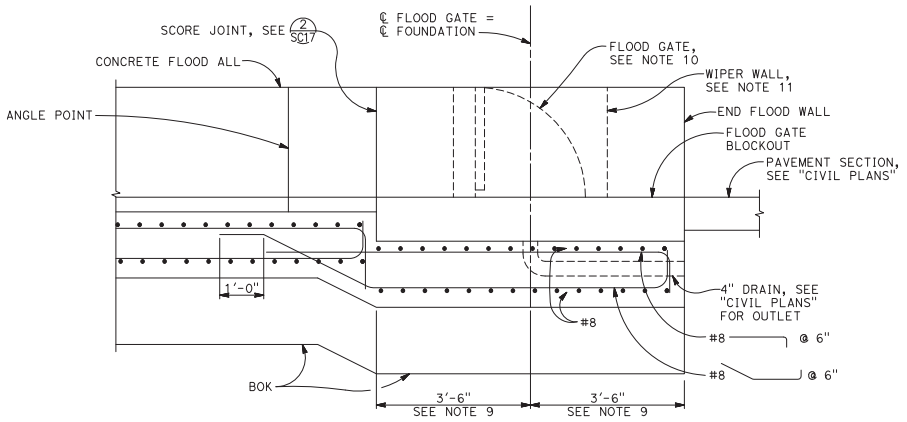


SECTION A SH02
3/4" = 1'-0"



SECTION B SH02
3/4" = 1'-0"

SCALE VERIFICATION
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0 1"

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DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: SMH				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: DSR				
CHECKED BY: DBD				
SURVEYED BY: WILSEY-HAM				
	NO.	BY	DATE	REVISIONS
			07/31/20	CONFORMED SET

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610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-65459 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - FLOOD GATE DETAILS No. 2

SHEET
S-H02
SHEET 277 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-H02) 2015272

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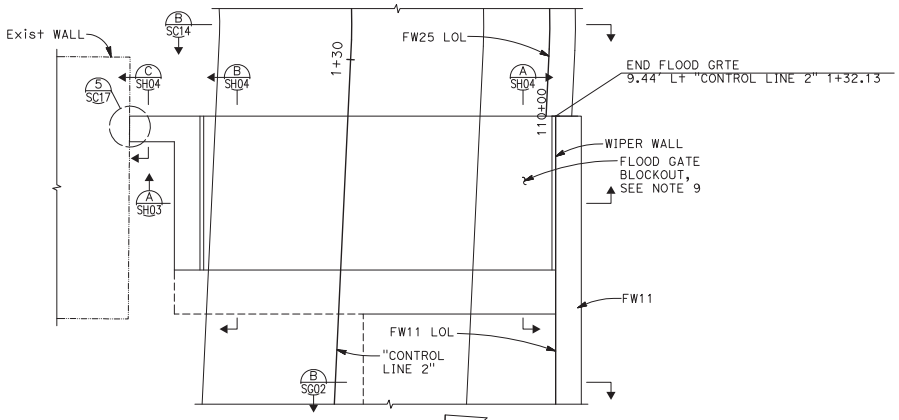
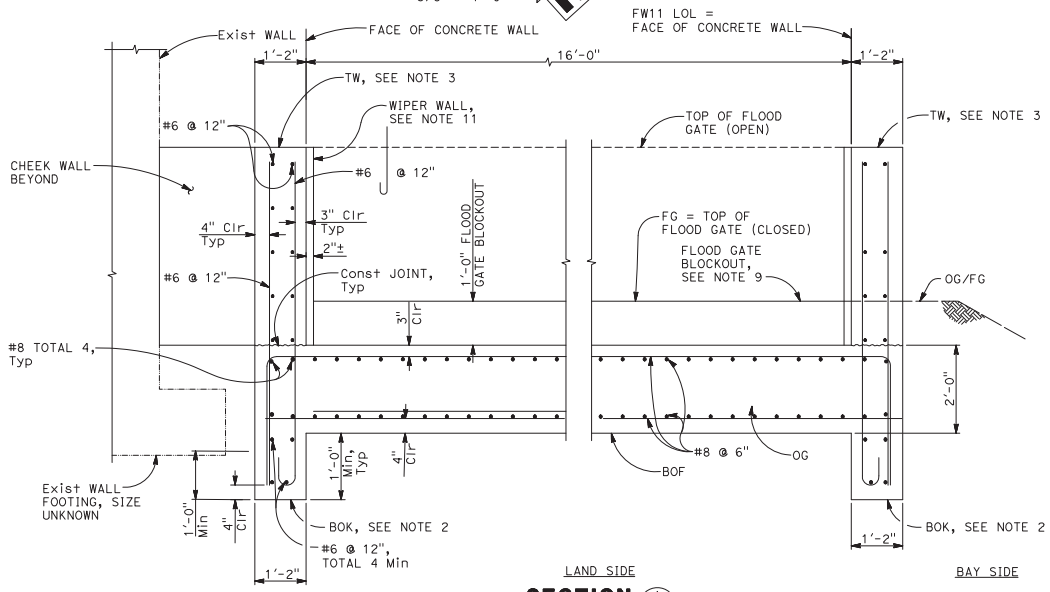


PLAN
3/8" = 1'-0"



SECTION A SH03
3/4" = 1'-0"

NOTES:

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3. Top of wall elevations must be equal for both stems of wall.
4. Construction of flood wall may be sequenced in two stages. Construction of Optional Segment 1 must be completed before construction of Optional Segment 2.
5. Refer to "SPG" sheets for flood wall layout, configuration, finish grade elevations at control lines and grading.
6. Refer to "FW" sheeets for top of wall elevations and existing grade elevations as FW LOL.
7. Refer to "TCX" sheets for civil typical cross sections including paving and subgrade and trail grading details.
8. See "Civil Plans" for Right-of-Way, utility, drainage, roadway, and layout information not noted.
9. Verify minimum flood gate blockout dimensions with manufacturer to order or fabricating any materials.
10. Install flood gate per manufracturer's recommendations.
11. Install wiper wall per manufacturer's recommendations.

SCALE VERIFICATION

THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY

0 1"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	DSR
CHECKED BY:	DBD
SURVEYED BY:	WILSEY-HAM

NO.	BY	DATE	REVISIONS
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PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER ANTHONY P. NOTARO No. C-65659 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - FLOOD GATE DETAILS No. 3

SHEET
S-H03
SHEET 278 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-H03) 2015272

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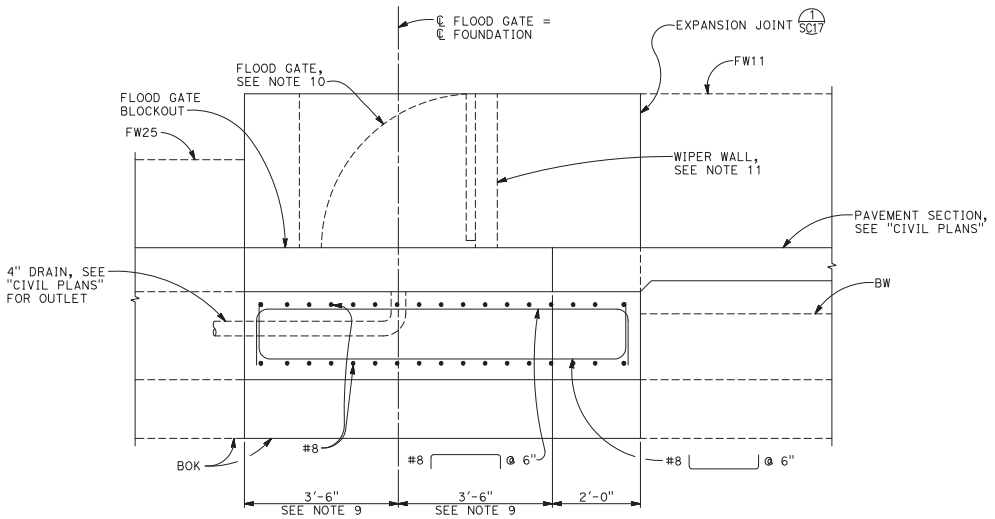
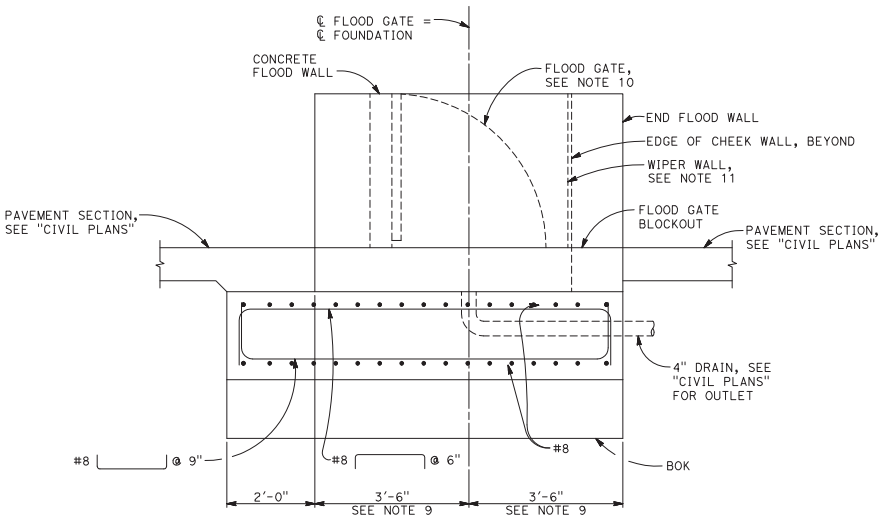
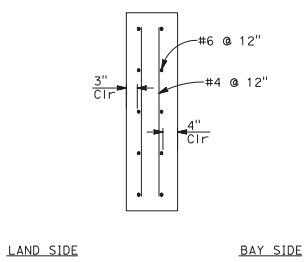


SECTION A/SH04
3/4" = 1'-0"



SECTION B/SH04
3/4" = 1'-0"



SECTION C/SH04
3/4" = 1'-0"

NOTES:
1. For flood gate notes, see "STRUCTURE DETAILS-FLOOD GATE DETAILS No.3" sheet.

SCALE VERIFICATION
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0 1"

NOTE:
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SURVEYED BY:	WILSEY-HAM

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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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REGISTERED PROFESSIONAL ENGINEER
ANTHONY P. NOTARO
No. C-65459
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BCA
865 The Alameda
San Jose, California 95126
408-296-5515

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

STRUCTURAL DETAILS - FLOOD GATE DETAILS No. 4

SHEET
S-H04
SHEET 279 OF 384
CIP PROJ. NUNMBER
CIP 301-657

(2015272S-H04) 2015272

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GENERAL NOTES

DESIGN INTENT These Drawings and accompanying technical specifications represent the general design intent to be implemented on the site. Contractor shall be responsible for contacting the Owner's Representative for any additional clarification or details necessary to accommodate site conditions.

CONTRACTOR COORDINATION The Contractor shall coordinate and otherwise integrate his work with that of others in an efficient, craftsmanlike and timely manner so as to provide the Owner with a well-constructed, easily maintainable project. Each contractor shall notify others at least two working days in advance of covering, completing or exposing work to be installed by others.

CONTRACTORS' JOB SITE CONDITIONS The Contractor agrees to assume sole and complete responsibility for site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Design Consultant 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 Owner or the Design Consultant.

COMPOSITE BASE SHEET The proposed improvements shown on these Drawings are superimposed on a base sheet. This base sheet is compiled from a boundary survey, a topographic survey, architectural and/or engineering documents and other data as made available by the Owner. The Design Consultant shall not be held liable for changes, inaccuracies, omissions or other errors on these documents. The composite base sheet is provided only as an aid, and the Contractor shall be responsible for reviewing these documents and incorporating/integrating all construction as required to accommodate same.

UTILITIES A reasonable effort has been made to locate and delineate all known underground utilities. The Contractor is cautioned that only excavation will reveal the types, extent, sizes, location and depths of such underground utilities. However, the Design Consultant can assume no responsibility for the completeness or accuracy of delineation of such underground utilities, nor for the existence of other buried objects or utilities which are not shown on these Drawings.

- For areas under public ownership or private lands with public utility easements, the Contractor is responsible for contacting utility companies prior to commencing construction, and requesting a visual verification of the locations of their underground utilities. The utility companies are members of the Underground Service Alert (USA) one-call program. Notification shall be a minimum of (2) working days in advance of performing excavation work by contacting USA North at 811 / 1-800-227-2600 / www.usanorth.org for Northern California, and DigAlert 811 / www.digalert.org for Southern California.
- For areas under private ownership and campuses not members of USA, the Contractor is responsible for engaging the services of a private utility locator for a visual verification of the locations of underground utilities. Excavation is defined as being 6 or more inches in depth below the existing surface.

CODES / STANDARDS

GENERAL: Bring conflicts between Codes, Referenced Standards, Drawings, and Specifications to the attention of the Construction Manager in writing, for resolution before taking any action. Where differences exist between codes and standards, the one affording the greatest protection shall apply. If the year of adoption is omitted from the Code or Standard designation, it shall mean the latest revision in effect on the Bid date.

PROJECT SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

2010 ADA Standards for Accessible Design, Department of Justice; Public Accommodations and Commercial Facilities (Title III regulations, 28 CFR Part 36, Subpart D, as amended by the final rules published on August 11, 2016, and December 2, 2016; 2004 ADAAG, 36 CFR part 1191, Appendices B and D).

Accessibility provisions of the 2016 California Building Codes (CBC): Part 2 of California Code Of Regulations, Title 24, including but not limited to:
Division 4 Accessible Routes: 11B-402 Accessible Routes; 11B-403 Walking Surfaces
Division 7 Communication Elements & Features: 11B-703 Signs

California Model Water Efficient Landscape Ordinance 2015 (DWR Title 23 Chapter 2.7) or local ordinance if applicable.

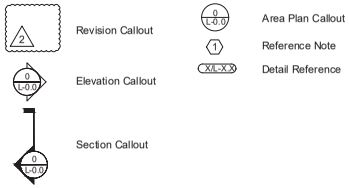
ABBREVIATIONS

AB	Aggregate Base
AC	Asphalt Concrete
AD	Area Drain
ALT	Alternate
APPROX	Approximate
ARCH	Architectural
BLDG	Building
BC	Bottom of Curb
BW	Bottom of Wall
BS	Bottom of Step
BOT	Bottom
CB	Catch Basin
CBC	CA Building Code
CI	Cast Iron
CL, ℄	Centerline
CLR	Clear
CM	Centimeter
CMU	Concrete Masonry Unit
CONC	Concrete
CONST	Construction
CONT	Continuous
CO	Cleanout
COORD	Coordinate
CY	Cubic Yard
DBL	Double
DEMO	Demolition
DET	Detail
DG	Decomposed Granite
DIA, Ø	Diameter
DN	Down
DWG	Drawing
(E), EX	Existing
EA	Each
EG	Existing Grade
EJ	Expansion Joint
EP	Edge of Paving
ELEV	Elevation
ELEC	Electrical
EQ	Equal
EQUIP	Equipment
EXP	Exposed
EXT	Exterior
FFE	Finished Floor Elevation
FG	Finished Grade
FL	Flow Line
FOB	Face of Building
FOC	Face of Curb
FPS	Feet Per Second
FS	Finish Surface
FSF	Finish Surface Field
FT	Foot
GA	Gauge
GALV	Galvanized
GB	Grade Break
GI	Galvanized Iron
GPH	Gallons Per Hour
GPM	Gallons Per Minute
HDG	Hot Dipped Galvanized
HDR	Header
HORIZ	Horizontal
HP	High Point
HSS	Hollow Structural Steel
ICV	Irrigation Control Valve
ID	Inside Diameter
INT	Interior
INV	Invert
LB	Pound
LF	Lineal Feet
LOW	Limit of Work
LP	Low Point
MAX	Maximum
MECH	Mechanical
MED	Medium
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MM	Millimeter
MTL	Metal
(N)	New
NIC	Not In Contract
NO	Number
NOM	Nominal
NTS	Not To Scale
OC	On Center
OD	Outside Diameter
OPP	Opposite
PA	Plant Area
PB	Pull Box
PE	Polyethylene
PERF	Perforated
POB	Point of Beginning
POC	Point of Connection
POS	Point on Slope
PNT	Point
PREFAB	Prefabricated
PSI	Pounds per Square Inch
PT	Pressure Treated
PVC	Polyvinyl Chloride
QTY	Quantity
R, RAD	Radius
REBAR	Reinforcement Bar
REF	Reference
REQD	Required
RIM	Rim Elevation
RND	Round
RWL	Rain Water Leader
S4S	Surface Four Sides
SCH	Schedule
SD	Storm Drain
SF	Square Foot
SIM	Similar
SPECS	Specifications
SQ	Square
SS	Sanitary Sewer
STL	Steel
SY	Square Yard
SYN	Synthetic
TC	Top of Curb
THK	Thick
TS	Top of Step
TYP	Typical
TW	Top of Wall
U/G	Underground
UON	Unless Otherwise Noted
VERT	Vertical
VIF	Verify in Field
W	Water
WP	Weaked Plane Joint
WV	Water Valve
WWM	Welded Wire Mesh
W/	With
WD	Wood

LANDSCAPE SHEET INDEX

SHEET NO:	CONTENTS:
L-0.01	Landscape Cover Sheet
L-1.00 - L-1.36	Irrigation Plan
L-2.00 - L-2.36	Planting Plan
L-3.01	Site Furnishings - Key Plan & Schedule
L-3.02	Site Furnishings - Legend
L-3.03 - L-3.07	Site Furnishings - Layout Plans
L-4.01	Proposed Signage Plan & Schedule
L-4.02	Relocated Signage Plan & Schedule
L-5.01 - L-5.02	Construction Details - Site Furnishings
L-5.03 - L-5.05	Construction Details - Signage
L 5.06 - L-5.07	Construction Details - Precast Panels
L 5.08	Construction Details - Signage
L-8.01 - L-8.04	Irrigation Details
L-8.05	Planting Details
E0.1	Symbols, Abbreviations, Codes, Standards, Notes & Sheet Index
E2.1	Electrical Site Plan - E 3rd Ave
E2.2	Electrical Site Plan - Bridgeview Park
E2.3	Electrical Site Plan - Shorebird Park
E3.1	Electrical Specifications

SYMBOLS



DATE:	4/24/2020			
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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

LANDSCAPE COVER SHEET

SHEET
L0.01
SHEET 280 OF 384

CIP PROJ. NUMBER
CIP 301–657

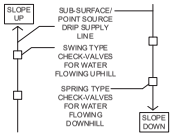
21. CONTROLLER:
Install controller as shown on the Drawings. All above-grade conduit shall be rigid steel securely fastened to structure and to controller.

22. PROGRAMMING / SCHEDULING:
b. Set up establishment irrigation schedules for optimum plant growth based on anticipated weather over the maintenance period, water use of plantings (see Planting Plan Legend) and sun exposure. Assume the soil type to be a clay loam.
c. ET Controllers: Prior to the end of the maintenance period, program the controller per manufacturer's directions.
d. For sprinklers, provide at least two start times for shrubs if over 5 minutes in length for any one station.
e. Do not cycle drip irrigation application more than once per day, adjust length of run time to provide the required volume of water in one cycle.

23. FLUSH (E) MAIN:
Upon completion of connection to (E) main, allowing for solvent setup, flush main line and existing main by flushing nearest quick coupler downstream of P.O.C. on existing main.

24. IRRIGATION ADJUSTMENT
Assume one row of sprinklers and laterals along edge of existing trail to be demolished. Install new sprinklers (Hunter PGJ / PGP or equal at 15'-0" o.c., match existing) along new edge of trail. Reconnect to existing system using new PVC laterals, size to match existing. Replace nozzles on intermediate rows (if present) otherwise on street/curb edge sprinklers to match reduced distance to new trail. Adjust irrigation boxes to grade.

25. MITIGATION PLANTING IRRIGATION
See Specifications for scope of work under and Contractor prequalifications for Mitigation Planting. Irrigation for Mitigation Planting is under the scope of Mitigation Planting.



1. INSTALL VALVE EVERY 8' OF HEAD FOR POINT-SOURCE DRIP; EVERY 4' OF HEAD FOR SUB-SURFACE DRIP.

2. POINT-SOURCE CV EMITTERS HOLD BACK 9' OF HEAD. SUB-SURFACE CV EMITTERS HOLD BACK 4.5' OF HEAD.

IN-LINE CHECK VALVE DIAGRAM

PIPE SIZING CHART - SCHEDULE 40 SPRAY HEAD / BUBBLER LATERALS POINT-SOURCE DRIP SUPPLY LINES SUB-SURFACE DRIP SUPPLY / EXHAUST HEADERS	
Zone / Partial Zone Flow	Pipe Size
0-13 GPM	PVC 1"
13.1-22 GPM	PVC 1-1/4"
22.1-30 GPM	PVC 1-1/2"
30.1-50 GPM	PVC 2"
50.1-75 GPM	PVC 2-1/2"
1" is minimum pipe size.	

GENERAL NOTES

1. GUARANTEE:
Guarantee the irrigation system for one year from date of acceptance.

2. VERIFICATION:
For new systems, design is based on 60 P.S.I. and 40 G.P.M. required at discharge outlet of meter. Verify same and notify Owner's Representative if such data adversely affects the operation of the system. Such notice shall be made in writing and prior to commencing any irrigation work.

3. UTILITIES:
Verify location of all on-site utilities. Preserve and protect all such utilities unless otherwise noted. Restore damaged utilities to the satisfaction of the Owner's Representative, and at no additional cost to the Owner.

4. SCHEMATIC:
System features are shown schematically for graphic clarity. Install all piping and valves in common trenches where feasible and inside planting areas adjacent to walkways and inside medians whenever possible.

5. SPECIFICATIONS:
See irrigation specifications for additional information.

6. CODES:
Irrigation system shall be installed in accordance with all local codes and manufacturer's specifications. Notify Owner's Representative by telephone and in writing of any conflicts prior to installation.

7. MASTER VALVE / FLOW SENSOR:
a. Connect master valve, and flow sensor if included, to controller with communication cable. See Irrigation Details. Install in dedicated 1" diameter PVC conduit.
b. Normally closed Master Valves: if irrigation controller does not have a master valve over-ride function, then dedicate one station to quick coupler use.
c. Flow sensors: See Specifications for instructions on how to program irrigation controller to allow flow sensor to accommodate quick coupler use.

8. QUICK COUPLING VALVES:
Install on double swing joint. Locate 12" away from edge of walks, walls, curbs, and headerboards within planting areas. Provide one swivel, hose ell.

9. CHECK VALVES:
Install in-head check valves for sprinklers, and in-line check valves in drip irrigation supply lines, as required to minimize line drainage. Allow in bid price an amount sufficient to provide and install additional check valves to accommodate any necessary field changes.

10. BORING
Jet bore or directional bore under existing rigid paving areas. Do not trench across unless specifically shown on the Drawings and/or approved in writing by the Owner's Representative.

11. SLEEVING:
Sch. 40 PVC pipe for all wiring and irrigation lines installed under paving areas and that pass through drainage trenches with drain rock. 4-inch dia. or twice the aggregate diameter of all pipes contained within the sleeve, whichever is greater. Install (with ends clearly marked above grade) at the necessary depth prior to the construction of paving areas or field bases. Sleeving to extend 12" from edge of paving or drainage trench into adjacent subgrade. No unsleeved piping, angle-bends, 90-degree bends, or joints shall be allowed under paving.

12. HEAD ALLOWANCE:
Allow in bid price an amount sufficient to provide and install an additional 5 sprinkler heads of each type specified on plan to accommodate field changes. These heads shall be located as directed by the Owner's Representative. Deliver to the owner any unused additional heads at the end of the maintenance period.

14. FIELD VERIFICATION:
Field verify dimensions of all planting areas to receive sprinkler irrigation. Determine nozzle pattern (1/2 head, 1/4 head, Adjustable Arc, etc.) based on field conditions. Adjust all nozzles in field for optimal coverage and to prevent overspray onto walks, paved areas, etc.

15. VALVE TUNING
For sprinkler circuits adjust flow control on valves, if required, to optimize coverage and minimize misting.

16. POP-UP HEIGHT:
Use 12" pop-up sprays in the remaining planting areas, unless otherwise noted. See Legend for Pop-up rotor height.

17. POP-UP LOCATION:
Distance of pop-up sprinkler from paving or header board is equal to:
a. Minimum 24" if adjacent non-permeable surface drains away from planting.
b. 2" if adjacent non-permeable surface drains entirely to planting.
c. 2" if adjacent surface is permeable and no runoff occurs.

18. PRESSURE REGULATION
All sprinklers shall be installed with pressure regulating screens or have pressure regulated bodies.

19. DRIP VALVES
Group drip valve run times together to ensure a minimum flow of 3 GPM as required by the flow sensor. Suggested grouping chart will be provided prior to Final Completion.

20. SUB-SURFACE DRIP IRRIGATION
Sub-surface dripper line rows are shown for illustration only. Average no. of rows indicated unless otherwise noted. On slopes, increase row spacing by 25% for lowest 1/3 of zone. See Irrigation Details.

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804. Connect to park main line.
2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804
3M 1" Manual Flush Valve: See Irrigation Details

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1 See Civil Drawings for trenching and sidewalk placement & restoration
2 See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

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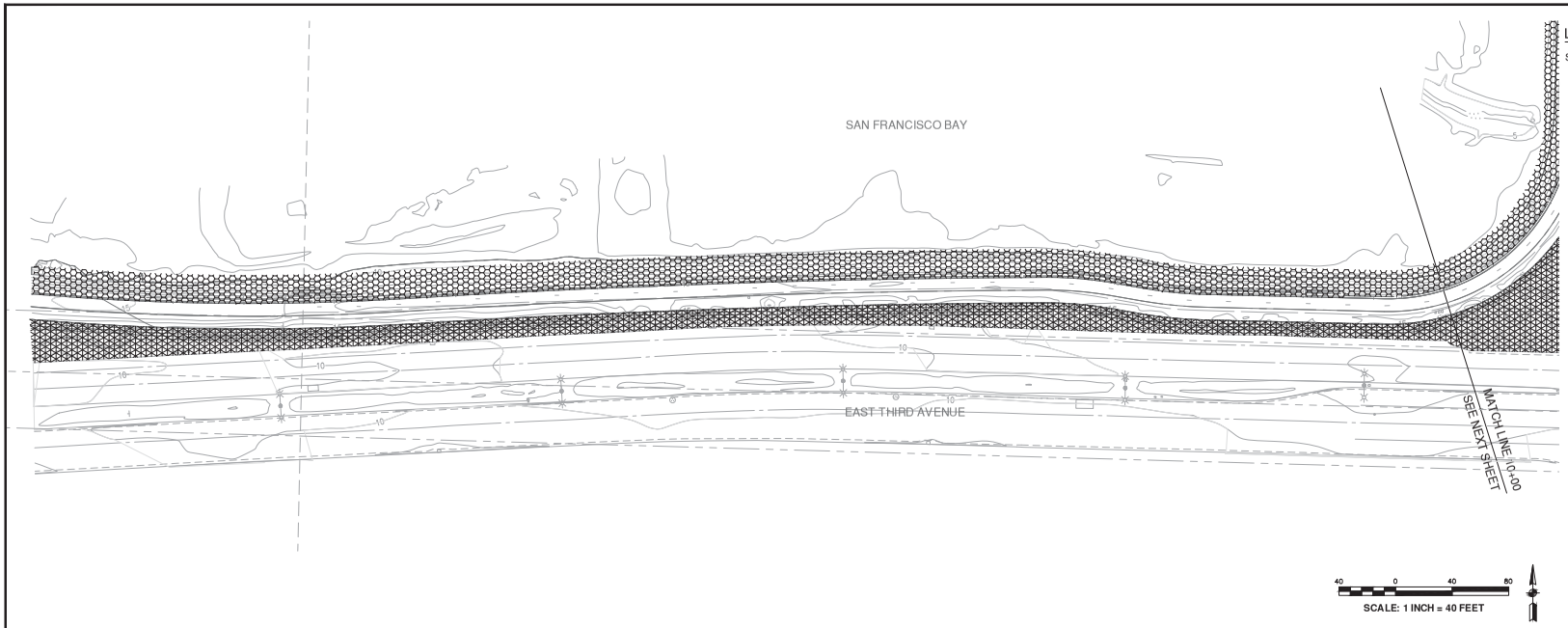
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.00
SHEET 281 OF 384
CIP PROJ. NUMBER
CIP 301—657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

40 0 40 80

SCALE: 1 INCH = 40 FEET

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PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

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IRRIGATION PLAN

SHEET
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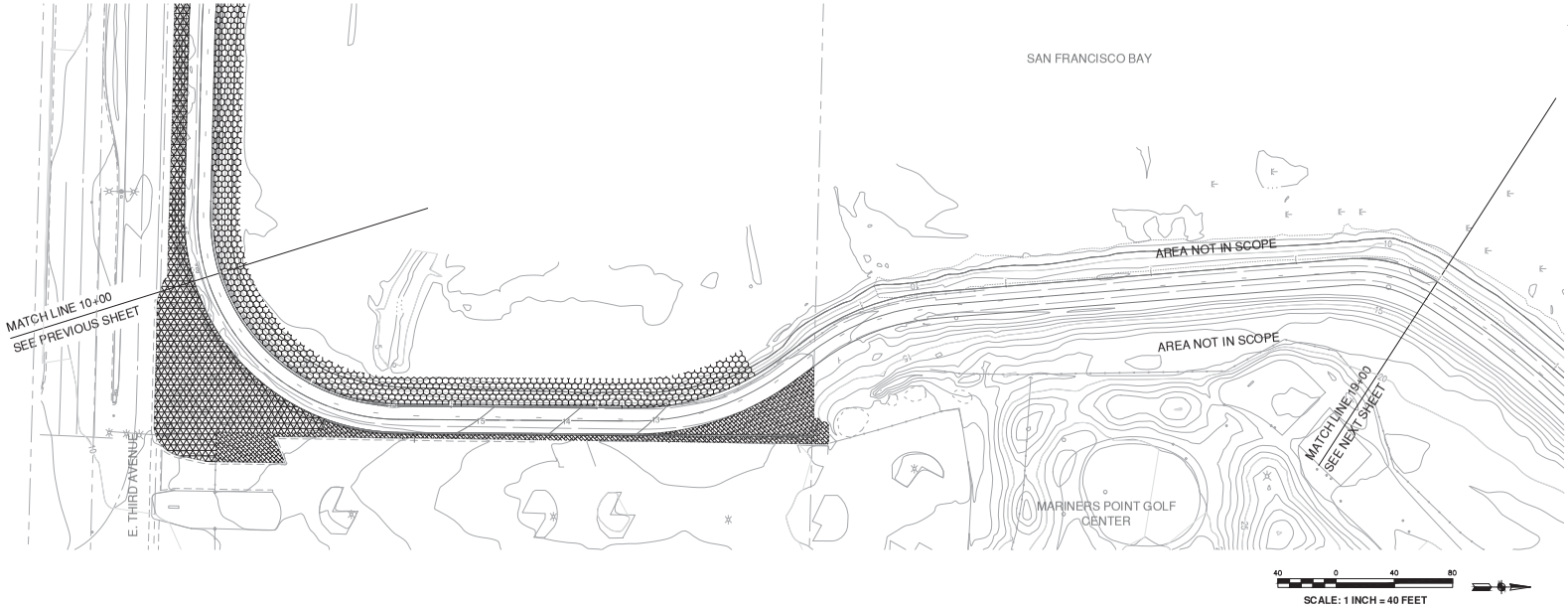
CIP 301-657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

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BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

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BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

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IRRIGATION PLAN

SHEET
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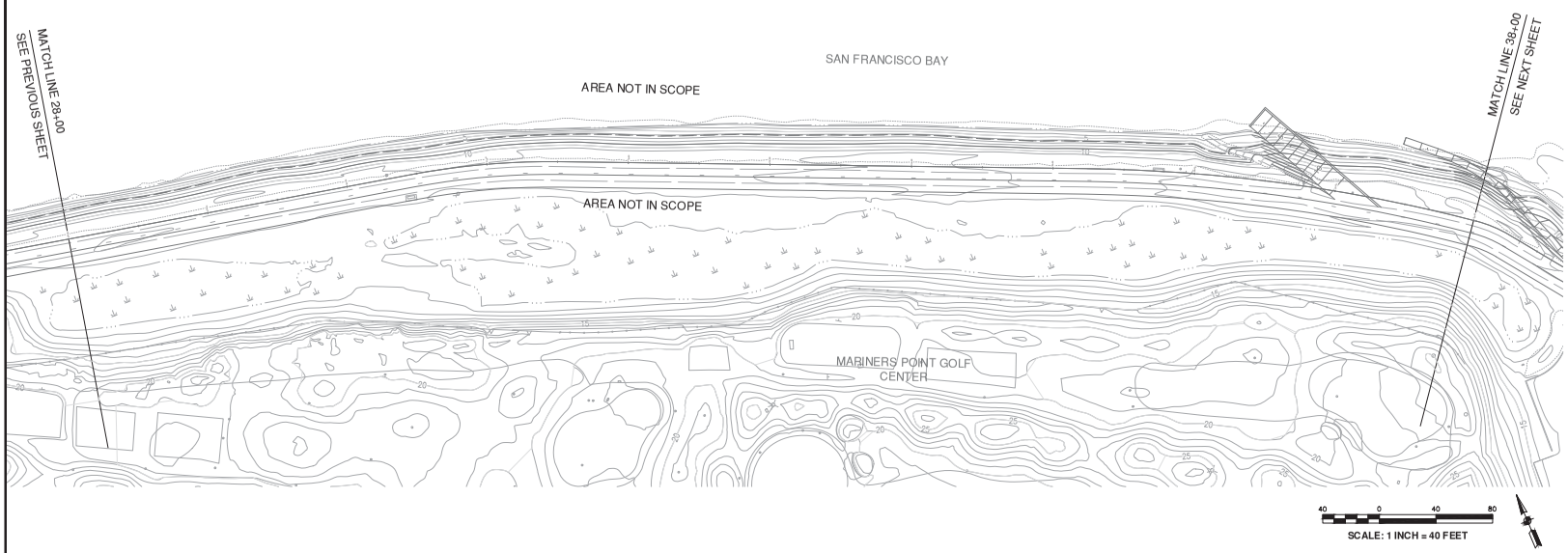

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BFS Landscape Architects
LANDSCAPE ARCHITECT
1980 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

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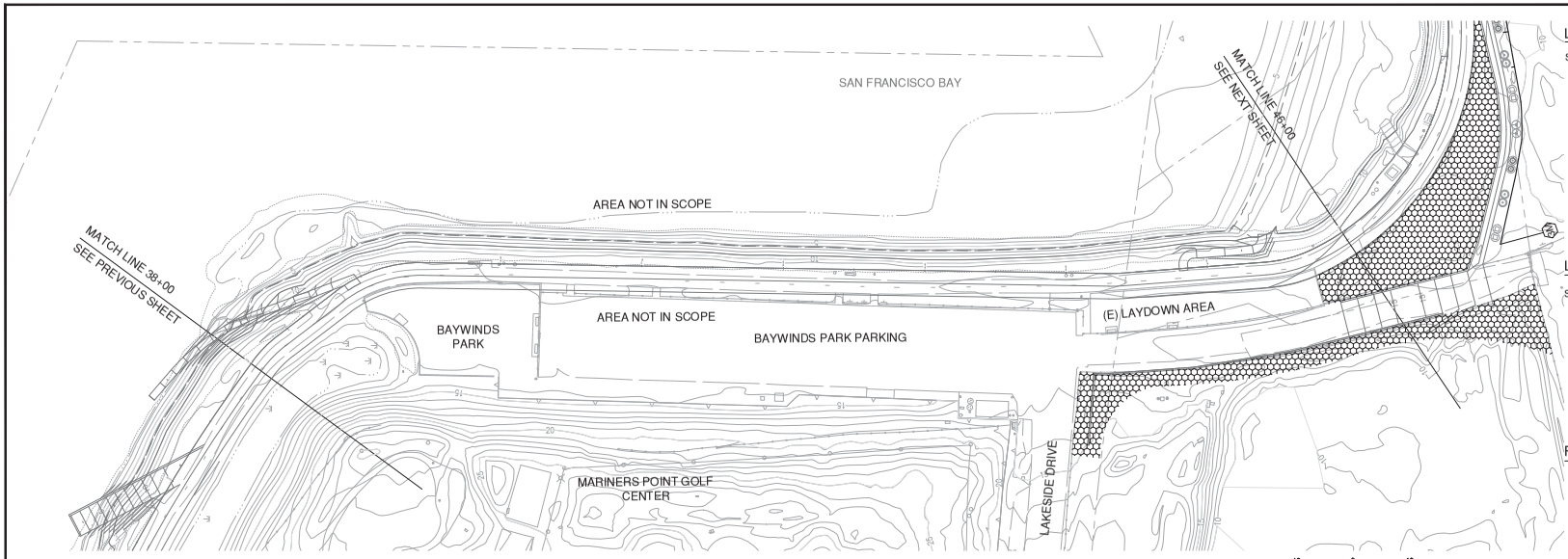

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.
2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804
3M 1" Manual Flush Valve: See Irrigation Details

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L-1.05
SHEET 286 OF 384
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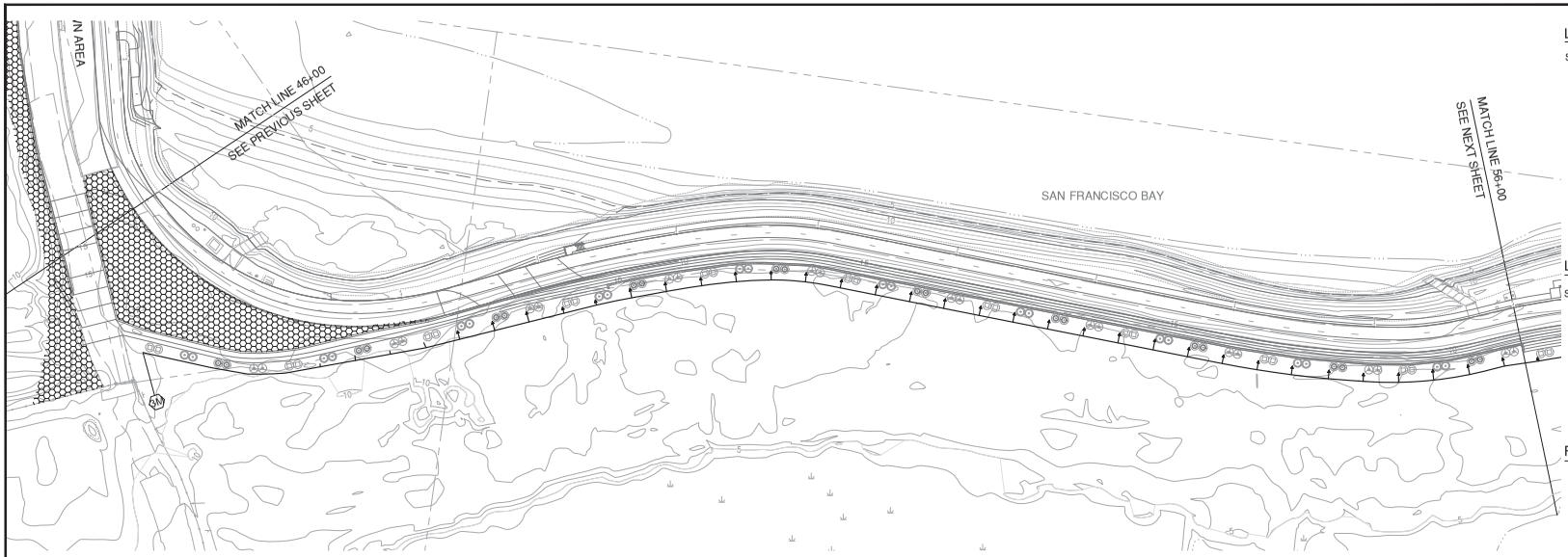

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.
2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804
3M 1" Manual Flush Valve: See Irrigation Details

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SCALE: 1 INCH = 40 FEET

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LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
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SHEET
L-1.06
SHEET 287 OF 384
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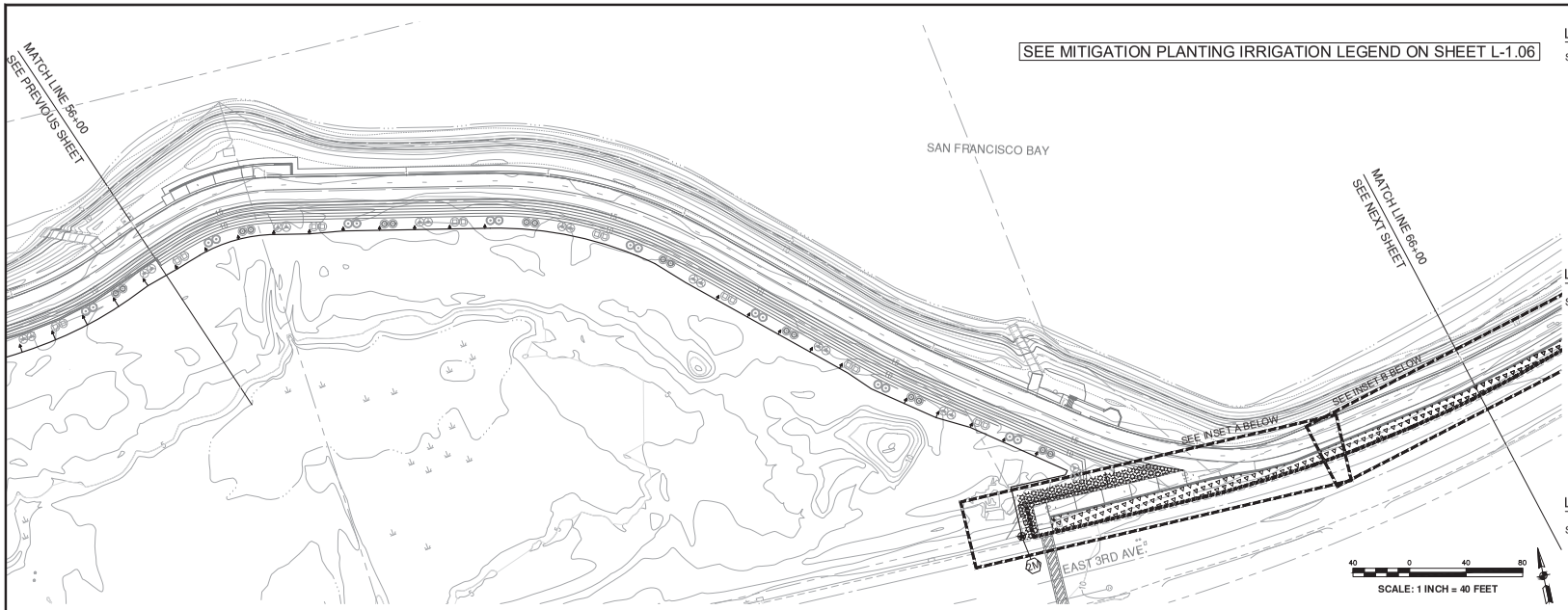


SEE MITIGATION PLANTING IRRIGATION LEGEND ON SHEET L-1.06

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

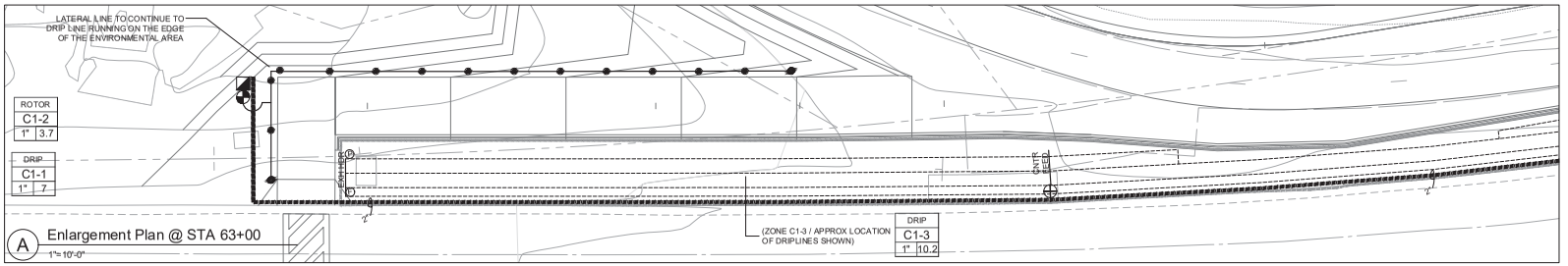
SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

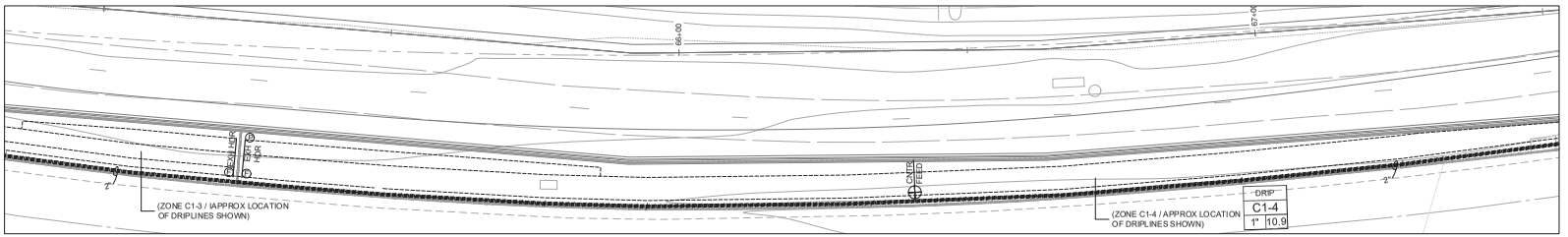
SYMBOL	MANUFACTURER	DESCRIPTION
		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.



A Enlargement Plan @ STA 63+00
1"= 10'-0"



B Enlargement Plan @ STA 63+00
1"= 10'-0"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	HS/ AP
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	HS/ AP
CHECKED BY:	AP
SURVEYED BY:	WILSEY—HAM

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BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
Mountain View, CA, 94040
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.07
SHEET 288 OF 384
CIP PROJ. NUMBER
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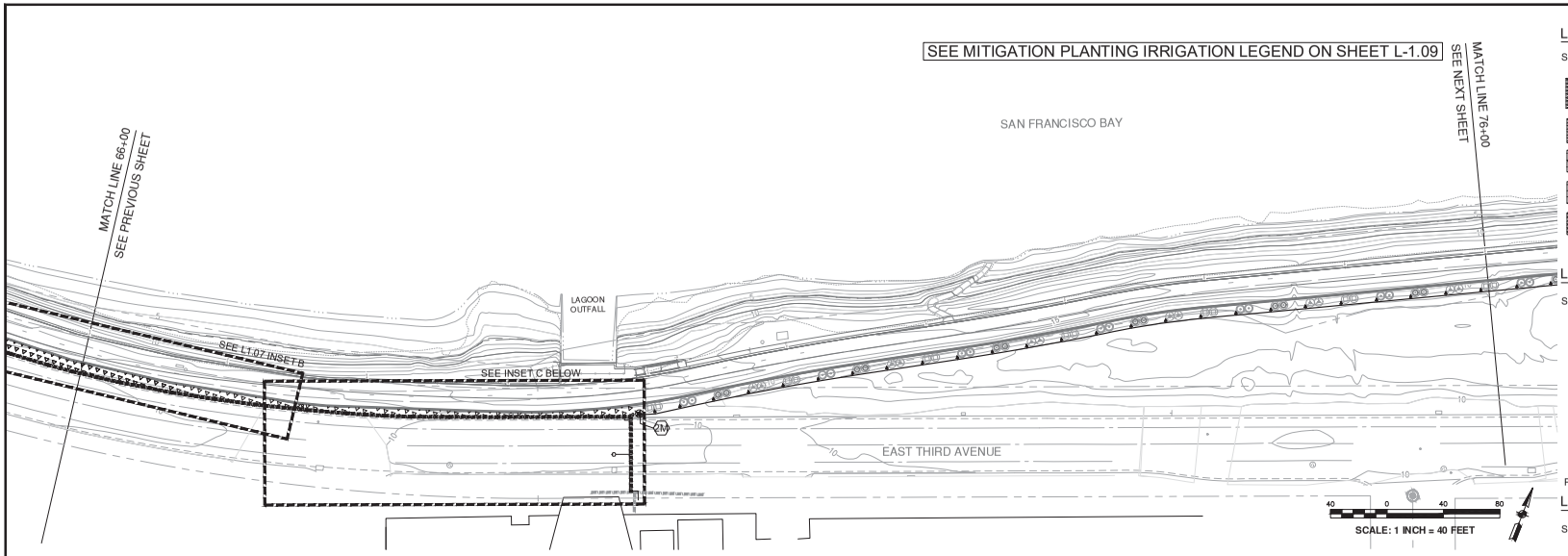
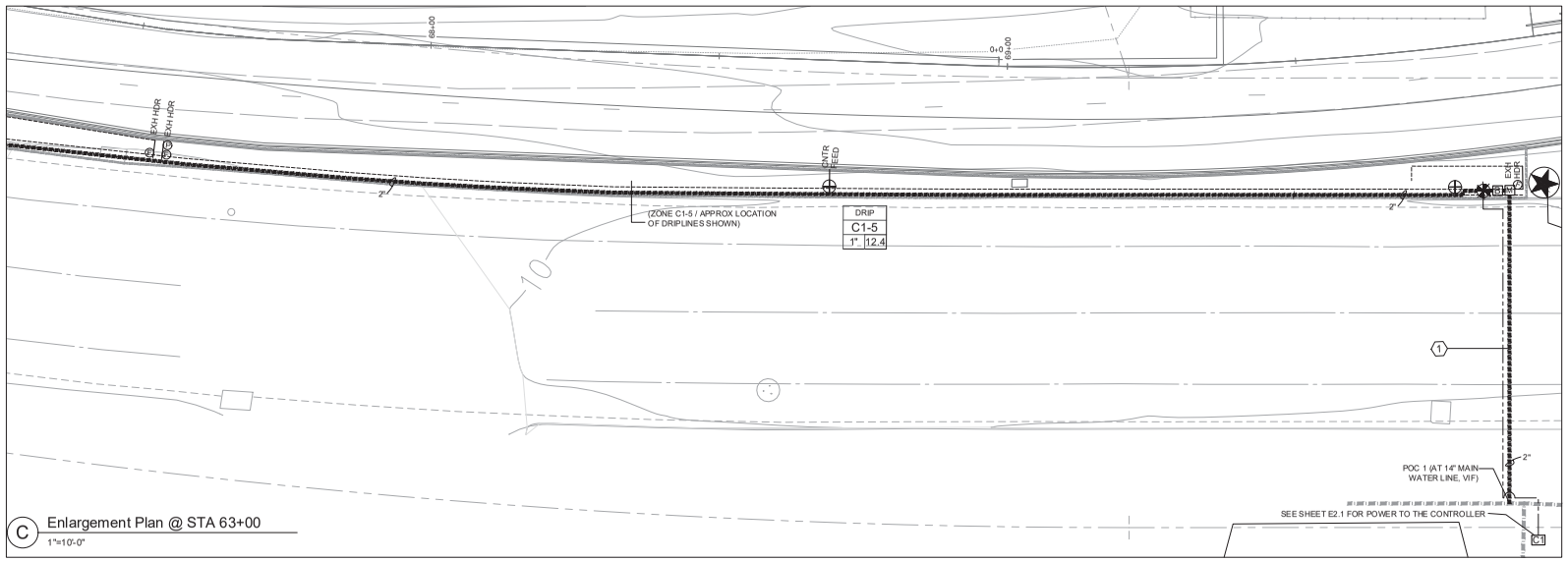




C Enlargement Plan @ STA 63+00
1"=10'-0"

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

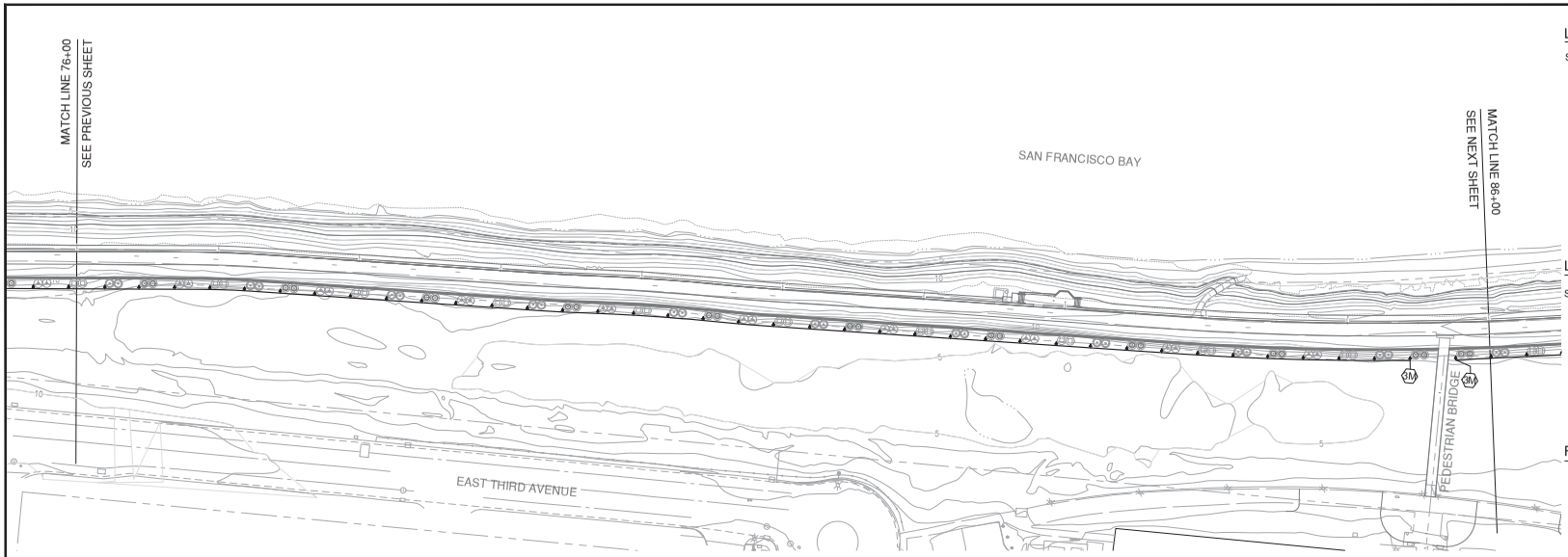
NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.08
SHEET 289 OF 384
CIP PROJ. NUMBER
CIP 301—657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
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BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
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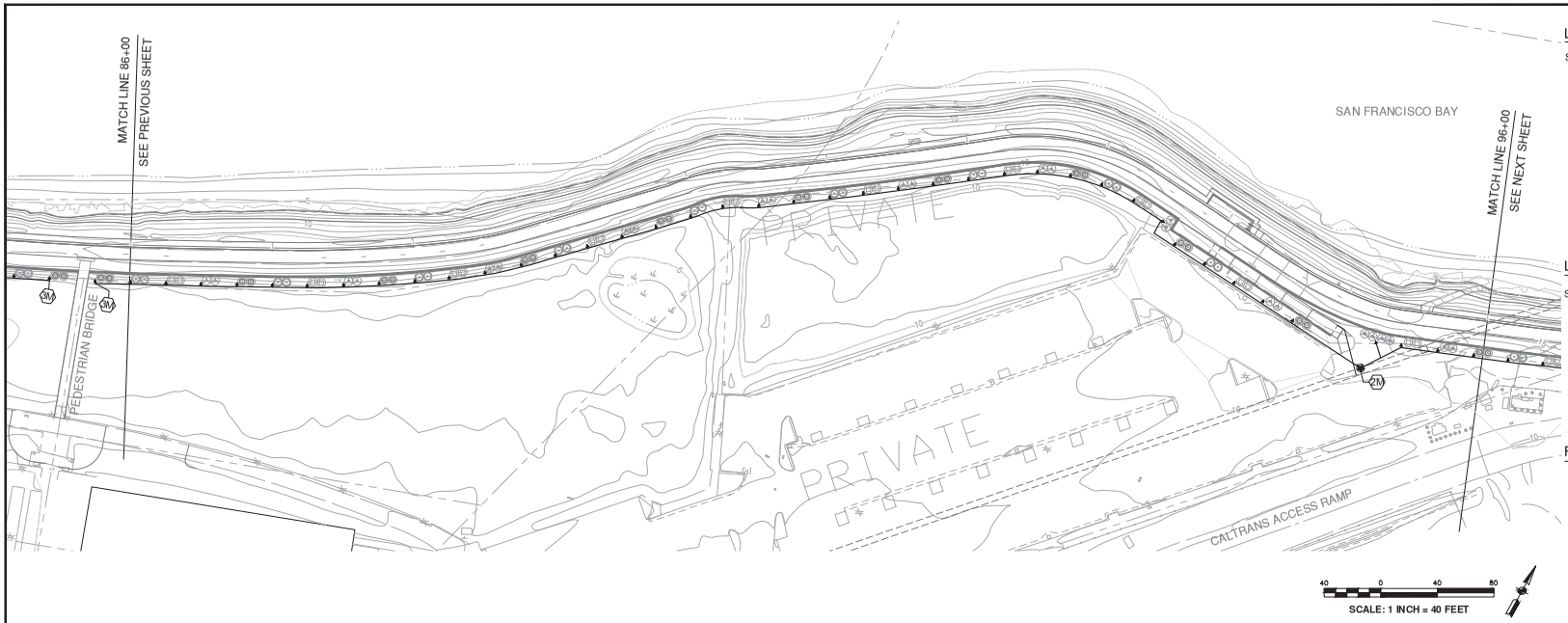
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.09
SHEET 290 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
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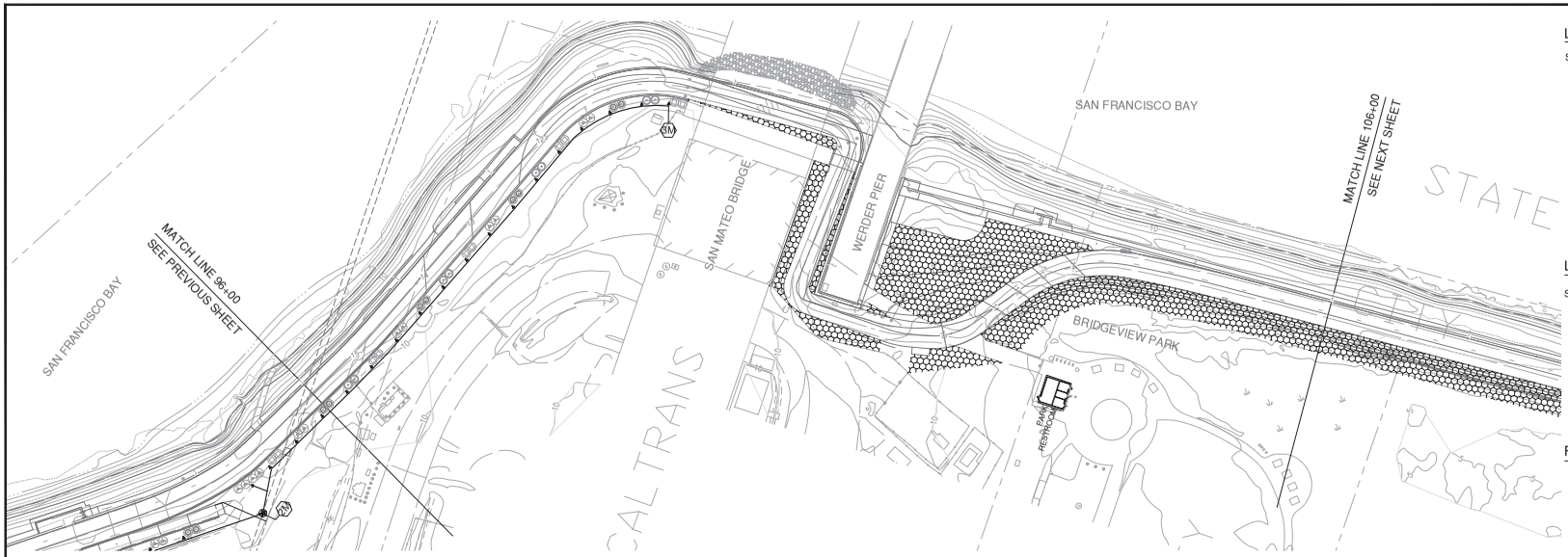
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.10
SHEET 291 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
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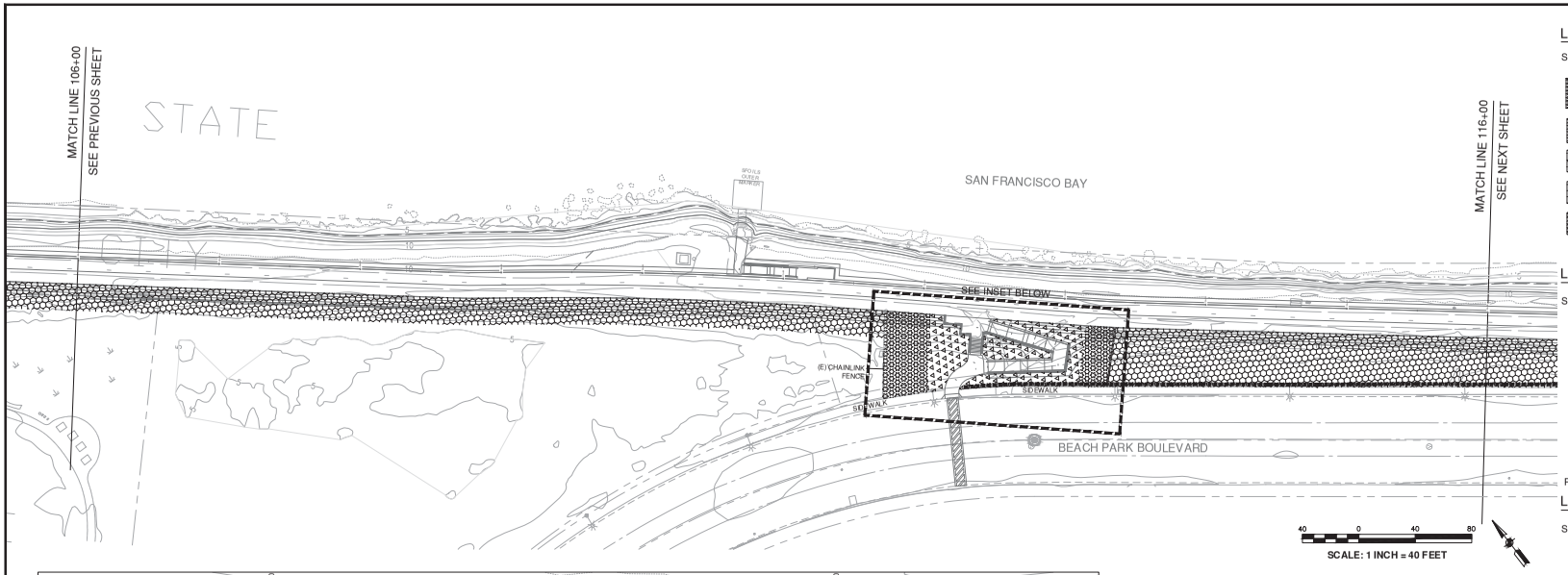
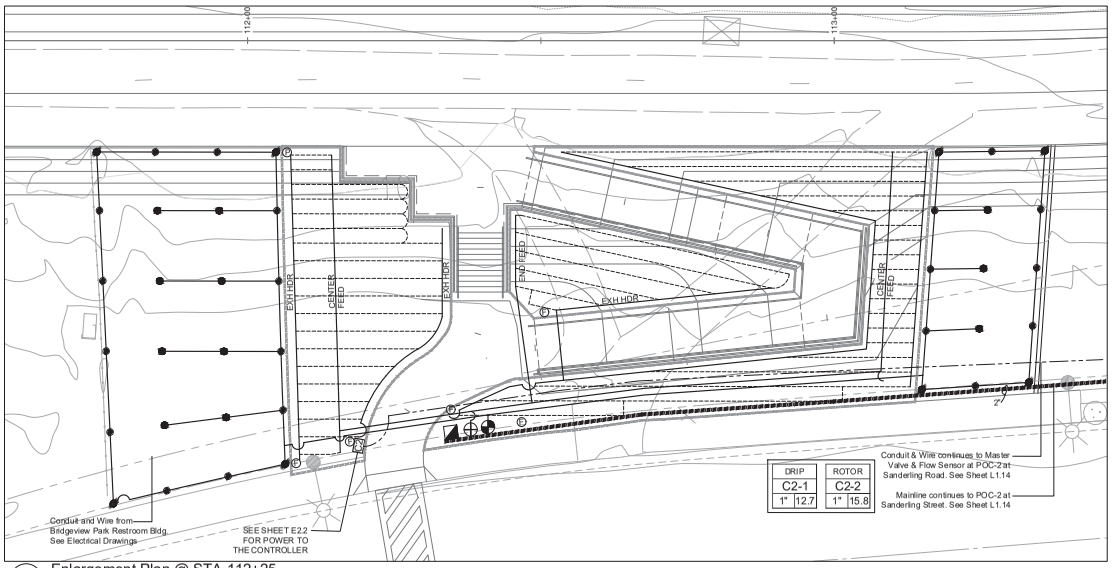
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.11
SHEET 292 OF 384
CIP PROJ. NUMBER
CIP 301-657





A Enlargement Plan @ STA 112+25
1"=10'-0"

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.
POC	Point of Connection	VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
Zone designation		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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BFS Landscape Architects
LANDSCAPE ARCHITECT
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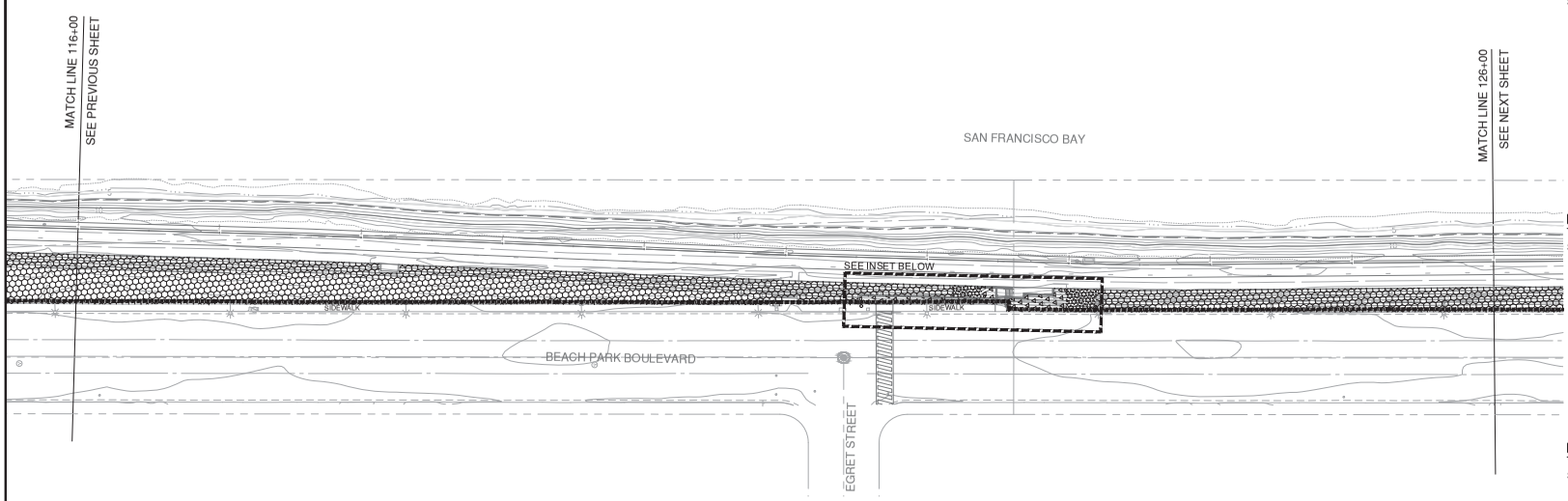
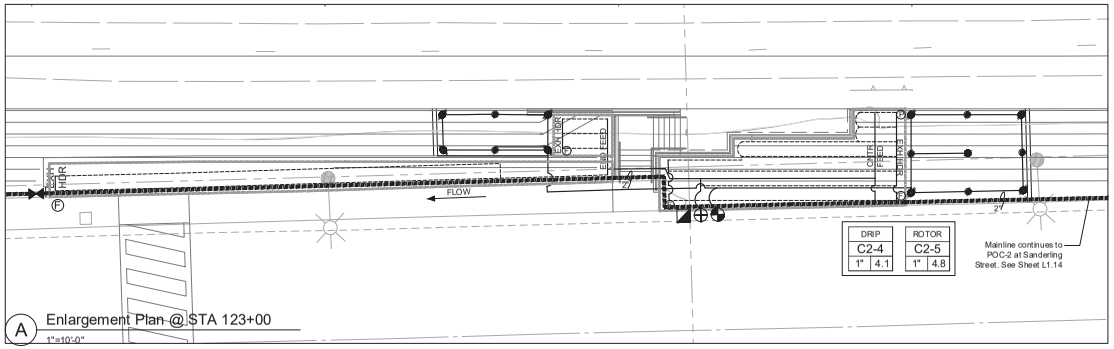
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.12
SHEET 293 OF 384
CIP PROJ. NUMBER
CIP 301—657



SCALE: 1 INCH = 40 FEET



A Enlargement Plan @ STA 123+00
1"=10'-0"

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
Zone designation		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
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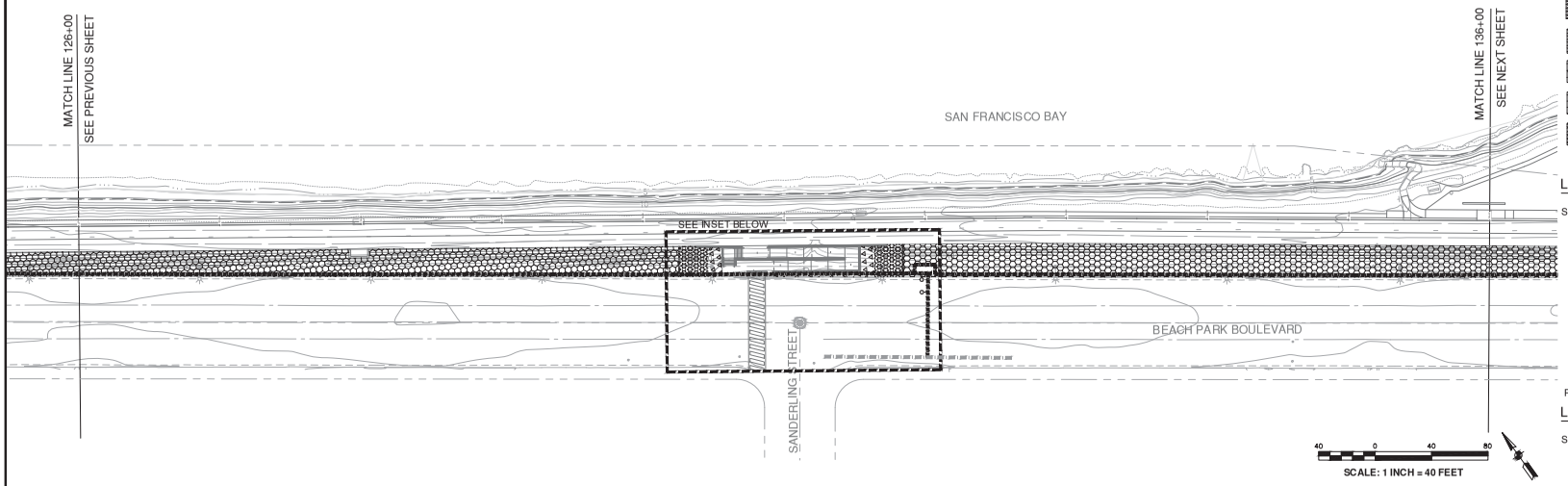
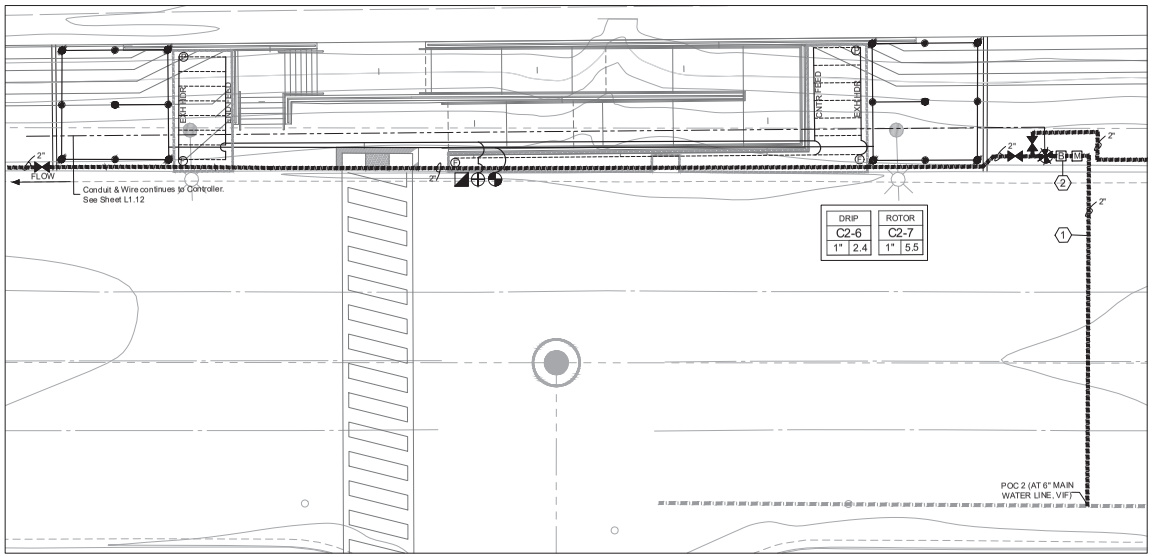
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

IRRIGATION PLAN

SHEET
L-1.13
SHEET 294 OF 384
CIP PROJ. NUMBER
CIP 301-657





A Enlargement Plan @ STA 131+00
1"=10'-0"

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection V/F Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
7			
6			
5			
4			
3			
2			
1		07/31/20	CONFORMED SET

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PHONE (650) 286-3270 FAX (650) 345-4626

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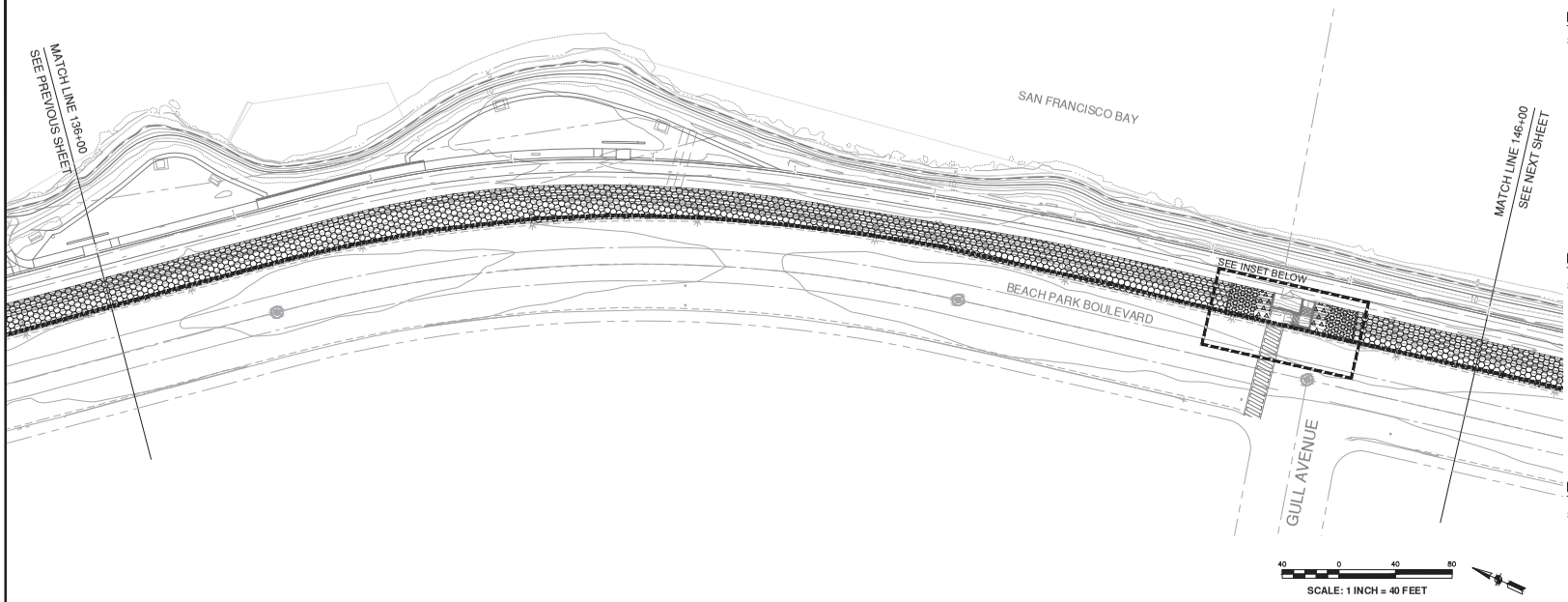
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.14
SHEET 295 OF 384
CIP PROJ. NUMBER
CIP 301-657



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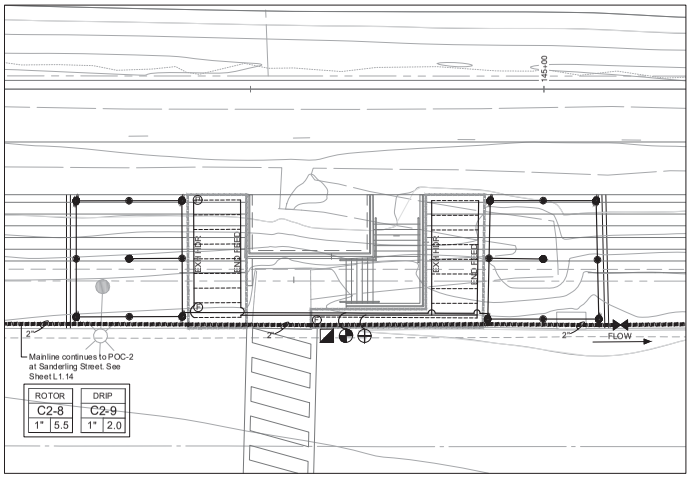
SCALE: 1 INCH = 40 FEET



A Enlargement Plan @ STA 144+75

1"= 10'-0"

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

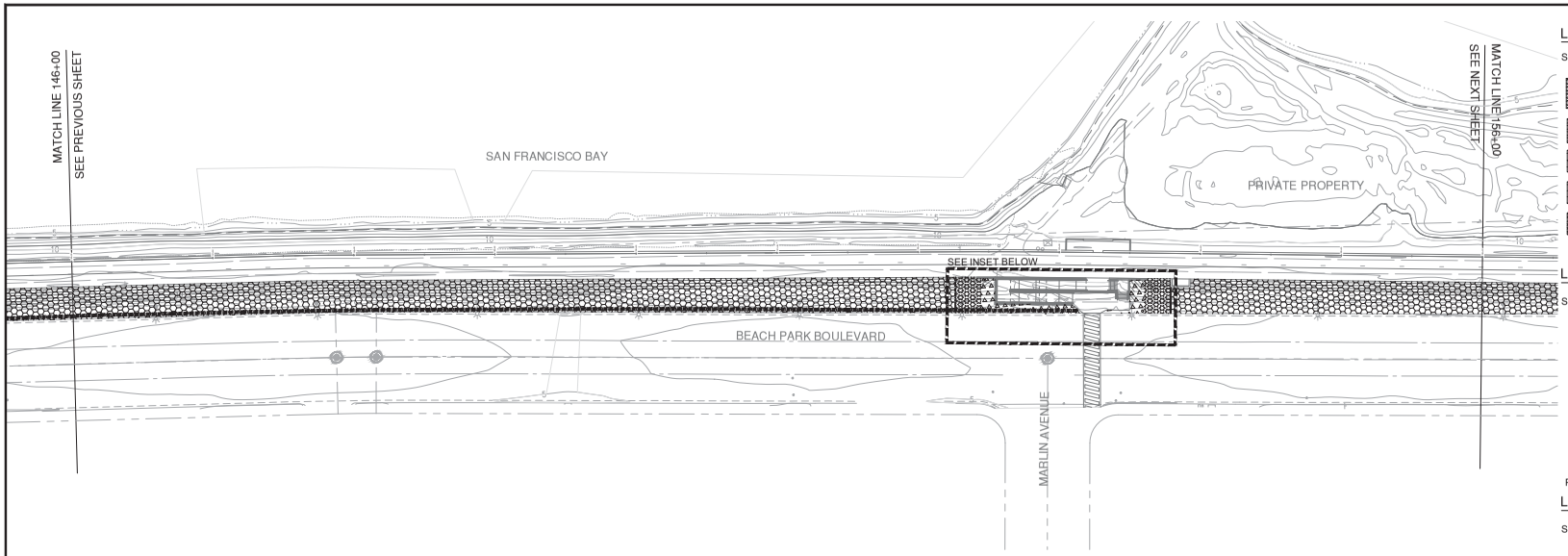
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

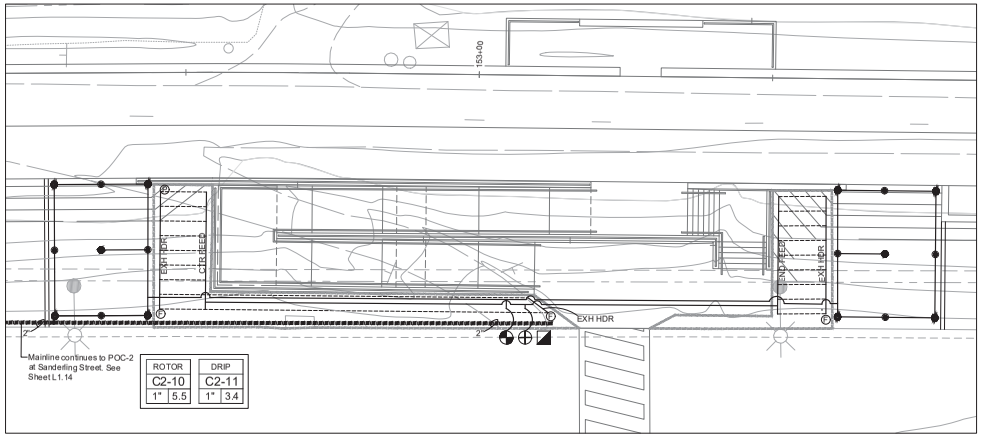
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

IRRIGATION PLAN

SHEET
L-1.15
SHEET 296 OF 384
CIP PROJ. NUMBER
CIP 301—657



SCALE: 1 INCH = 40 FEET



A Enlargement Plan @ 153+25
1"=10'-0"

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
Zone designation		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
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LANDSCAPE ARCHITECT
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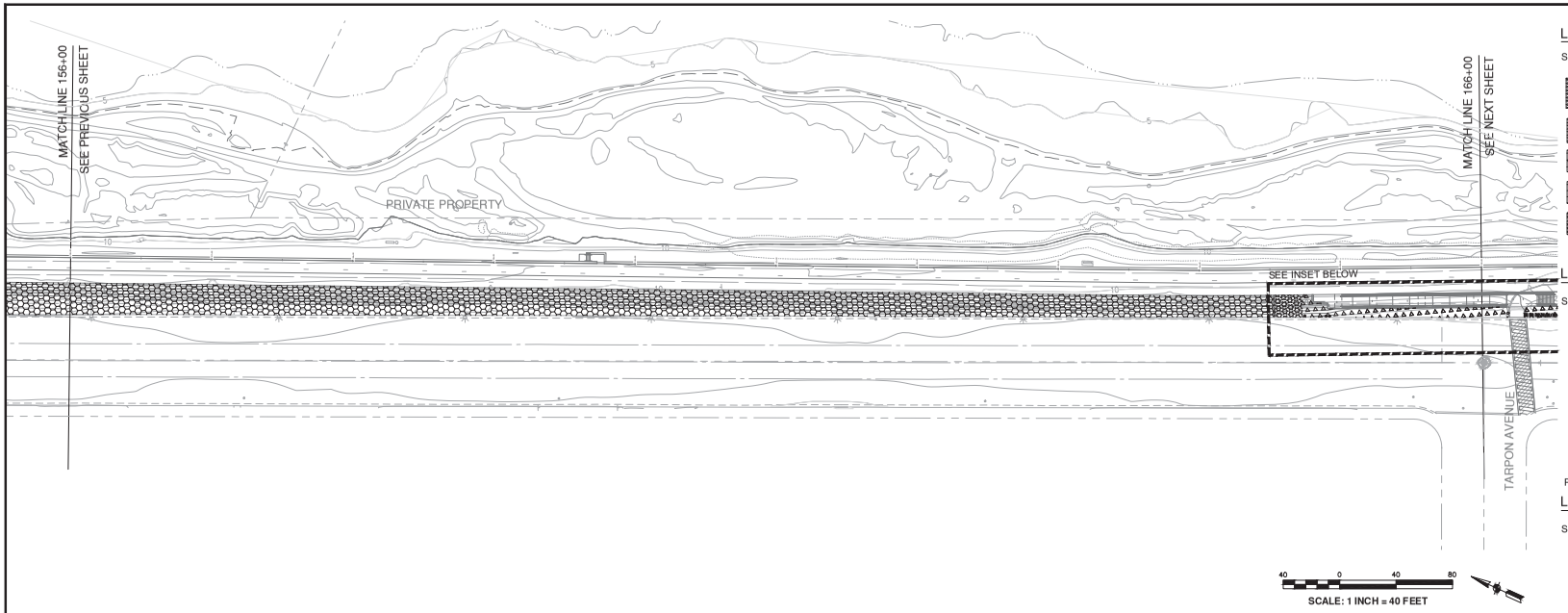
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

IRRIGATION PLAN

SHEET
L-1.16
SHEET 297 OF 384
CIP PROJ. NUMBER
CIP 301—657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

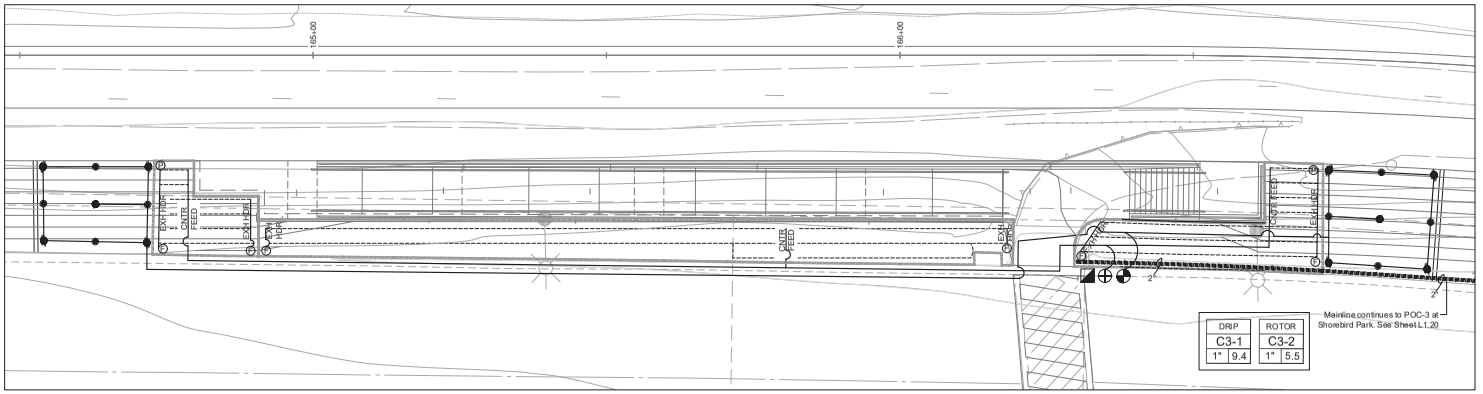
SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
Zone designation		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM, 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.



A Enlargement Plan @ STA 165+00
1"= 10'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
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BFS Landscape Architects
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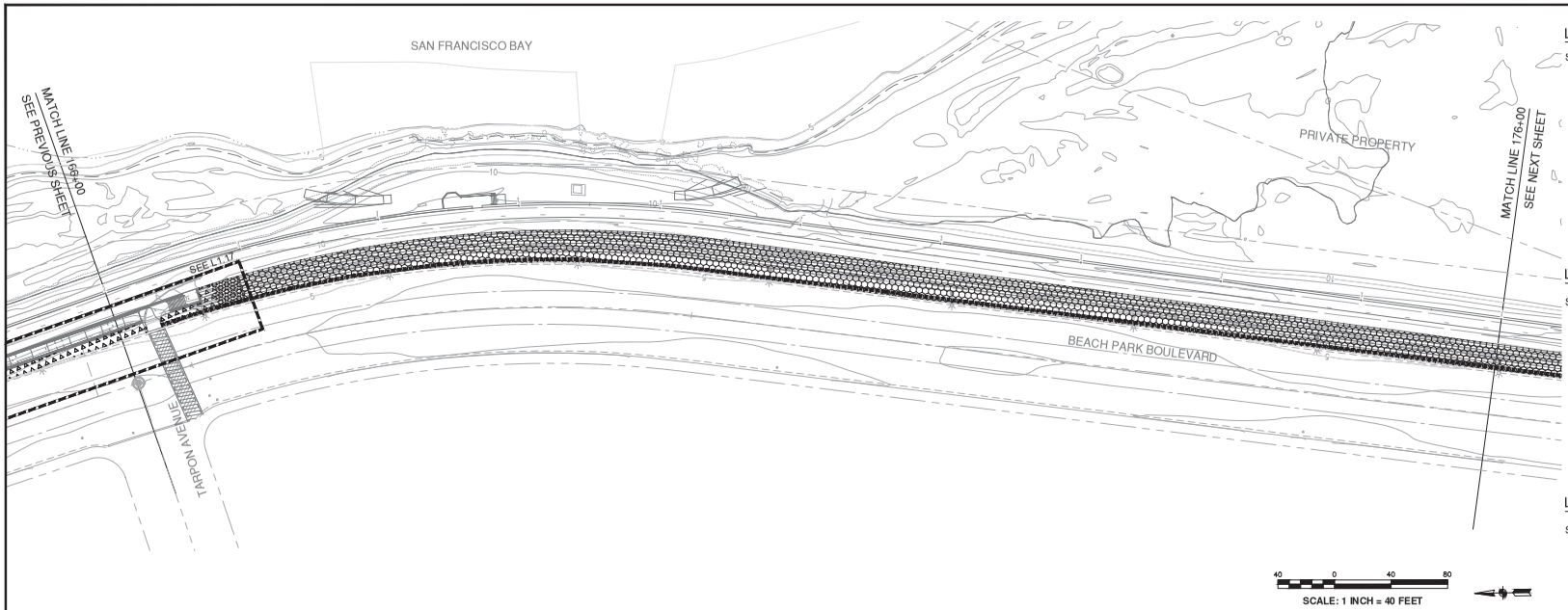
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.17
SHEET 298 OF 384
CIP PROJ. NUMBER
CIP 301—657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
Zone designation		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
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LANDSCAPE ARCHITECT
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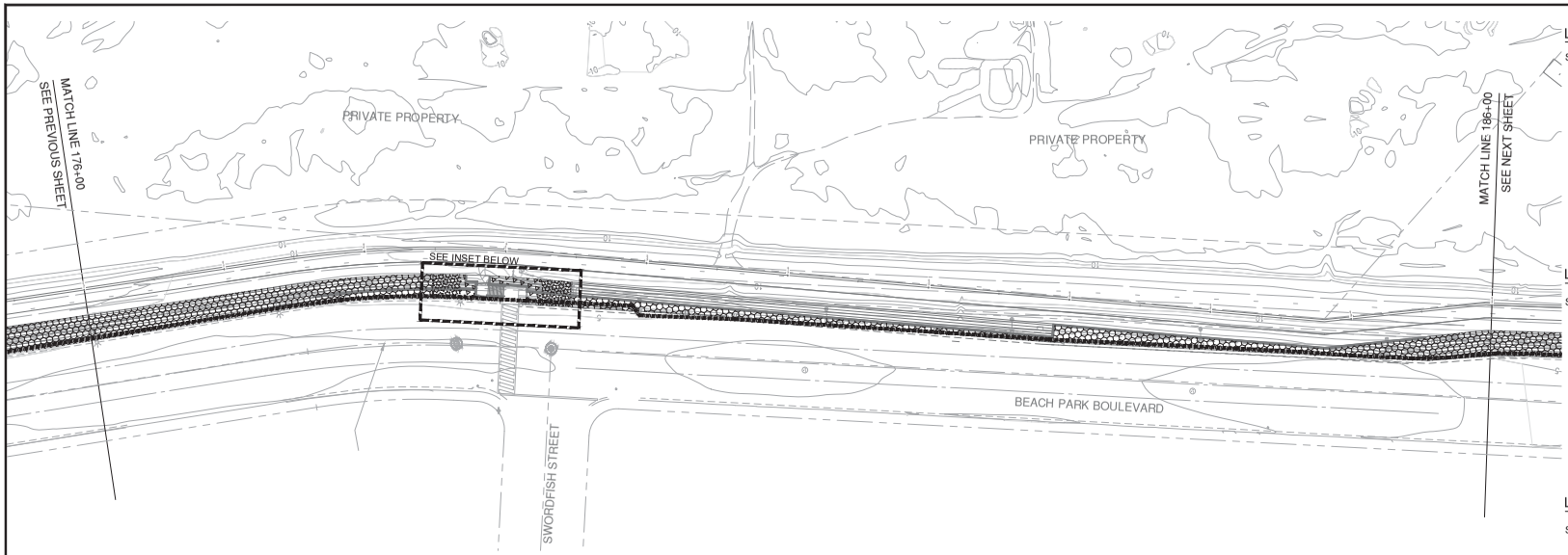
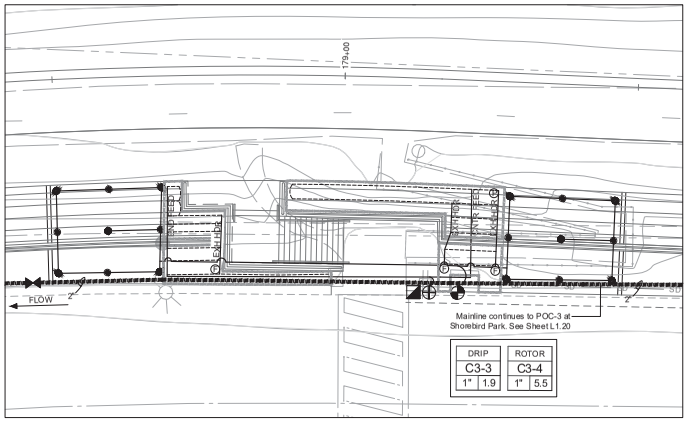
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.18
SHEET 299 OF 384
CIP PROJ. NUMBER
CIP 301—657





A Enlargement Plan @ STA 179+00
1"=10'-0"

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
Zone designation		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
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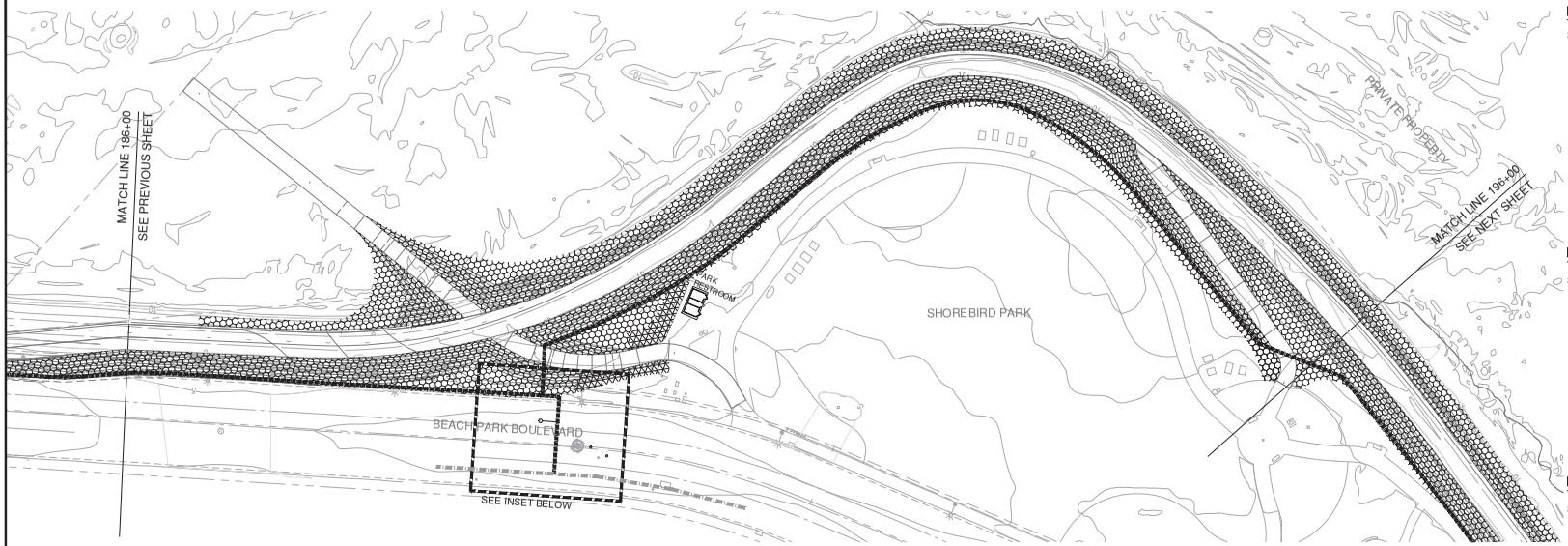
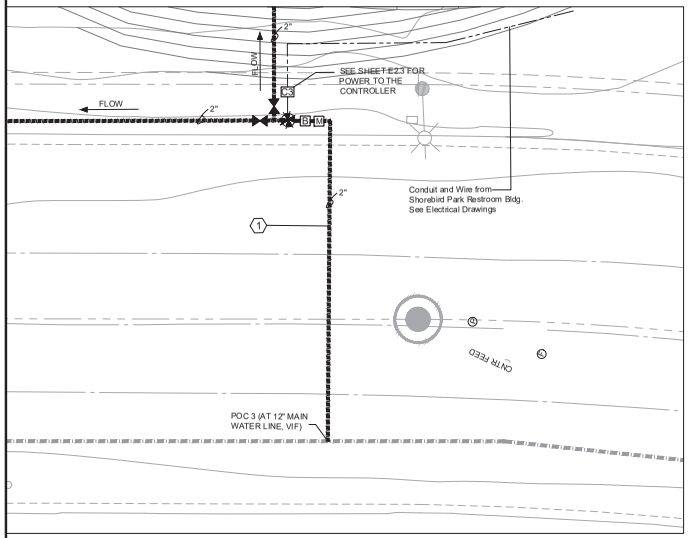
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.19
SHEET 300 OF 384
CIP PROJ. NUMBER
CIP 301—657



SCALE: 1 INCH = 40 FEET



A POC Enlargement
1"=10'-0"

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
X"		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
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LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
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LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
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REFERENCE NOTES

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2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
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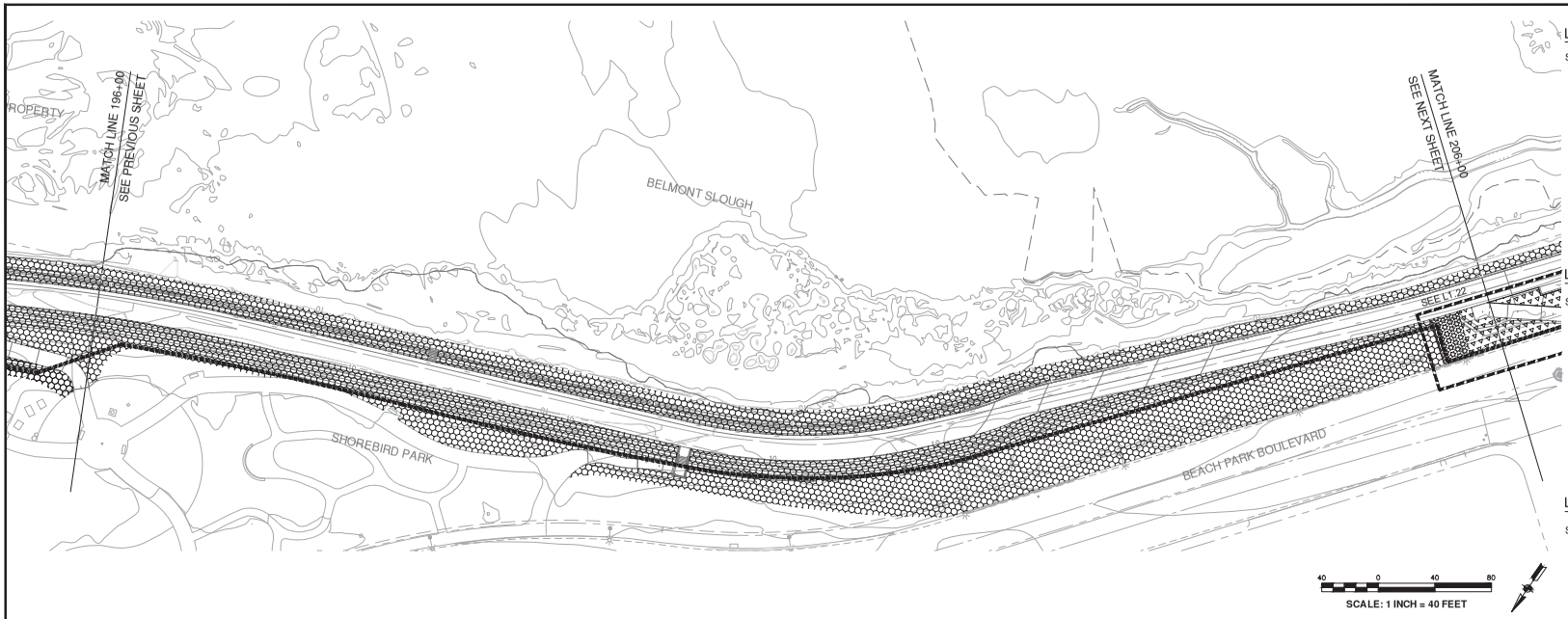
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.20
SHEET 301 OF 384
CIP PROJ. NUMBER
CIP 301—657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
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	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
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POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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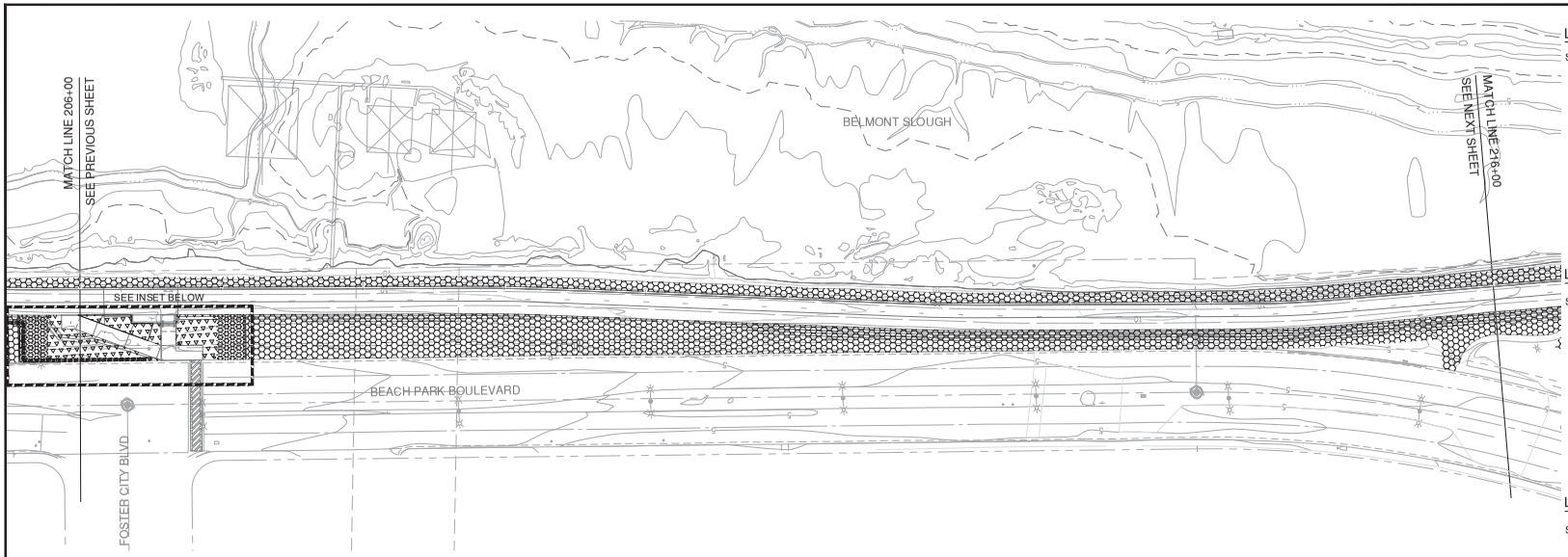
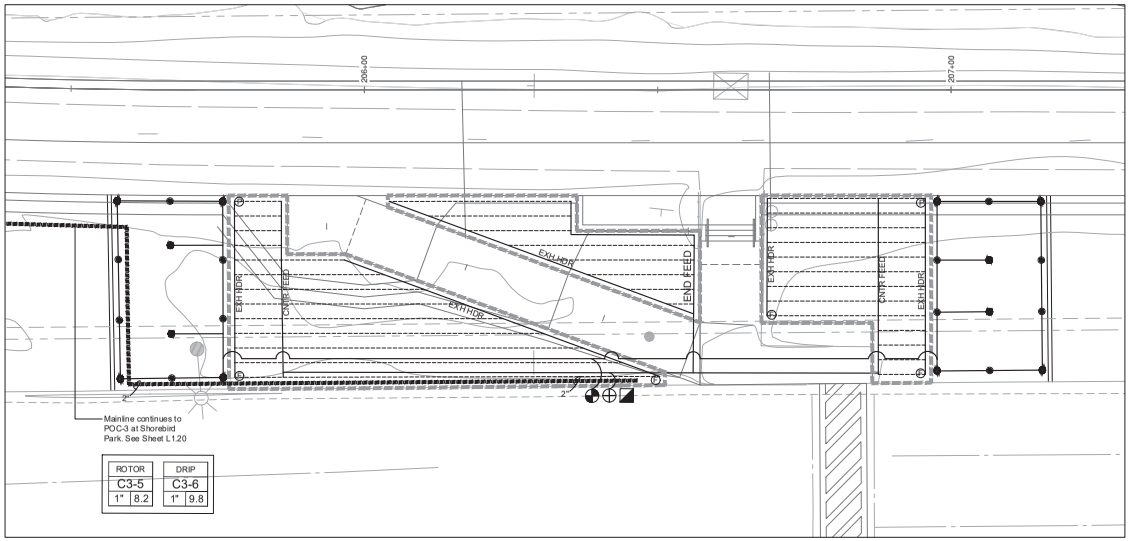
BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.21
SHEET 302 OF 384
CIP PROJ. NUMBER
CIP 301—657





A Enlargement Plan @ STA 206+50
1"=10'-0"

40 0 40 80
SCALE: 1 INCH = 40 FEET

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - IRRIGATION POINT OF CONNECTION

SYMBOL	MANUFACTURER	DESCRIPTION
M	Sensus	SR2 Water Meter (1"). See Civil Dwgs
B	Febco	(1-1/2") LF825Y Backflow Preventer w/ Bronze Wye Strainer. See Civil Dwgs. Enclosure & Blanket.
	Superior	1-1/2" - 3300 Normally Open Master Valve
	Calsense	FM-1B 1" Flow Sensor, Connect to Controller.
C	Calsense	CS3000 2-Wire Controller, SS Pedestal Enclosure, Cellular Modem, Stubby Antenna. See Specs
		1" Conduit: 24" Depth minimum. For MV & FS wire and dedicated common.

POC Point of Connection VIF Verify in Field UON Unless Otherwise Noted

LEGEND - IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Main Line: 24" minimum cover. Sch/Class per Specs. See Plan for sizes.
		Lateral Line / Drip Irrigation Supply Line: 18" min. cover, 24" under AC paving Sch/Class per Specs. See chart for size.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan.
	Rainbird / Toro	3/4" Quick Coupler. Single lug, 2-pc body, locking cover.
	NDS	Full Port, True Union, PVC Ball Valve: Line Size

LEGEND - STREAM ROTORS

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	PSI	GPM	RAD	PRECIP In/hr
	Hunter MP Rotator	MP800SR-90	30	0.17	8'	0.45
	Hunter MP Rotator	MP800SR-180	30	0.33	8'	0.45
	Hunter MP Rotator	MP800SR-360	30	0.66	8'	0.46

LEGEND - DRIP IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		SUB-SURFACE: Netafim Techline CV / Rainbird XFCV. Dripper interval 12" O.C. Row spacing 1 per row of plants UON. Dripper flow 0.4-0.6 GPH. See Specs. Install manual flushing valves & pressure gauges as shown. Supply / Exhaust Header = Rainbird QF Dripline Header, 18" spacing. Cap barbed outlets not used.
	Griswold	2000 / 2030 Remote Control Valve: Size as shown on plan
	Netafim	Disc Filter, 120-140 mesh, 3/4" @ 1" valves
	Netafim	1" In-line Wide Range Pressure Regulator (0.5 - 35 GPM) 40 PSI preset up to 4.4 GPM. 50 PSI preset over 4.5 GPM

REFERENCE NOTES

1. See Civil Drawings for trenching and sidewalk placement & restoration
2. See Civil Drawing C.11 for retaining wall around backflow pad.

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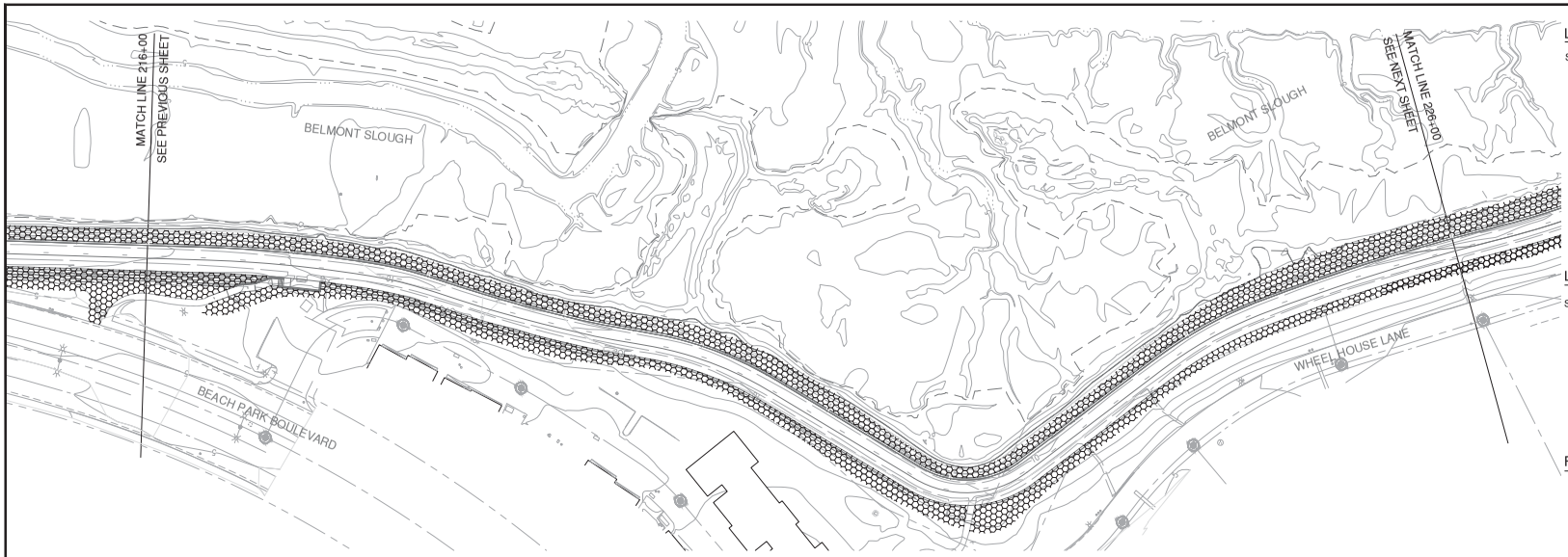
BFS Landscape Architects
LANDSCAPE ARCHITECT
1980 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

IRRIGATION PLAN

SHEET
L-1.22
SHEET 303 OF 384
CIP PROJ. NUMBER
CIP 301—657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

80 40 80

SCALE: 1 INCH = 40 FEET

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
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LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
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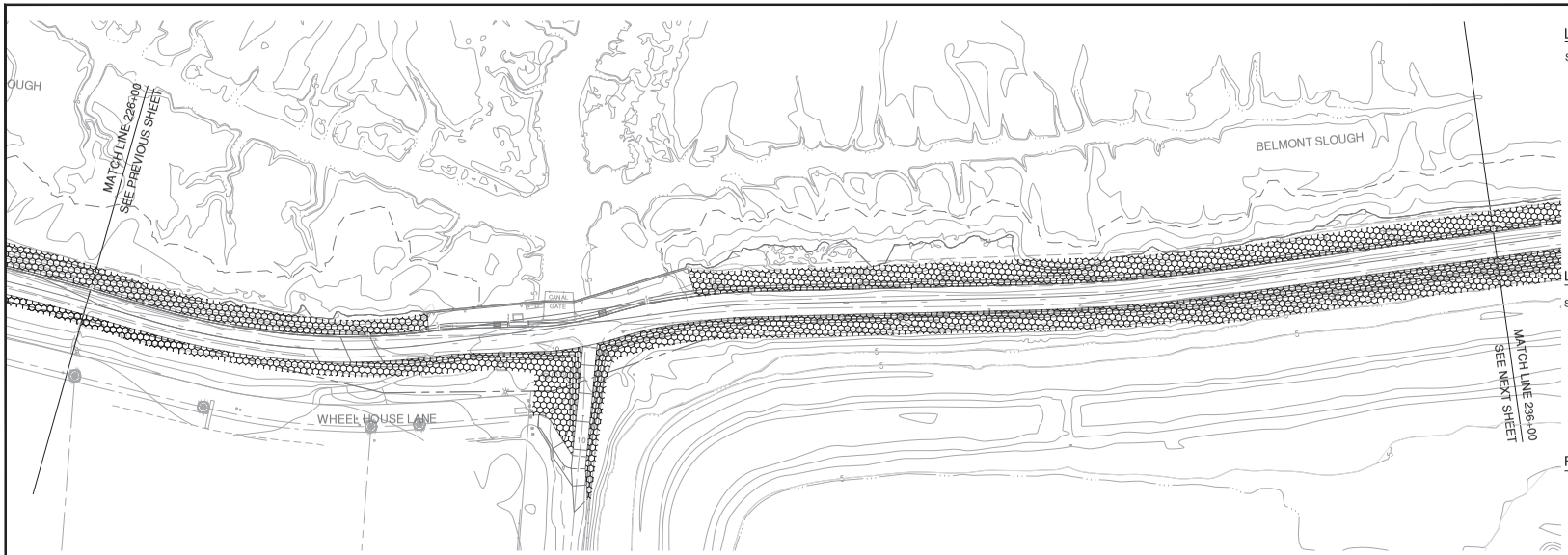
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

IRRIGATION PLAN

SHEET
L-1.23
SHEET 304 OF 384
CIP PROJ. NUMBER
CIP 301–657



40 40 80

SCALE: 1 INCH = 40 FEET

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

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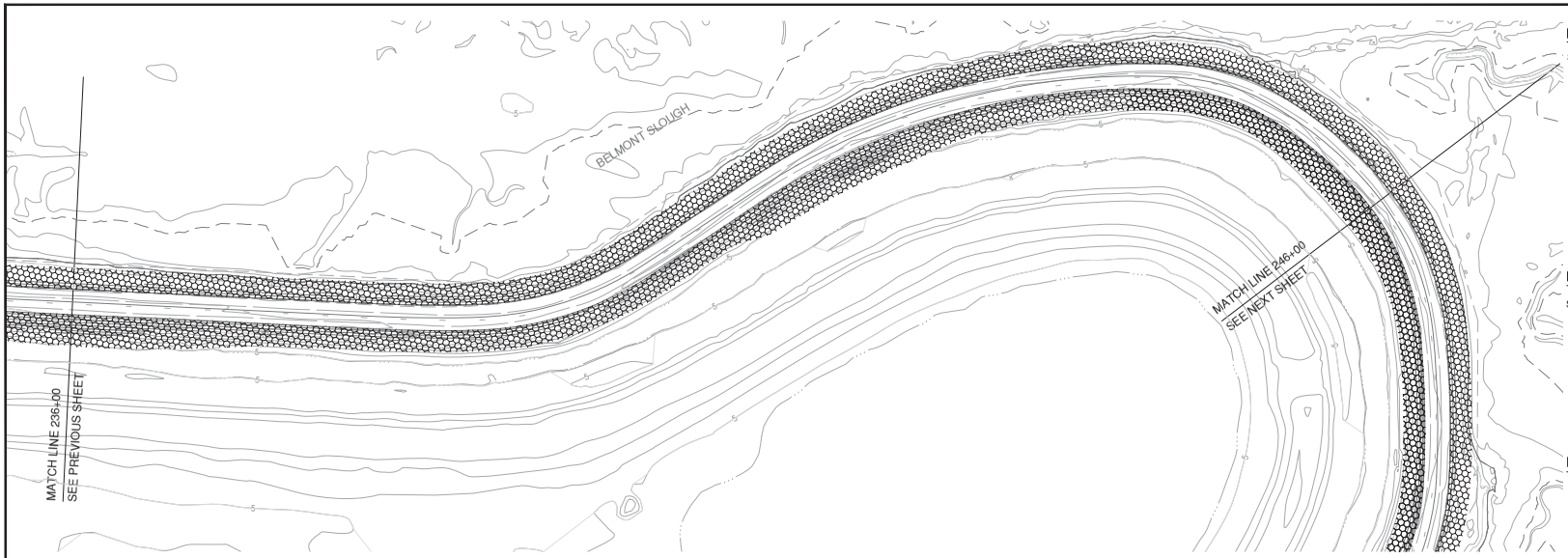
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.24
SHEET 305 OF 384
CIP PROJ. NUMBER
CIP 301–657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.
2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804
3M 1" Manual Flush Valve: See Irrigation Details

40 0 40 80

SCALE: 1 INCH = 40 FEET

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LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
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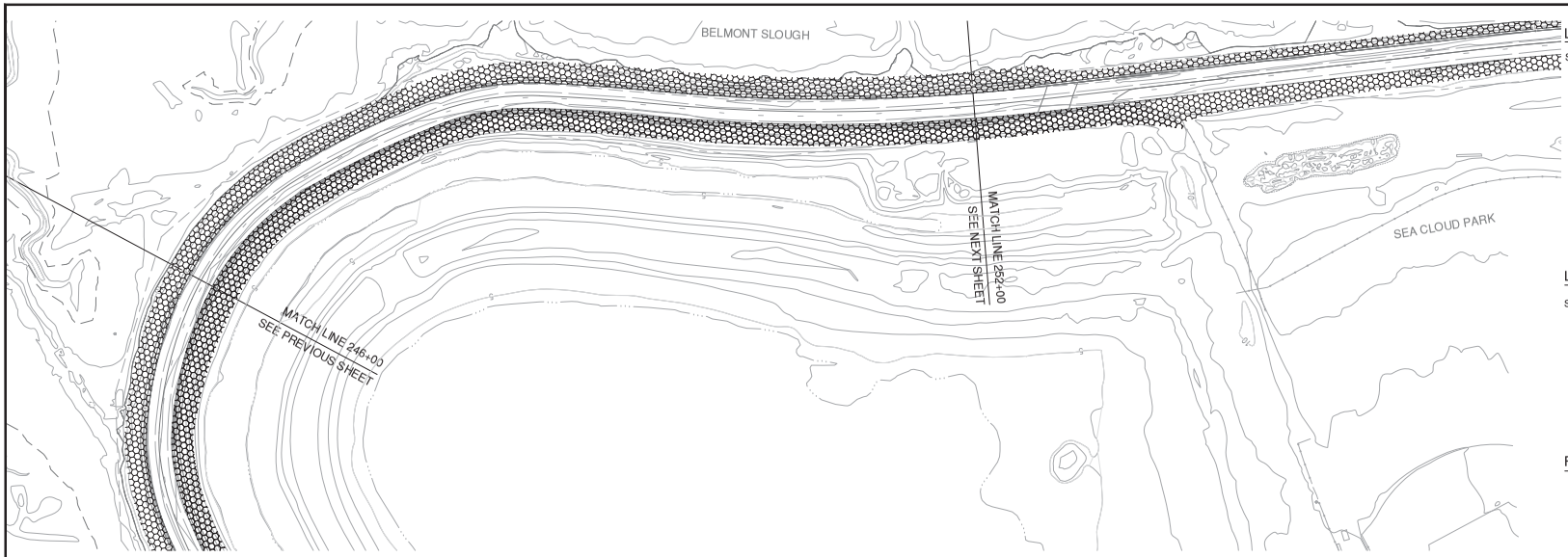
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.25
SHEET 306 OF 384
CIP PROJ. NUMBER
CIP 301-657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE: 4/24/2020
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BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
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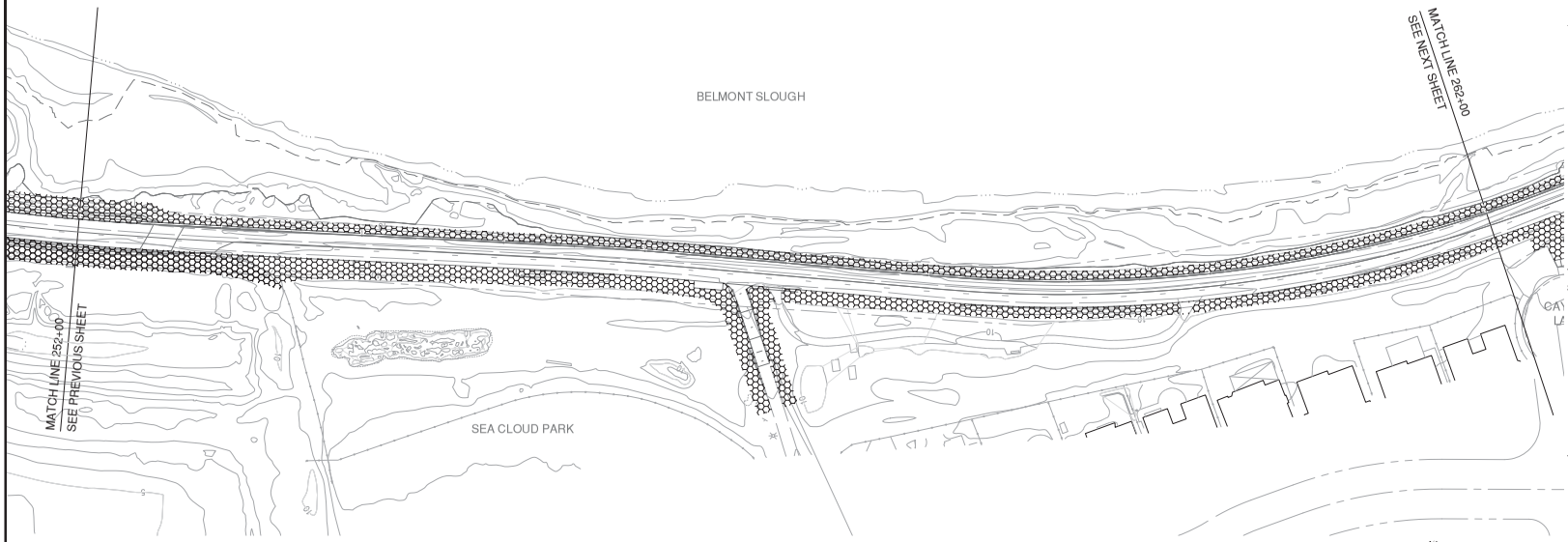
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.26
SHEET 307 OF 384
CIP PROJ. NUMBER
CIP 301-657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.
2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804
3M 1" Manual Flush Valve: See Irrigation Details

40 0 40 80
SCALE: 1 INCH = 40 FEET

DATE: 4/24/2020
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LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
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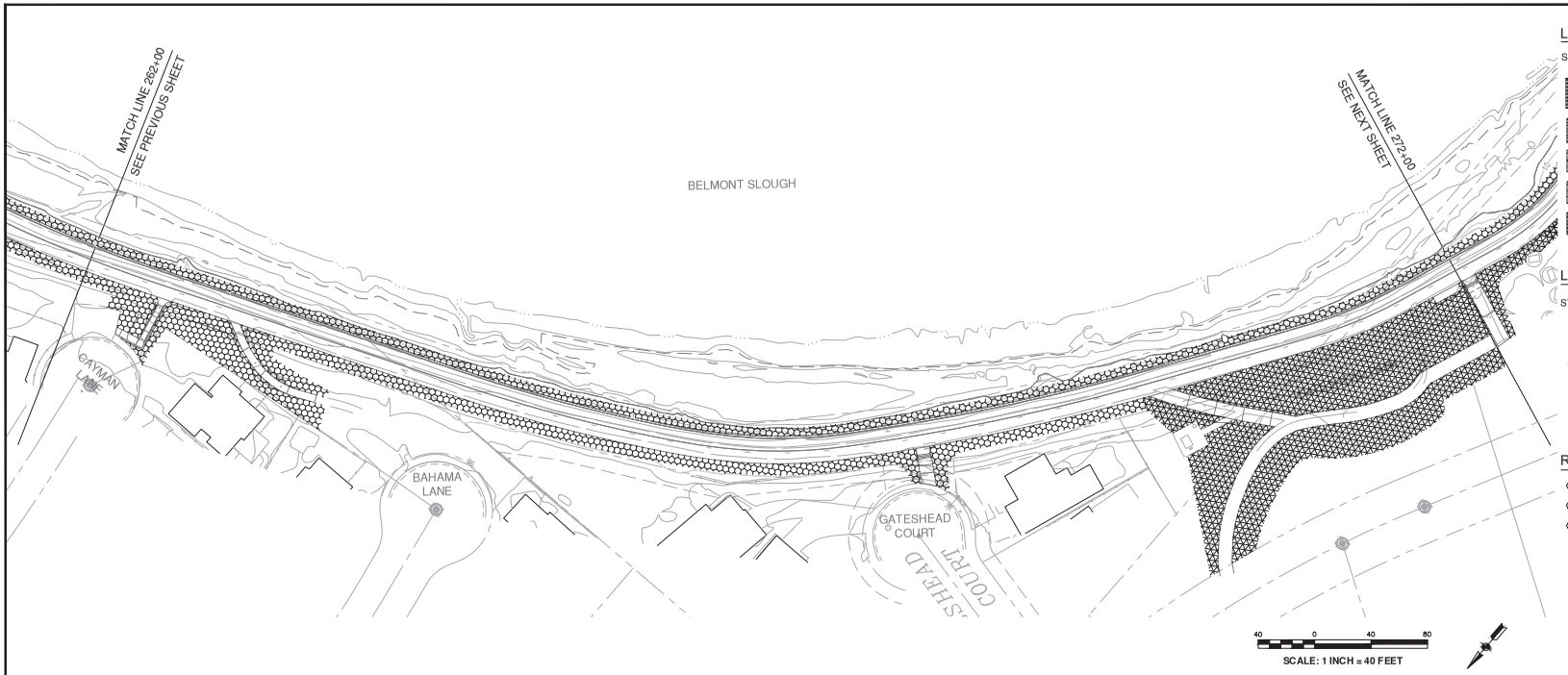
CIP 301-657

IRRIGATION PLAN

SHEET
L-1.27
SHEET 308 OF 384
CIP PROJ. NUMBER
CIP 301-657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

DATE: 4/24/2020
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BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
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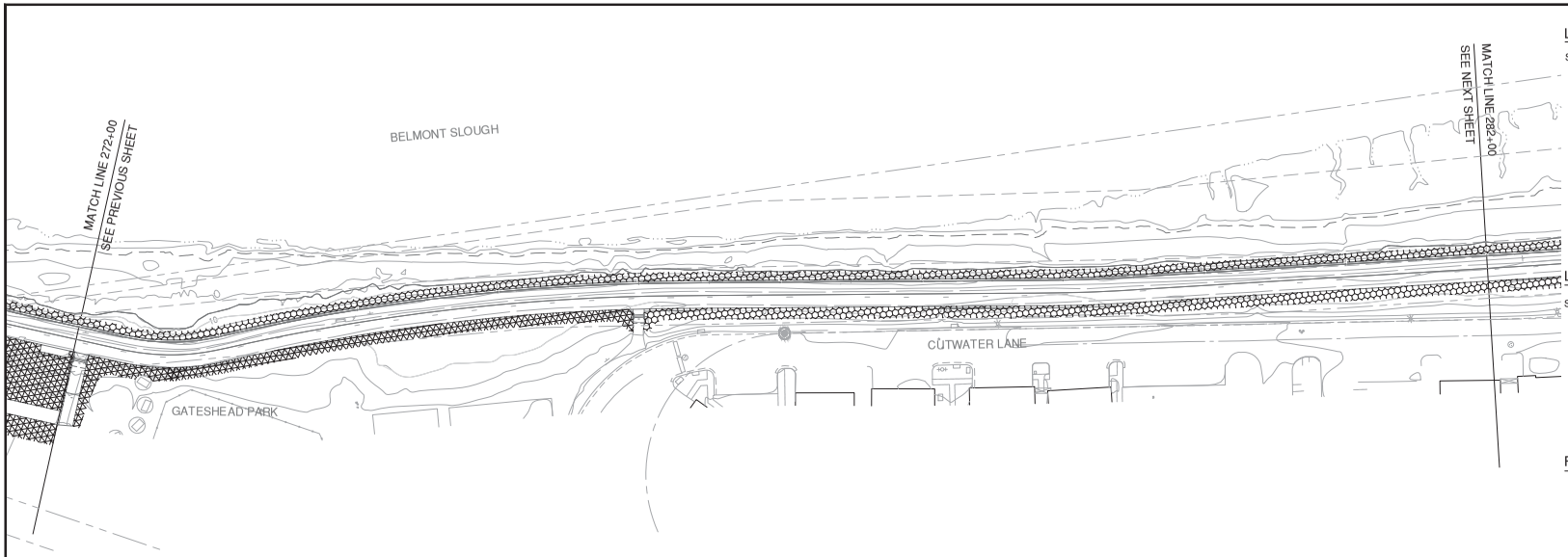
SHEET
L-1.28
SHEET 309 OF 384
CIP PROJ. NUMBER
CIP 301–657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

40 0 40 80

SCALE: 1 INCH = 40 FEET

DATE: 4/24/2020
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LANDSCAPE ARCHITECT
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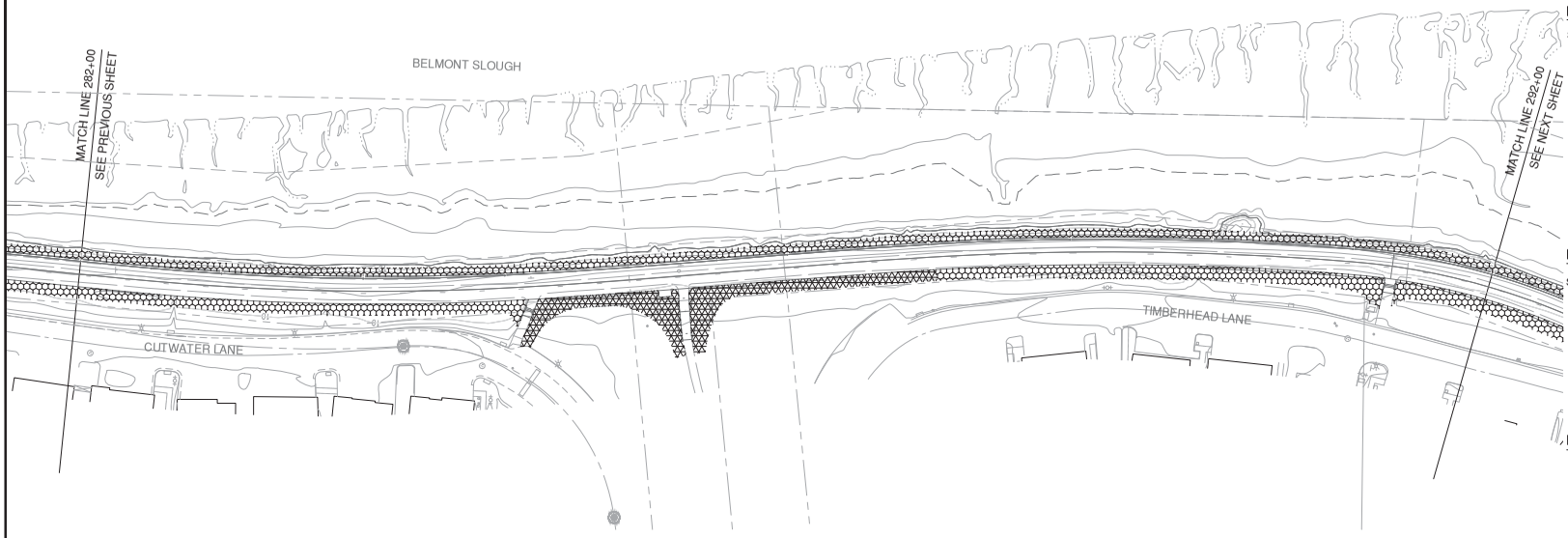
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.29
SHEET 310 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

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LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.30
SHEET 311 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
	New Irrigation using Stream Rotors with low (< 0.7" / hr per MWELO 2015) precipitation rate nozzles.
	Irrigation adjustment. See General Note.24 Sheet L1.00
	New Irrigation using Sub-surface Drip Irrigation
	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
		Existing 4" Park Mainline: VIF
	Varies	Cam Coupler. See Reference Notes
▲	Salco / GPH Specflow	1/2" FPT, 4.0 GPH pressure compensating bubblers w/ check-valve, connected to 1/2" I.D. PVC Flex Hose distribution pipes. (1) emitter per plant. See Specs. See Irrigation Details.

REFERENCE NOTES

1M 2" Cam Coupler in Valve Box: See 7/L-804 Connect to park main line.

2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

3M 1" Manual Flush Valve: See Irrigation Details

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
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1180 W El Camino Real / 12
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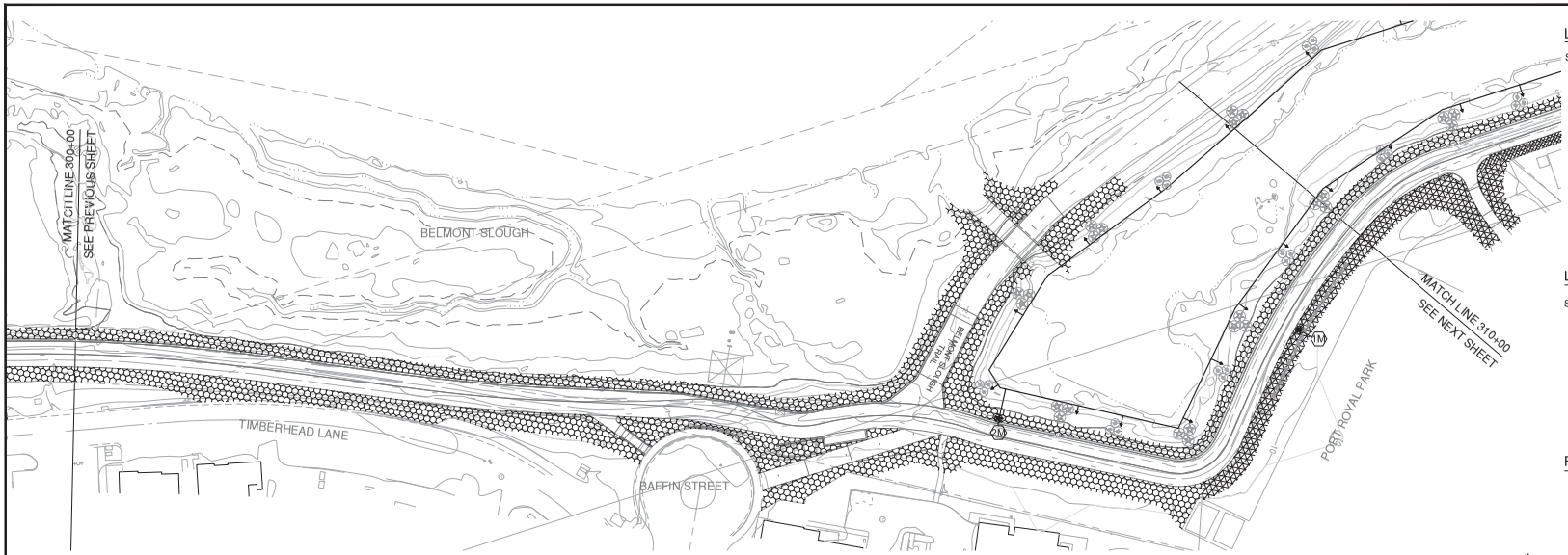
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.31
SHEET 312 OF 384
CIP PROJ. NUMBER
CIP 301-657



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LEGEND - MITIGATION PLANTING IRRIGATION

SYMBOL	MANUFACTURER	DESCRIPTION
		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
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REFERENCE NOTES

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2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804

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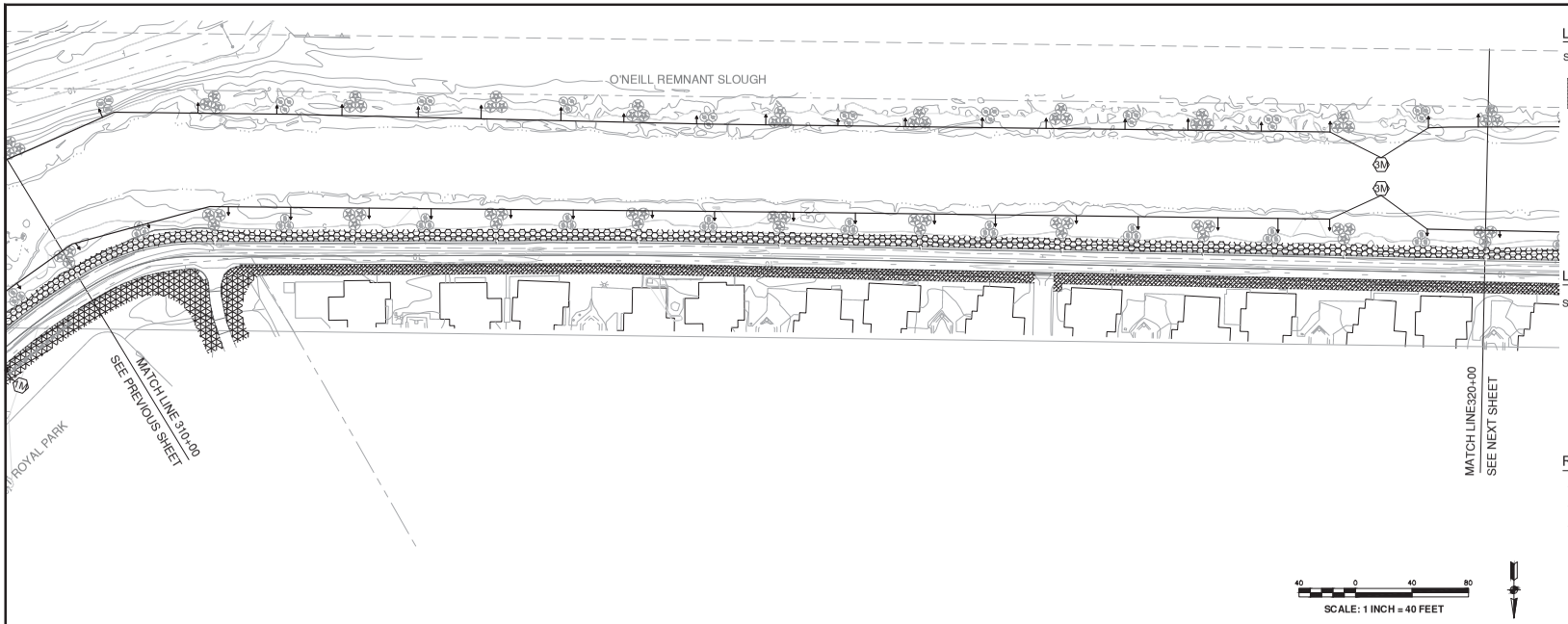
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.32
SHEET 313 OF 384
CIP PROJ. NUMBER
CIP 301-657



LEGEND - IRRIGATION ZONES

SYMBOL	DESCRIPTION
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	Irrigation adjustment. See General Note.24 Sheet L1.00
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	No Irrigation, UON
	Mulch Only, See Specs

LEGEND - MITIGATION PLANTING IRRIGATION

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		Drip Irrigation Supply Line: On surface. UVR Sch 40 PVC Brown Pipe, 1" diameter.
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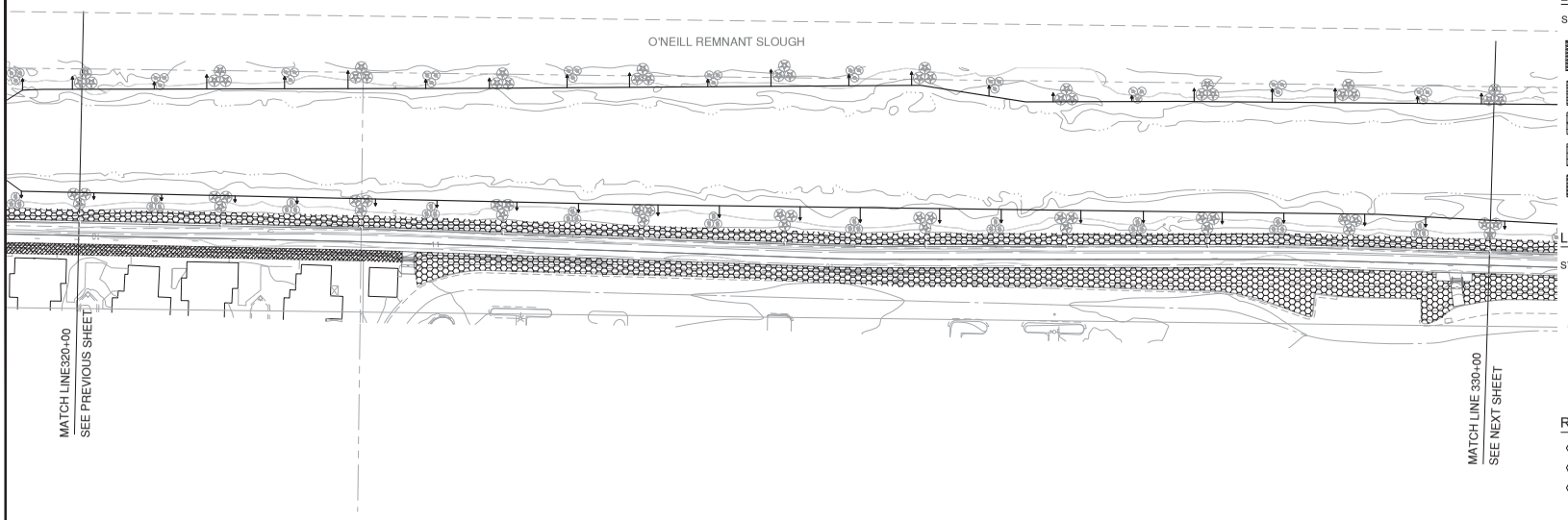
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION PLAN

SHEET
L-1.33
SHEET 314 OF 384
CIP PROJ. NUMBER
CIP 301-657



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REFERENCE NOTES

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2M 2" Stand Pipe w/ Cam Coupler: See 8/L-804
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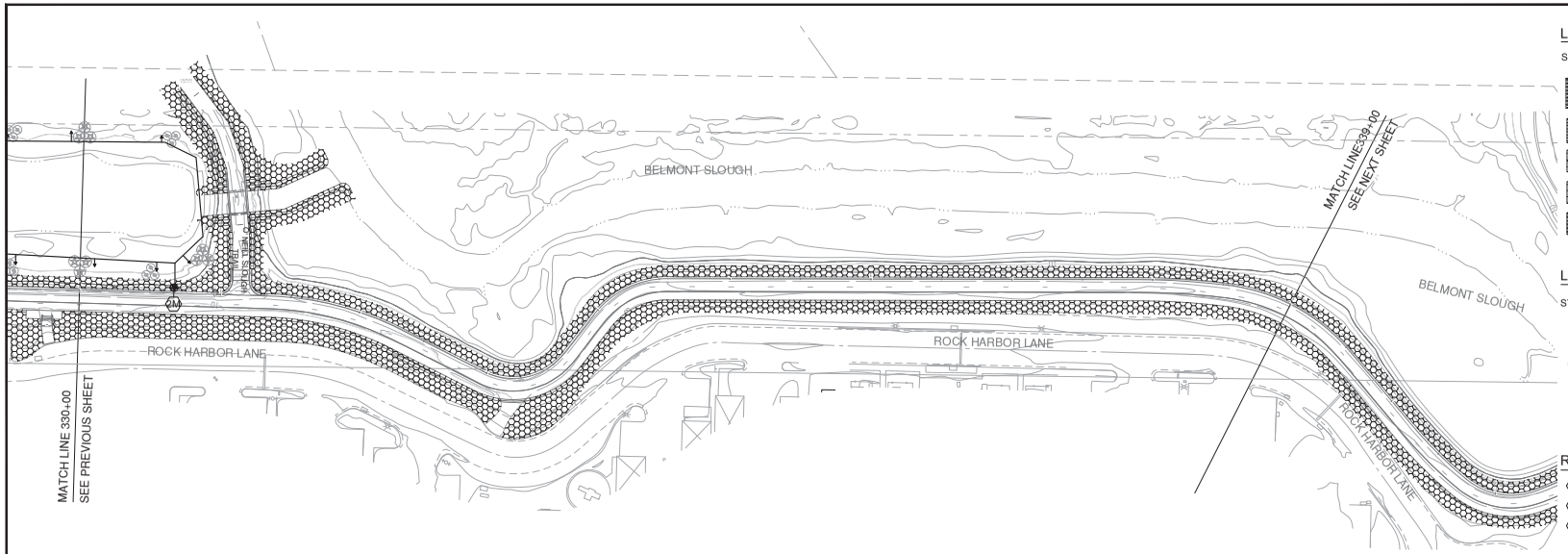
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

IRRIGATION PLAN

SHEET
L-1.34
SHEET 315 OF 384
CIP PROJ. NUMBER
CIP 301-657



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SHEET
L-1.35
SHEET 316 OF 384
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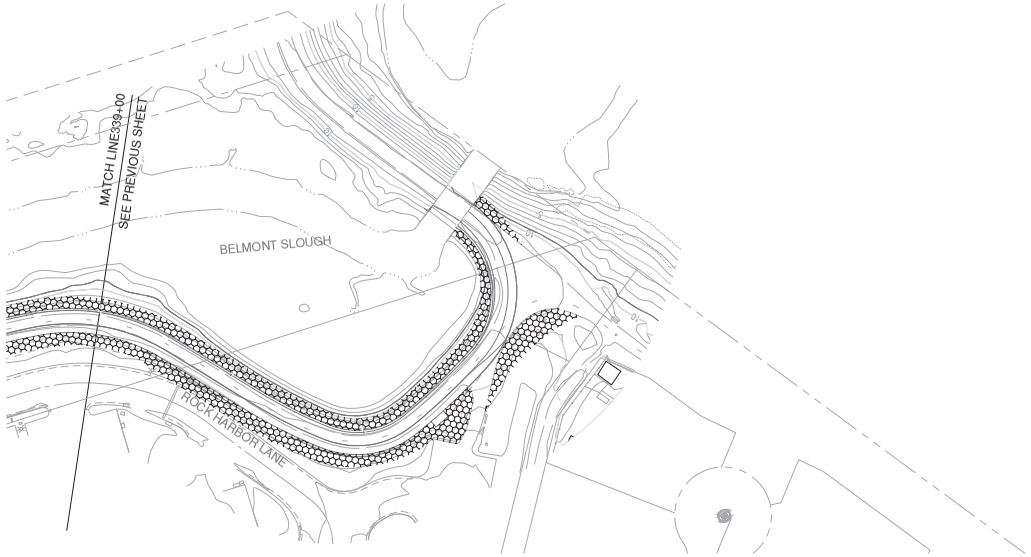

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IRRIGATION PLAN

SHEET
L-1.36
SHEET 317 OF 384
CIP PROJ. NUMBER
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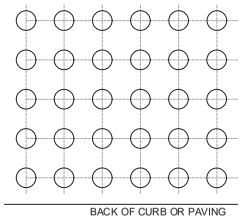
PLANTING LAYOUT DIAGRAM - TYPICAL



'A'/ 'B'/ 'C' REPRESENT SPECIES, SEE PLANTING LEGEND AND ENLARGED PLANS

PLANTING LEGEND

SYMBOL	DESCRIPTION
═══	Concrete Mowband, 8" wide, See Specs

SHRUBS & ORNAMENTAL GRASSES:

*WUC	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING See Planting Layout Notes #1
L	CGP	Cistus 'Grayswood Pink'	Grayswood Pink Rockrose	1 Gal.	3'-0" O.C.
L	Fca	Festuca californica	California Fescue	1 Gal.	3'-0" O.C.
L	Fma	Festuca mairei	Atlas Fescue	1 Gal.	3'-0" O.C.
L	GNo	Grevillea 'Noellii'	Noel's Grevillea	1 Gal.	3'-0" O.C.
L	Lpe	Limonium perezii	Sea Lavender	1 Gal.	1'-6" O.C.
L	SlF	Salvia leucophylla 'Figueroa'	Purple Sage	1 Gal.	3'-0" O.C.
L	WfS	Westringia fruticosa 'Smokey'	Coast Rosemary	1 Gal.	3'-0" O.C.

GROUNDCOVERS

*WUC	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
L	CgY	Ceanothus griseus	Yankee Point	5 Gal.	4'-0" O.C.

Planting Layout Notes:

1. Distance along slope, 3'-0" O.C. / Distance perpendicular to slope, space rows equally after providing specified distances from edges for the first and last row, typ.

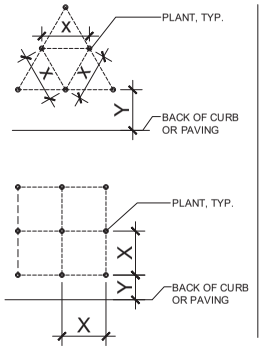
ICE - PLANT TYPE 1 & TYPE 2:

*WUC	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
VL	Ced	Carpobrotus edulis	Hottentot Fig	12"-18" Cutting.	See Planting Zone Legend for Spacing

* WATER USE CATEGORY (WUC) KEY

WUCOLS Region Applicable to this Project: REGION 1
H = High; M = Moderate; L = Low; VL = Very Low; NL = Species Not Listed
* from: Water Use Classification of Landscape Species,
A Guide to the Water Needs of Landscape Plants (WUCOLS)
Revised 2014, University of California Cooperative Extension, L.R. Costello, K.S. Jones

SHRUB / GROUNDCOVER SPACING AND PLANTING SETBACK DIAGRAM



1. FOR SPACING 'X', SEE PLANTING PLAN LEGEND
2. Y= 1/2X + 12"

GENERAL NOTES - PLANTING

1. See Specifications for materials and procedures including, but not limited to, soil preparation, amendments, fertilizers, herbicides, and mulch application.
2. See Specifications for materials and procedures including plant pit size. See 1/L-8.03 2/L-8.04

MITIGATION PLANTING LEGEND

NATIVE PLANT HYDROSEED - SPECIES MIX 1*

BOTANICAL NAME	COMMON NAME	RATE: lbs/ac	SOURCE
Achillea millefolium	Yarrow	1.0	Local within watershed
Eriogonum latifolium	Coastal Eriogonum	0.75	Local within watershed
Deschampsia caespitosa holsiformis	Pacific Hairgrass	5.0	Local within watershed
Eschscholzia californica	Maritima California Poppy	2.0	Local within watershed
Hordeum brachyantherum	Meadow Barley	12.0	Local within watershed
Mimulus aurantiacus	Sticky Monkeyflower	0.25	Local within watershed
Salvia mellifera	Black Sage	3.5	Local within watershed
Sisyrinchium bellum	Blue-Eyed Grass	4.0	Local within watershed
Stipa lepida	Foothill Needlegrass	4.0	Local within watershed
Stipa pulchra	Purple Needlgrasss	10.0	Local within watershed
Vulpia microstachys	Small Fescue	8.0	Local within watershed

NATIVE PLANT HYDROSEED - SPECIES MIX 2*

BOTANICAL NAME	COMMON NAME	RATE: lbs/ac	SOURCE
Ambrosia psilostachya	Western Ragweed	1.0	Local within watershed
Artemisia californica	California Sagebrush	0.5	Local within watershed
Artemisia douglasiana	Mugwort	0.25	Local within watershed
Baccharis pilularis	Coyote Brush	0.25	Local within watershed
Bolboschoenus maritimus	Alkali Bulrush	2.5	Local within watershed
Frankenia salina	Alkali Heath	0.25	Local within watershed
Grindelia stricta var. angustifolia	Pacific Gumplant	2.0	Local within watershed
Hordeum brachyantherum	Salt Meadow Barley	12.0	Local within watershed
Juncus patens	Wire Grass	0.5	Local within watershed
Limonium californica	Marsh Rosemary	1.5	Local within watershed
Salicornia pacifica	Pickleweed	0.5	Local within watershed

NATIVE SHRUBS:

CODE	BOTANICAL NAME	COMMON NAME	SIZE	SOURCE
	Atriplex lentiformis	Big Salt bush	1 Gal.	
	Grindellia stricta var. angustifolia	Marsh Gum Plant	1 Gal.	
	Artemisia californica	California Sagebrush	1 Gal.	Propagated and supplied by local native plant nursery. See Specs. See Note B.4
	Baccharis pilularis	Coyote Brush	1 Gal.	
	Frangula californica	California Coffeeberry	1 Gal.	
	Lupinus arboreus	Coastal Bush Lupine	1 Gal.	

*Seed Mixes Supplied by Pacific Coast Seed and Subject to Availability at Time of Planting

GENERAL NOTES - MITIGATION PLANTING

A. HYDROSEED
1. Hydroseed Species Mix 1 to be applied at 8-feet NAVD 88 and above. Hydroseed Species Mix 2 to be applied below 8-feet NAVD 88. See General Note C.1
2. Review staked out limits of hydroseeding with the Owner's Representative, prior to application.
3. Hydroseed areas of bare soil due to grading or temporary impacts due to erosion control such as removal of silt fence.

B. NATIVE SHRUBS
1. Install native shrubs adjacent to sheet pile levee and concrete wall in areas below 8 feet NAVD 88 as shown on planting plans and as approved in the field by the Owner's Representative. Native shrubs can extend into the upper edge of the vegetated marsh if space below 8' NAVD is limited. See General Note C.1
2. Review staked out locations for native shrubs with the Owner's Representative, who will be onsite during installation to prescribe specific locations along the levee slope.
3. If container size is not available consult with Owner's Representative to determine if the available size is appropriate.

C. GENERAL
1. Planting elevation is an estimate for planning purposes. 8 feet and above is representative of areas above the High Tide Line and MHHW (NAVD 88). Below 8 feet is representative of the range of tidal flooding below the High Tide Line, MHHW, and Mean High Water (NAVD 88) or Ordinary High Water for non-tidal ponded areas.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
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CHECKED BY: CDA
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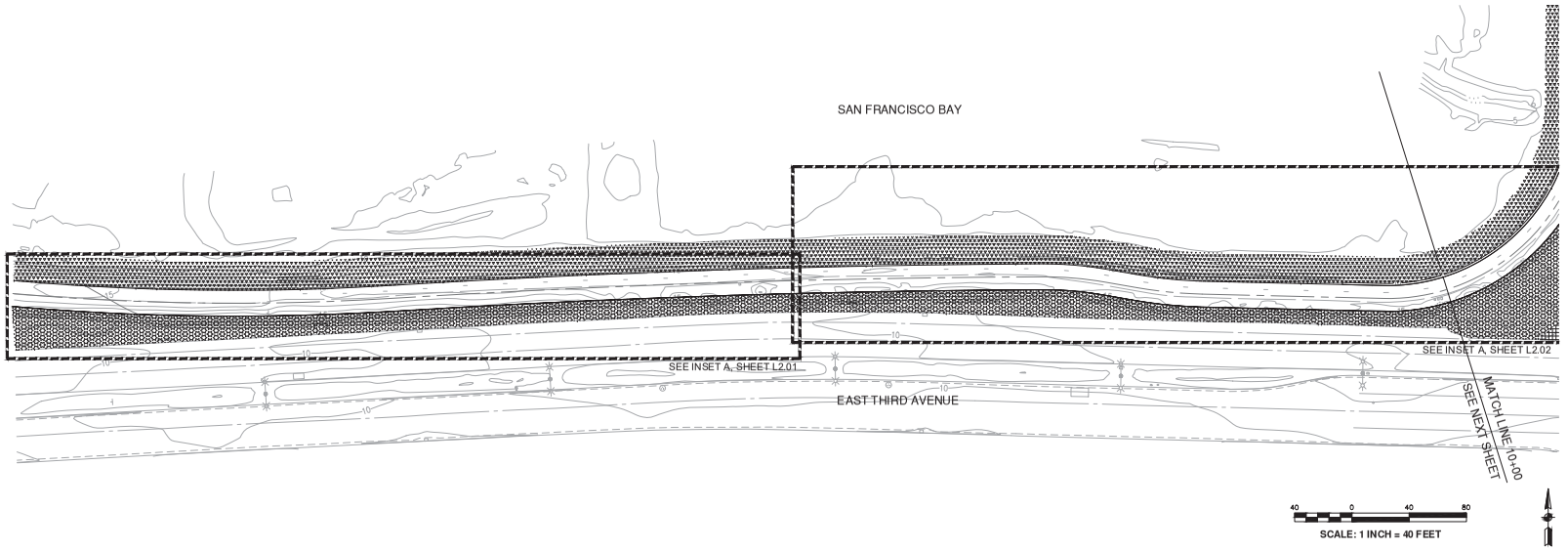


PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

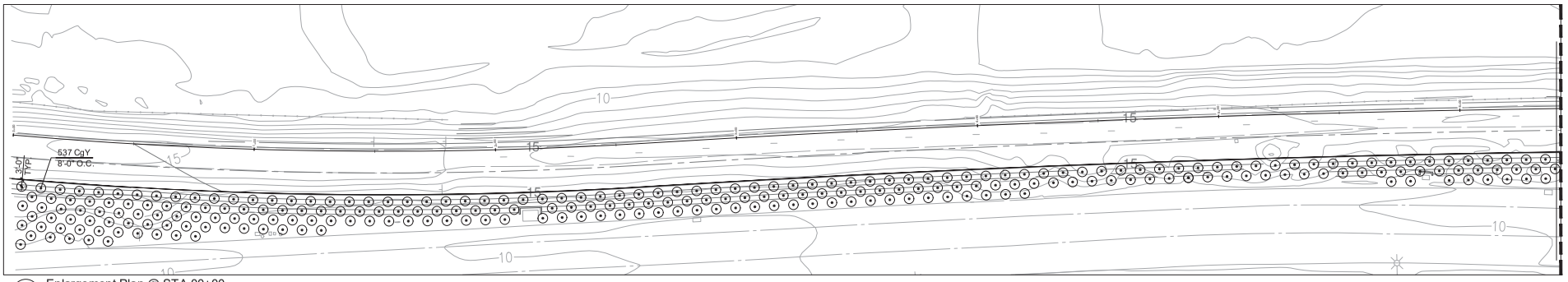
SYMBOL	AREA
	SHRUBS AND ORNAMENTAL GRASSES AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	GROUNDCOVERS AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	ICE-PLANT TYPE-1 GROUNDCOVER ALONG BEACH PARK BOULEVARD ONLY - CUTTINGS OBTAINED FROM EXISTING PROJECT AREAS TO BE CLEARED AND GRUBBED, AND EXISTING AREAS ADJACENT TO PROJECT IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 12-INCHES ON CENTER. - INSTALL COIR EROSION CONTROL FABRIC & 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED
	ICE-PLANT TYPE-2 GROUNDCOVER ALONG PRIVATE RESIDENTIAL EDGES - CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 36-INCHES ON CENTER. - EXISTING SHRUBS REMOVED TO BE REPLACED IN KIND, 5-GAL SIZE. - EXISTING TREES REMOVED TO BE REPLACED IN KIND, 15-GAL SIZE. - INSTALL 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED OR EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS WHERE PRESENT.
	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-3: INBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED

GENERAL NOTES - PLANTING ZONES

1. Hatch patterns may be rotated from the original shown in the Planting Zone Legend based on the orientation of the plan area in this sheet.
2. Hydroseed areas assume an additional 5-ft buffer beyond toe of graded slope for construction impacts and conform. Do not hydroseed over existing native plants in this buffer area.



A Enlargement Plan @ STA 00+00
1"=20'-0"

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DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY—HAM

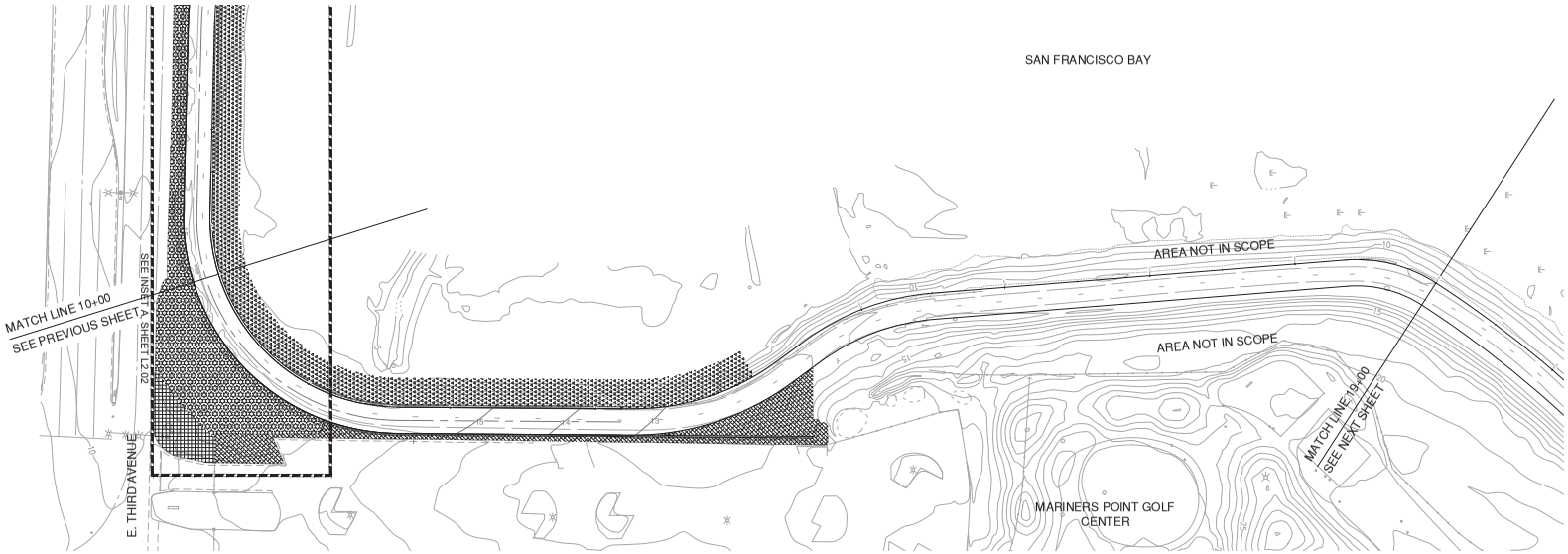
NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.01
SHEET 319 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	SHRUBS AND ORNAMENTAL GRASSES AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	GROUNDCOVERS AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	ICE-PLANT TYPE-1 GROUNDCOVER ALONG BEACH PARK BOULEVARD ONLY - CUTTINGS OBTAINED FROM EXISTING PROJECT AREAS TO BE CLEARED AND GRUBBED, AND EXISTING AREAS ADJACENT TO PROJECT IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 12-INCHES ON CENTER. - INSTALL COIR EROSION CONTROL FABRIC & 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED
	ICE-PLANT TYPE-2 GROUNDCOVER ALONG PRIVATE RESIDENTIAL EDGES - CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 36-INCHES ON CENTER. - EXISTING SHRUBS REMOVED TO BE REPLACED IN KIND, 5-GAL SIZE. - EXISTING TREES REMOVED TO BE REPLACED IN KIND, 15-GAL SIZE. - INSTALL 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED OR EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS WHERE PRESENT.
	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-3: INBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED

GENERAL NOTES - PLANTING ZONES

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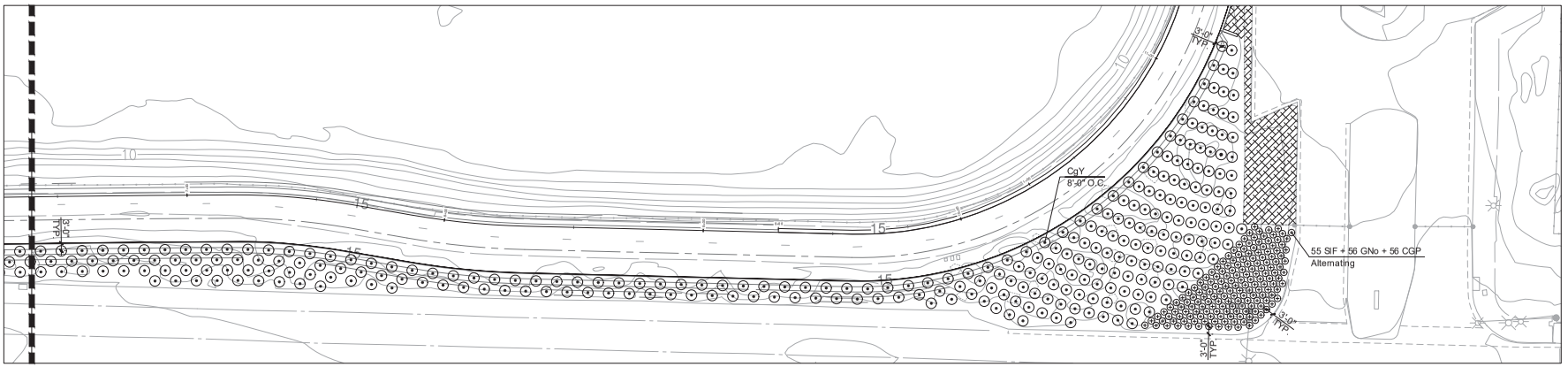

A Enlargement Plan @ STA 00+00
1"=20'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.02
SHEET 320 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL	AREA
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	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
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GENERAL NOTES - PLANTING ZONES

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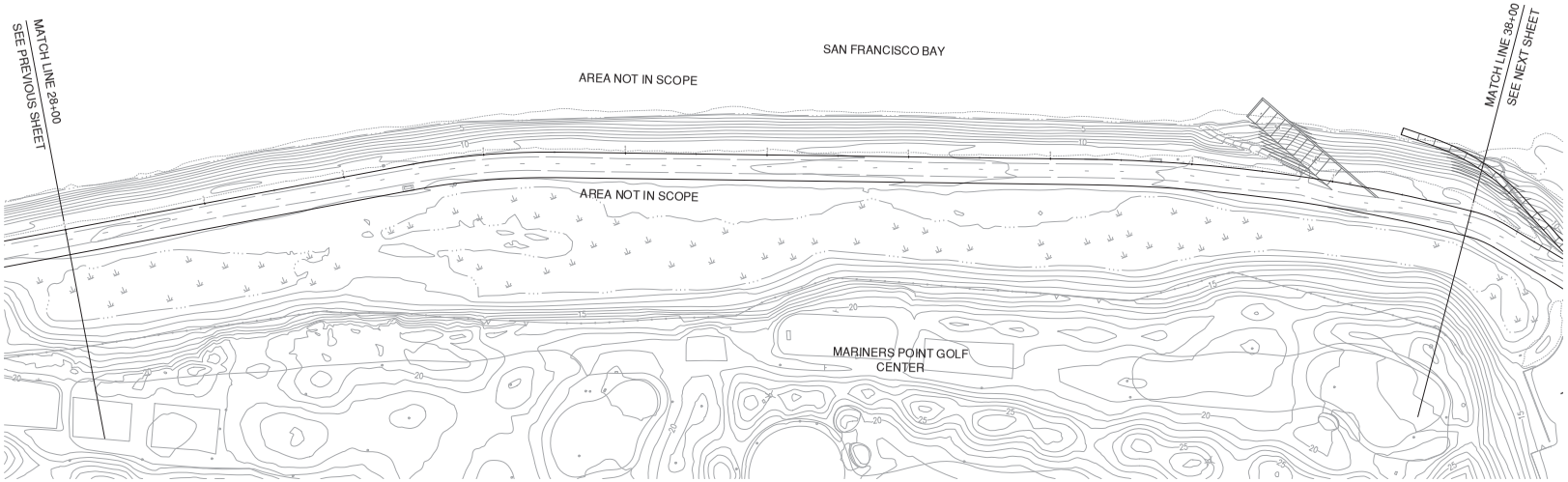
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PLANTING PLAN

SHEET
L-2.03
SHEET 321 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.04
SHEET 322 OF 384
CIP PROJ. NUMBER
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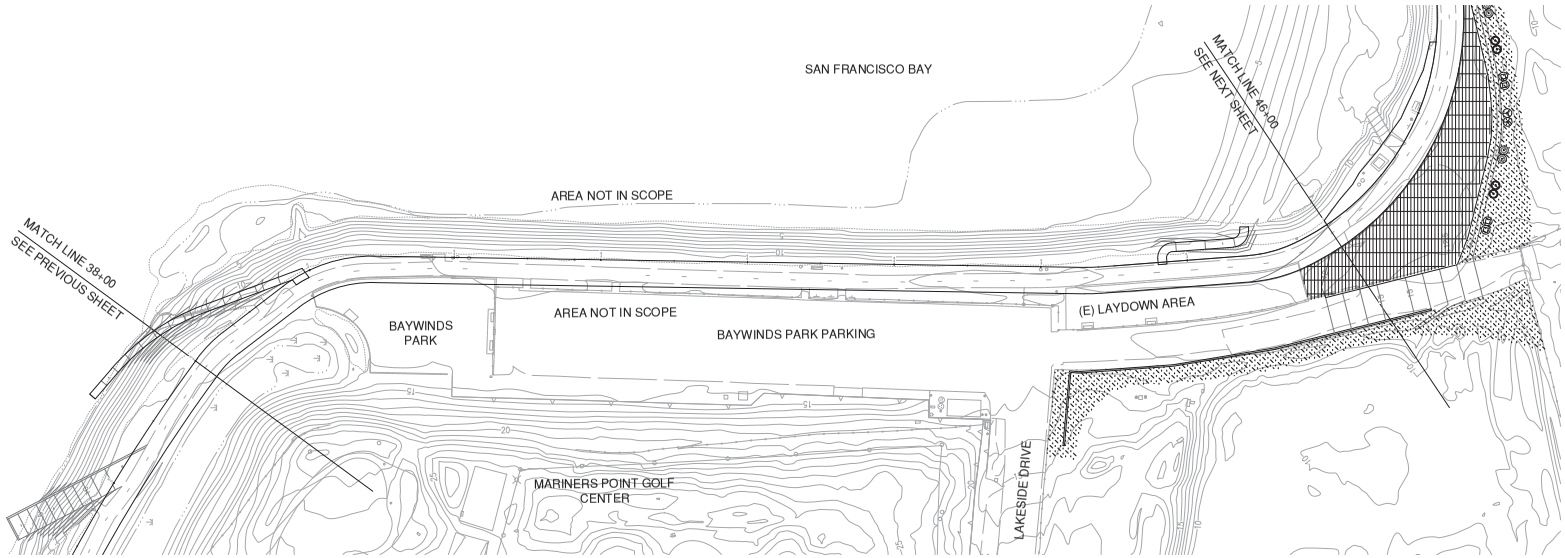

40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL | AREA

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- SEE SPECIFICATIONS.
- IRRIGATED

GROUNDCOVERS AT PUBLIC ACCESS AREAS
- INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES.
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- SEE SPECIFICATIONS.
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- CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD.
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TURF - SOD
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- EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.

SYNTHETIC TURF
- SEE TYPICAL DETAIL ON SHEET L2.05

MULCH ON WEED MAT
- INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES.
- SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL | AREA

HYDROSEED AREA-1: OUTBOARD OF LEVEE
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- SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS.
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HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH
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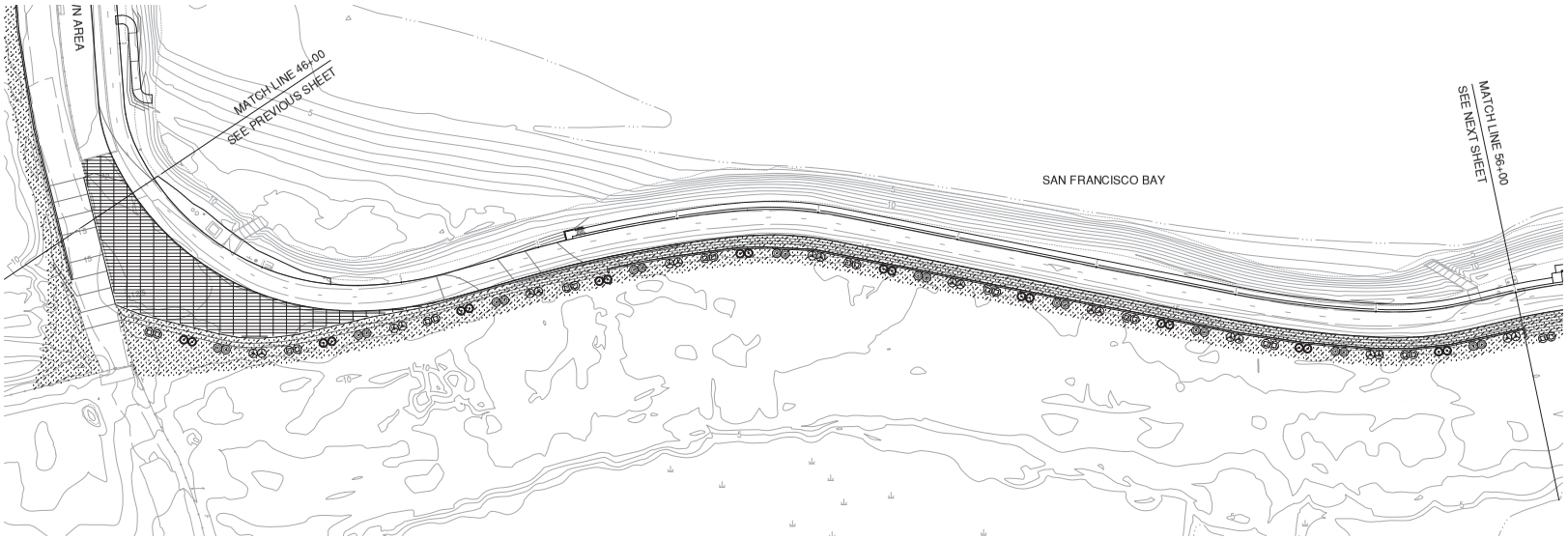
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PLANTING PLAN

SHEET
L-2.05
SHEET 323 OF 384

CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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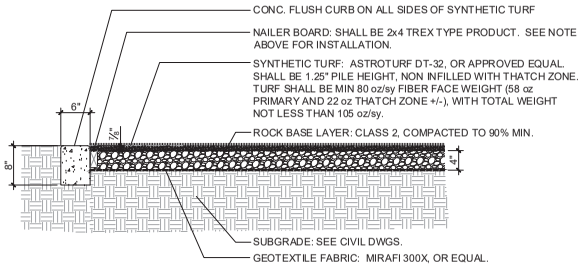
NAILER BOARD INSTALLATION:

- THE BOARD SHALL BE INSTALLED TO THE CONC CURB WITH A NAIL GUN AND 3" NAILS, 24" ON CENTER. EACH END OF THE BOARD ON STRAIGHT RUNS, AND INCLUDING THE CENTER ON CURVED RUNS, SHALL BE SECURED WITH A ⅜" DIA, BY 3.5" LONG EXPANSION BOLT WITH LEAD SLEEVE. CORE DRILL INTO CURB AND TIGHTEN BOLT TO THE BOARD. MAINTAIN ½" GAP BETWEEN CONSECUTIVE BOARDS FOR EXPANSION.
- THE NAILER BOARD SHALL BE INSTALLED ON THE ENTIRE EXISTING PERIMETER EDGES OF NEW SYNTHETIC TURF.



1 Synthetic Turf Section

1" = 1'-0"

DATE:	4/24/2020
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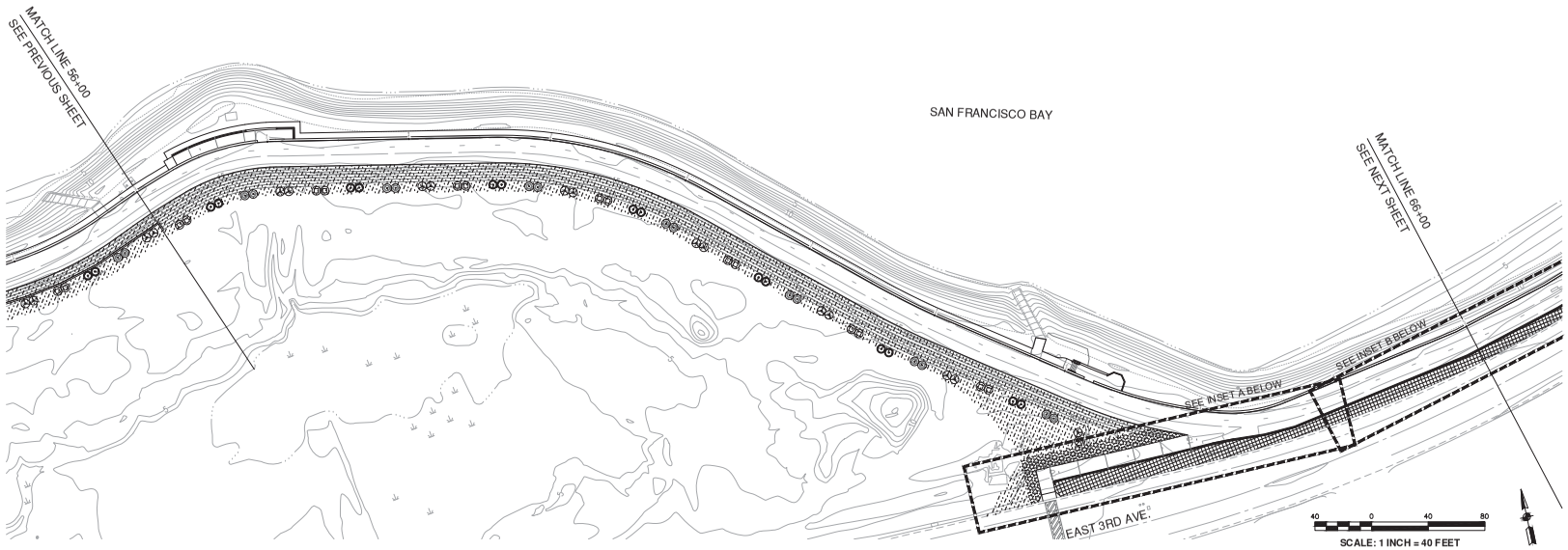

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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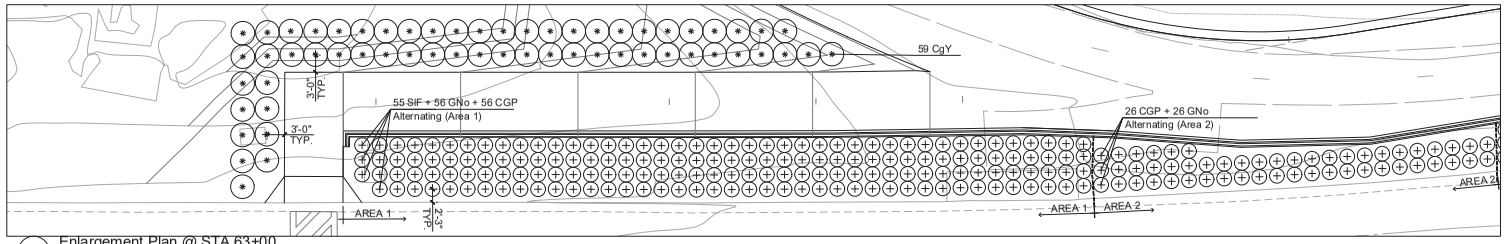
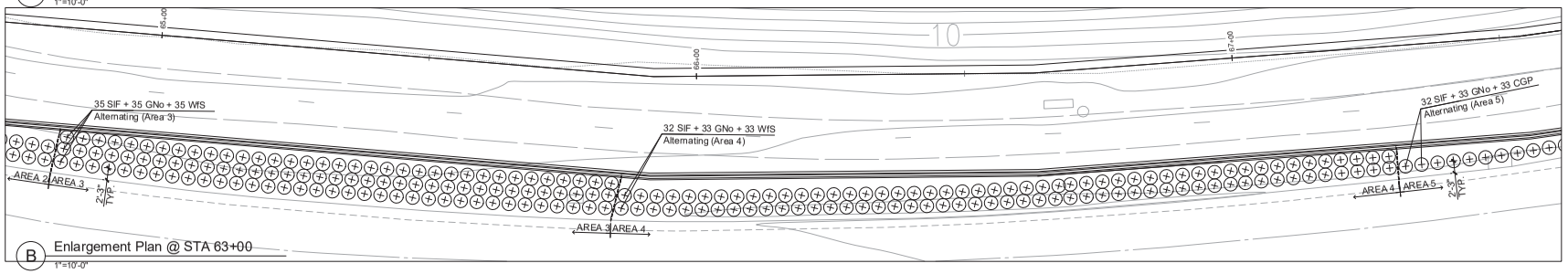


A Enlargement Plan @ STA 63+00
1"=10'-0"



B Enlargement Plan @ STA 63+00
1"=10'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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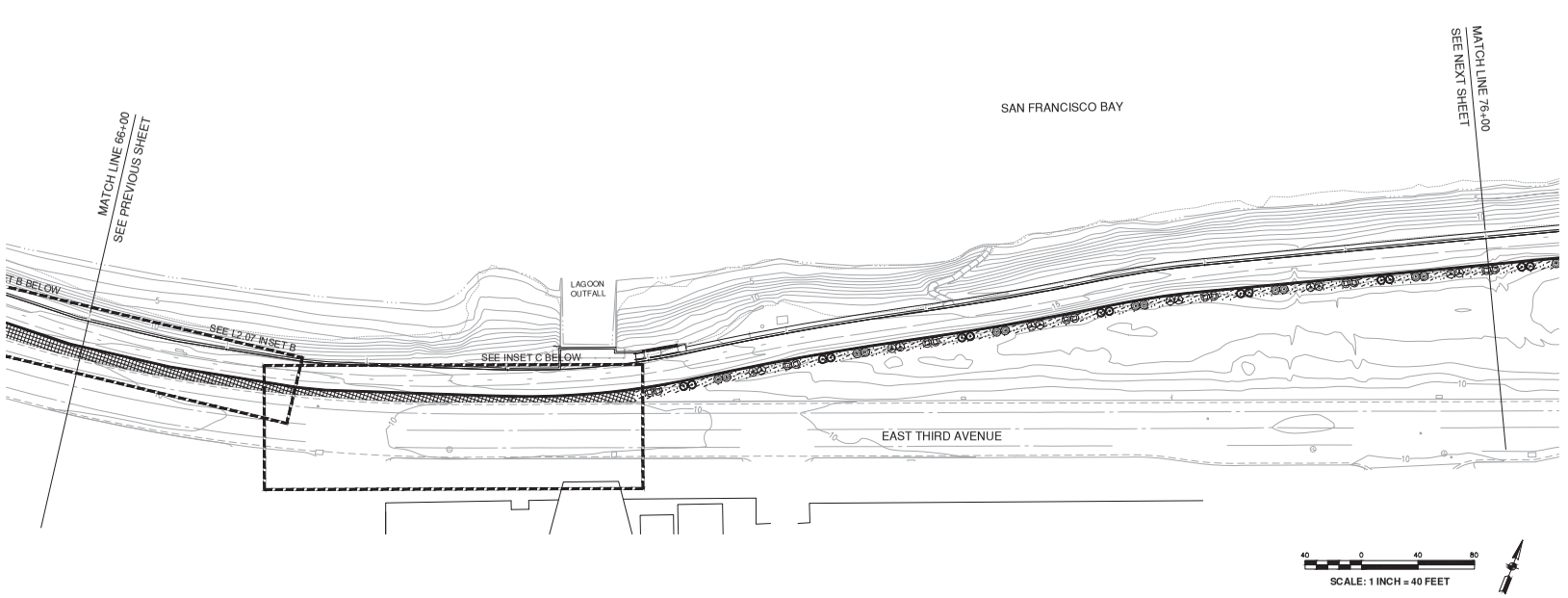
BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.07
SHEET 325 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	SHRUBS AND ORNAMENTAL GRASSES AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	GROUNDCOVERS AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	ICE-PLANT TYPE-1 GROUNDCOVER ALONG BEACH PARK BOULEVARD ONLY - CUTTINGS OBTAINED FROM EXISTING PROJECT AREAS TO BE CLEARED AND GRUBBED, AND EXISTING AREAS ADJACENT TO PROJECT IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 12-INCHES ON CENTER. - INSTALL COIR EROSION CONTROL FABRIC & 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED
	ICE-PLANT TYPE-2 GROUNDCOVER ALONG PRIVATE RESIDENTIAL EDGES - CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 36-INCHES ON CENTER. - EXISTING SHRUBS REMOVED TO BE REPLACED IN KIND, 5-GAL SIZE. - EXISTING TREES REMOVED TO BE REPLACED IN KIND, 15-GAL SIZE. - INSTALL 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED OR EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS WHERE PRESENT.
	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
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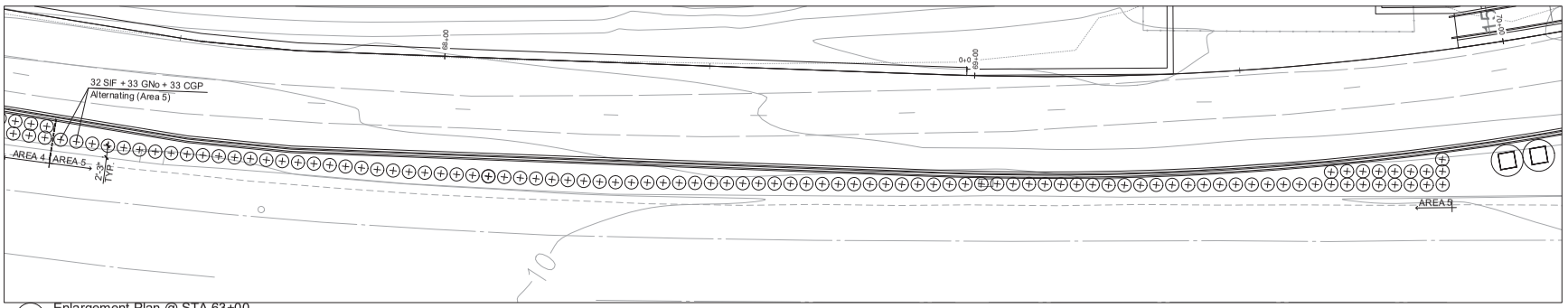

C Enlargement Plan @ STA 63+00
1"=10'-0"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	
CHECKED BY:	CDA
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PLANTING PLAN

SHEET
L-2.08
SHEET 326 OF 384
CIP PROJ. NUMBER
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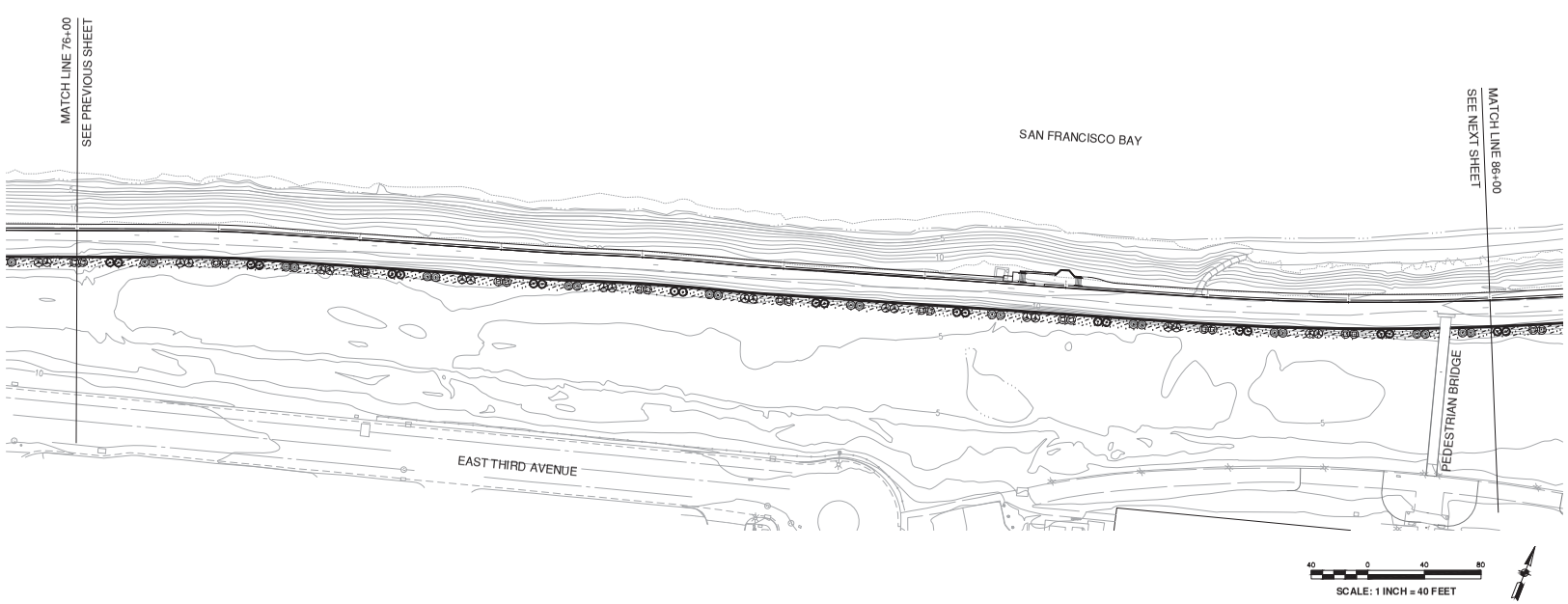

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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GENERAL NOTES - PLANTING ZONES

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.09
SHEET 327 OF 384
CIP PROJ. NUMBER
CIP 301–657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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CIP 301-657
PLANTING PLAN

SHEET
L-2.10
SHEET 328 OF 384
CIP PROJ. NUMBER
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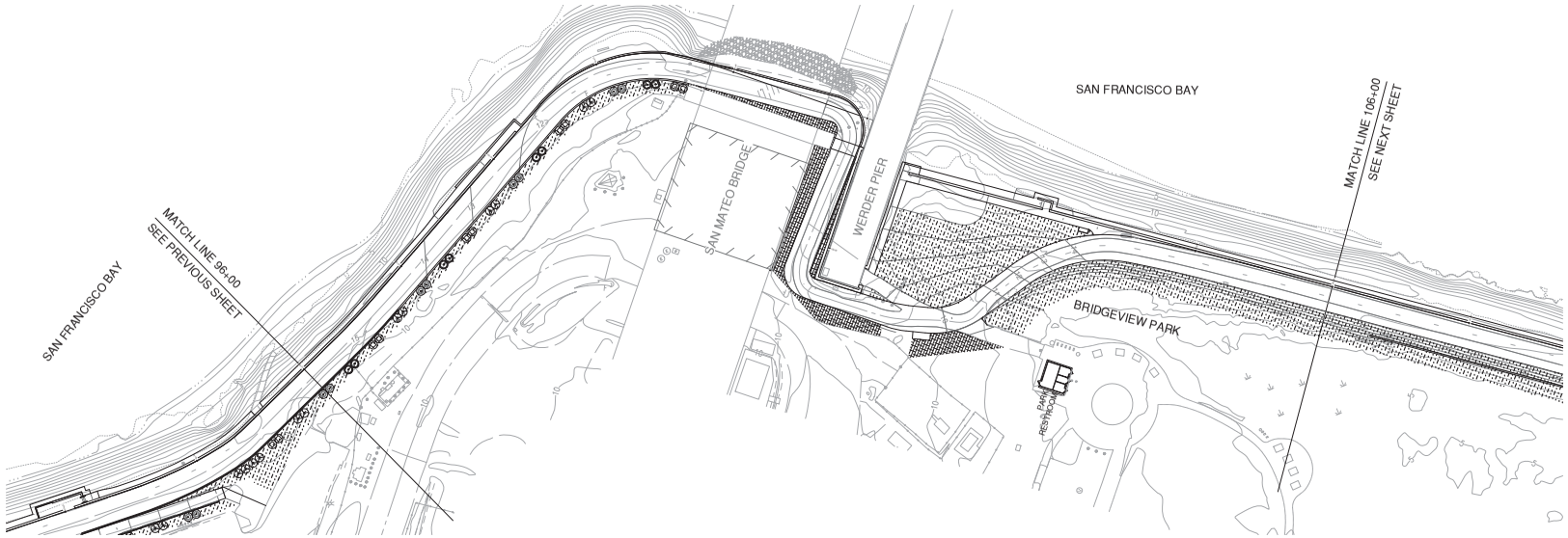

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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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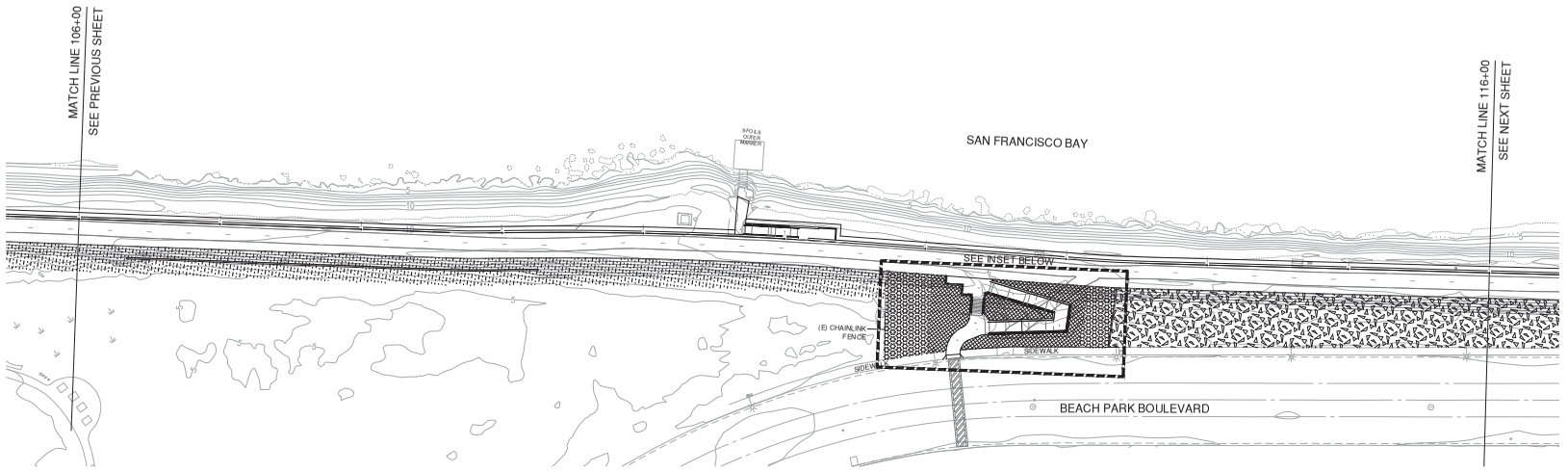
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.11
SHEET 329 OF 384
CIP PROJ. NUMBER
CIP 301-657



SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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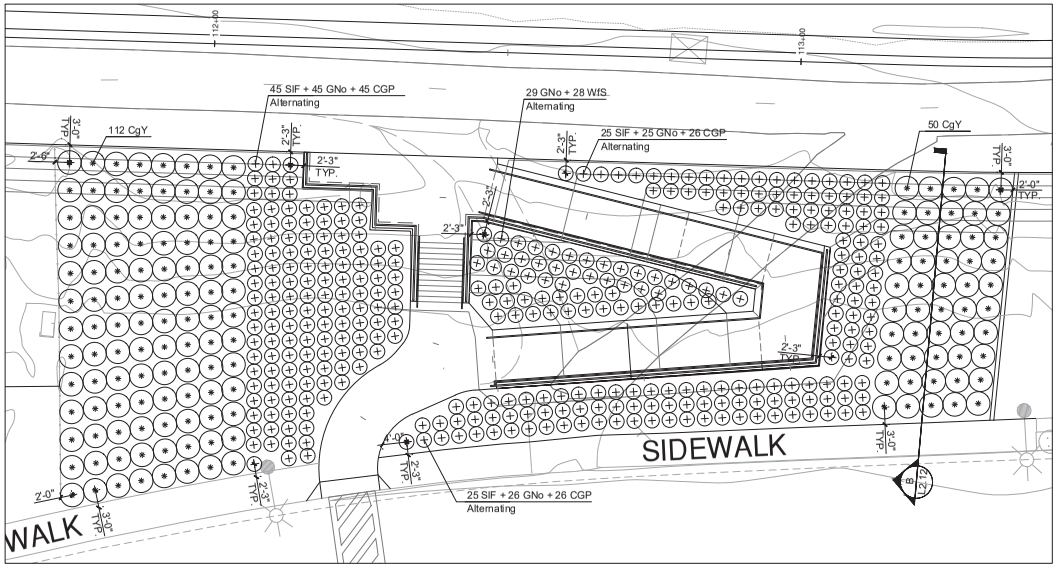

A Enlargement Plan @ STA 112+25
1"=10'-0"



B Section @ STA 112+25
1"=10'-0"

DATE:	4/24/2020
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SHEET
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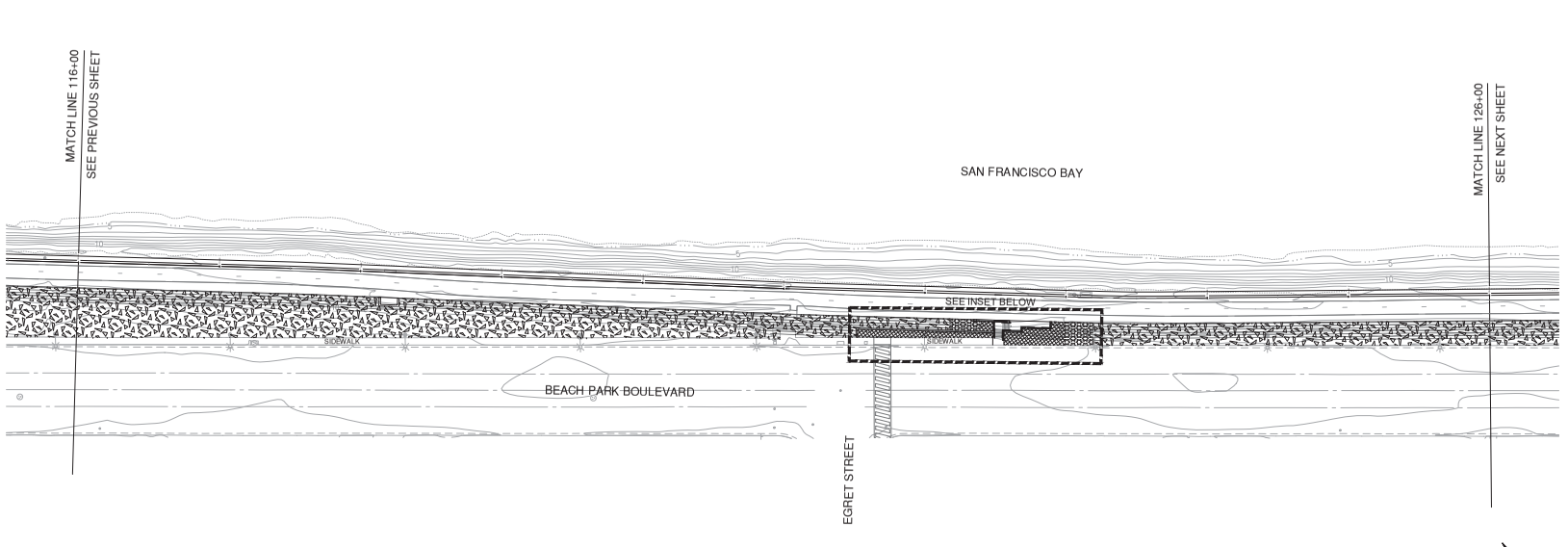

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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	HYDROSEED AREA-3: INBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED

40 0 40 80

SCALE: 1 INCH = 40 FEET

GENERAL NOTES - PLANTING ZONES

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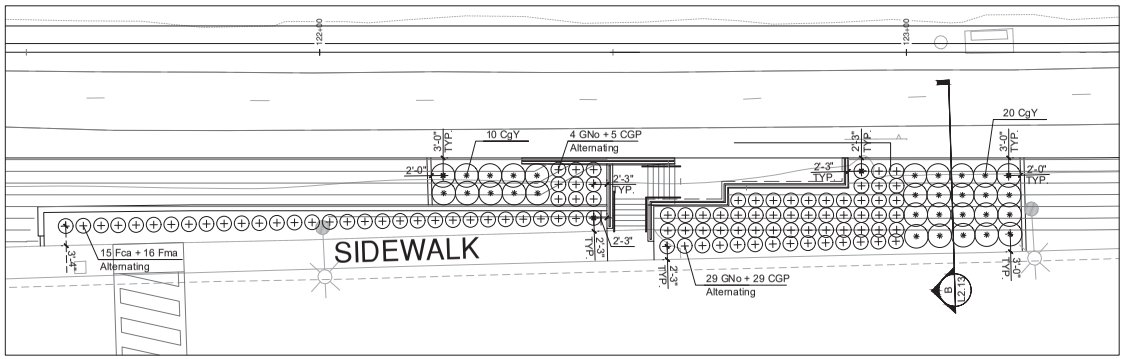
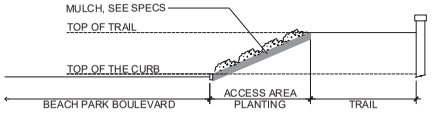
2. Hydroseed areas assume an additional 5-ft buffer beyond toe of graded slope for construction impacts and confirm. Do not hydroseed over existing native plants in this buffer area.



A Enlargement Plan @ STA 123+00
1"=10'-0"



B Section @ STA 123+00
1"=10'-0"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	
CHECKED BY:	CDA
SURVEYED BY:	WILSEY—HAM

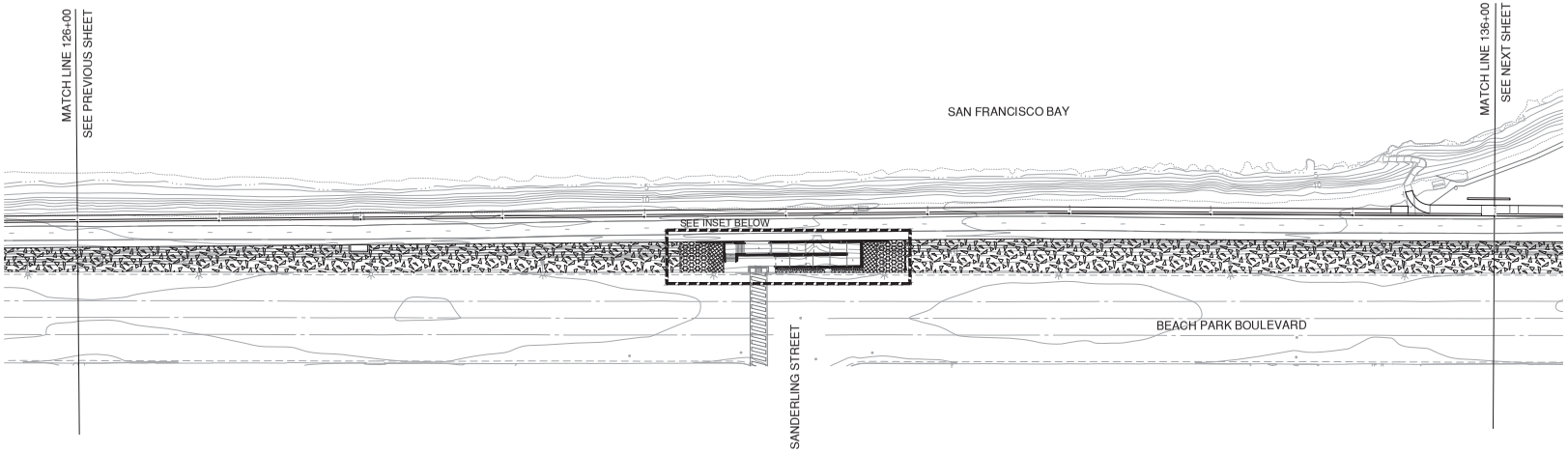
NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.13
SHEET 331 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	SHRUBS AND ORNAMENTAL GRASSES AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	GROUNDCOVERS AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	ICE-PLANT TYPE-1 GROUNDCOVER ALONG BEACH PARK BOULEVARD ONLY - CUTTINGS OBTAINED FROM EXISTING PROJECT AREAS TO BE CLEARED AND GRUBBED, AND EXISTING AREAS ADJACENT TO PROJECT IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 12-INCHES ON CENTER. - INSTALL COIR EROSION CONTROL FABRIC & 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED
	ICE-PLANT TYPE-2 GROUNDCOVER ALONG PRIVATE RESIDENTIAL EDGES - CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 36-INCHES ON CENTER. - EXISTING SHRUBS REMOVED TO BE REPLACED IN KIND, 5-GAL SIZE. - EXISTING TREES REMOVED TO BE REPLACED IN KIND, 15-GAL SIZE. - INSTALL 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED OR EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS WHERE PRESENT.
	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
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40 0 40 80

SCALE: 1 INCH = 40 FEET

GENERAL NOTES - PLANTING ZONES

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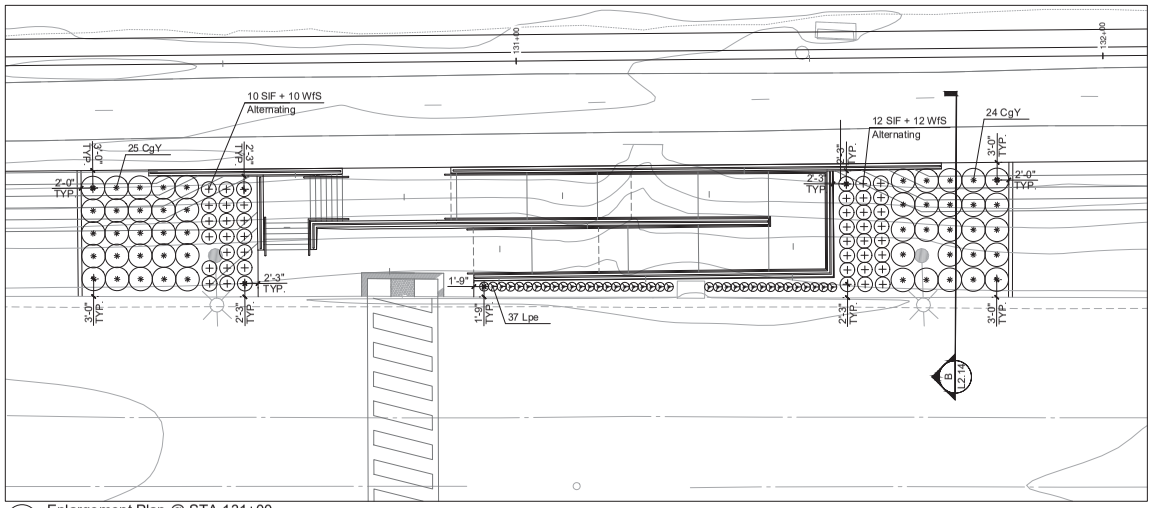
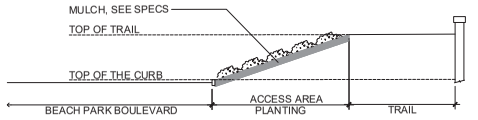


A Enlargement Plan @ STA 131+00
1"=10'-0"



B Section @ STA 131+00
1"=10'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY—HAM

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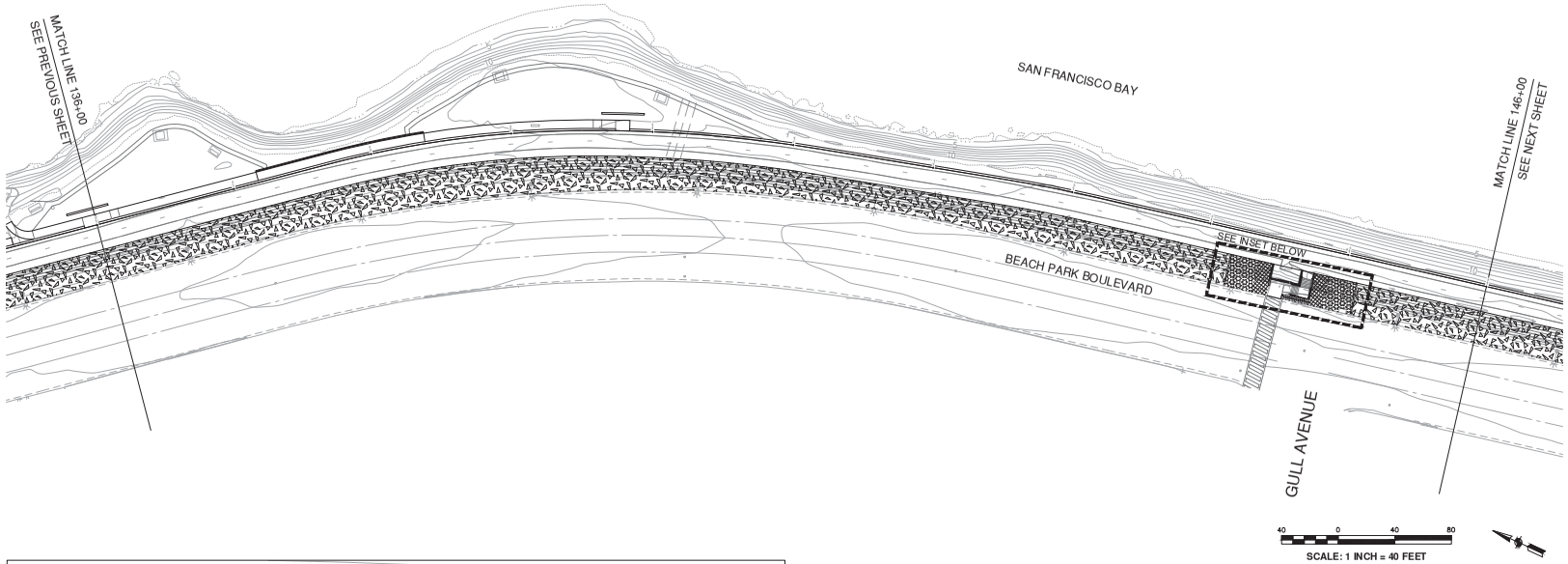
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.14
SHEET 332 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	SHRUBS AND ORNAMENTAL GRASSES AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	GROUNDCOVERS AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
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	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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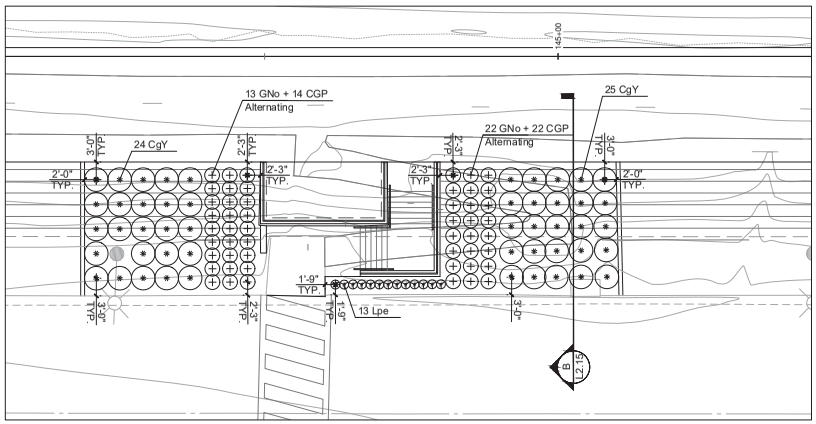
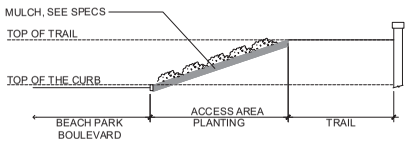


A Enlargement Plan @ STA 144+75
1"=10'-0"



B Section @ STA 144+75
1"=10'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
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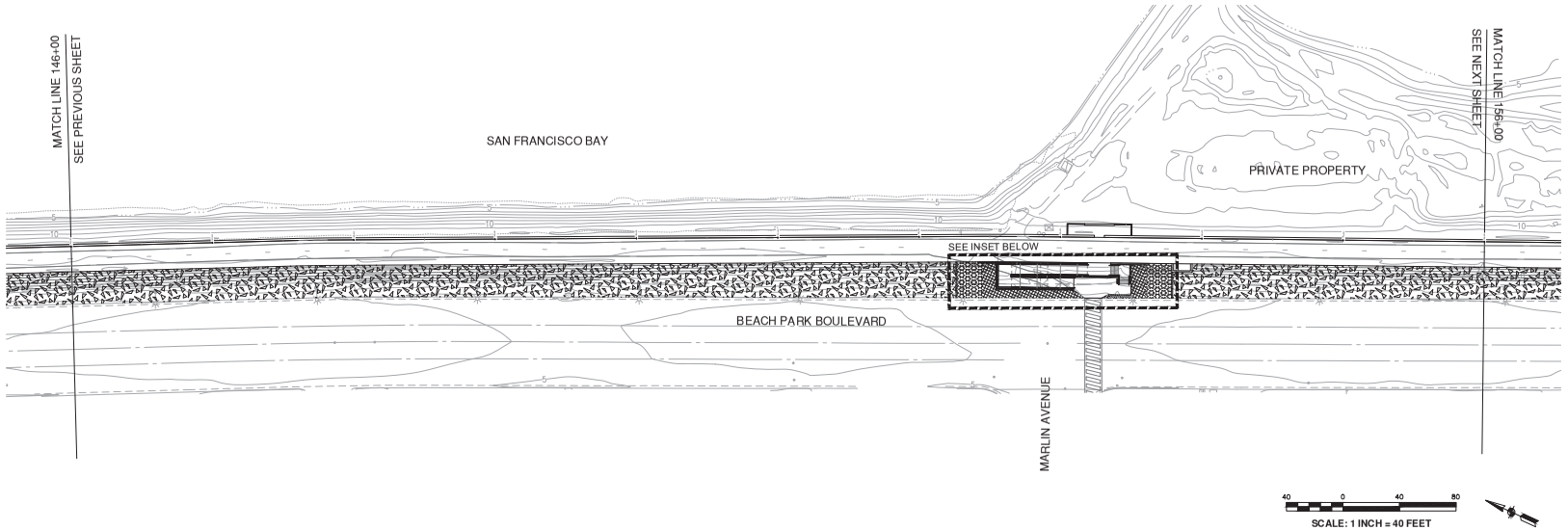
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.15
SHEET 333 OF 384
CIP PROJ. NUMBER
CIP 301-657



SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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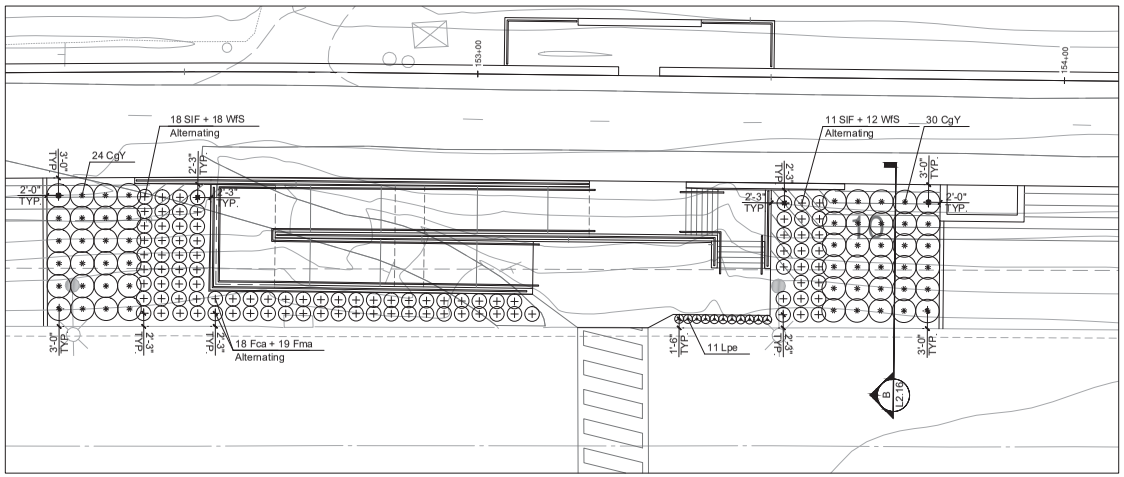
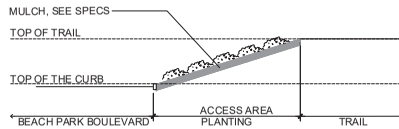


A Enlargement Plan @ 153+25
1"=10'-0"



B Section @ 153+25
1"=10'-0"

DATE:	4/24/2020		
SCALE:	AS SHOWN		
DRAWN BY:			
PROJECT NUMBER:	FOST.12.16		
DESIGNED BY:			
CHECKED BY:	CDA		
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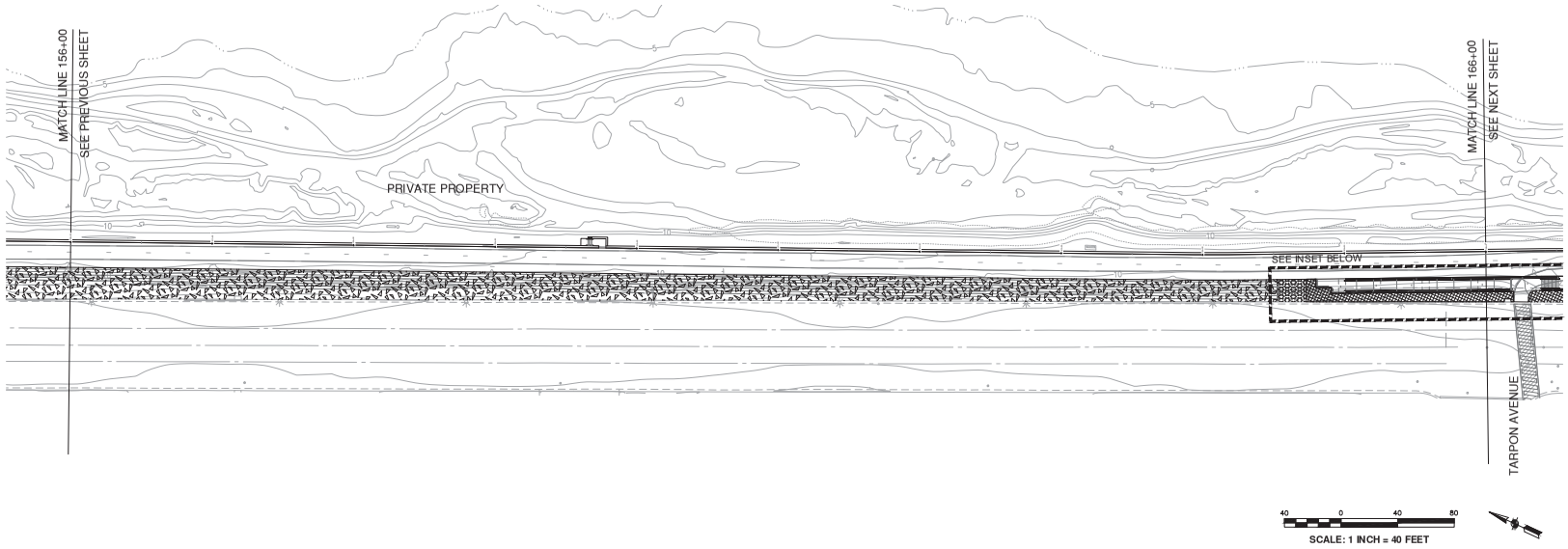
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.16
SHEET 334 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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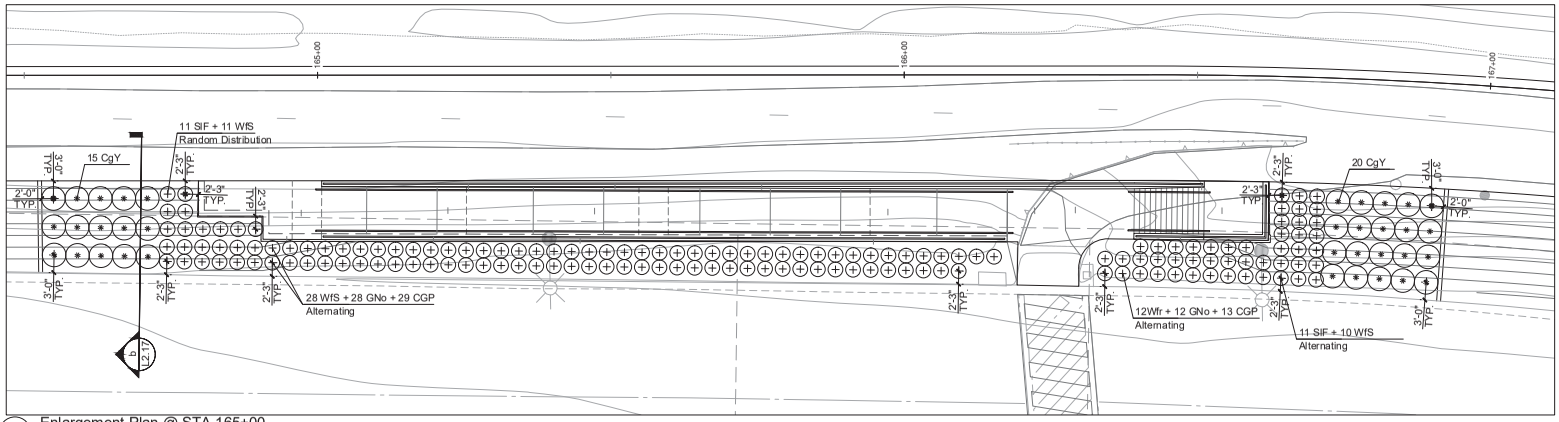
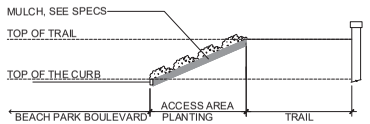


A Enlargement Plan @ STA 165+00
1"=10'-0"



B Section @ STA 165+00
1"=10'-0"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	
CHECKED BY:	CDA
SURVEYED BY:	WILSEY—HAM

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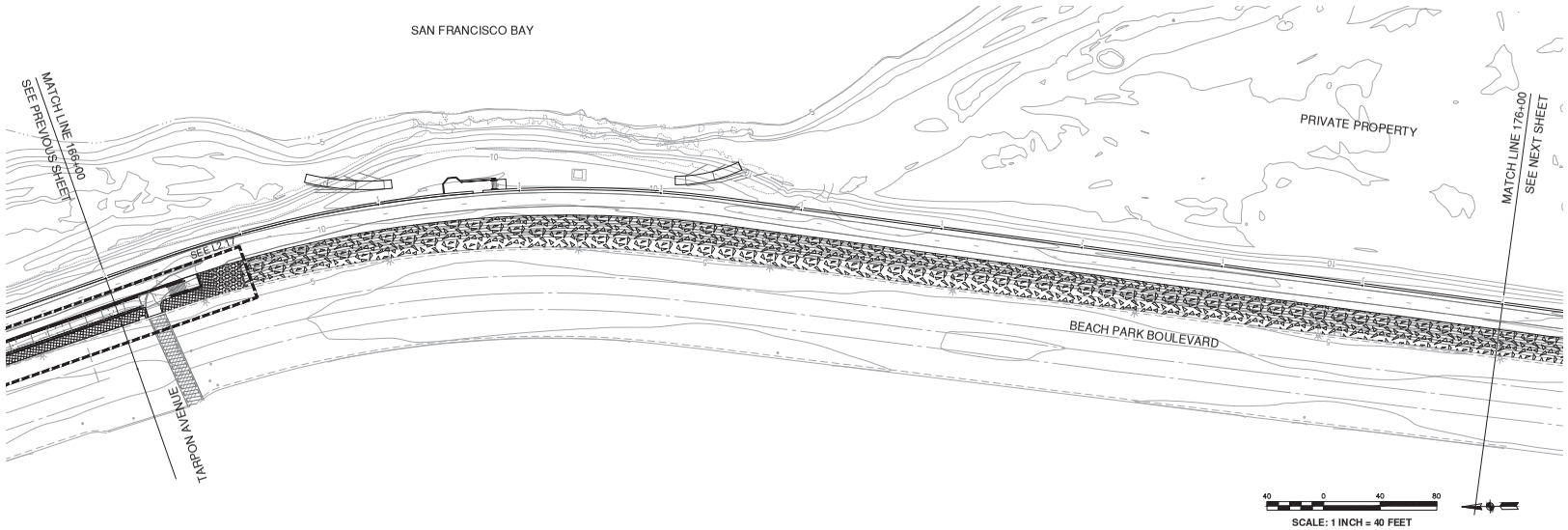
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.17
SHEET 335 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-3: INBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED

GENERAL NOTES - PLANTING ZONES

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2. Hydroseed areas assume an additional 5-ft buffer beyond toe of graded slope for construction impacts and conform. Do not hydroseed over existing native plants in this buffer area.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY—HAM

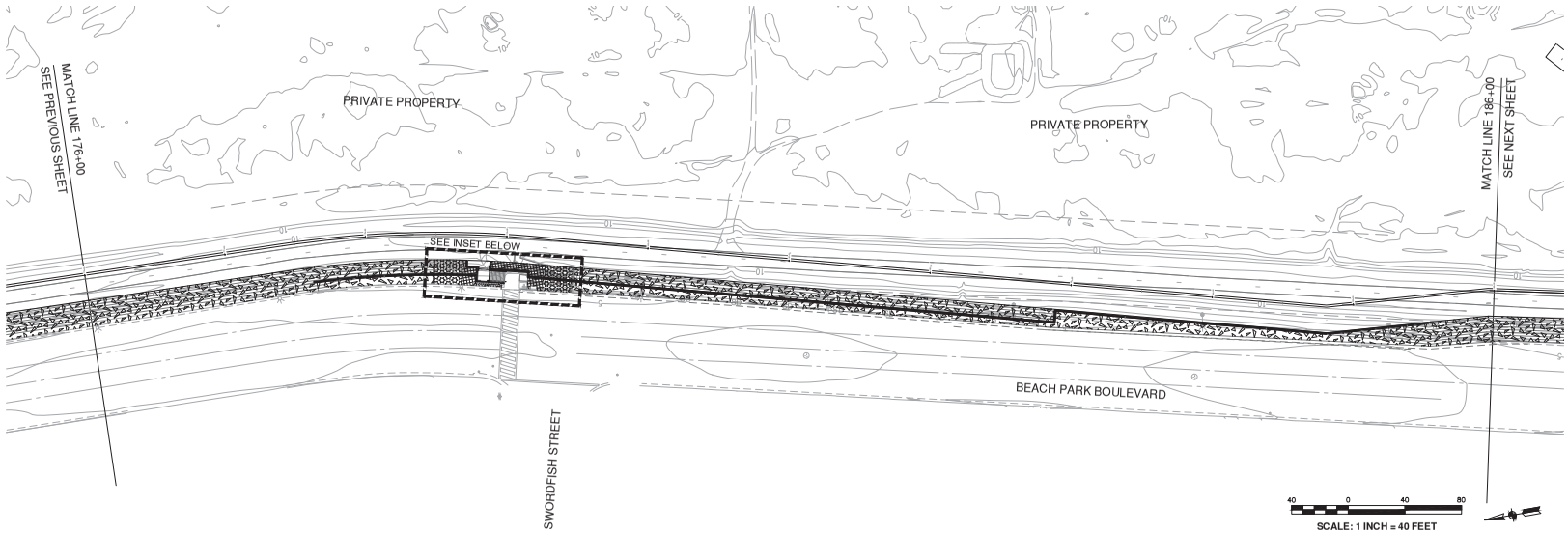
NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.18
SHEET 336 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	SHRUBS AND ORNAMENTAL GRASSES AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	GROUNDCOVERS AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	ICE-PLANT TYPE-1 GROUNDCOVER ALONG BEACH PARK BOULEVARD ONLY - CUTTINGS OBTAINED FROM EXISTING PROJECT AREAS TO BE CLEARED AND GRUBBED, AND EXISTING AREAS ADJACENT TO PROJECT IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 12-INCHES ON CENTER. - INSTALL COIR EROSION CONTROL FABRIC & 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED
	ICE-PLANT TYPE-2 GROUNDCOVER ALONG PRIVATE RESIDENTIAL EDGES - CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 36-INCHES ON CENTER. - EXISTING SHRUBS REMOVED TO BE REPLACED IN KIND, 5-GAL SIZE. - EXISTING TREES REMOVED TO BE REPLACED IN KIND, 15-GAL SIZE. - INSTALL 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED OR EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS WHERE PRESENT.
	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-3: INBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED

GENERAL NOTES - PLANTING ZONES

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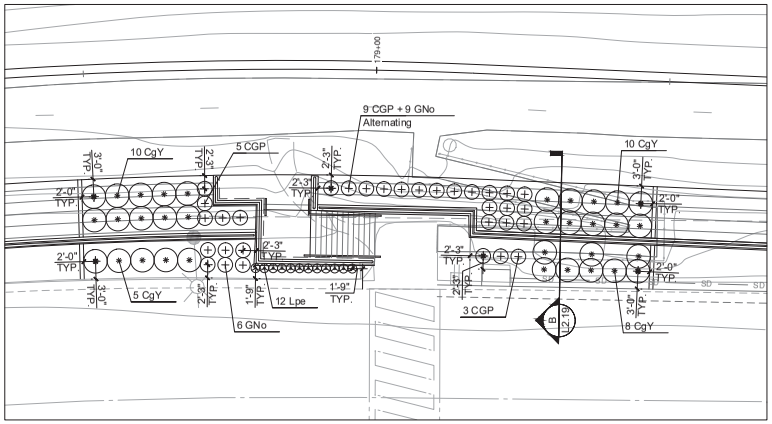
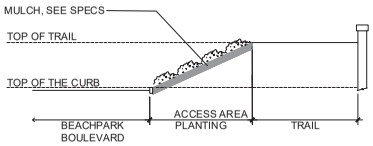


A Enlargement Plan @ STA 179+00
1"= 10'-0"



B Section @ STA 179+00
1"= 10'-0"

DATE:	4/24/2020		
SCALE:	AS SHOWN		
DRAWN BY:			
PROJECT NUMBER:	FOST.12.16		
DESIGNED BY:			
CHECKED BY:	CDA		
SURVEYED BY:	WILSEY—HAM		

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BFS Landscape Architects
LANDSCAPE ARCHITECT
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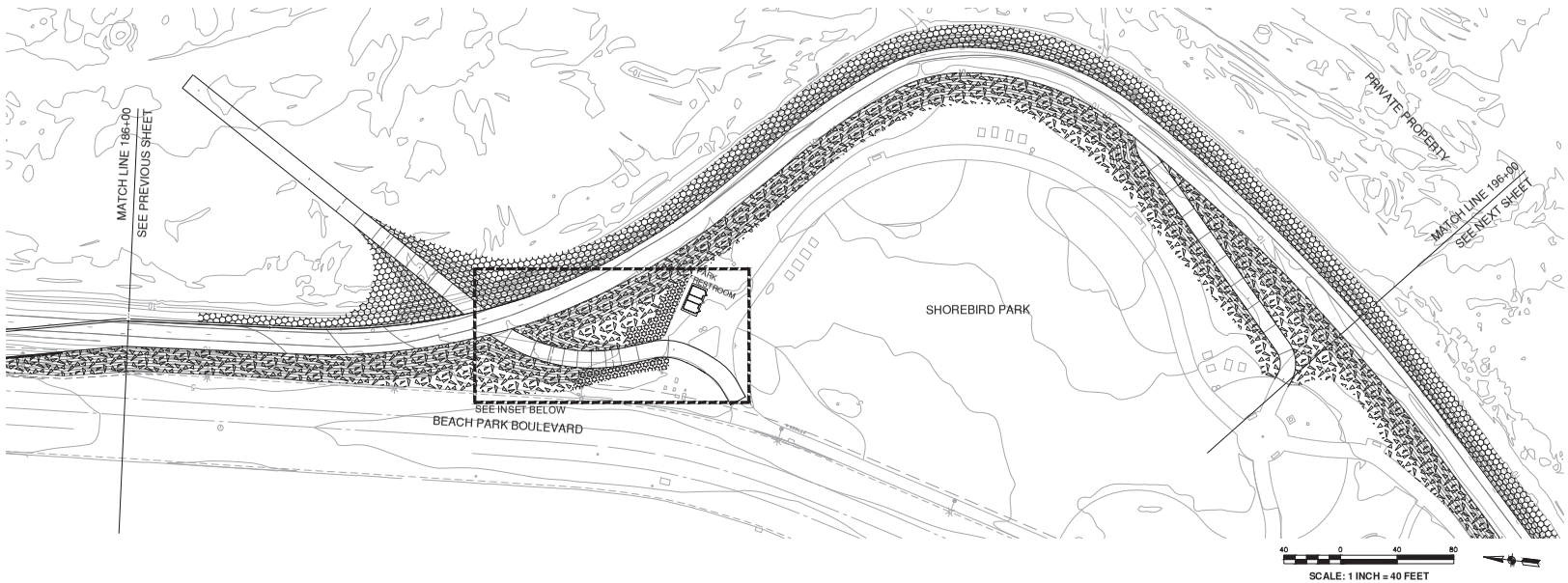
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.19
SHEET 337 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	SHRUBS AND ORNAMENTAL GRASSES AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	GROUNDCOVERS AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	ICE-PLANT TYPE-1 GROUNDCOVER ALONG BEACH PARK BOULEVARD ONLY - CUTTINGS OBTAINED FROM EXISTING PROJECT AREAS TO BE CLEARED AND GRUBBED, AND EXISTING AREAS ADJACENT TO PROJECT IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 12-INCHES ON CENTER. - INSTALL COIR EROSION CONTROL FABRIC & 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED
	ICE-PLANT TYPE-2 GROUNDCOVER ALONG PRIVATE RESIDENTIAL EDGES - CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 36-INCHES ON CENTER. - EXISTING SHRUBS REMOVED TO BE REPLACED IN KIND, 5-GAL SIZE. - EXISTING TREES REMOVED TO BE REPLACED IN KIND, 15-GAL SIZE. - INSTALL 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED OR EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS WHERE PRESENT.
	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-3: INBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED

GENERAL NOTES - PLANTING ZONES

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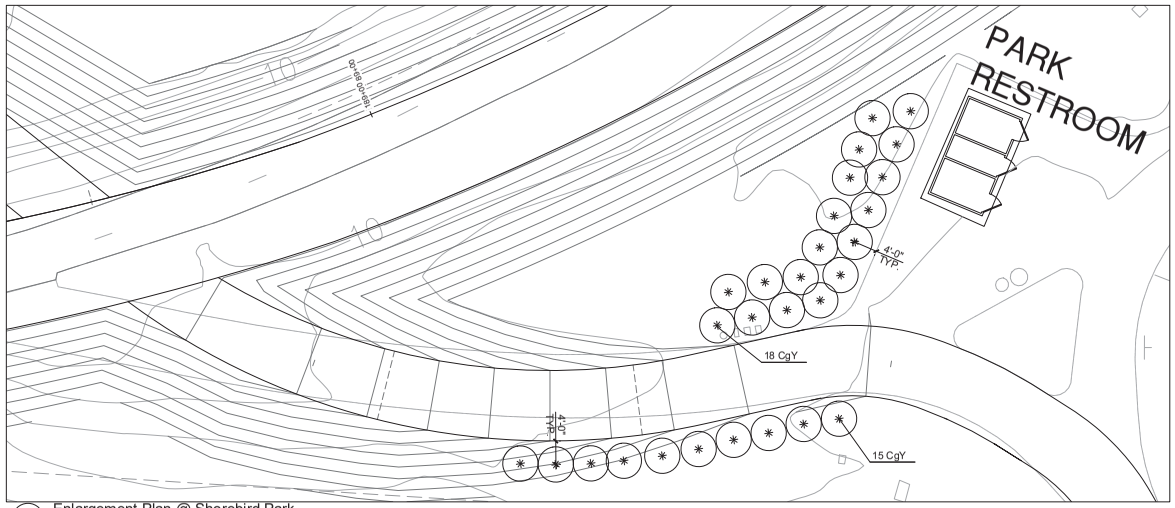

A Enlargement Plan @ Shorebird Park
1"=10'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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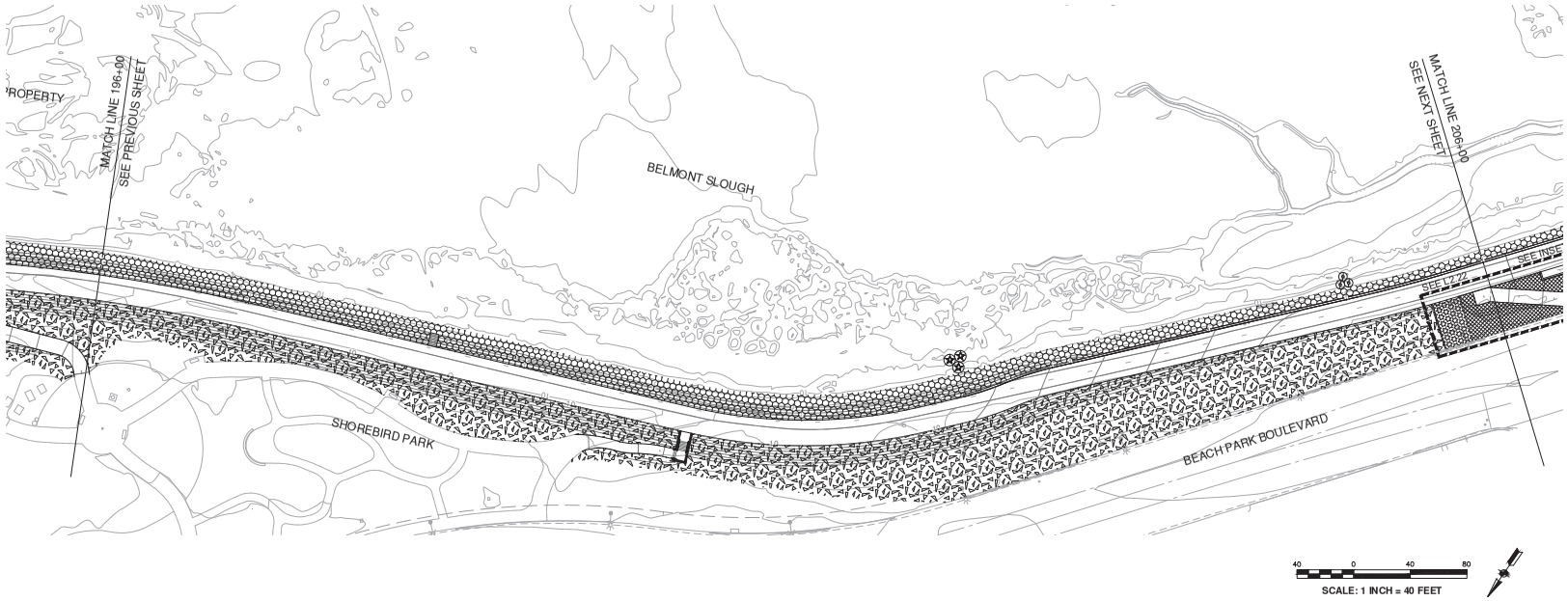
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PLANTING PLAN

SHEET
L-2.20
SHEET 338 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL	AREA
	SHRUBS AND ORNAMENTAL GRASSES AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
	GROUNDCOVERS AT PUBLIC ACCESS AREAS - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. - IRRIGATED
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	ICE-PLANT TYPE-2 GROUNDCOVER ALONG PRIVATE RESIDENTIAL EDGES - CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 36-INCHES ON CENTER. - EXISTING SHRUBS REMOVED TO BE REPLACED IN KIND, 5-GAL SIZE. - EXISTING TREES REMOVED TO BE REPLACED IN KIND, 15-GAL SIZE. - INSTALL 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED OR EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS WHERE PRESENT.
	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
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GENERAL NOTES - PLANTING ZONES

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DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.102 PLTG.DWG
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

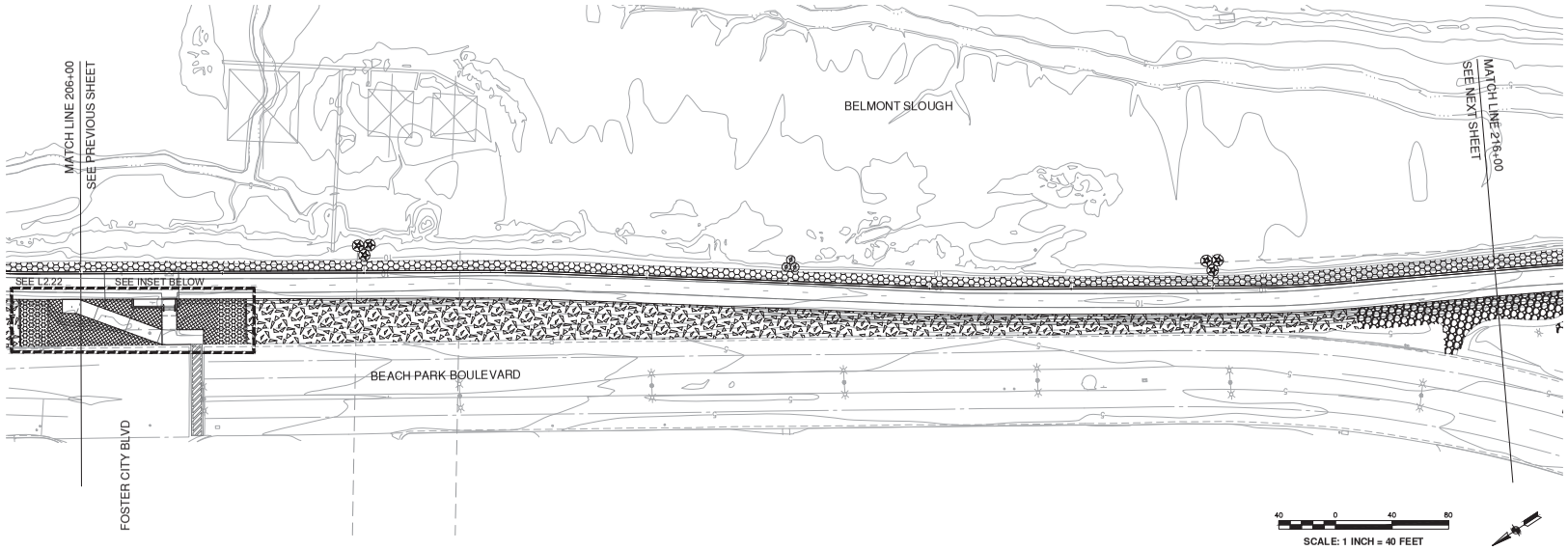
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PLANTING PLAN

SHEET
L-2.21
SHEET 339 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
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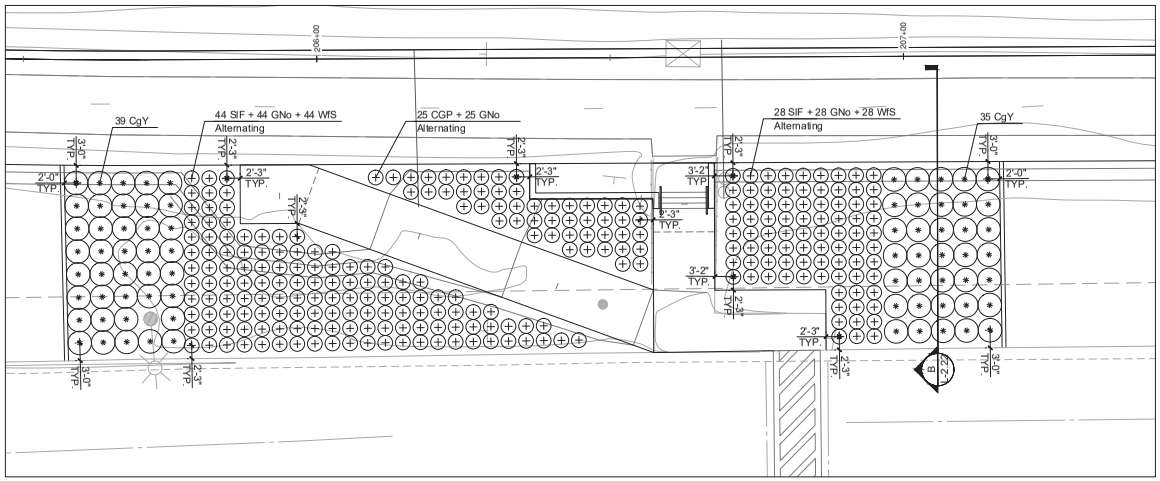
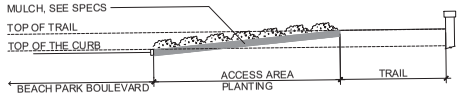


A Enlargement Plan @ STA 206+50
1"=10'-0"



B Section @ STA 206+50
1"=10'-0"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	
CHECKED BY:	CDA
SURVEYED BY:	WILSEY–HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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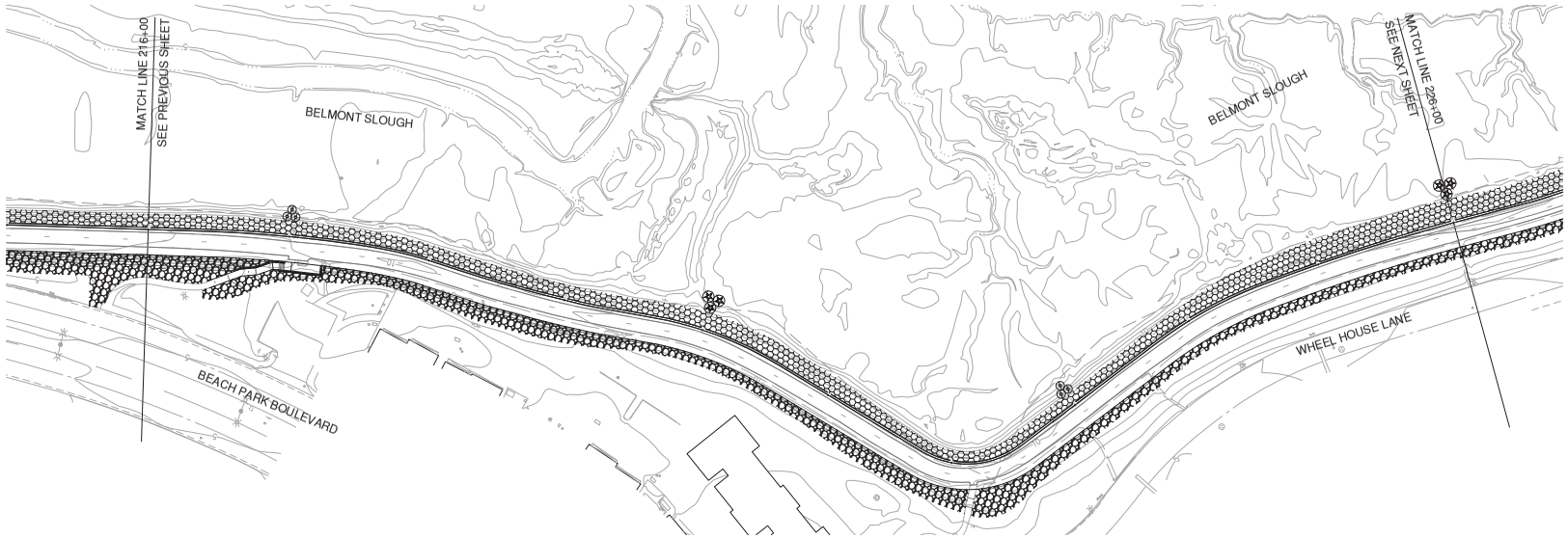
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.22
SHEET 340 OF 384
CIP PROJ. NUMBER
CIP 301–657



40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
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PROJECT NUMBER: FOST.12.16
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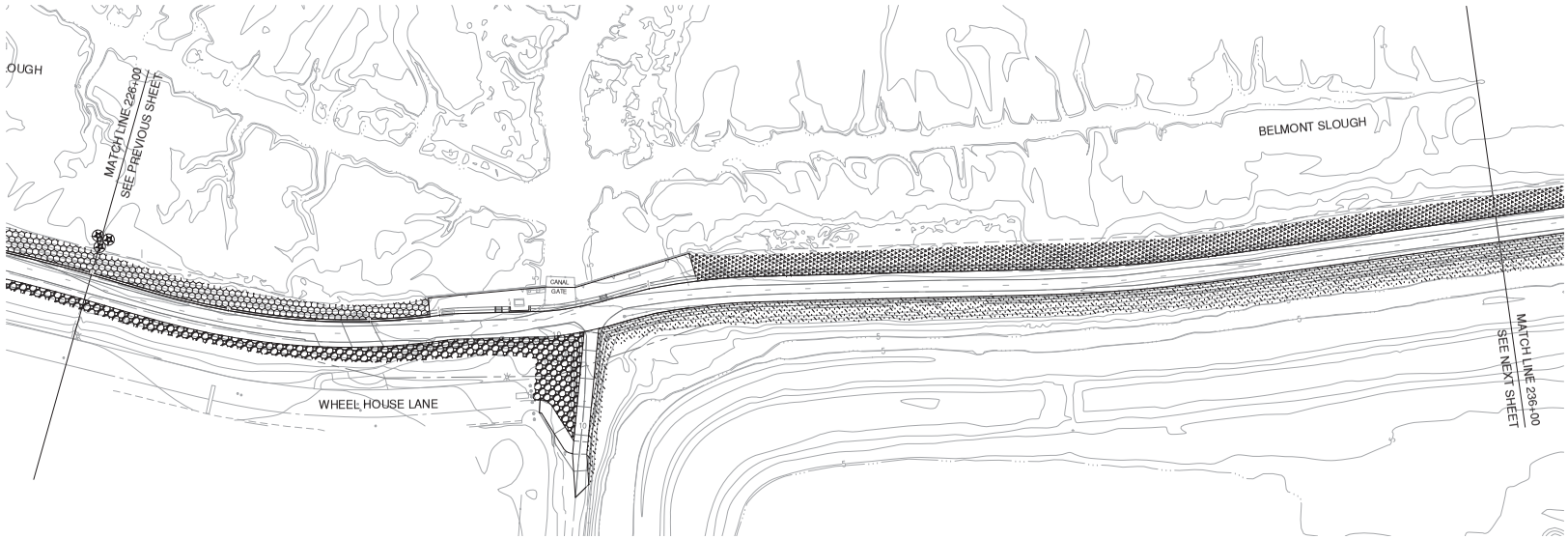
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PLANTING PLAN

SHEET
L-2.23
SHEET 341 OF 384
CIP PROJ. NUMBER
CIP 301-657



PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL	AREA
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	ICE-PLANT TYPE-2 GROUNDCOVER ALONG PRIVATE RESIDENTIAL EDGES - CUTTINGS OBTAINED FROM ADJACENT PROJECT AREAS AS IDENTIFIED IN THE FIELD. - PLANTED APPROXIMATELY 36-INCHES ON CENTER. - EXISTING SHRUBS REMOVED TO BE REPLACED IN KIND, 5-GAL SIZE. - EXISTING TREES REMOVED TO BE REPLACED IN KIND, 15-GAL SIZE. - INSTALL 1½" THK. MULCH. - SEE SPECIFICATIONS. - NON-IRRIGATED OR EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS WHERE PRESENT.
	TURF - SOD - VARIETY TO MATCH EXISTING ADJACENT TURF AND AS APPROVED BY OWNER. - EXISTING SPRINKLER IRRIGATION MODIFIED TO NEW LIMITS.
	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
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SURVEYED BY: WILSEY–HAM

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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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BFS Landscape Architects
LANDSCAPE ARCHITECT
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Mountain View, CA, 94040
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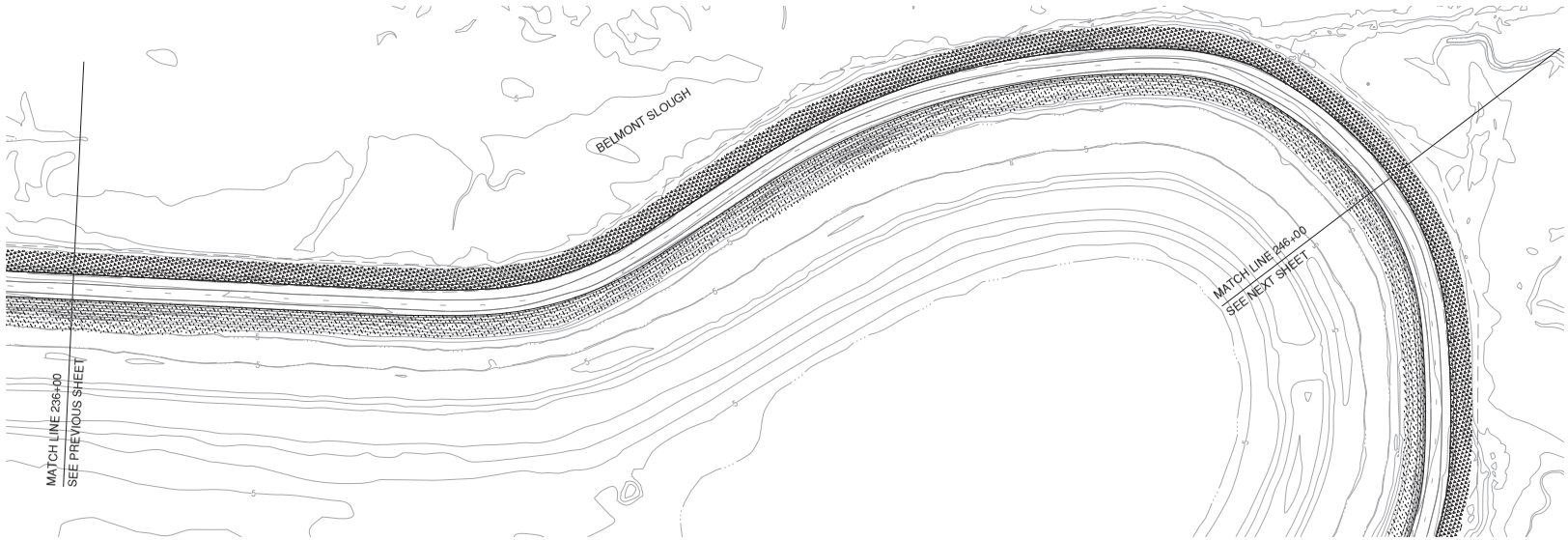
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.24
SHEET 342 OF 384
CIP PROJ. NUMBER
CIP 301–657



40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

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MITIGATION PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

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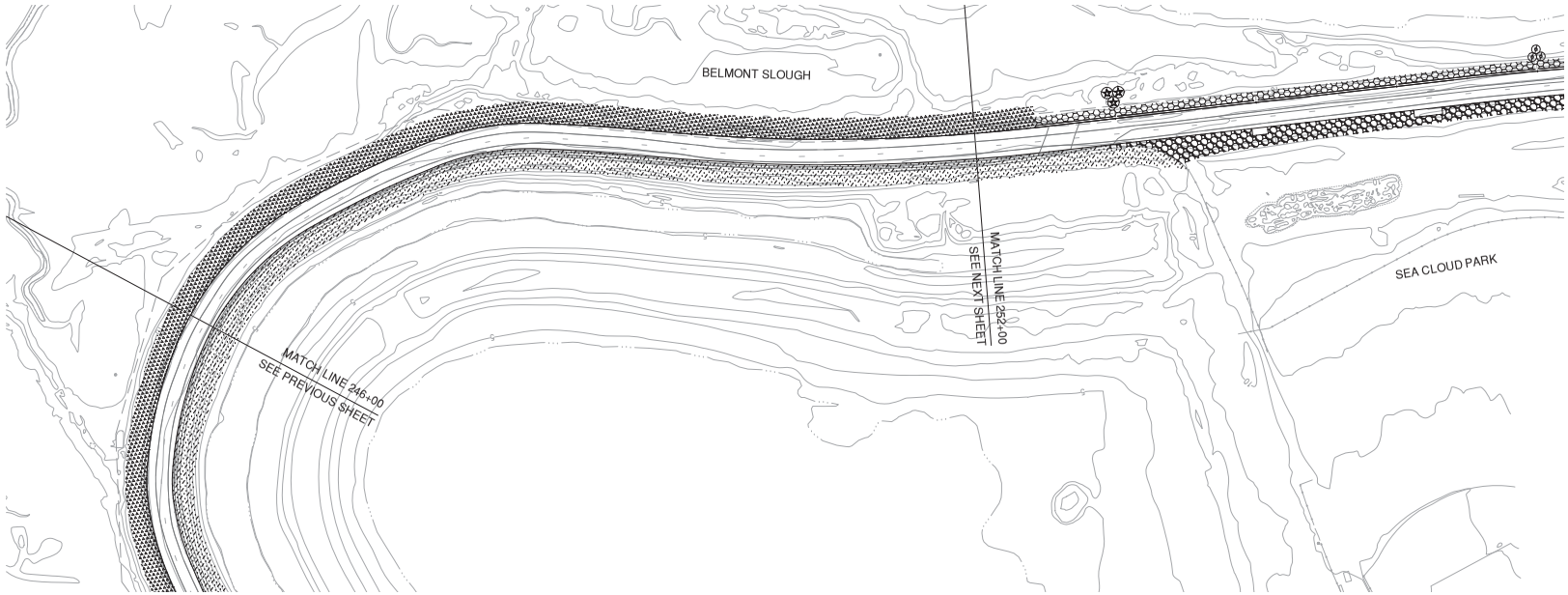
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PLANTING PLAN

SHEET
L-2.25
SHEET 343 OF 384

CIP PROJ. NUMBER
CIP 301-657



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SCALE: 1 INCH = 40 FEET

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MITIGATION PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

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CIP 301-657
PLANTING PLAN

SHEET
L-2.26
SHEET 344 OF 384
CIP PROJ. NUMBER
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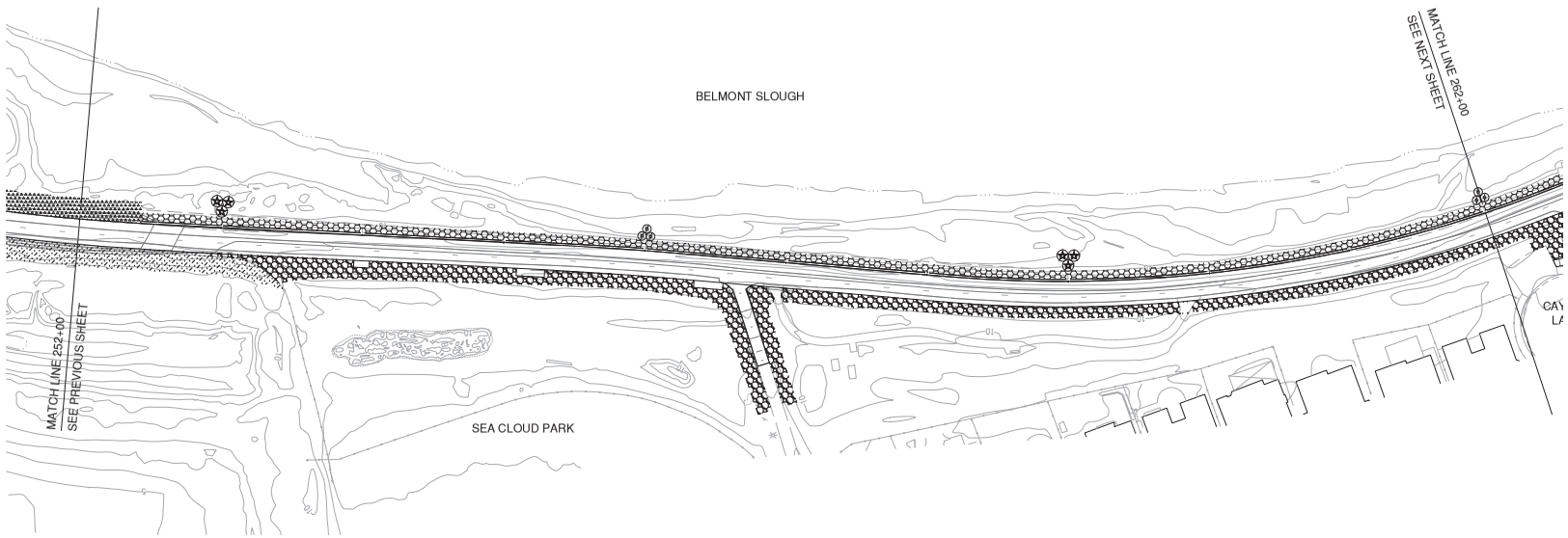

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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40 0 40 80

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CIP 301-657
PLANTING PLAN

SHEET
L-2.27
SHEET 345 OF 384
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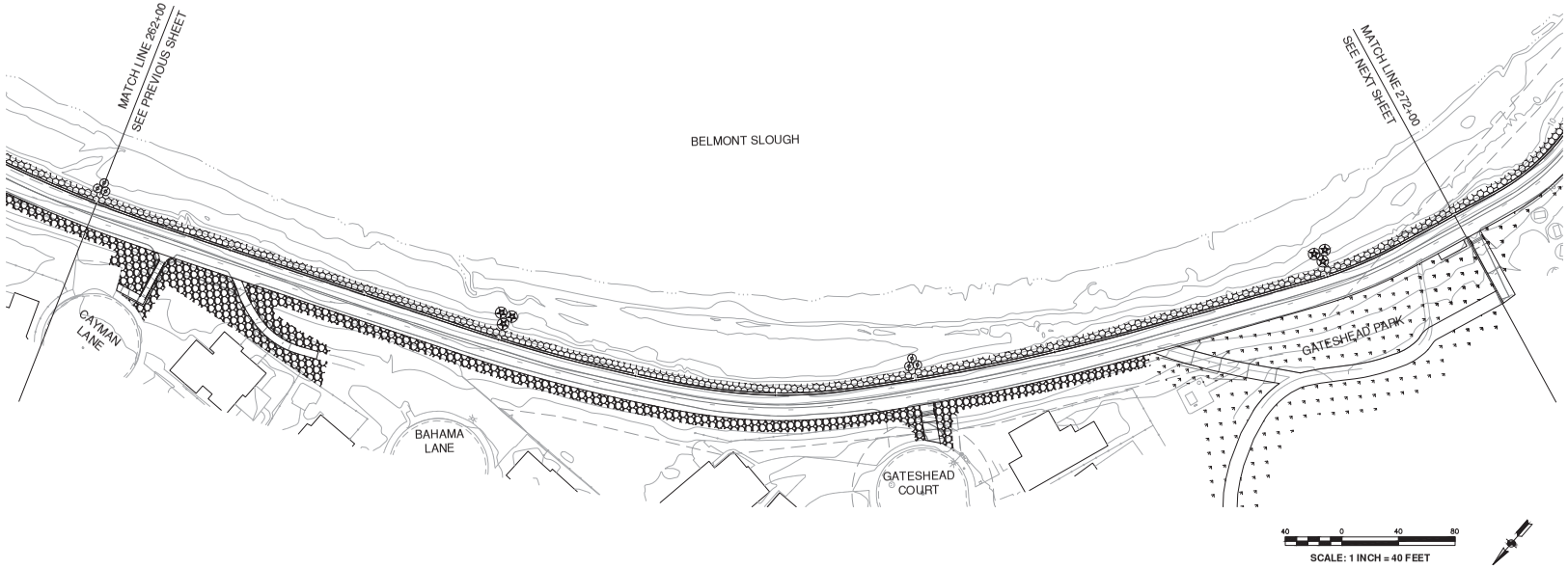

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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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PLANTING PLAN

SHEET
L-2.28
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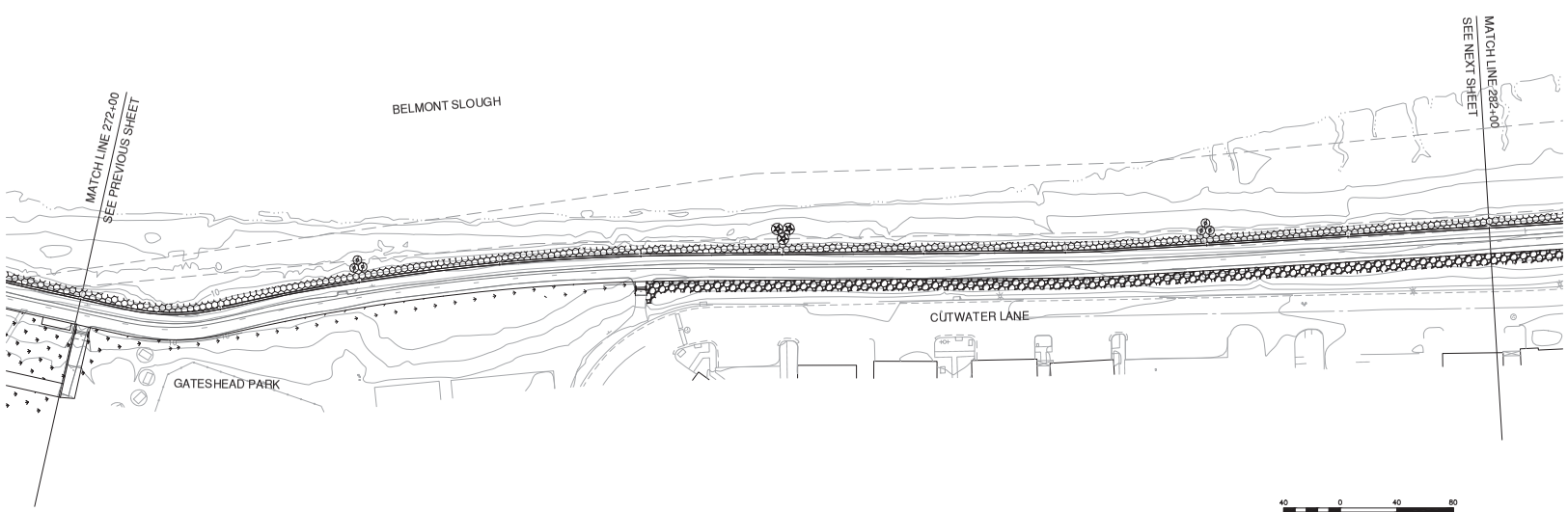

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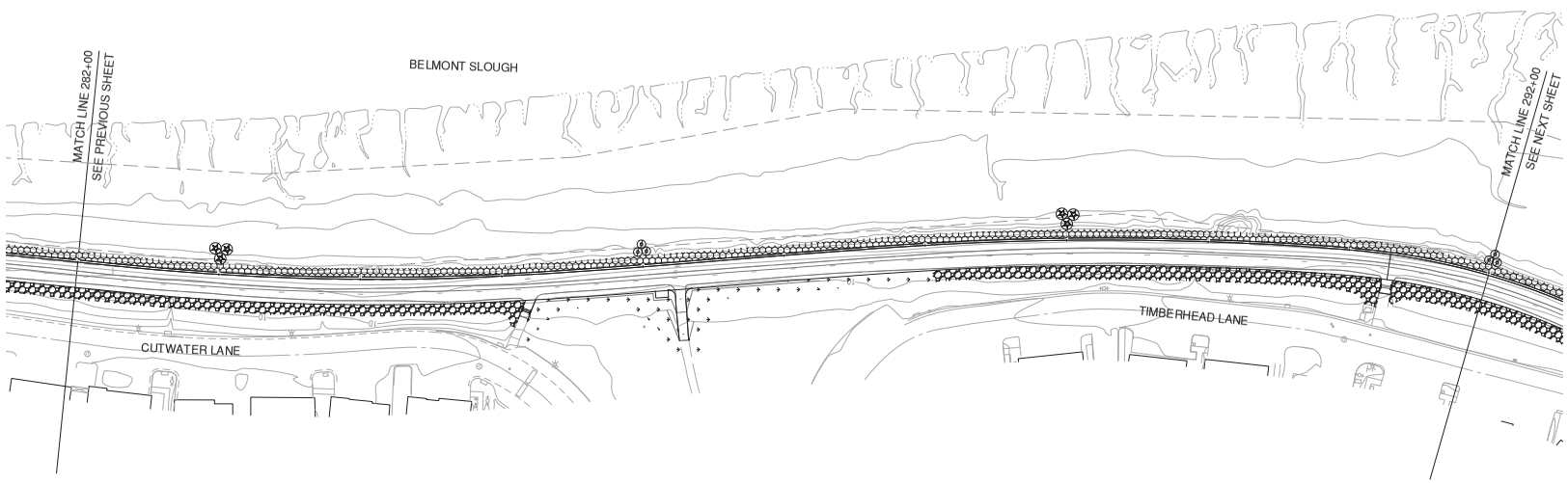

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	SYNTHETIC TURF - SEE TYPICAL DETAIL ON SHEET L2.05
	MULCH ON WEED MAT - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS.

MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
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CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.30
SHEET 348 OF 384
CIP PROJ. NUMBER
CIP 301-657



40 0 40 80

SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: *SEE L2.00 SPECIES LEGEND*

SYMBOL	AREA
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CIP 301-657
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SHEET
L-2.31
SHEET 349 OF 384
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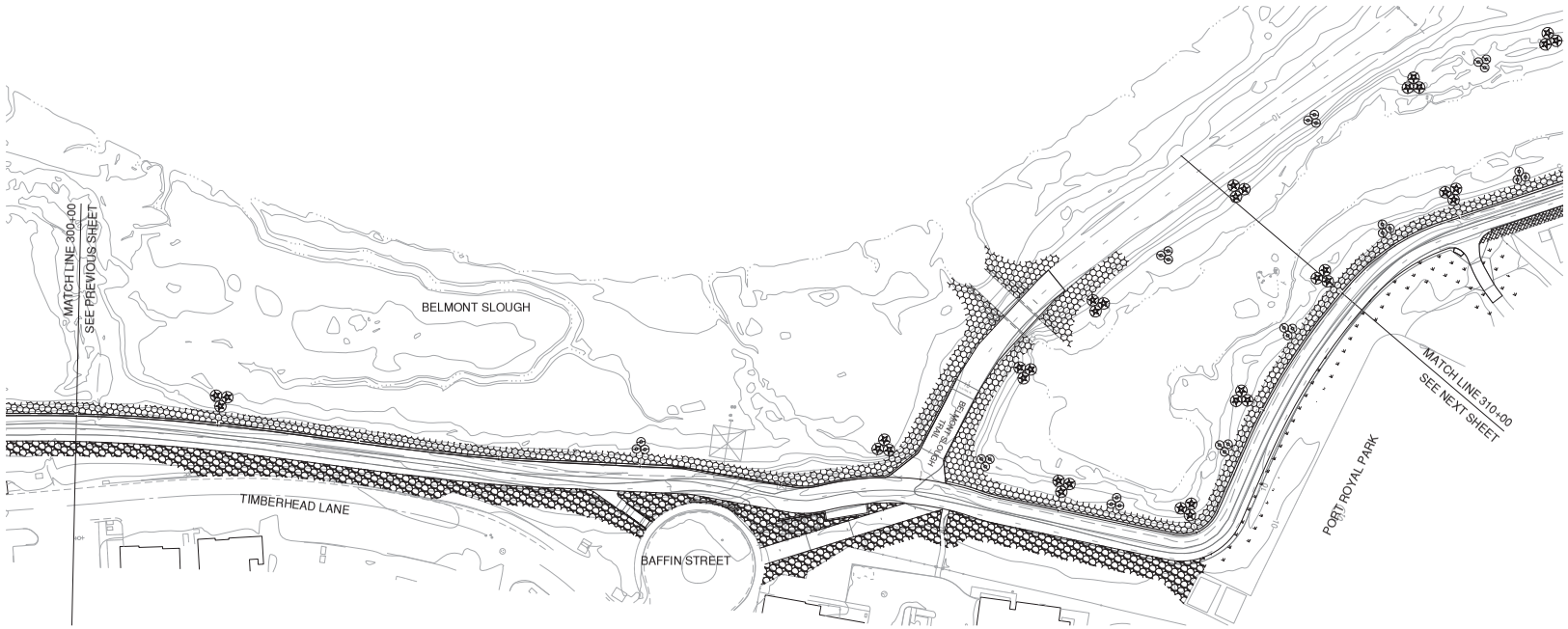

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SCALE: 1 INCH = 40 FEET

PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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CIP 301-657
PLANTING PLAN

SHEET
L-2.32
SHEET 350 OF 384

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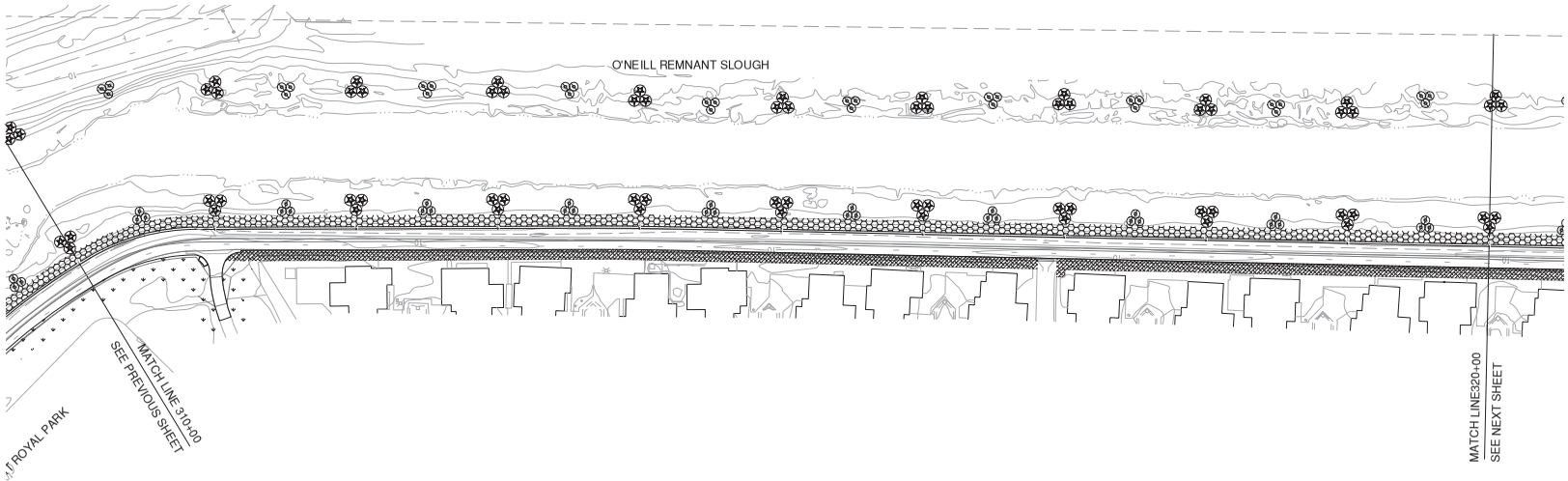

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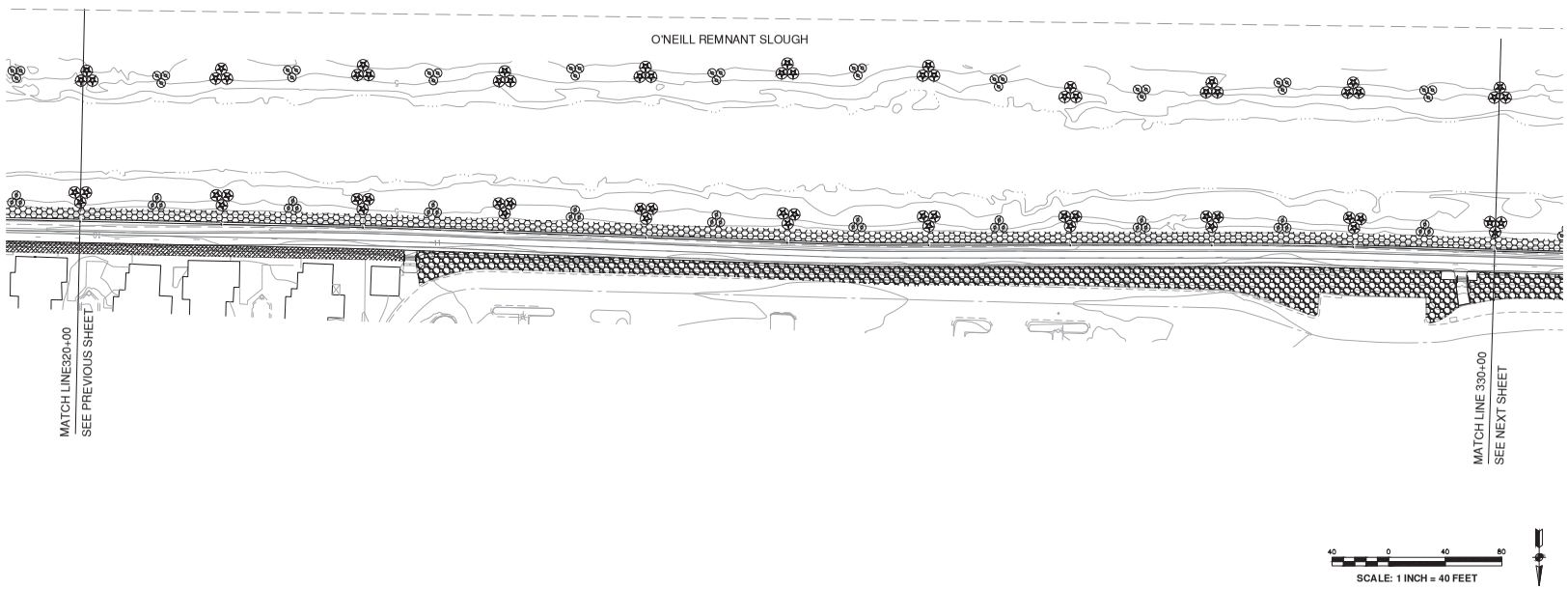

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MITIGATION PLANTING ZONE LEGEND: ***SEE L2.00 SPECIES LEGEND***

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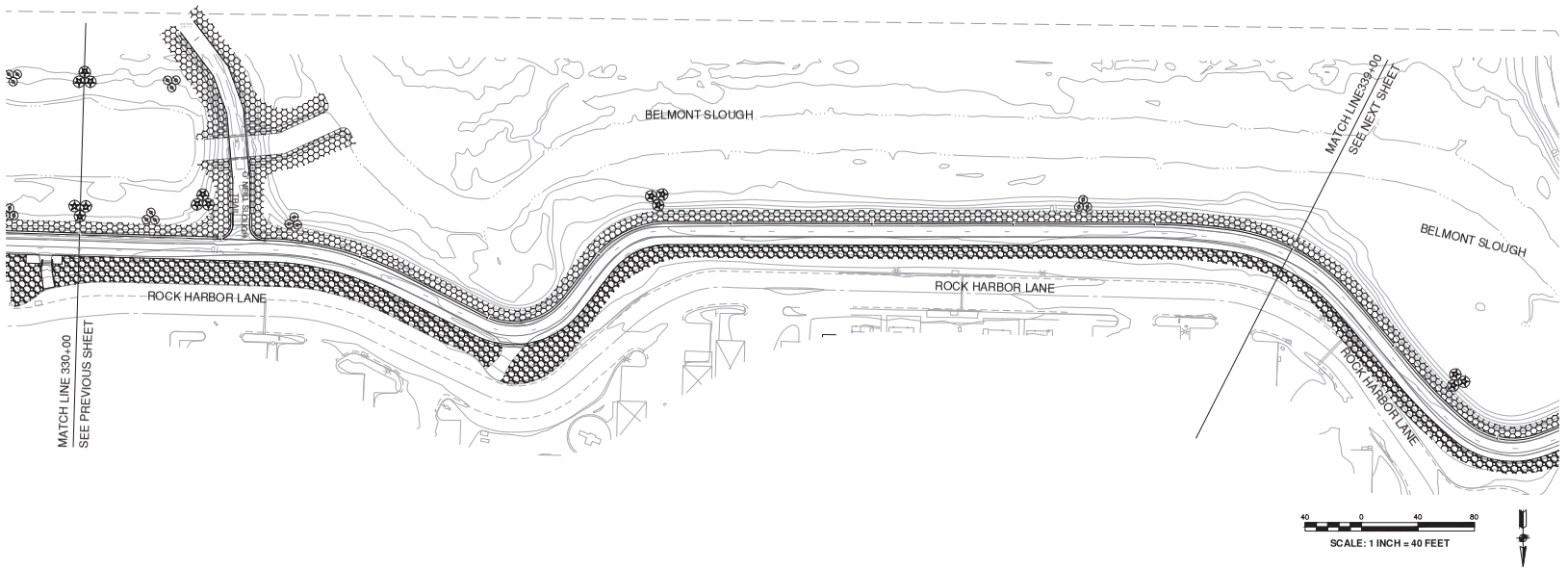

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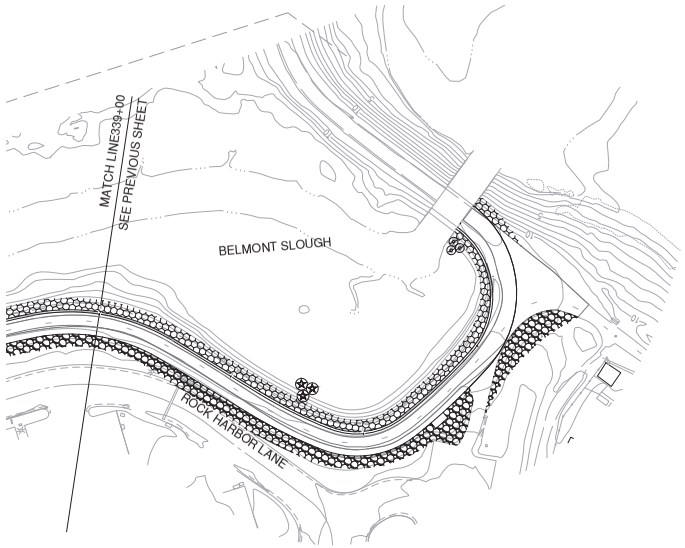

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SYMBOL	AREA
	HYDROSEED AREA-1: OUTBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-2: REFUGE BENCH AT BELMONT SLOUGH AND O'NEILL SLOUGH - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED
	HYDROSEED AREA-3: INBOARD OF LEVEE - INSTALL COIR EROSION CONTROL FABRIC ON ALL SLOPES. - SEE SPECIFICATIONS. SEE L2.00 FOR SPECIES AND PLANTING ELEVATIONS. - NON-IRRIGATED

40 0 40 80

SCALE: 1 INCH = 40 FEET

GENERAL NOTES - PLANTING ZONES

1. Hatch patterns may be rotated from the original shown in the Planting Zone Legend based on the orientation of the plan area in this sheet.
2. Hydroseed areas assume an additional 5-ft buffer beyond toe of graded slope for construction impacts and conform. Do not hydroseed over existing native plants in this buffer area.

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY—HAM

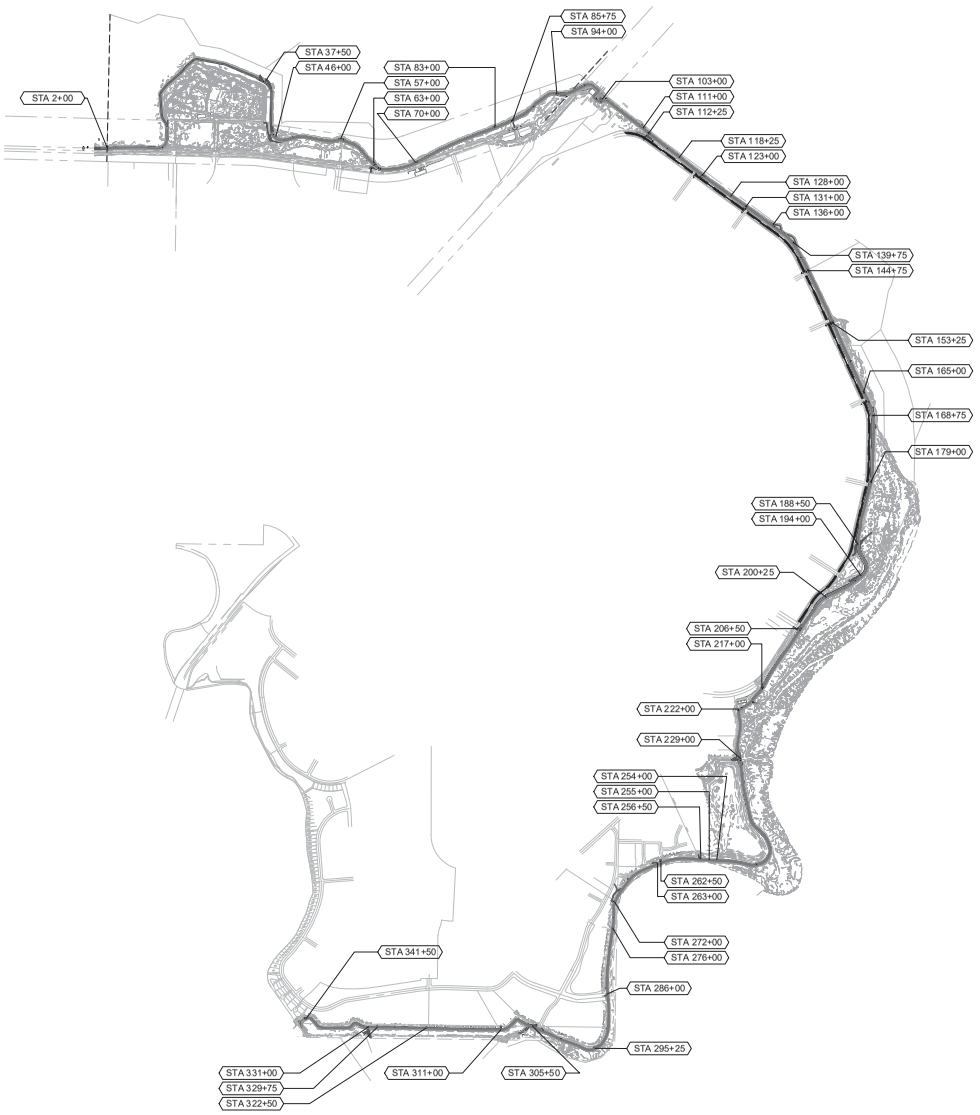
NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1180 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PLANTING PLAN

SHEET
L-2.36
SHEET 354 OF 384
CIP PROJ. NUMBER
CIP 301-657



SITE FURNISHINGS SCHEDULE

~ STATION NUMBER (STA)	BENCH	DONOR BENCH	PICNIC TABLE	BICYCLE RACK	BICYCLE REPAIR STATION	INFORMATION KIOSK	RECYCLE RECEPTACLE	TRASH RECEPTACLE	PET LITTER STATION	SOLAR LIGHTS
~ STA 2+00										
~ STA 37+50	▲▲						▲	▲		
~ STA 46+00	▲▲		▲▲	▲	▲	▲	▲	▲	▲	
~ STA 57+00	▲		▲				▲	▲		
~ STA 63+00							▲	▲		
~ STA 64+00										▲
~ STA 70+00	▲▲		▲	▲			▲	▲		
~ STA 83+00			▲				▲	▲		
~ STA 86+00										▲
~ STA 94+00	▲▲▲						▲	▲▲		▲
~ STA 103+00	▲▲		▲▲▲	▲	▲	▲	▲	▲	▲	▲
~ STA 111+00			▲							
~ STA 112+25	▲						▲	▲	▲	▲
~ STA 118+25	▲									
~ STA 123+00	▲						▲	▲	▲	▲
~ STA 128+00		▲								
~ STA 131+00						▲	▲	▲	▲	▲
~ STA 136+00		▲	▲▲	▲			▲	▲	▲	
~ STA 139+75		▲	▲▲	▲			▲	▲	▲	
~ STA 144+75	▲						▲	▲		▲
~ STA 153+25	▲						▲	▲	▲	▲
~ STA 165+00	▲						▲	▲		▲
~ STA 168+75			▲▲▲				▲	▲		
~ STA 179+00						▲	▲	▲	▲	▲
~ STA 188+50				▲	▲					▲
~ STA 195+50										▲
~ STA 200+25										▲
~ STA 206+50	▲					▲	▲	▲	▲	▲
~ STA 217+00		▲					▲	▲	▲	▲
~ STA 222+00										
~ STA 229+00		▲▲▲▲		▲			▲	▲	▲	
~ STA 254+00		▲								
~ STA 255+00		▲▲								
~ STA 256+50	▲						▲	▲	▲	
~ STA 272+00	▲						▲	▲	▲	
~ STA 276+00										
~ STA 286+00							▲	▲	▲	
~ STA 295+25	▲									
~ STA 305+50	▲					▲	▲	▲	▲	
~ STA 311+00					▲					
~ STA 322+50										
~ STA 329+75	▲						▲	▲	▲	
~ STA 331+00										
~ STA 341+50	▲									
TOTAL	25	11	16	7	4	6	26	27	17	16

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

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BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
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650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE FURNISHINGS - KEY PLAN & SCHEDULE

SHEET
L-3.01
SHEET 355 OF 384
CIP PROJ. NUMBER
CIP 301-657

TRAIL CROSSING OVERLAY

Decorative Pavement Overlay Type#1: See Specs

CROSS STREET NAME — Decorative Pavement Overlay Type#2 w/ Cross Street Name: See Specs

SEE CIVIL PAVING & STRIPING DRAWINGS FOR ADDITIONAL STRIPING INFORMATION.

SITE FURNISHINGS LEGEND *(SEE SHEET L5.01/ L5.02 FOR DETAILS)*

FURNISHINGS SYMBOL	FURNISHINGS TYPE	SPECIFICATION
	BENCH	Manufacturer: Wabash Valley Model #: DS327T (Designer Series, 6-ft) Description: Traditional slat pattern, Surface mount Finish / color: Plastisol finish/ Standard Color - Charcoal Distributor/Contact: Miracle Playsystems/ Jean Tyan (650) 930-0459
	DONOR BENCH	**Manufacturer:** Wabash Valley **Model #:** DS327T (Designer Series, 6-ft) **Description:** Traditional slat pattern, Surface mount. Plaque, unique per bench, provided by Owner, installed By Contractor. **Finish / color:** Plastisol finish/ Standard Color - Charcoal **Distributor/Contact:** Miracle Playsystems/ Jean Tyan (650) 930-0459
	PICNIC TABLE	Manufacturer: Wabash Valley Model #: SPL-DS103T (Designer Series Rectangular 8 ft, Snow Load) Description: Traditional Slat pattern, Surface mount Finish / color: Plastisol finish/ Standard Color - Charcoal Distributor/Contact: Miracle Playsystems/ Jean Tyan (650) 930-0459
	TRASH RECEPTACLE	**Manufacturer:** Wabash Valley **Model #:** LR355 (Wabash, 55 Gal.) **Description:** Custom- Slatted pattern, w/ Dome lids & liner, Surface mount **Finish / color:** Plastisol finish/ Standard Color - Charcoal **Distributor/Contact:** Miracle Playsystems/ Jean Tyan (650) 930-0459
	RECYCLING RECEPTACLE	**Manufacturer:** Wabash Valley **Model #:** LR355 (Wabash, 55 Gal.) **Description:** Custom - Slatted pattern, w/ Dome lids & liner, Surface mount **Finish / color:** Plastisol finish/ Standard Color - Blue **Distributor/Contact:** Miracle Playsystems/ Jean Tyan (650) 930-0459
	PET WASTE STATION	**Manufacturer:** N/A **Model #:** Custom **Description:** Bag Dispenser, custom per drawings, 12"x16"x4", hinged front face, key lock mechanism with master key. Attached with SS fasteners to pole. Surface mount. Custom screen printed as shown. **Finish / color:** Dispenser - 316 Stainless Steel finish; Pole - Powdercoated Galv. Pole / Custom Powdercoat Color - Charcoal **Sign:** 12"x18" .080" Reflective Aluminum, Custom Design Graphic, TBD. **Distributor/Contact:** N/A
	BIKE RACK	**Manufacturer:** Anova Furnishings **Model #:** CIRCLEBRS2 **Description:** Surface Mount in Concrete Paving/ Embed Mount in D.G. Paving/ Finish Grade **Finish / color:** Stainless Steel/ N/A **Distributor/Contact:** Anova Furnishings (800) 231-1327
	BICYCLE REPAIR STATION	**Manufacturer:** Dero **Model #:** Fixit Bike Repair Station, Air Kit 2 Option **Description:** Surface Mount in Concrete **Finish / color:** Powdercoat over Galvanized finish/ Standard Color - TBD **Distributor/Contact:** Dero (888) 337-6729
	INFORMATION KIOSK	**Manufacturer:** Enviro Signs/ Interpretive Graphics **Model #:** NPS Style Aluminum Bulletin Case - Upright with Posts **Description:** 48" HIGH X 36" WIDE Case - 43.5" x 31.5" visual area and two right side keyed alike. 3"X 3"X 96" Posts. Delux Surface Mount in Concrete **Finish / color:** Custom Marine grade finish/ Custom Color - Charcoal **Distributor/Contact:** Interpretive Graphics / Envirosigns (888) 492-5377
	SOLAR BOLLARD LIGHT	**Manufacturer:** First Light Technologies **Model #:** PLB - 102-04 (PLB Series) **Description:** 36" HIGH Bollard, Options - TBD. Surface Mount in Concrete **Finish / color:** TGIC Powdercoat/ Custom Color - Charcoal **Distributor/Contact:** First Light Technologies Ltd. (844) 279-8754
QTY = (6) LOCATIONS TBD	INTERPRETIVE SIGN	**Manufacturer:** Enviro Signs/ Interpretive Graphics **Model #:** NPS Low Profile Cantilever Exhibit w/ Duraframe. Custom Marine grade finish/ Custom Color - Charcoal **Panel:** 24" X 36" Durareader Panel - Outdoor Long-term Use. Owner to supply artwork. **Mounting:** (4) Embed Mount, (2) Surface Mount **Distributor/Contact:** Interpretive Graphics / Envirosigns (888) 492-5377
	SHADE STRUCTURE	Refer Shade Structure Specs

DATE: 4/24/2020
SCALE: AS SHOWN
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PROJECT NUMBER: FOST.12.16
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CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

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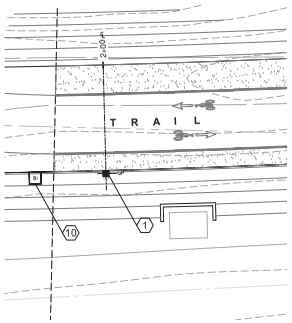
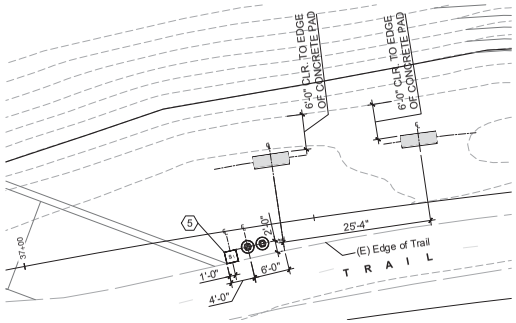
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE FURNISHINGS - LEGEND

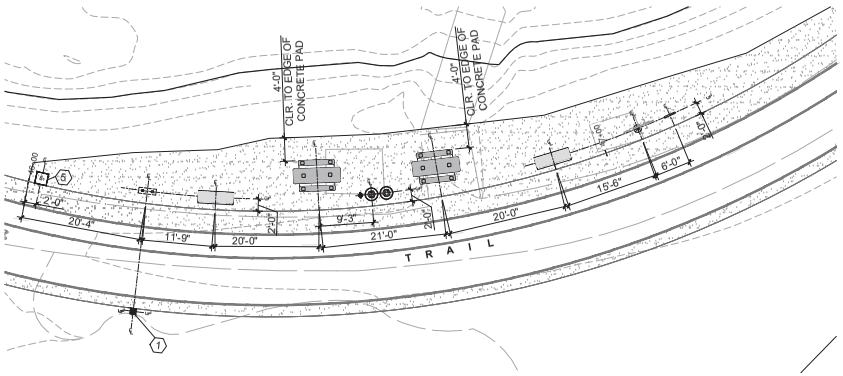
SHEET
L-3.02
SHEET 356 OF 384
CIP PROJ. NUMBER
CIP 301-657



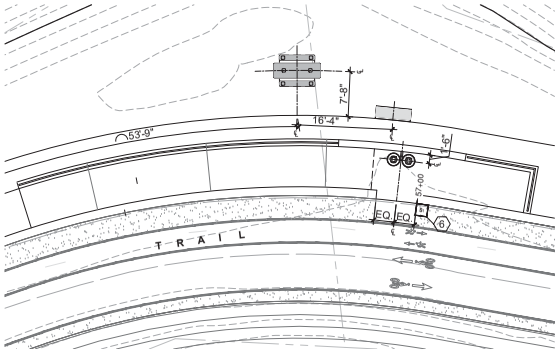
0 Site Furnishings @ STA 2+00
1" = 10'-0"



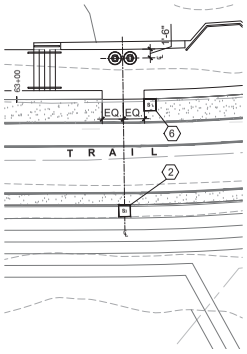
1 Site Furnishings @ STA 37+00
1" = 10'-0"



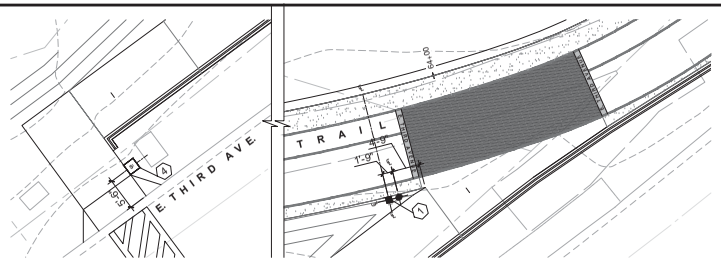
2 Site Furnishings @ STA 46+00
1" = 10'-0"



3 Site Furnishings @ STA 57+00
1" = 10'-0"



4 Site Furnishings @ STA 63+00
1" = 10'-0"



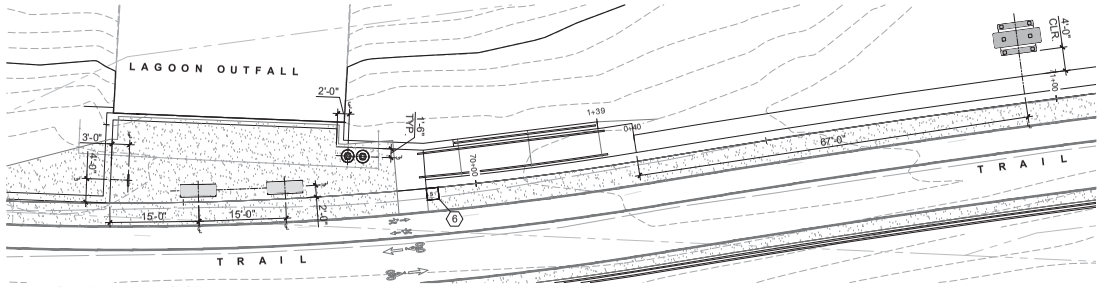
5 Site Furnishings @ STA 64+00
1" = 10'-0"

SIGN REFERENCE NOTES

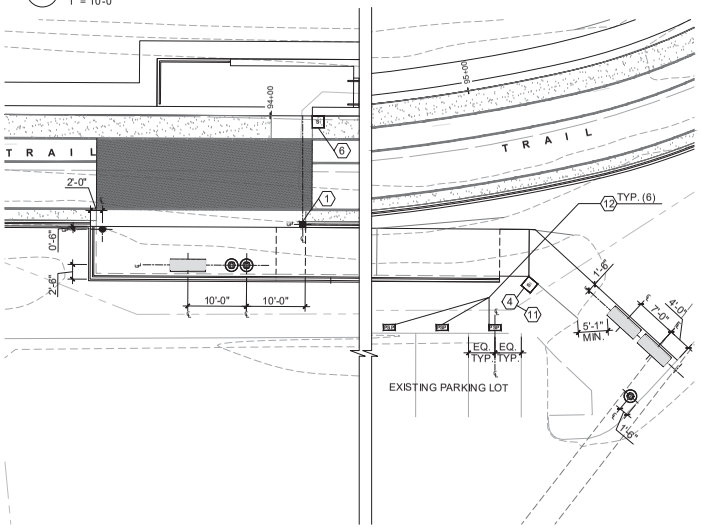
1. Trail Identity Sign
2. Trail Use/ Speed/ Mile Marker Signs
3. Fire Access Sign
4. MC/MV Prohibition Sign
5. Alcohol Prohibition Sign - Pole Mounted
6. Acohol Prohibition Sign - Wall Mounted
7. Crosswalk Warning Sign - Left Arrow
8. Crosswalk Warning Sign - Right Arrow
9. Bird Feeding Sign
10. City Limit Sign
11. Public Shore Access Sign
12. Public Shore Parking Sign

See Proposed Signage Plan & Schedule for Location

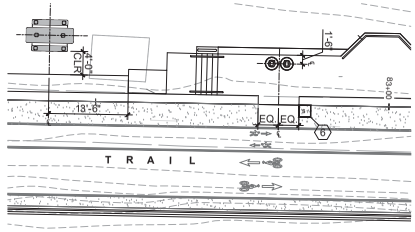
See Construction Details for Sign mounting and Graphics



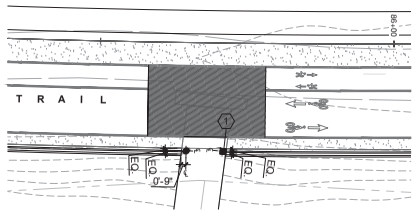
6 Site Furnishings @ STA 70+00
1" = 10'-0"



9 Site Furnishings @ STA 94+00
1" = 10'-0"



7 Site Furnishings @ STA 83+00
1" = 10'-0"



8 Site Furnishings @ STA 86+00
1" = 10'-0"

DATE:	4/24/2020			
SCALE:	AS SHOWN			
DRAWN BY:	HS/ AP			
PROJECT NUMBER:	FOST.12.16			
DESIGNED BY:	HS/ AP			
CHECKED BY:	AP			
SURVEYED BY:	WILSEY-HAM			
NO.	BY	DATE	REVISIONS	
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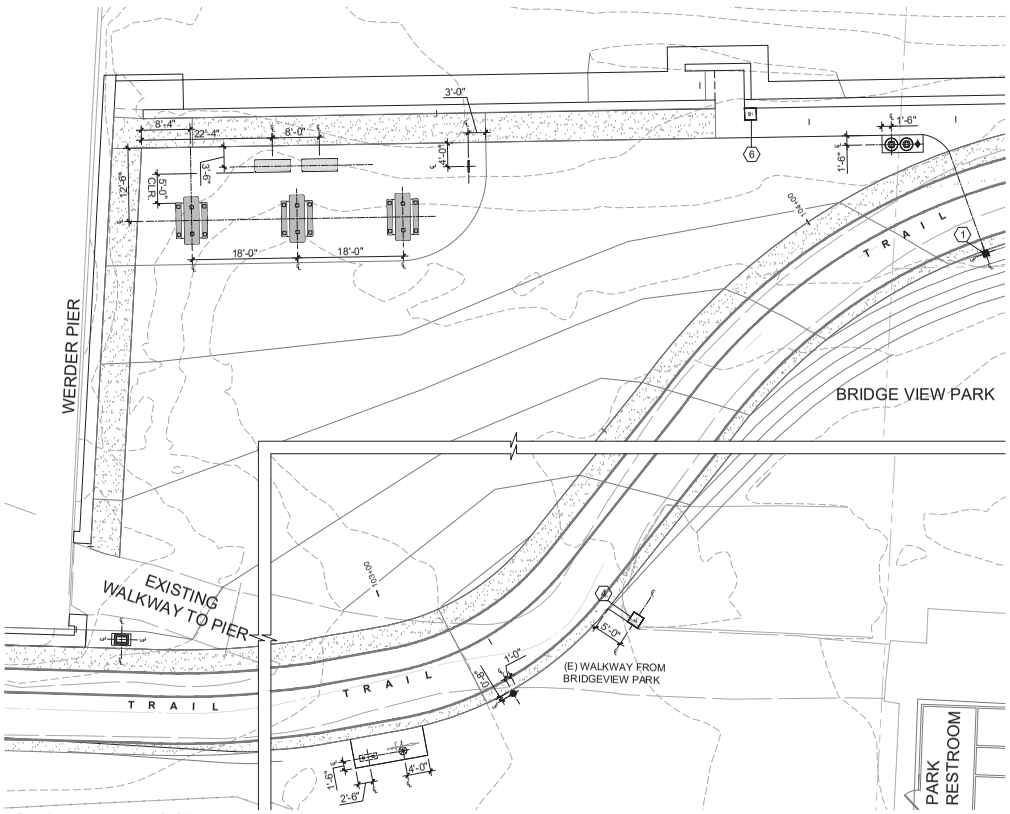
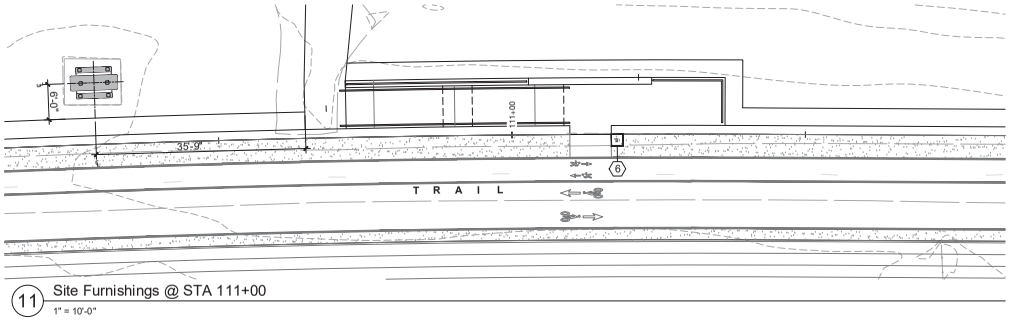
LANDSCAPE ARCHITECT
1580 W El Camino Real #12
Mountain View, CA 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE FURNISHINGS - LAYOUT PLANS

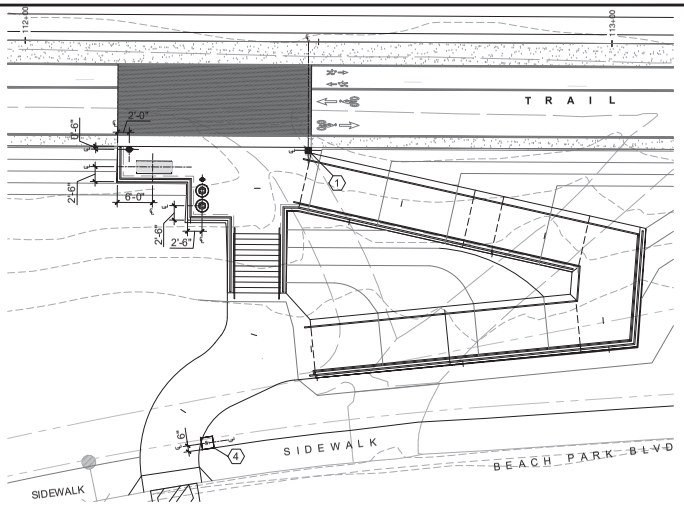
SHEET
L-3.03
SHEET 357 OF 384
CIP PROJ. NUMBER
CIP 301-657



10 Site Furnishings @ STA 103+00
1" = 10'-0"



11 Site Furnishings @ STA 111+00
1" = 10'-0"



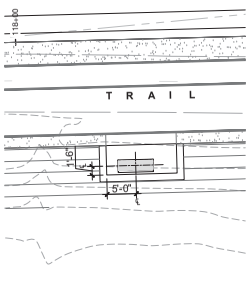
12 Site Furnishings @ STA 112+25
1" = 10'-0"

SIGN REFERENCE NOTES

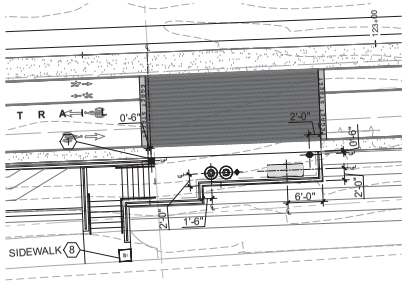
1. Trail Identity Sign
2. Trail Use/ Speed/ Mile Marker Signs
3. Fire Access Sign
4. MC/MV Prohibition Sign
5. Alcohol Prohibition Sign - Pole Mounted
6. Acohol Prohibition Sign - Wall Mounted
7. Crosswalk Warning Sign - Left Arrow
8. Crosswalk Warning Sign - Right Arrow
9. Bird Feeding Sign
10. City Limit Sign
11. Public Shore Access Sign
12. Public Shore Parking Sign

See Proposed Signage Plan & Schedule for Location

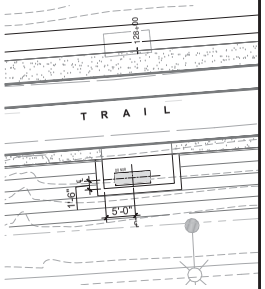
See Construction Details for Sign mounting and Graphics



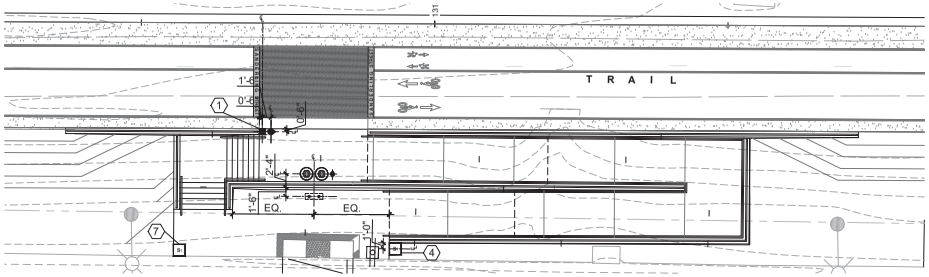
13 Site Furnishings @ STA 118+25
1" = 10'-0"



14 Site Furnishings @ STA 122+75 (Egret Street)
1" = 10'-0"



15 Site Furnishings @ STA 128+00
1" = 10'-0"



16 Site Furnishings @ STA 131+00 (Sanderling Street)
1" = 10'-0"

DATE: 4/24/2020				
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SURVEYED BY: WILSEY-HAM	NO.	BY	DATE	REVISIONS
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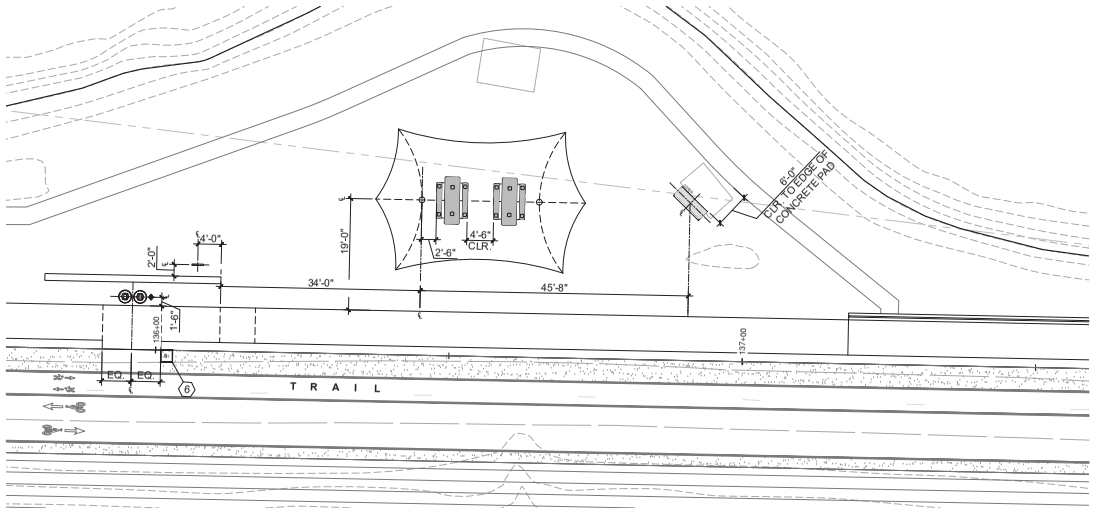
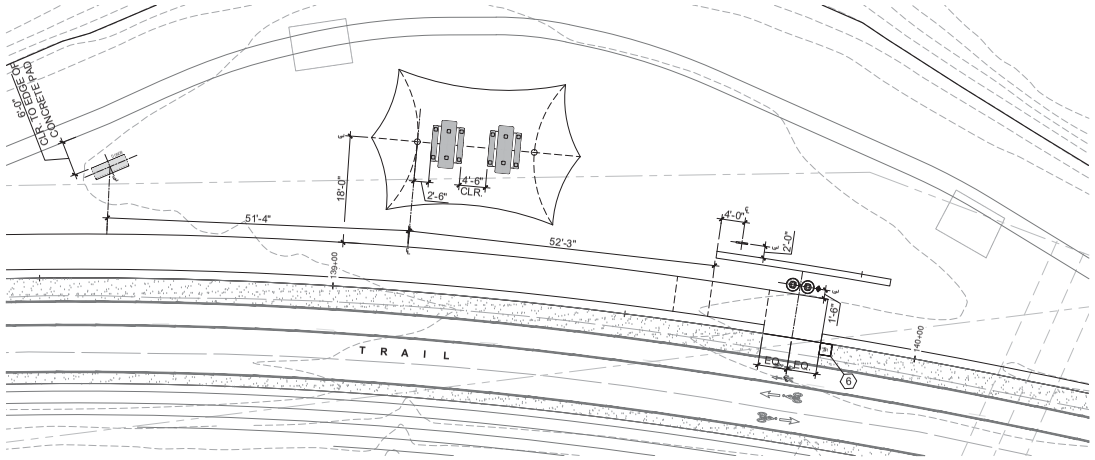
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE FURNISHINGS - LAYOUT PLANS

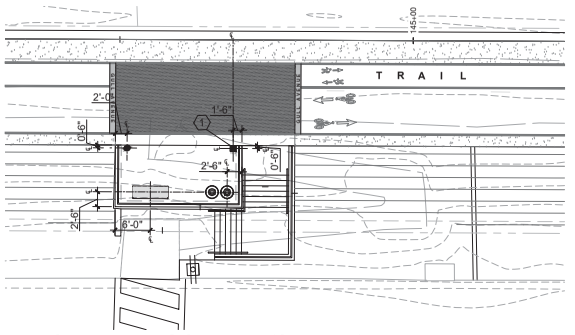
SHEET
L-3.04
SHEET 358 OF 384
CIP PROJ. NUMBER
CIP 301-657



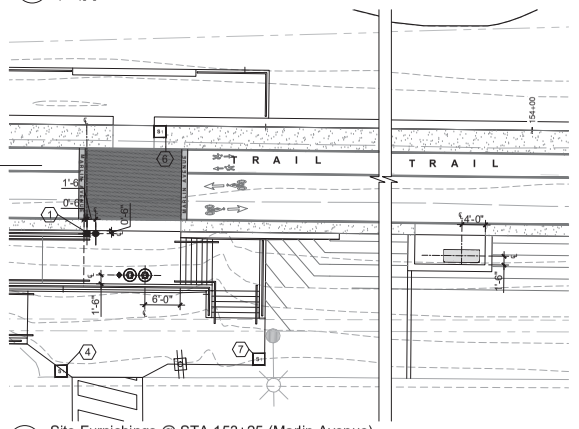
17 Site Furnishings @ STA 136+00
1" = 10'-0"



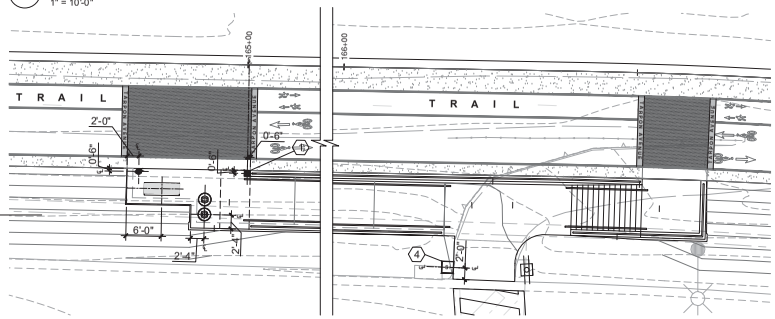
18 Site Furnishings @ STA 139+75
1" = 10'-0"



19 Site Furnishings @ STA 144+75 (Gull Avenue)
1" = 10'-0"



20 Site Furnishings @ STA 153+25 (Marlin Avenue)
1" = 10'-0"



21 Site Furnishings @ STA 165+00 (Tarpon Avenue)
1" = 10'-0"

SIGN REFERENCE NOTES

1. Trail Identity Sign
2. Trail Use/ Speed/ Mile Marker Signs
3. Fire Access Sign
4. MC/MV Prohibition Sign
5. Alcohol Prohibition Sign - Pole Mounted
6. Acohol Prohibition Sign - Wall Mounted
7. Crosswalk Warning Sign - Left Arrow
8. Crosswalk Warning Sign - Right Arrow
9. Bird Feeding Sign
10. City Limit Sign
11. Public Shore Access Sign
12. Public Shore Parking Sign

See Proposed Signage Plan & Schedule for Location

See Construction Details for Sign mounting and Graphics

DATE:	4/24/2020
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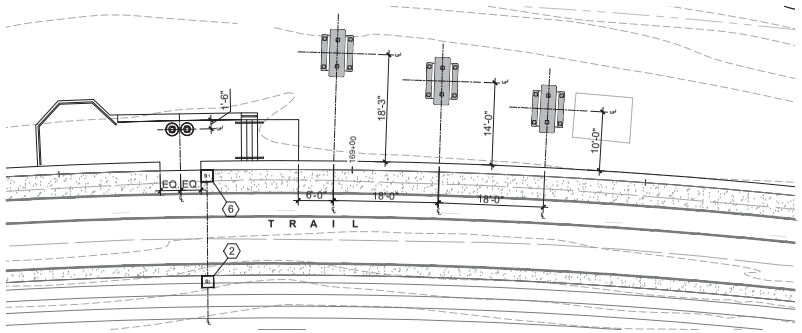
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

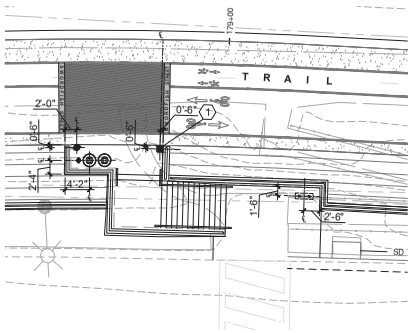
BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE FURNISHINGS - LAYOUT PLANS

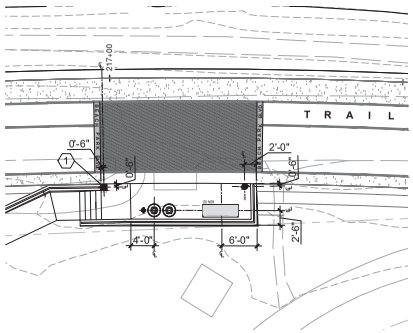
SHEET
L-3.05
SHEET 359 OF 384
CIP PROJ. NUMBER
CIP 301-657



22 Site Furnishings @ STA 168+75
1" = 10'-0"



23 Site Furnishings @ STA 179+00 (Swordfish Street)
1" = 10'-0"



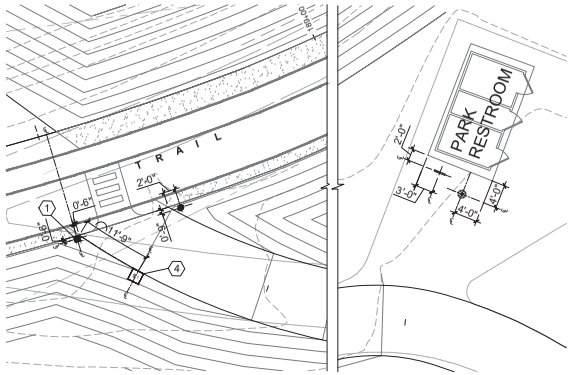
28 Site Furnishings @ STA 217+00
1" = 10'-0"

SIGN REFERENCE NOTES

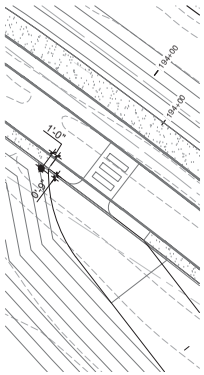
1. Trail Identity Sign
2. Trail Use/ Speed/ Mile Marker Signs
3. Fire Access Sign
4. MC/MV Prohibition Sign
5. Alcohol Prohibition Sign - Pole Mounted
6. Acohol Prohibition Sign - Wall Mounted
7. Crosswalk Warning Sign - Left Arrow
8. Crosswalk Warning Sign - Right Arrow
9. Bird Feeding Sign
10. City Limit Sign
11. Public Shore Access Sign
12. Public Shore Parking Sign

See Proposed Signage Plan & Schedule for Location

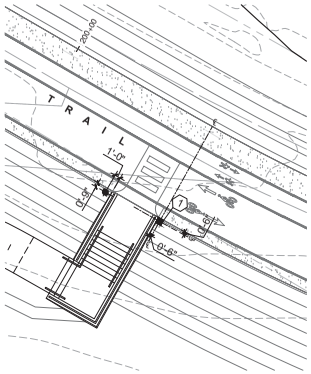
See Construction Details for Sign mounting and Graphics



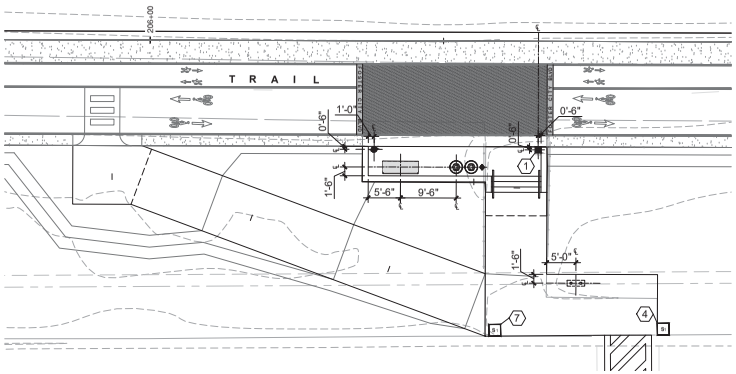
24 Site Furnishings @ STA 188+50
1" = 10'-0"



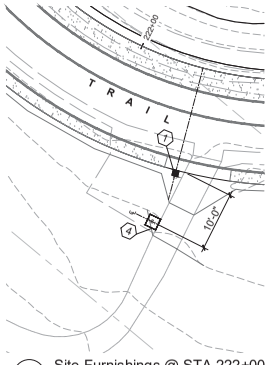
25 Site Furnishings @ STA 194+00
1" = 10'-0"



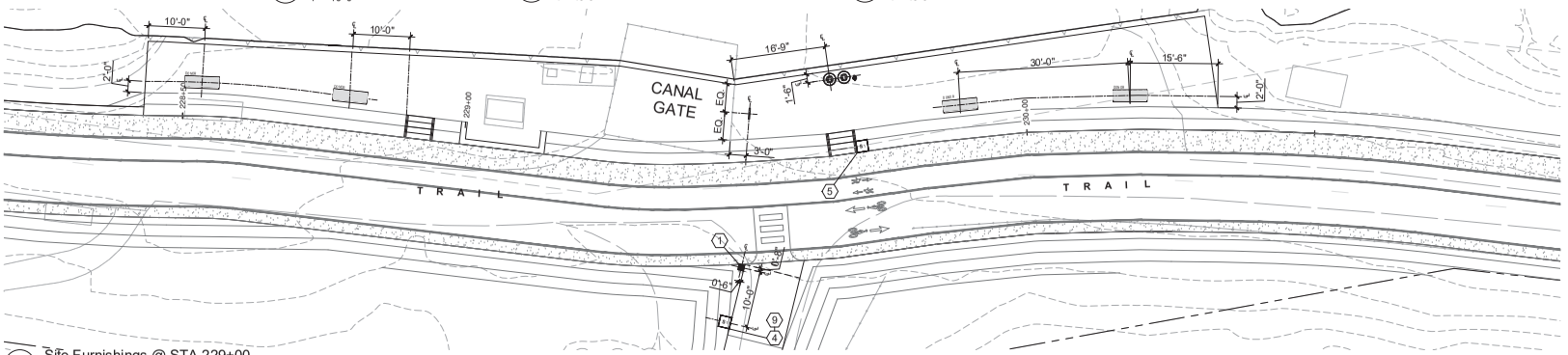
26 Site Furnishings @ STA 200+25
1" = 10'-0"



27 Site Furnishings @ STA 206+50 (Foster City Boulevard)
1" = 10'-0"



29 Site Furnishings @ STA 222+00
1" = 10'-0"



30 Site Furnishings @ STA 229+00
1" = 10'-0"

DATE:	4/24/2020			
SCALE:	AS SHOWN			
DRAWN BY:	HS/ AP			
PROJECT NUMBER:	FOST.12.16			
DESIGNED BY:	HS/ AP			
CHECKED BY:	AP			
SURVEYED BY:	WILSEY—HAM			
NO.	BY	DATE	REVISIONS	
1		07/31/20	CONFORMED SET	

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
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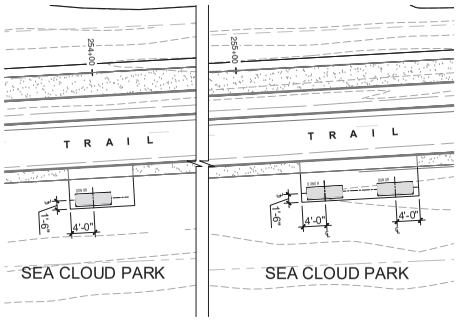
PHONE (650) 286-3270 FAX (650) 345-4626

LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA

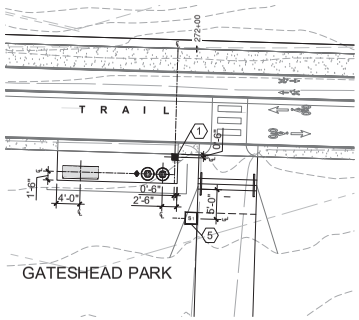
BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE FURNISHINGS - LAYOUT PLANS

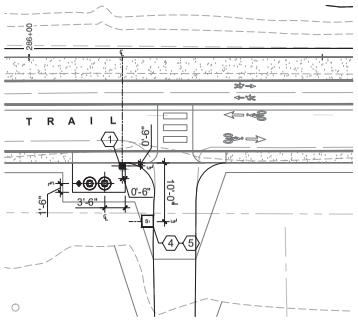
SHEET
L-3.06
SHEET 360 OF 384
CIP PROJ. NUMBER
CIP 301–657



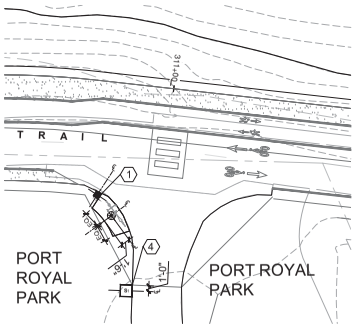
31 Site Furnishings @ STA 254+00/ @ STA 255+00
1" = 10'-0"



34 Site Furnishings @ STA 272+00
1" = 10'-0"



36 Site Furnishings @ STA 286+00
1" = 10'-0"



39 Site Furnishings @ STA 311+00
1" = 10'-0"

SIGN REFERENCE NOTES

1. Trail Identity Sign
2. Trail Use/ Speed/ Mile Marker Signs
3. Fire Access Sign
4. MC/MV Prohibition Sign
5. Alcohol Prohibition Sign - Pole Mounted
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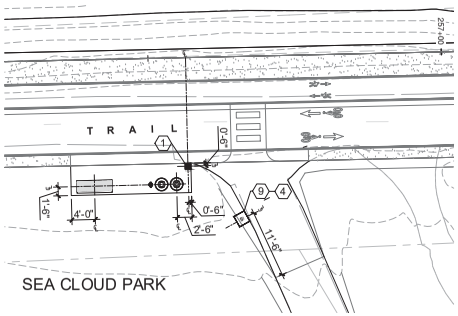
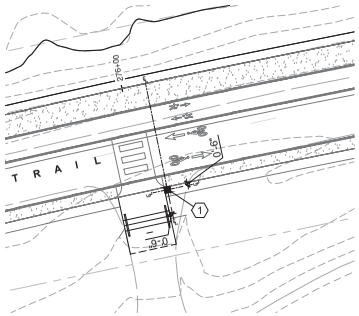
10. City Limit Sign
11. Public Shore Access Sign
12. Public Shore Parking Sign

See Proposed Signage Plan & Schedule for Location

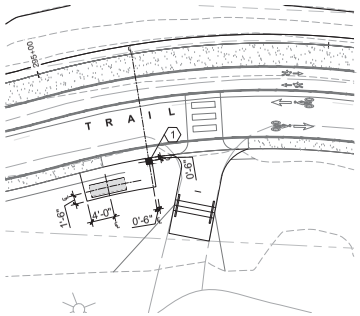
See Construction Details for Sign mounting and Graphics



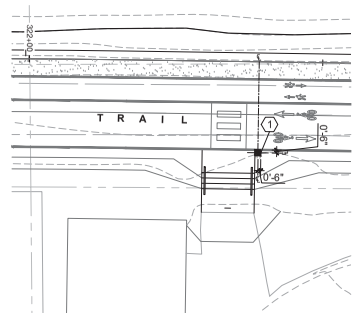
32 Site Furnishings @ STA 256+50
1" = 10'-0"



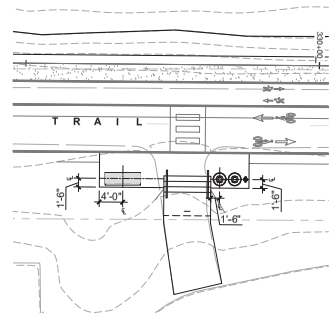
35 Site Furnishings @ STA 276+00
1" = 10'-0"



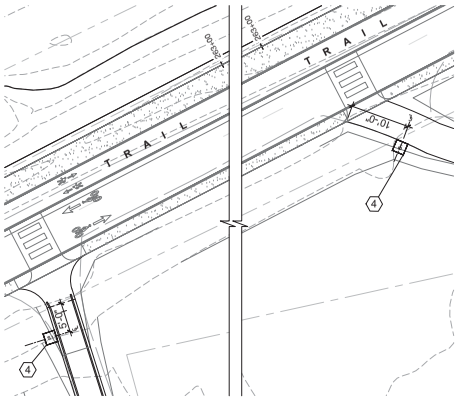
37 Site Furnishings @ STA 295+25
1" = 10'-0"



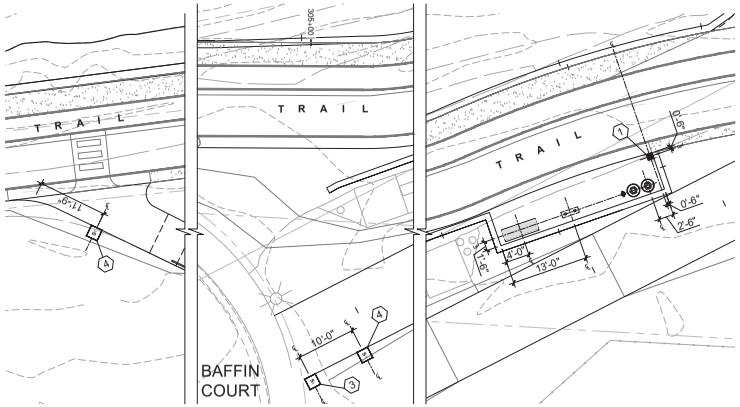
40 Site Furnishings @ STA 322+50
1" = 10'-0"



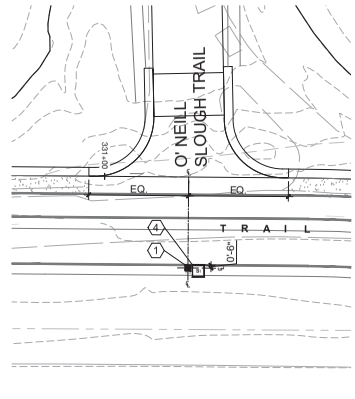
41 Site Furnishings @ STA 329+75
1" = 10'-0"



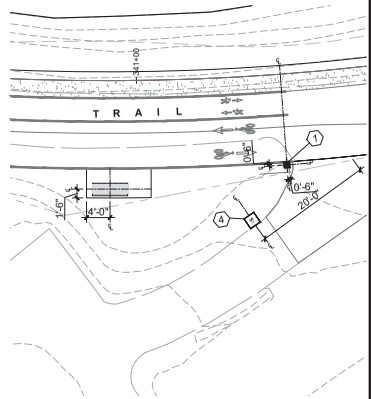
33 Site Furnishings @ STA 263+00
1" = 10'-0"



38 Site Furnishings @ STA 305+50
1" = 10'-0"



42 Site Furnishings @ STA 331+00
1" = 10'-0"



43 Site Furnishings @ STA 341+50
1" = 10'-0"

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	HS/ AP
PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	HS/ AP
CHECKED BY:	AP
SURVEYED BY:	WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

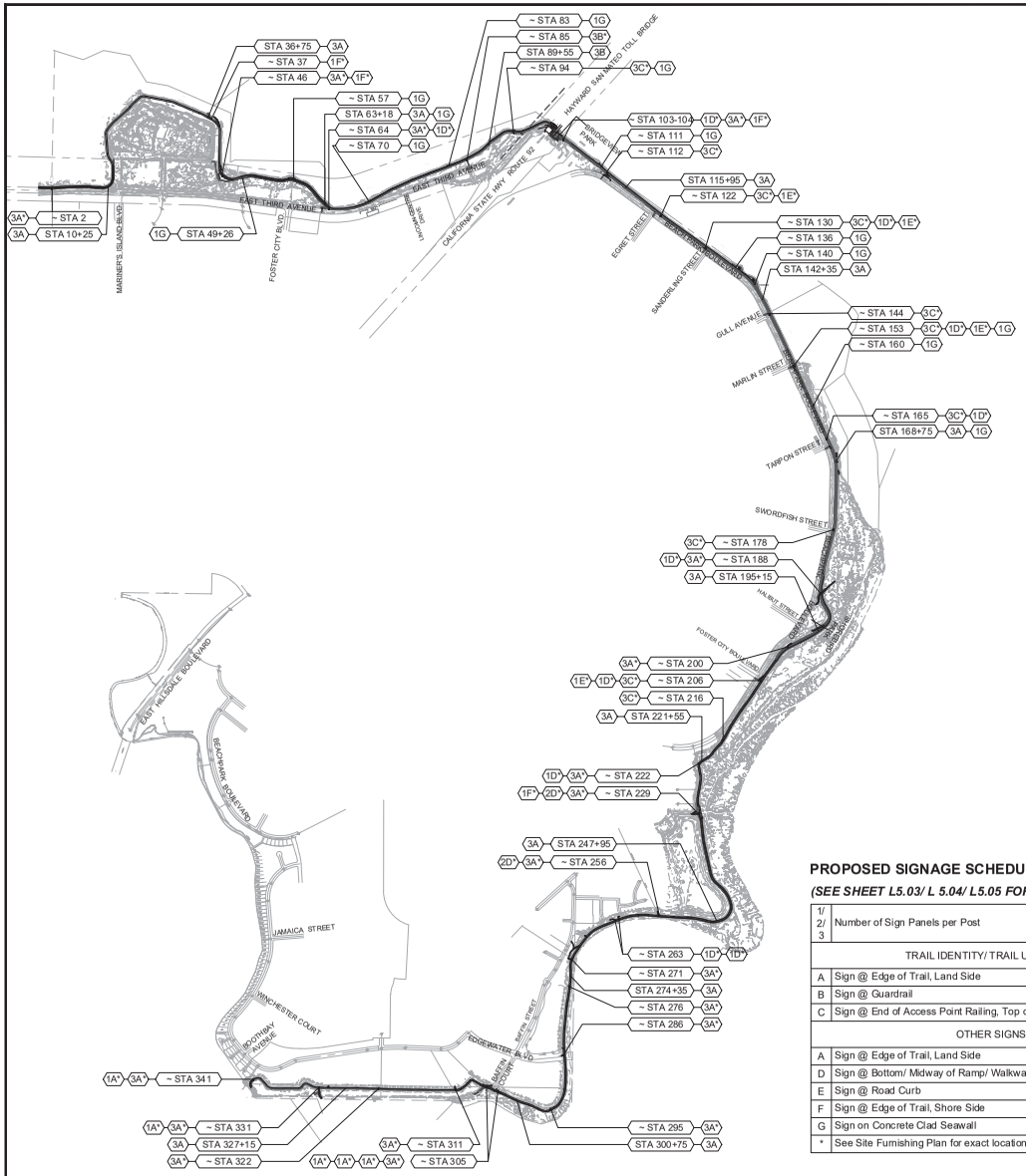
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
SITE FURNISHINGS - LAYOUT PLANS

SHEET
L-3.07
SHEET 361 OF 384

CIP PROJ. NUMBER
CIP 301-657



PROPOSED SIGNAGE SCHEDULE ABBREVIATIONS

(SEE SHEET L5.03/ L 5.04/ L5.05 FOR DETAILS)

1/ 2/ 3	Number of Sign Panels per Post
	TRAIL IDENTITY/ TRAIL USE SIGNS
A	Sign @ Edge of Trail, Land Side
B	Sign @ Guardrail
C	Sign @ End of Access Point Railing, Top of Ramp
	OTHER SIGNS
A	Sign @ Edge of Trail, Land Side
D	Sign @ Bottom/ Midway of Ramp/ Walkway, close to Road Curb
E	Sign @ Road Curb
F	Sign @ Edge of Trail, Shore Side
G	Sign on Concrete Clad Seawall
*	See Site Furnishing Plan for exact location and layout

PROPOSED SIGNAGE SCHEDULE

			TRAIL IDENTITY SIGNS			TRAIL USE/ SPEED/ MILE MARKER SIGNS					OTHER SIGNS					
~ STATION NUMBER (STA)		TYPE	BCDC-BAY TRAIL	FOSTER CITY	BCDC - PUBLIC SHORE	SPEED LIMIT/ USE	KEEP LEFT/ RIGHT	(1) MILE MARK	(½) MILE MARK	MILE ANNO. NOTE	FIRE ACCESS	MC/ MV PROHIBIT -ION	CROSS WALK + RIGHT ARROW	CROSS WALK + LEFT ARROW	ALCOHOLIC BEVERAGE PROHIBITION	BIRD FEEDING
~ STA 2			●	●	●											
STA 10+25						●	●	●		MILE 1 MILE 8						
STA 36+75						●	●		●	MILE 0.5 MILE 7.5						
~ STA 37															●	
~ STA 46			●	●	●										●	
STA 49+26															●	
~ STA 57															●	
STA 63+18						●	●	●		MILE 2 MILE 6					●	
~ STA 64			●	●	●							●				
~ STA 70															●	
~ STA 83															●	
~ STA 85			●	●	●											
STA 89+55						●	●		●	MILE 2.5 MILE 5.5						
~ STA 94 (**)			●	●	●							●			●	
~ STA 103-104			●	●	●							●			●	
~ STA 111															●	
~ STA 112			●	●	●							●				
STA 115+95						●	●	●		MILE 3 MILE 5						
~ STA 122			●	●	●								●			
~ STA 130			●	●	●							●		●		
~ STA 136															●	
~ STA 140															●	
STA 142+35						●	●		●	MILE 3.5 MILE 4.5						
~ STA 144			●	●	●											
~ STA 153			●	●	●							●	●		●	
~ STA 160															●	
~ STA 165			●	●	●							●				
STA 168+75						●	●	●		MILE 4 MILE 4					●	
~ STA 179			●	●	●											
~ STA 188			●	●	●							●				
STA 195+15						●	●		●	MILE 4.5 MILE 3.5						
~ STA 200			●	●	●											
~ STA 206			●	●	●							●		●		
~ STA 217			●	●	●											
STA 221+55						●	●	●		MILE 5 MILE 3						
~ STA 222			●	●	●							●				
~ STA 229			●	●	●							●			●	●
STA 247+95						●	●		●	MILE 5.5 MILE 2.5						
~ STA 256			●	●	●							●				●
~ STA 263												● ●				
~ STA 272			●	●	●										●	
STA 274+35						●	●	●		MILE 6 MILE 2						
~ STA 276			●	●	●											
~ STA 286			●	●	●							●			●	
~ STA 295			●	●	●											
STA 300+75						●	●		●	MILE 6.5 MILE 1.5						
~ STA 305			●	●	●						●	● ●				
~ STA 311			●	●	●							●				
~ STA 322			●	●	●											
STA 327+15						●	●	●		MILE 7 MILE 1						
~ STA 331			●	●	●							●				
~ STA 341			●	●	●							●				
TOTAL			29	29	29	13	13	7	6		1	21	2	2	18	2

(**) See Sheet L3.03 for additional Public Shore Access and Public Shore Parking Signs

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY–HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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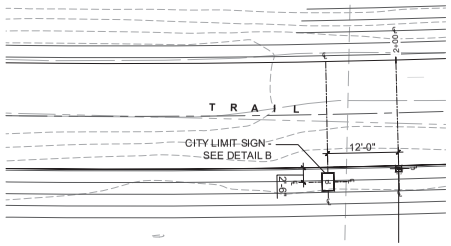
BFS Landscape Architects
LANDSCAPE ARCHITECT
1980 W El Camino Real / 12
Mountain View, CA, 94040
650.336.8622

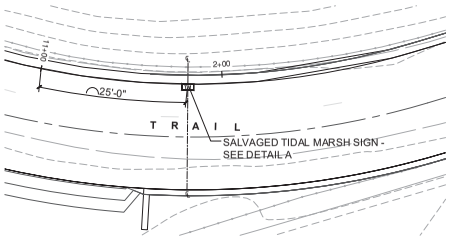
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
PROPOSED SIGNAGE PLAN & SCHEDULE

SHEET
L-4.01
SHEET 362 OF 384
CIP PROJ. NUMBER
CIP 301–657

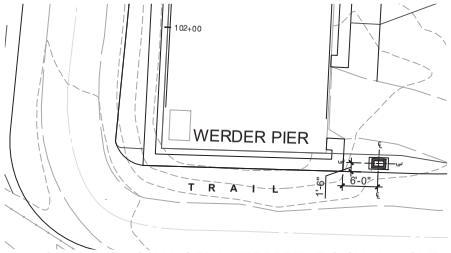




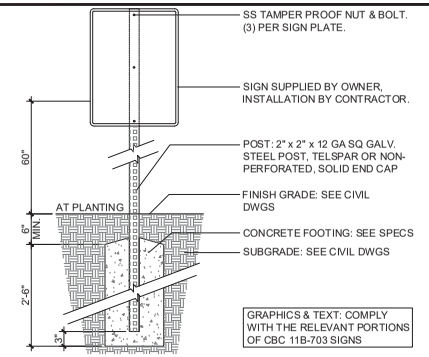
1 STA 2+00: SALVAGED CITY LIMIT SIGN - LAYOUT
1" = 10'-0"



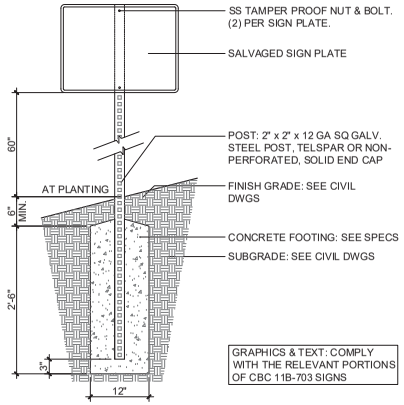
2 STA 11+25: SALVAGED TIDAL MARSH SIGN - LAYOUT
1" = 10'-0"



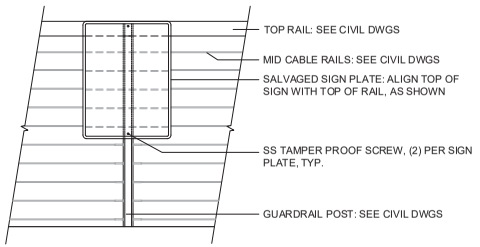
3 STA 102+00: SALVAGED INTERPRETIVE SIGN - LAYOUT
1" = 10'-0"



C BAY CAT SIGN MOUNTING
1" = 1'-0" QTY = 8. LOCATIONS TBD"



B CITY LIMIT SIGN MOUNTING
1" = 1'-0"



ELEVATION

A TIDAL MARSH SIGN MOUNTING
1" = 1'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY–HAM

NO.	BY	DATE	REVISIONS
		07/31/20	CONFORMED SET

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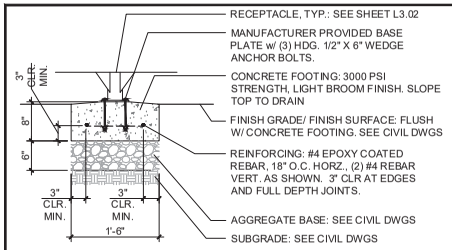
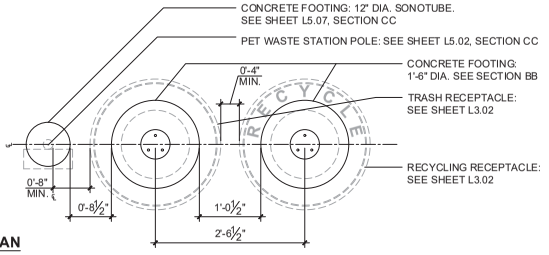
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
RELOCATED SIGNAGE PLAN & SCHEDULE

SHEET
L-4.02
SHEET 363 OF 384
CIP PROJ. NUMBER
CIP 301–657

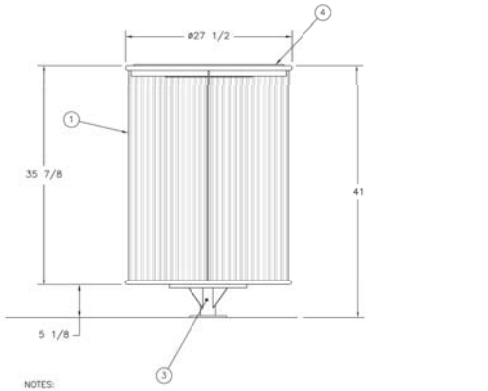


SECTION BB



PLAN

PETWASTE STATION & RECEPTACLE @ D.G. PAVING/
PETWASTE STATION & RECEPTACLE @ FINISH GRADE/
PETWASTE STATION & RECEPTACLE @ CONCRETE PAVING SIM.

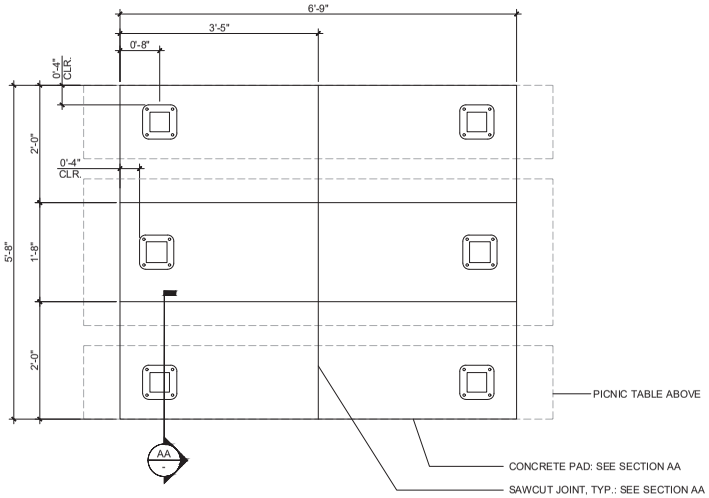


NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND PER ASME Y14.5M–1994.
2. ALL DIMENSIONS INCLUDE TO PLASTISOL COATING.
3. DO NOT SCALE DRAWING.
4. FINISHED PART TO BE FREE OF ALL BURRS AND SHARP EDGES.

4	1	SS FLT	7175
3	1	SM LEG	7360
2	1	ING LEG	7359
1	1	RECEPT	9589

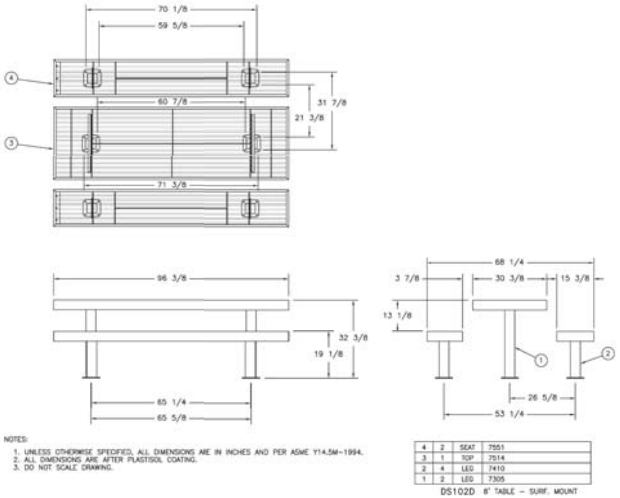
LR355D 55 GAL. TRASH CAN – X.M.

3 Trash/ Recycling Receptacle
NTS



PLAN - CONCRETE PAD

PICNIC TABLE @ D.G. PAVING/
PICNIC TABLE @ FINISH GRADE/
PICNIC TABLE @ CONCRETE PAVING SIM.

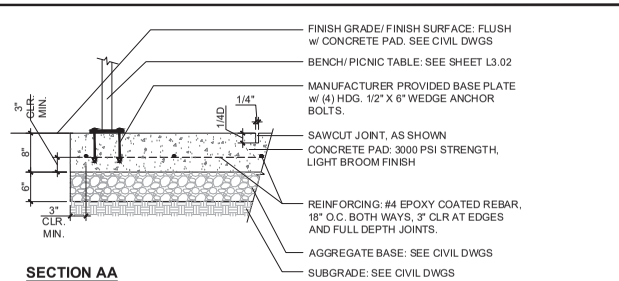


NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND PER ASME Y14.5M–1994.
2. ALL DIMENSIONS ARE AFTER PLASTISOL COATING.
3. DO NOT SCALE DRAWING.

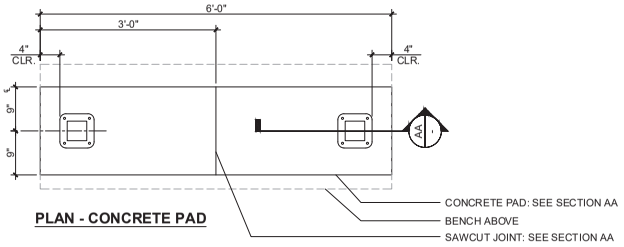
4	2	SEAT	7551
3	1	TOP	7514
2	4	LEG	7410
1	2	LEG	7305

DS102D 8' TABLE – SURF. MOUNT

2 Picnic Table
1" = 0'-0"

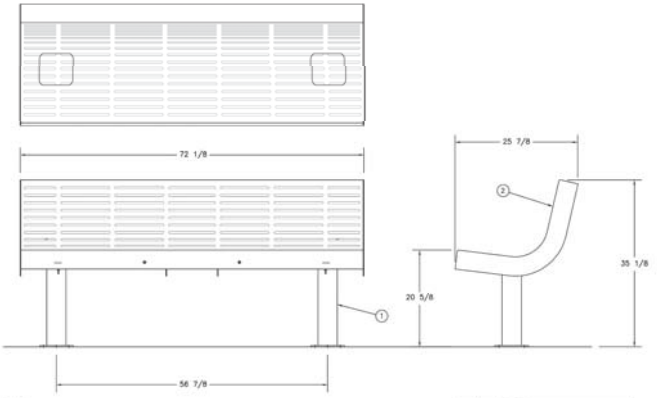


SECTION AA



PLAN - CONCRETE PAD

BENCH @ D.G. PAVING/
BENCH @ FINISH GRADE/
BENCH @ CONCRETE PAVING SIM.



NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND PER ASME Y14.5M–1994.
2. ALL DIMENSIONS ARE AFTER PLASTISOL COATING.
3. DO NOT SCALE DRAWING.

2	1	SEAT	8150
1	2	LEG	7323

DS327T 6' BENCH W/ BACK – SURFACE MOUNT

1 Bench
1" = 0'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY–HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
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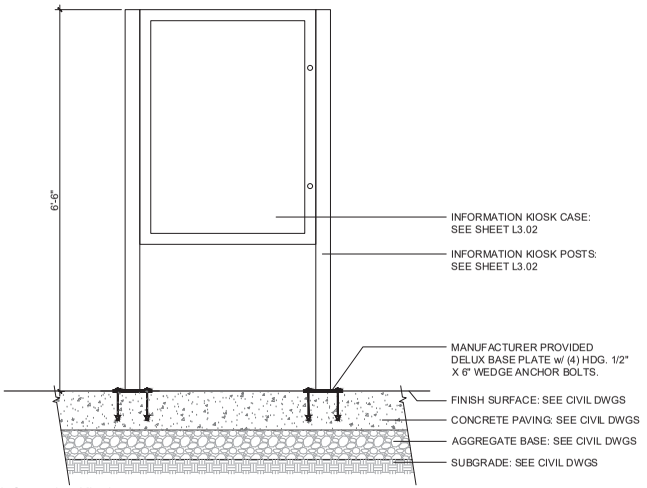
BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

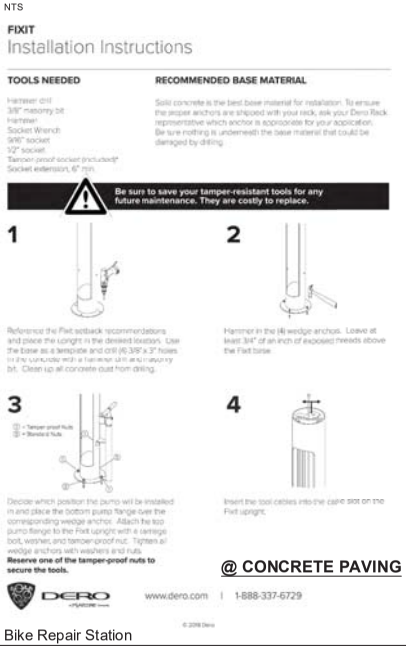
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CONSTRUCTION DETAILS - SITE FURNISHINGS

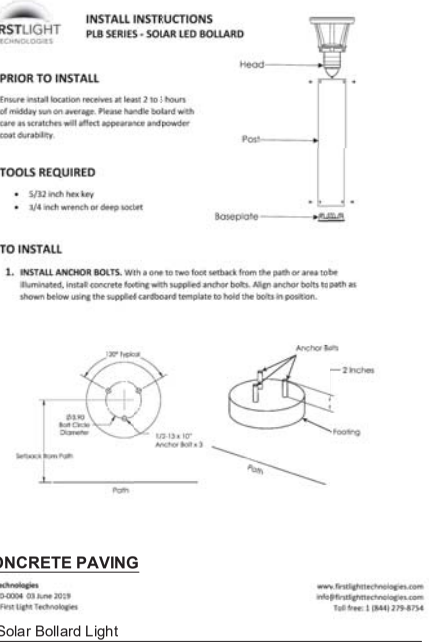
SHEET
L-5.01
SHEET 364 OF 384
CIP PROJ. NUMBER
CIP 301–657



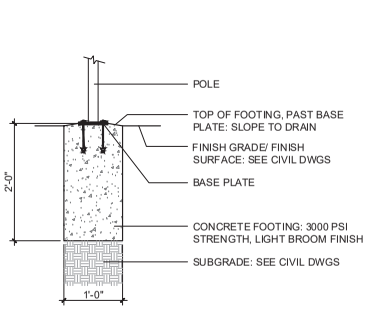
5 Information Kiosk
NTS

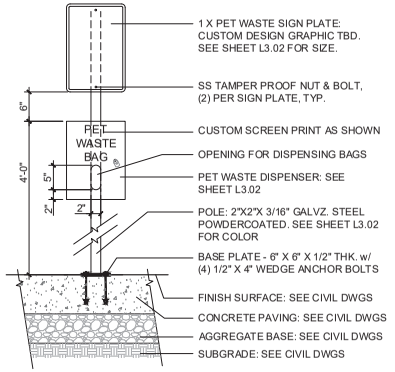


3 Bike Repair Station
1" = 0'-0"



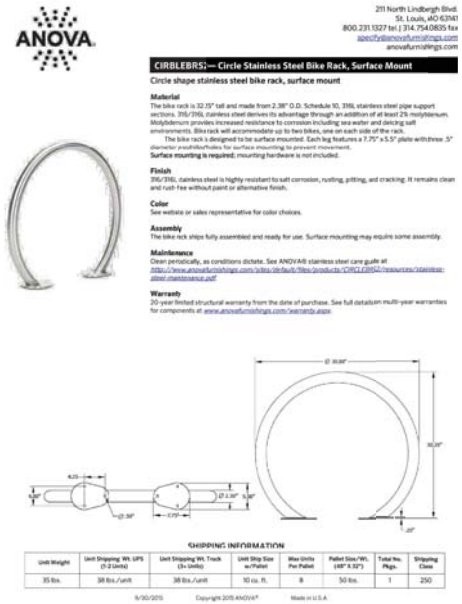
2 Solar Bollard Light
1" = 0'-0"

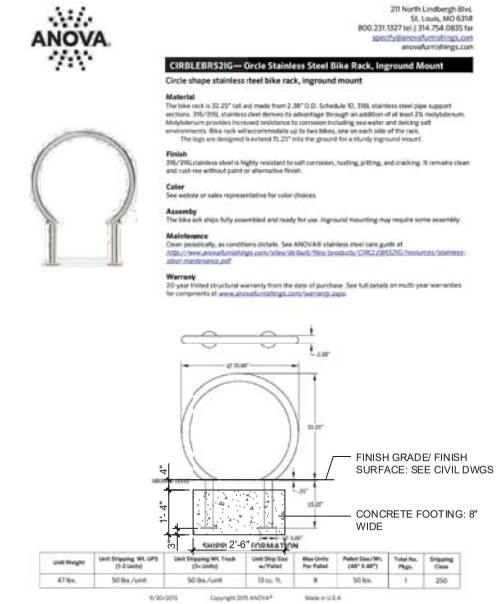




GRAPHICS & TEXT: COMPLY WITH THE RELEVANT PORTIONS OF CBC 11B-703 SIGNS

4 Pet Waste Station
NTS





1 Bike Rack
1" = 0'-0"

DATE:	4/24/2020		
SCALE:	AS SHOWN		
DRAWN BY:	HS/ AP		
PROJECT NUMBER:	FOST.12.16		
DESIGNED BY:	HS/ AP		
CHECKED BY:	AP		
SURVEYED BY:	WILSEY—HAM		

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

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LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
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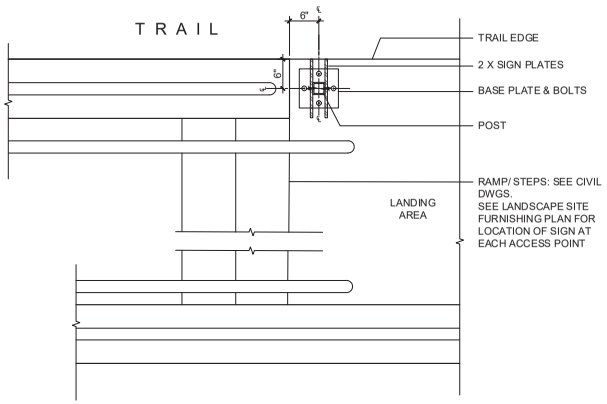
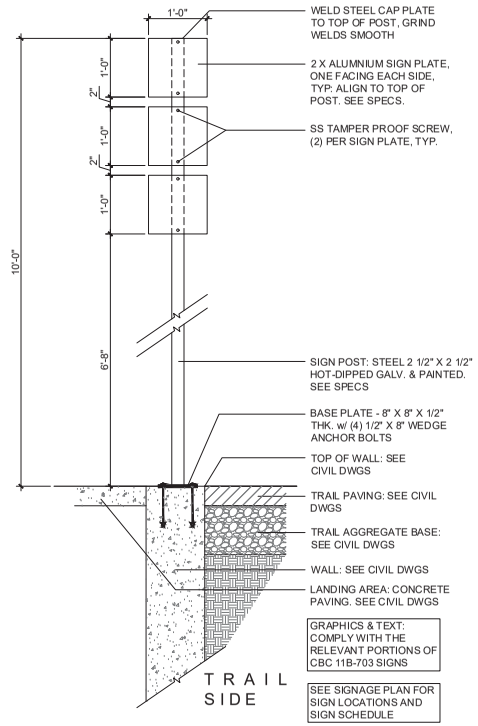
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
CONSTRUCTION DETAILS - SITE FURNISHINGS

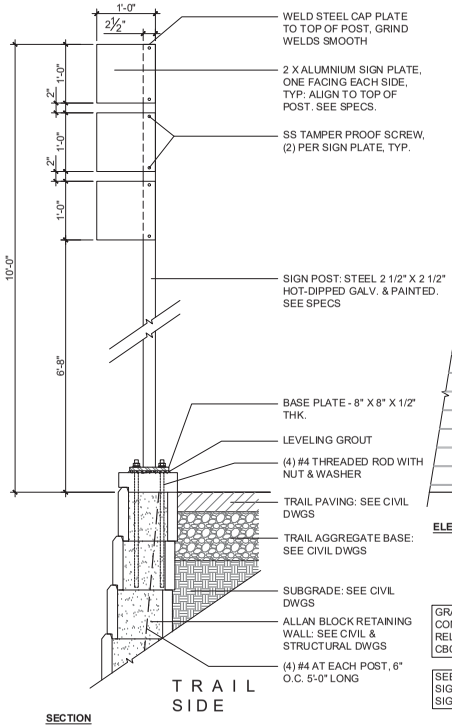
SHEET
L-5.02
SHEET 365 OF 384
CIP PROJ. NUMBER
CIP 301-657



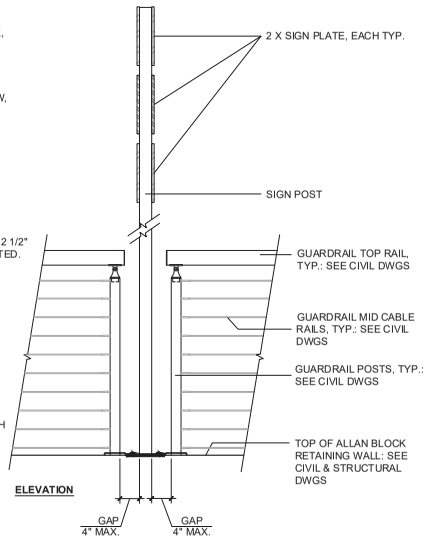
PLAN @TRAIL ACCESS



3 Trail Identity / Use Signs - TYPE 'C'
1" = 1'-0"



SECTION

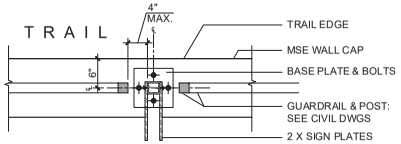


ELEVATION

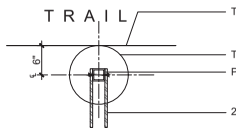
GRAPHICS & TEXT: COMPLY WITH THE RELEVANT PORTIONS OF CBC 11B-703 SIGNS

SEE SIGNAGE PLAN FOR SIGN LOCATIONS AND SIGN SCHEDULE

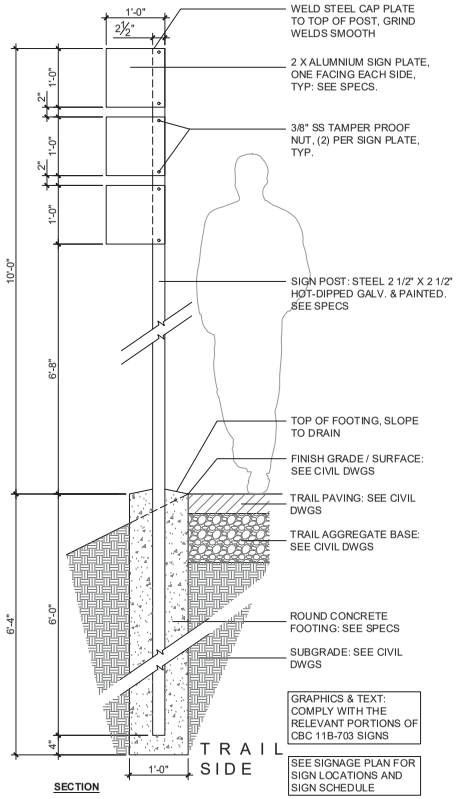
2 Trail Identity / Use Signs - TYPE 'B'
1" = 1'-0"



PLAN



PLAN



SECTION

GRAPHICS & TEXT: COMPLY WITH THE RELEVANT PORTIONS OF CBC 11B-703 SIGNS

SEE SIGNAGE PLAN FOR SIGN LOCATIONS AND SIGN SCHEDULE

1 Trail Identity / Use Signs - TYPE 'A'
1" = 1'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

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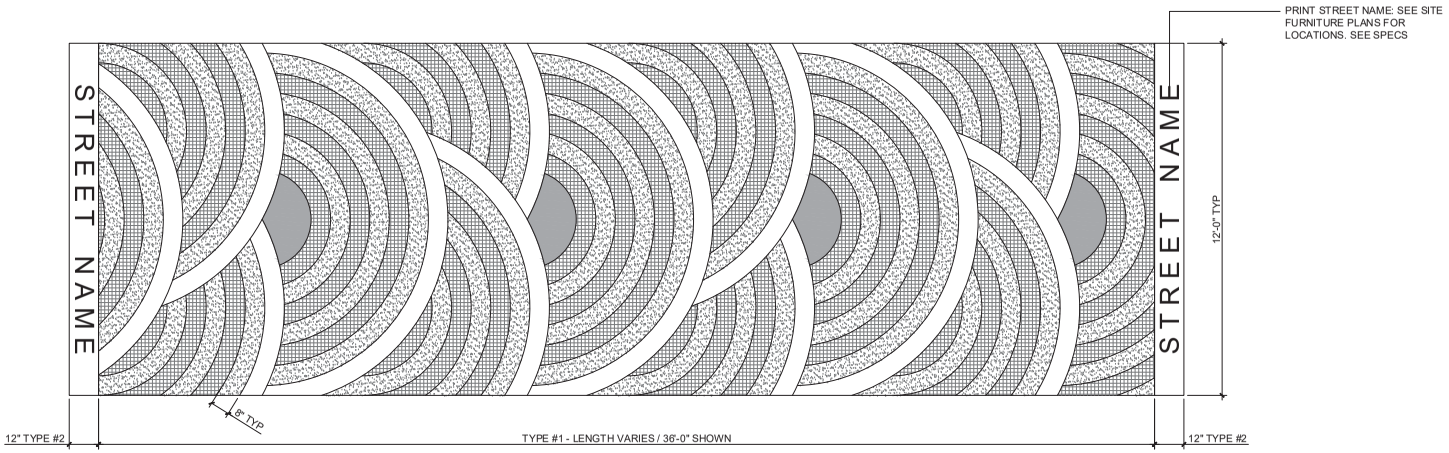
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

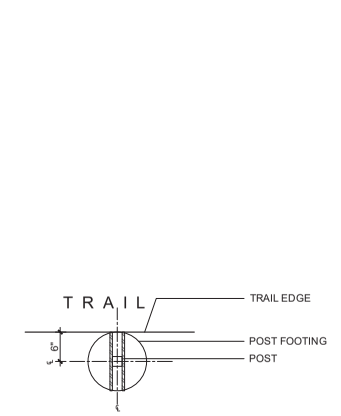
CONSTRUCTION DETAILS - SIGNAGE

SHEET
L-5.03
SHEET 366 OF 384
CIP PROJ. NUMBER
CIP 301-657

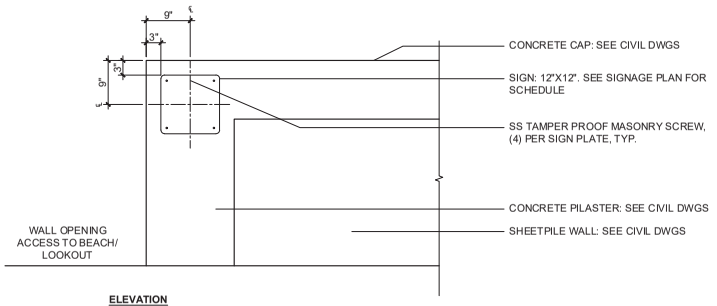


3 Decorative Pavement Overlay: Type #1 & Type #2
1" = 2'-0"

COLOR LEGEND	
SYM	COLOR
	COLOR#1: PREMIUM COLOR BLUE PMS - 654C
	COLOR #2: PREMIUM COLOR SKY BLUE PMS - 278C
	COLOR #3: PREMIUM COLOR LT BLUE PMS - 7688C
	COLOR #4: STANDARD COLOR WHITE

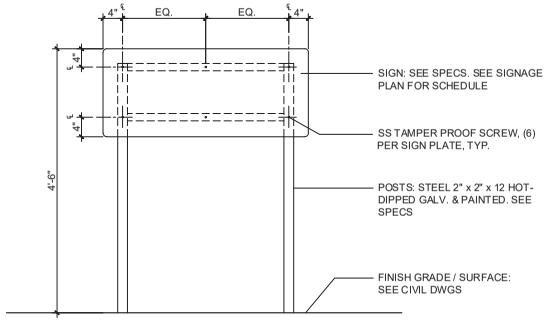


PLAN

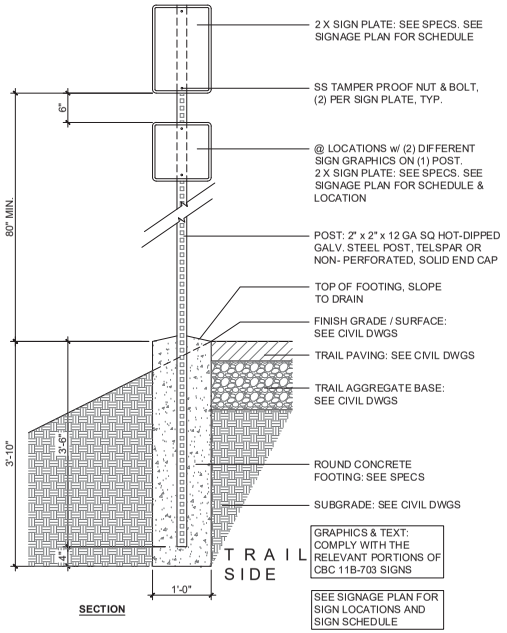


ELEVATION

3 Other Signs - TYPE'G'
1" = 1'-0"



2 Other Signs - TYPE 'E'
1" = 1'-0"



SECTION

1 Other Signs - TYPE 'A' / TYPE 'D'/ TYPE 'F'
1" = 1'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY-HAM

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Mountain View, CA, 94040
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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CONSTRUCTION DETAILS - SIGNAGE

SHEET
L-5.04
SHEET 367 OF 384
CIP PROJ. NUMBER
CIP 301-657



12b S-1.5: SIZE 18"X42", CROSSWALK, RIGHT ARROW
NTS



10 S-1.6: SIZE 12"X12", BIRD FEEDING
NTS



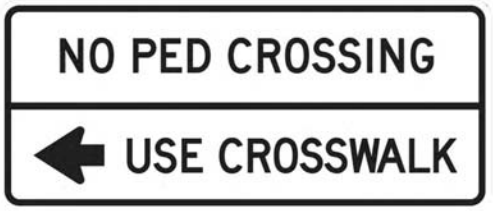
7 S-3.4: SIZE 12" X 12", 1 MILE MARK
NTS



6 S-3.3.: SIZE 12" X 12", 1/2 MILE MARK
NTS



3 S-2.3: SIZE 12" X 12", FOSTER CITY
NTS



12a S-1.5: SIZE 18"X42", CROSSWALK, LEFT ARROW
NTS



8b S-1.3: SIZE 12" X 12", ALCOHOL
NTS



5 S-3.2: SIZE 12" X 12", KEEP LEFT/ RIGHT
NTS



2B S-2.2B: SIZE 12" X 18", PUBLIC SHORE PARKING
NTS



2 S-2.2: SIZE 12" X 12", PUBLIC SHORE
NTS



11 S-1.5: SIZE 12"X18", FIRE ACCESS SIGN
NTS



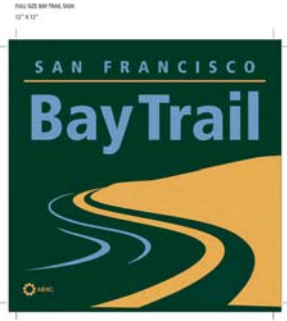
9a S-1.5: SIZE 12"X18", MC/ MV PROHIBITION
NTS



4 S-3.1: SIZE 12" X 12", SPEED LIMIT/ USE
NTS



2A S-2.2A: SIZE 12" X 12", PUBLIC SHORE ACCESS
NTS



1 S-2.1: SIZE 12" X 12", BAY TRAIL
NTS

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY–HAM

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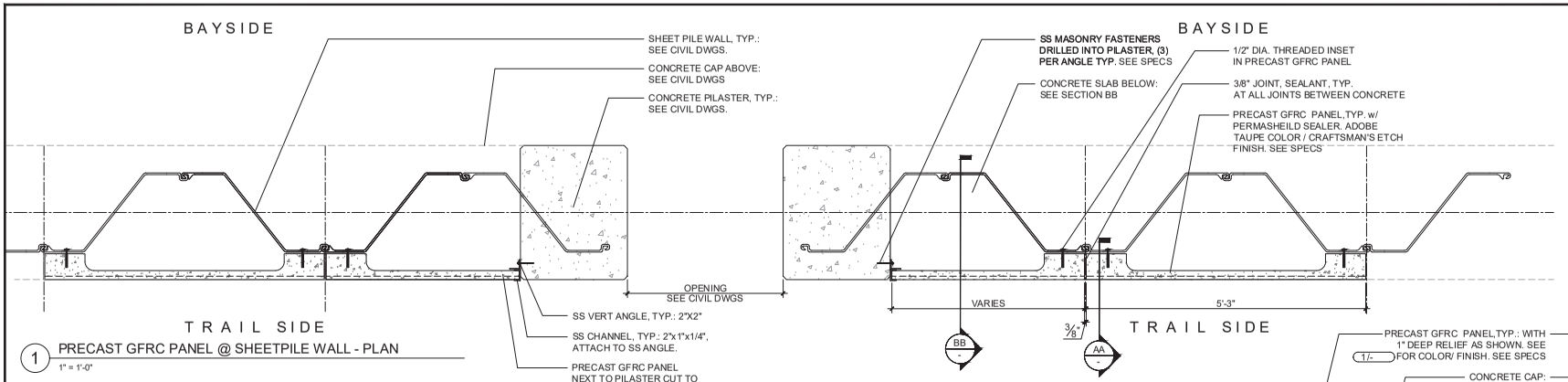
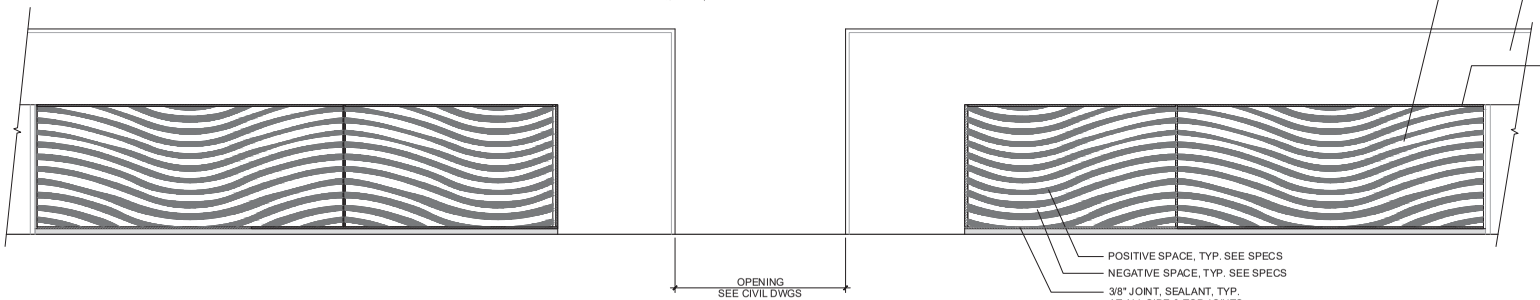
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CONSTRUCTION DETAILS - SIGNAGE

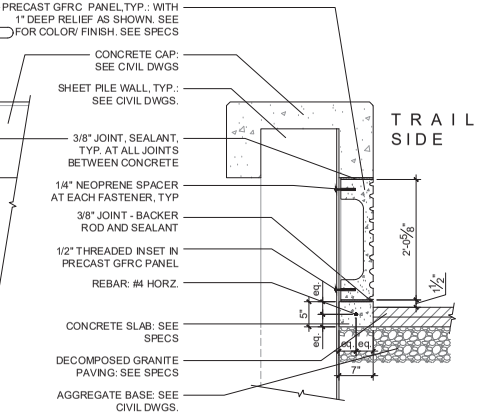
SHEET
L-5.05
SHEET 368 OF 384
CIP PROJ. NUMBER
CIP 301–657



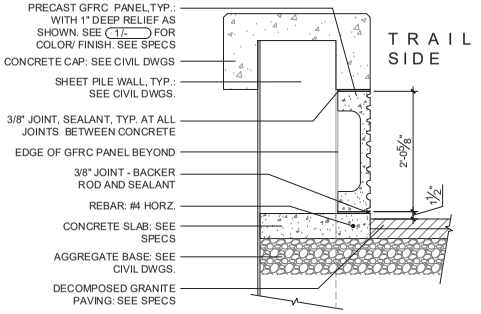
1 PRECAST GFRC PANEL @ SHEETPILE WALL - PLAN
1" = 1'-0"



2 PRECAST GFRC PANEL @ SHEETPILE WALL - ELEVATION
1" = 1'-0"



3 PRECAST GFRC PANEL @ SHEETPILE WALL - SECTION AA
1" = 1'-0"



NOTE: SEE TABLE ON SHEET L5.07 FOR PRECAST GFRC PANEL QUANTITIES

4 PRECAST GFRC PANEL @ SHEETPILE WALL - SECTION BB
1" = 1'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
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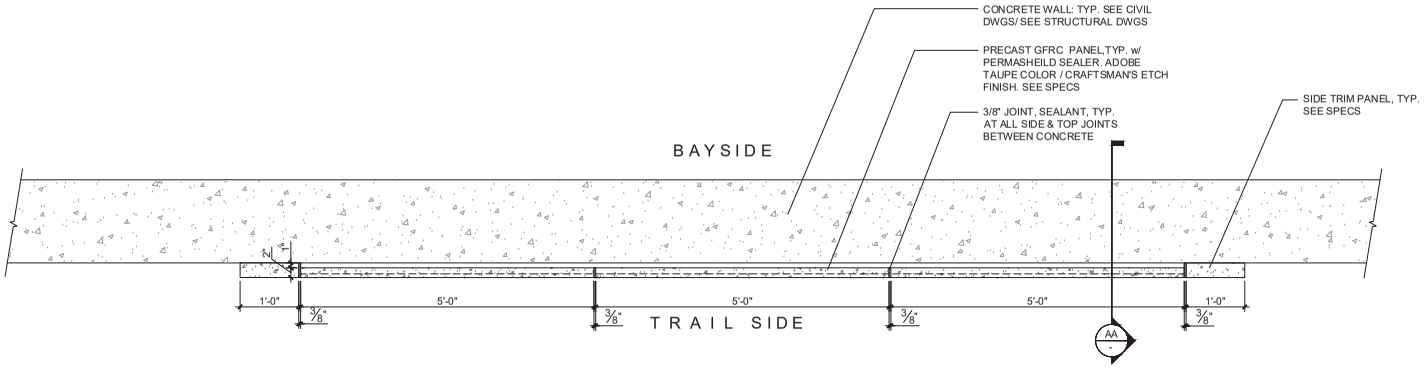
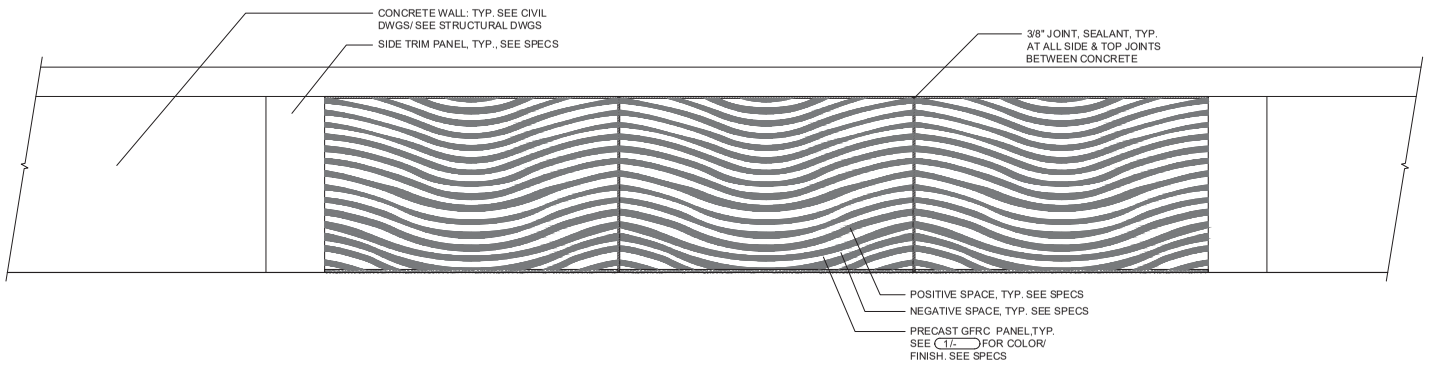
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
CONSTRUCTION DETAILS - PRECAST PANELS

SHEET
L-5.06
SHEET 369 OF 384
CIP PROJ. NUMBER
CIP 301-657

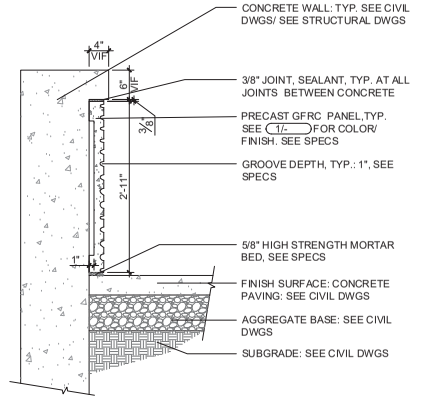


1 PRECAST GFRC PANEL @ CONCRETE WALL - PLAN
1" = 1'-0"

PRECAST GFRC PANEL QUANTITY				
~ STATION NUMBER (STA)	@ SHEETPILE WALL - # OF RELIEF PANELS - SEE SHEET L5.06	@ CONCRETE WALL		
		LENGTH OF CONCRETE WALL - VIF	# OF RELIEF PANELS	# OF TRIM PANELS
~ STA 57 + 00	4	21' - 9"	3	2
~ STA 63 + 25	4	21' - 2"	3	2
~ STA 82 + 75	4	21' - 0"	3	2
~ STA 94 + 00	4	21' - 0"	3	2
~ STA 98 + 50	4	-	-	
~ STA 103 + 75	4	-	-	
~ STA 111 + 25	4	21' - 0"	3	2
~ STA 136 + 00	4	30' - 0"	4	2
~ STA 139 + 75	4	30' - 0"	4	2
~ STA 153 + 50	4	21' - 0"	3	2
~ STA 159 + 75	4	-	-	
~ STA 168 + 75	4	21' - 0"	3	2



2 PRECAST GFRC PANEL @ CONCRETE WALL - ELEVATION
1" = 1'-0"



4 PRECAST GFRC PANEL @ CONCRETE WALL - SECTION AA
1" = 1'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

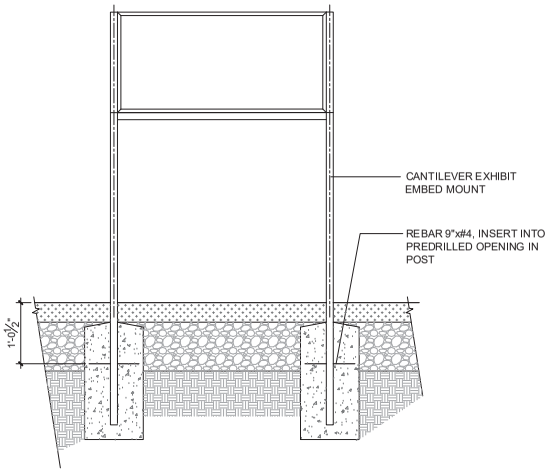
CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

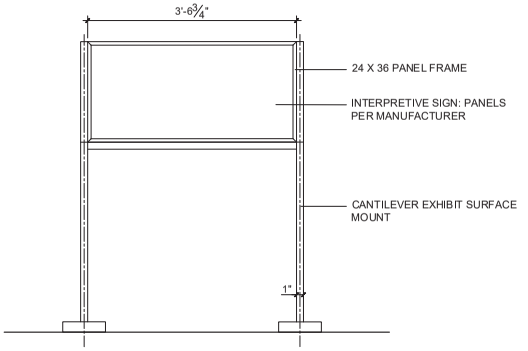
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

CONSTRUCTION DETAILS - PRECAST PANELS

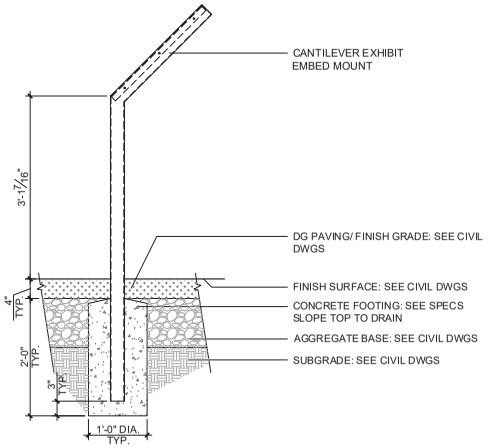
SHEET
L-5.07
SHEET 370 OF 384
CIP PROJ. NUMBER
CIP 301-657



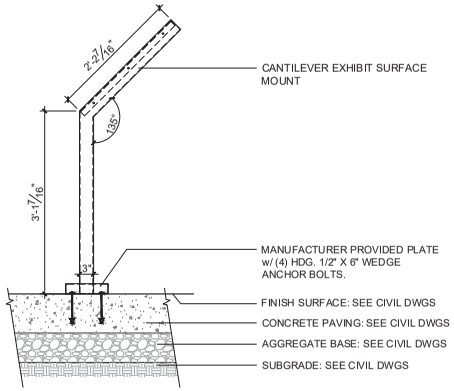
FRONT SECTION



ELEVATION



SIDE SECTION
@ D.G. PAVING/
@ FINISH GRADE



SIDE SECTION
@ CONCRETE PAVING

1 Interpretive Sign - New
1" = 0'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
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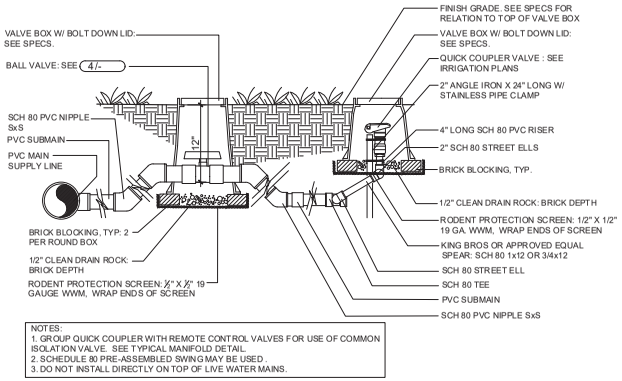
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

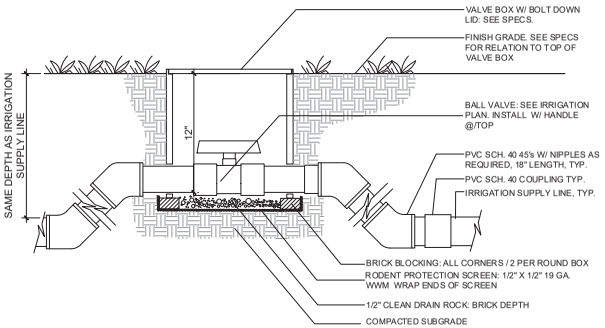
CONSTRUCTION DETAILS - SIGNAGE

SHEET
L-5.08
SHEET 371 OF 384
CIP PROJ. NUMBER
CIP 301-657



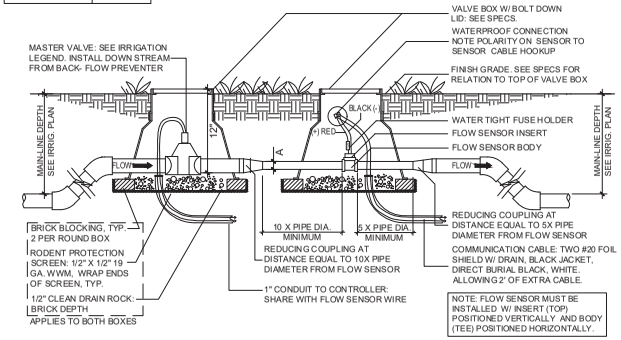
NOTES:
1. GROUP QUICK COUPLER WITH REMOTE CONTROL VALVES FOR USE OF COMMON ISOLATION VALVE. SEE TYPICAL MANIFOLD DETAIL.
2. SCHEDULE 80 PRE-ASSEMBLED SWING MAY BE USED .
3. DO NOT INSTALL DIRECTLY ON TOP OF LIVE WATER MAINS.

6 Quick Coupler
NTS



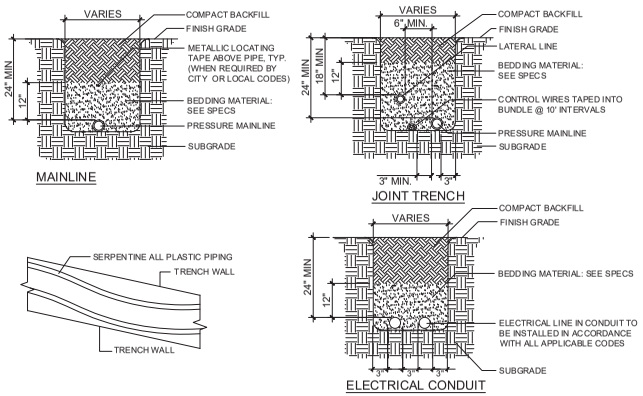
4 Isolation (Ball) Valve
NTS

FLOW SENSOR SIZE	PIPE I.D. (A)
1"	3/4"
1-1/4"	1"
1-1/2"	1-1/4"
2" and up	1-1/2"

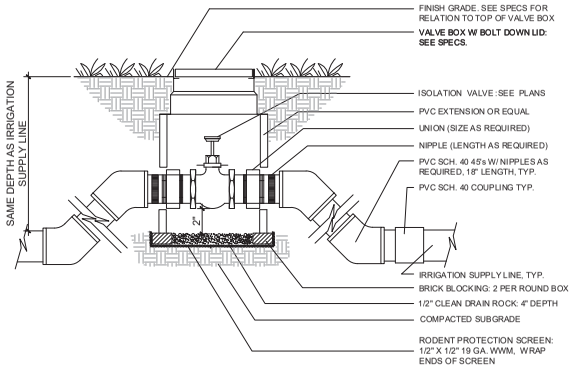


2 Master Valve / Flow Sensor
NTS

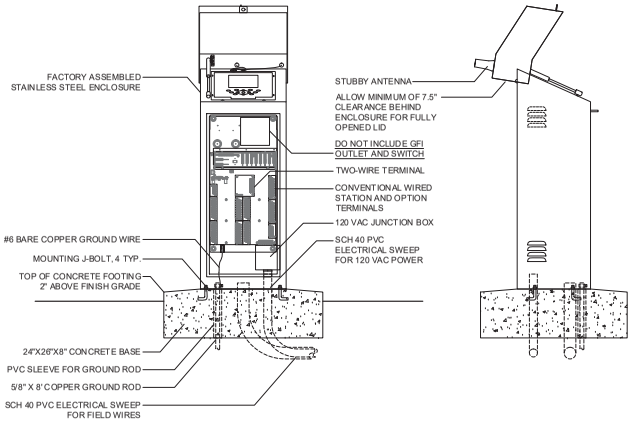
NOTE:
1. REFER TO APPLICABLE CODES FOR MAINLINE DEPTH UNDER ROADWAYS
2. SERPENTINE ALL PLASTIC PIPING.
3. LATERAL SEPARATION DISTANCES SHOWN ARE MINIMUMS UON.
4. SEE SPECIFICATIONS FOR TRENCH BACKFILL.
5. ALL WIRES SHALL BE TAPED AND BUNDLED AT 10' INTERVALS IN TRENCHES.



5 Trench & Pipe Installation
NTS



3 Isolation Gate Valve
NTS



1 Controller SS Pedestal Mount Top Entry
NTS

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
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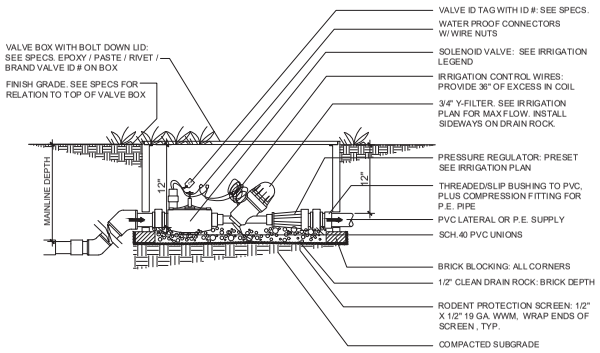
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

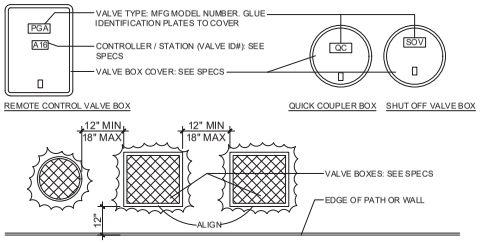
IRRIGATION DETAILS

SHEET
L-8.01
SHEET 372 OF 384
CIP PROJ. NUMBER
CIP 301—657

NOTE:
1. ONE BOX PER REMOTE CONTROL VALVE ASSEMBLY
2. SEE DETAIL FOR FILTER IN MANIFOLD INSTALLATION.
2. ONE BALL VALVE PER VALVE MANIFOLD.
3. BOX SHALL NOT REST ON OR TOUCH THE EQUIPMENT OR PIPE AT ANY POINT.

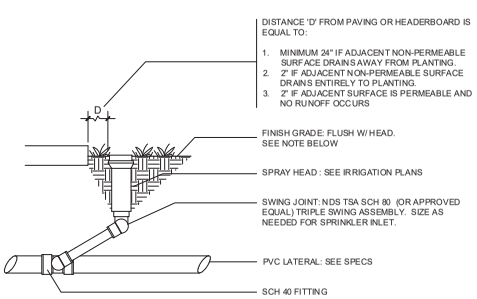


4 Drip Irrigation : Remote Control Valve (Custom Assembly)
NTS



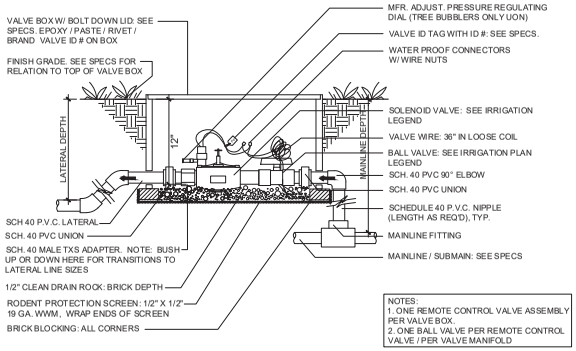
NOTE:
1. ALL VALVE BOXES MUST BE IDENTIFIED WITH A VALVE ID # ON BOX: SEE SPECIFICATIONS FOR ACCEPTABLE METHODS.
2. VALVE BOXES SHALL HAVE 12" CLEARANCE FROM STRUCTURES AND ANY CONCRETE AREAS. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO CONCRETE, SOUND WALL, HEADERBOARD, ETC.
2. SET BOXES 1-1 /2" ABOVE FINISHED GRADE IN MULCH-COVERED AREAS. SET BOXES 1/2" ABOVE GRADE IN TURF AREAS. BOXES TO BE PERPENDICULAR TO FINISH GRADE.
3. SET VALVE BOX ASSEMBLY IN GROUND COVER / SHRUB AND NOT IN SIDEWALK OR ROADWAY. INSTALL IN LAWN ONLY IF GROUNDCOVER DOES NOT EXIST ADJACENT TO LAWN.
4. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.
5. RECTANGULAR VALVE BOXES SHALL HAVE 4 BRICKS INSTALLED, ONE UNDER EACH CORNER. ROUND VALVE BOXES SHALL HAVE 2 COMMON BRICKS INSTALLED, AT OPPOSITE SIDES. BRICKS SHALL NOT BE PLACED OVER ANY PIPE OR ITEM THAT COULD FAIL DUE TO BRICK PLACEMENT.
6. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.

2 Valve Box Installation
NTS



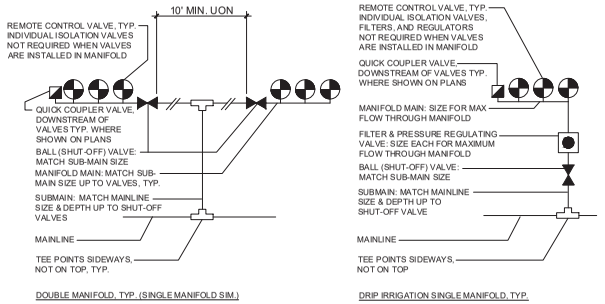
NOTE:
1. ALL IRRIGATION HEADS USED IN PLANTED SHRUB AREAS TO BE INSTALLED TO FINAL GRADE, NOT FLUSH TO TOP OF CURB OR SIDEWALK.
2. ALL IRRIGATION HEADS TO BE INSTALLED PERPENDICULAR TO FINAL GRADE.
3. ALL IRRIGATION HEADS TO BE INSTALLED WITH SWING JOINTS AS SHOWN.
4. ALL POP-UP IRRIGATION HEADS SHALL HAVE CHECK VALVE INSTALLED IN THEM.

5 Stream Rotor
NTS



NOTES:
1. ONE REMOTE CONTROL VALVE ASSEMBLY PER VALVE BOX.
2. ONE BALL VALVE PER REMOTE CONTROL VALVE / PER VALVE MANIFOLD

3 Remote Control Valve
NTS



1 Typ. Valve Manifold
NTS

DATE:	4/24/2020		
SCALE:	AS SHOWN		
DRAWN BY:	HS/ AP		
PROJECT NUMBER:	FOST.12.16		
DESIGNED BY:	HS/ AP		
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Mountain View, CA, 94040
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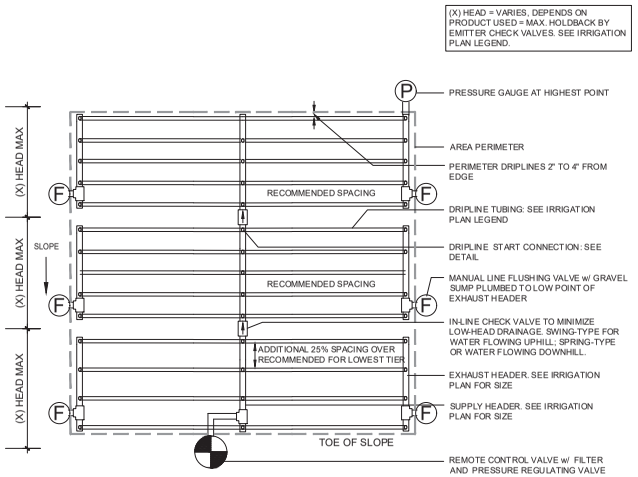
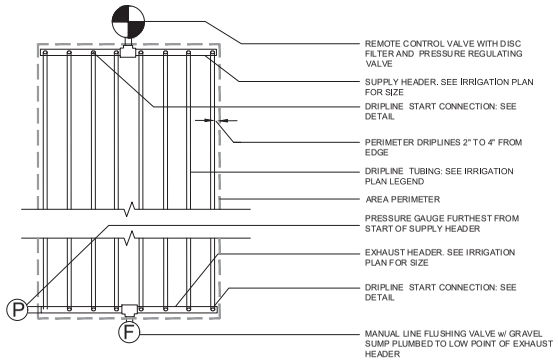
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION DETAILS

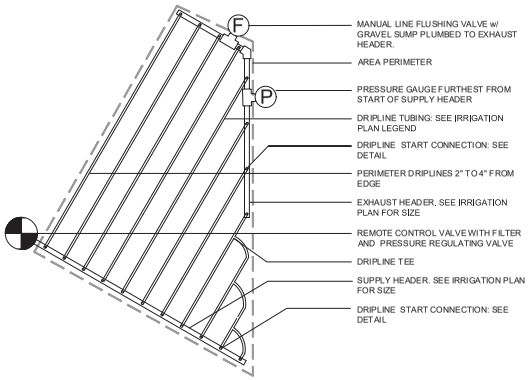
SHEET
L-8.02
SHEET 373 OF 384
CIP PROJ. NUMBER
CIP 301–657



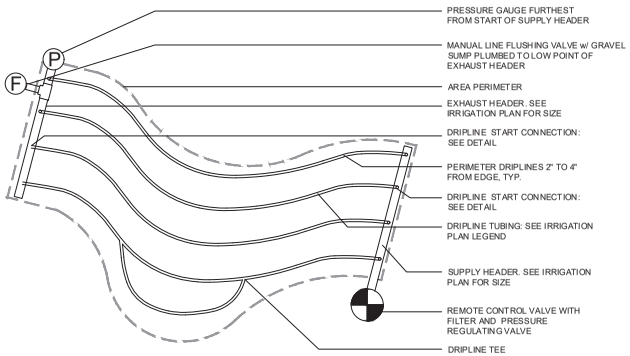
4 Sub-surface Drip: Slope Layout - 1 Valve
NTS



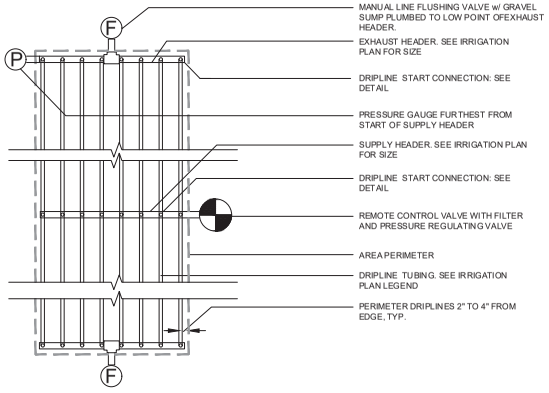
2 Sub-surface Drip: Single-End Feed layout
NTS



5 Sub-surface Drip: Irregular Areas - Triangular
NTS



3 Sub-surface Drip: Irregular Areas - Curves
NTS



1 Sub-surface Drip: Center Feed layout
NTS

DATE:	4/24/2020
SCALE:	AS SHOWN
DRAWN BY:	HS/ AP
PROJECT NUMBER:	FOST.12.16
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SURVEYED BY:	WILSEY–HAM

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
IRRIGATION DETAILS

SHEET
L-8.03
SHEET 374 OF 384
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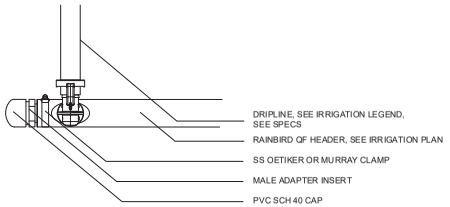
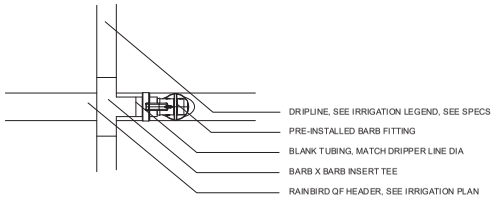
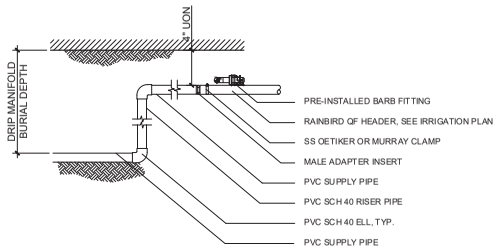


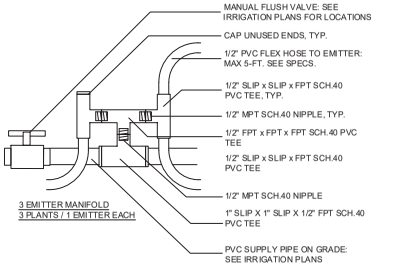
5 Sub-surface Drip Connections (End Feed / Exhaust Header)
NTS



4 Sub-surface Drip Connections (Center Feed)
NTS



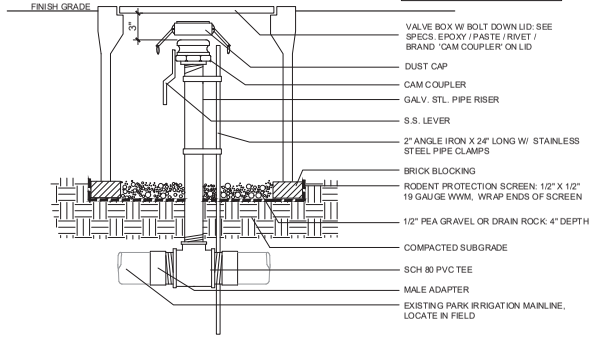
3 Sub-surface Drip Connections (Header)
NTS



NOTES:
1. ALL SLIP JOINTS SHALL BE GLUED. SEE SPECS.

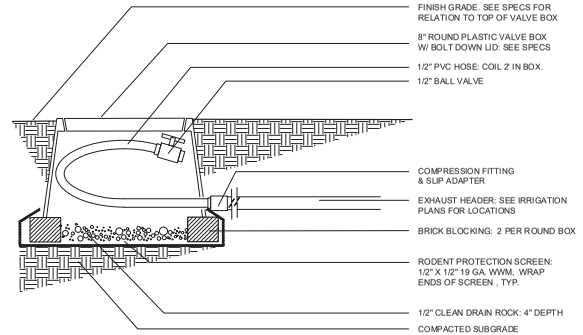
9 Drip Irrigation : Emitter Manifold
NTS

THIS DETAIL FOR MITIGATION PLANTING IRRIGATION ONLY

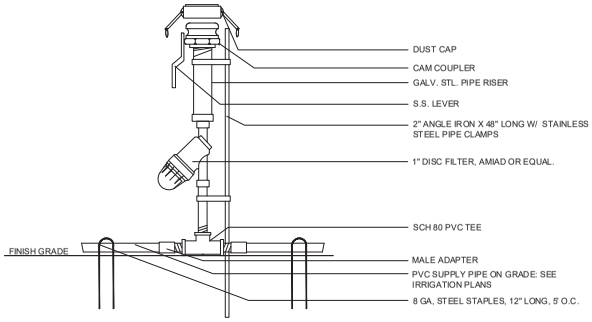


7 2" Cam Coupler
NTS

THIS DETAIL FOR MITIGATION PLANTING IRRIGATION ONLY



2 Manual Line Flushing Valve
NTS

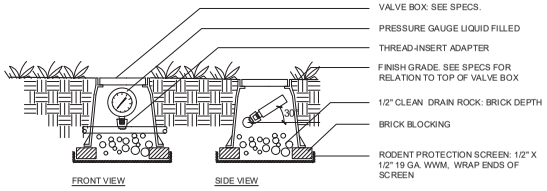


8 Stand Pipe W/2" Cam Coupler
NTS

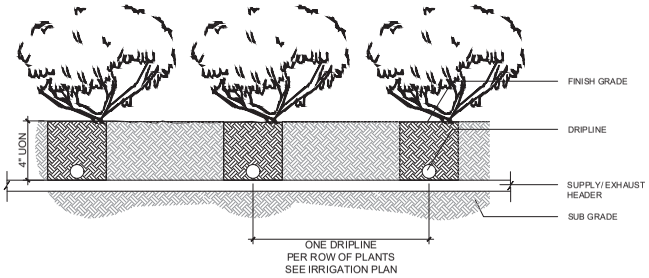
THIS DETAIL FOR MITIGATION PLANTING IRRIGATION ONLY

NOTES:
1. FOR A SUB-SURFACE DRIP ZONE WITH MULTIPLE SUB-ZONES, INSTALL ONE PRESSURE GAUGE FOR THE WHOLE ZONE, AT THE FURTHERMOST POINT FROM THE VALVE.

2. FOR DRIPPER-LINE WITH CHECK-VALVES IN EMITTERS, INSTALL PRESSURE GAUGE ALONG WITH LINE FLUSHING VALVE INSIDE VALVE BOX.



6 Sub-surface Drip: Pressure Gauge
NTS



1 Sub-surface Drip: Subgrade Installation
NTS

DATE: 4/24/2020
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DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
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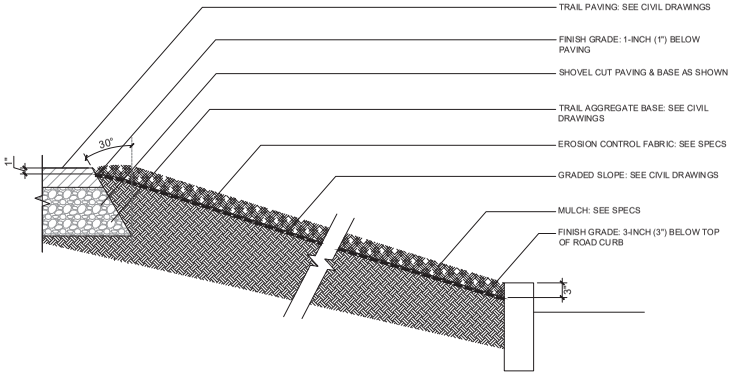
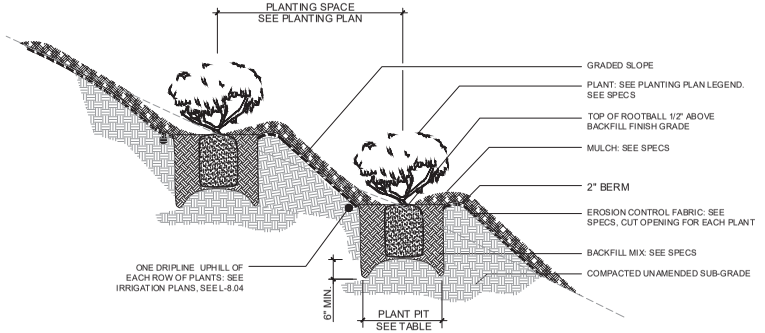
CIP 301-657
IRRIGATION DETAILS

SHEET
L-8.04
SHEET 375 OF 384
CIP PROJ. NUMBER
CIP 301–657

PLANT PIT SIZE TABLE	
PLANT SIZE	PIT SIZE - ROOTBALL PLUS
1 GAL	6" ALL AROUND
5 GAL	8" ALL AROUND

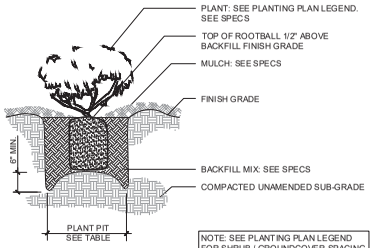


4 Finish Grade @ Levee Embankment
1" = 1'-0"



2 Shrub / Groundcover Planting on Slope
NTS

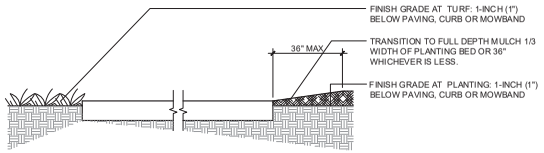
PLANT PIT SIZE TABLE	
PLANT SIZE	PIT SIZE - ROOTBALL PLUS
1 GAL	6" ALL AROUND
5 GAL	8" ALL AROUND



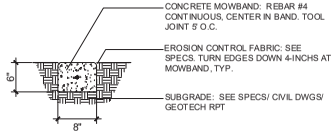
NOTE: SEE PLANTING PLAN LEGEND FOR SHRUB / GROUNDCOVER SPACING DIAGRAM.

1 Shrub / Groundcover Planting
NTS

NOTE: USE EXISTING / STOCKPILED AMENDED SOIL, AND IMPORTED TOPSOIL TO MEET FINISH GRADE REQUIREMENT. SEE SPECS.



3 Finish Grade
NTS



5 Concrete Mowband
1" = 1'-0"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY: HS/ AP
PROJECT NUMBER: FOST.12.16
DESIGNED BY: HS/ AP
CHECKED BY: AP
SURVEYED BY: WILSEY—HAM

NO.	BY	DATE	REVISIONS
1		07/31/20	CONFORMED SET

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

BFS Landscape Architects
LANDSCAPE ARCHITECT
1580 W El Camino Real / 12
Mountain View, CA, 94040
650.326.6622

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

PLANTING DETAILS

SHEET
L-8.05
SHEET 376 OF 384
CIP PROJ. NUMBER
CIP 301-657

APPLICABLE CODES & STANDARDS

CODES:

1. 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
2. 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
3. 2019 CALIFORNIA RESIDENTIAL CODE C.C.R., TITLE 24, PART 2.5 BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE WITH CALIFORNIA AMENDMENTS.
4. 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
5. 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
6. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
7. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
8. 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
9. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
10. 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
11. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
12. NATIONAL FIRE ALARM CODE (NFPA 72) 2019.
13. CITY OF FOSTER CITY ORDINANCES, CODES, AND REGULATIONS.

STANDARDS:

1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
6. UNDERWRITER LABORATORIES (UL)
7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

E0.1 SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX.
E2.1 ELECTRICAL SITE PLAN - E. 3rd AVENUE.
E2.2 ELECTRICAL SITE PLAN - BRIDGEVIEW PARK .
E2.3 ELECTRICAL SITE PLAN - SHOREBIRD PARK.
E3.1 ELECTRICAL SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3. CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, LANDSCAPE ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
5. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE LANDSCAPE ARCHITECT.
6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
7. CONTRACTOR SHALL PROVIDE TO THE LANDSCAPE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8. CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO THE LANDSCAPE ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
13. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
15. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK. REUSE (E) CONDUIT WHERE POSSIBLE.
16. WHERE IT IS NOT POSSIBLE TO REUSE (E) CONDUIT OR RUN (N) CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
17. EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO (E) UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO (E) UNDERGROUND SYSTEMS AS A RESULT OF (N) WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
19. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
20. WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT.
21. ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ELECTRICAL ENGINEER BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH ENGINEER. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE THE ENGINEER. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ENGINEER WILL BE MADE.

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

- SECURITY DOOR CONTACTS
- MD — SECURITY MOTION DETECTOR
- SC — CCTV CAMERA
- KP — SECURITY SYSTEM KEYPAD
- DOOR BELL PUSHBUTTON
- CH — DOOR CHIME WITH LED
- RECEPTACLE - DUPLEX*
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- GFCI CONVENIENCE RECEPTACLE - DUPLEX*
- GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- RECEPTACLE DOUBLE DUPLEX*
- HALF SWITCHED DUPLEX RECEPTACLE *
- SINGLE RECEPTACLE*
- DUPLEX RECEPTACLE - CEILING MOUNTED
- HC — LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE *
- C — LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *
- FLOOR MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED BOX
- POWER OUTLET - SEE PLANS FOR NEMA TYPE*
- POWER POLE
- WALL TELEPHONE OUTLET**
- [#] VOICE/DATA WALL OUTLET*
- [#] VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- [#] SURFACE MOUNTED VOICE/DATA WALL OUTLET *
- [#] SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED
- WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT
- [#] VOICE/DATA OUTLET - FLOOR MOUNTED
- TV OUTLET*
- [#] VOICE/DATA OUTLET - CEILING MOUNTED
- S — INTERIOR SPEAKERS CEILING MOUNTED
- S — INTERIOR SPEAKERS WALL MOUNTED
- C — CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION

- PANELBOARD - FLUSH MOUNTED
- EQUIPMENT PANEL - FLUSH MOUNTED
- PANELBOARD - SURFACE MOUNTED
- EQUIPMENT PANEL - SURFACE MOUNTED
- M — METER W/ CURRENT TRANSFORMER
- J — JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFGR'S NAMEPLATE DATA
- COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA
- MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED
- CIRCUIT BREAKER
- GROUND ROD WITH GROUNDWELL BOX
- GROUND ELECTRODE
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- TRANSFORMER - SEE SINGLE LINE FOR SIZE
- PULLBOX
- FLEX CONDUIT WITH CONNECTION
- CONDUIT - UP
- CONDUIT - DOWN
- E — CONDUIT EMERGENCY SYSTEM
- LV — LOW VOLTAGE WIRING
- SURFACE METAL OR NON-METALLIC RACEWAY
- CONDUIT - CONCEALED IN WALLS OR CEILING
- CONDUIT - EXISTING
- CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN.
- CAPPED OR STUB-OUT CONDUIT
- CONDUIT CONTINUATION
- #10 — CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.
- 2 — SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET
- 3 — SCHEDULE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET

- 2 — DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL
- F301 — FEEDER DESIGNATION; SEE ASSOCIATED NOTE ON SAME DETAIL
- 1 / E3.0 — DETAIL NUMBER; DETAIL OR SECTION REFERENCE; SHEET NUMBER
- 1 / 2 — INDICATES QUANTITY OF TELEPHONE OUTLETS; INDICATES QUANTITY OF DATA OUTLETS

ABBREVIATIONS

A	AMPERE	GFCI	GROUND FAULT	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	GFI	INTERRUPTING	OAH	OVERALL HEIGHT
ALUM/AL	ALUMINUM	GND, G	GROUND	OC	ON CENTER
ARCH	ARCHITECT	GRS	GALVANIZED RIGID STEEL	OH	OVERHEAD
AWG	AMERICAN WIRE GAUGE	HT	HEIGHT	PA	PUBLIC ADDRESS
BKR	BREAKER	IC	INTERCOM	PB	PULL BOX
C	CONDUIT	IDF	INTERMEDIATE DISTRIBUTION FRAME	PF	POWER FACTOR
CATV	CABLE TV	INCAND	INCANDESCENT	PH	PHASE
CB	CIRCUIT BREAKER	JB	JUNCTION BOX	PIR	PASSIVE INFRARED
CCTV	CLOSED CIRCUIT TV	KV	KILOVOLT	PNL	PANEL
CKT	CIRCUIT	KVA	KILOVOLT AMPERES	PV	PHOTOVOLTAIC
CL	CENTER LINE	KW	KILOWATT	PVC	POLYVINYL CHLORIDE
CLG	CEILING	LCP	LIGHTING CONTROL PANEL	PWR	POWER
C.O.	CONDUIT ONLY	LTG	LIGHTING	(R)	EXISTING TO BE REMOVED
CTR	CENTER	LV	LOW VOLTAGE	(RP)	REMOVABLE POLE
D	DIMMER	KCM	THOUSAND CIRCULAR MILS	RECPT'S	RECEPTACLES
DIM	DIMENSION	M.B.	MAIN CIRCUIT BREAKER	REQD	REQUIRED
DIST	DISTRIBUTION	MCA	MINIMUM CIRCUIT AMPS	REQMT'S	REQUIREMENT(S)
(E)	EXISTING	MDF	MAIN DISTRIBUTION FRAME	SHT	SHEET
EC	ELECTRICAL CONTRACTOR	MECH	MECHANICAL	SLD	SINGLE LINE DIAGRAM
(EL)	EVENING LIGHT	MH	METAL HALIDE	STC	SYSTEMS TERMINATION CABINET
EM	EMERGENCY	MLO	MAIN LUGS ONLY	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	MPOE	MAIN POINT OF ENTRANCE	SWBD	SWITCHBOARD
EQUIP	EQUIPMENT	MTD	MOUNTED	TTB	TELEPHONE TERMINAL BACKBOARD
EV	ELECTRICAL VEHICLE	MTG	MOUNTING	TYP	TYPICAL
FA	FIRE ALARM	MOCP	MAXIMUM OVER CURRENT PROTECTION	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	(N)	NEW	UG	UNDERGROUND
FC	FOOT CANDLE	NIC	NOT IN CONTRACT	V	VOLT
FIN	FINISH	NIEC	NOT IN ELECTRICAL CONTRACT	VD	VOLTAGE DROP
FL	FLOOR	(NL)	NIGHT LIGHT	W	WATT
FLA	FULL LOAD AMPS	NO.	NUMBER	W/	WITH
FLUOR	FLUORESCENT	NOM	NOMINAL	WP	WEATHERPROOF
(F)	FUTURE			XFMR	TRANSFORMER
GC	GENERAL CONTRACTOR				

* +15" A.F.F. TO BOTTOM OF BOX, U.O.N.
** +48" A.F.F. TO TOP OF BOX, U.O.N.
[#] NUMBER IN BRACKETS DENOTES NUMBER OF CABLE DROPS WHEN MORE THAN (2).

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: SS				
PROJECT NUMBER: FOST.12.16				
DESIGNED BY: NA				
CHECKED BY: NA	1		07/31/20	CONFORMED SET
SURVEYED BY: WILSEY-HAM	NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER NAJIB ANWARY No. E21043 EXP. 3/31/21 ELECTRICAL STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.
Project No. 18557.00
60 Garden Court • Suite 210 • Monterey, CA 93940
T.831.646.3330 • F.831.646.3336 • www.acemb.com

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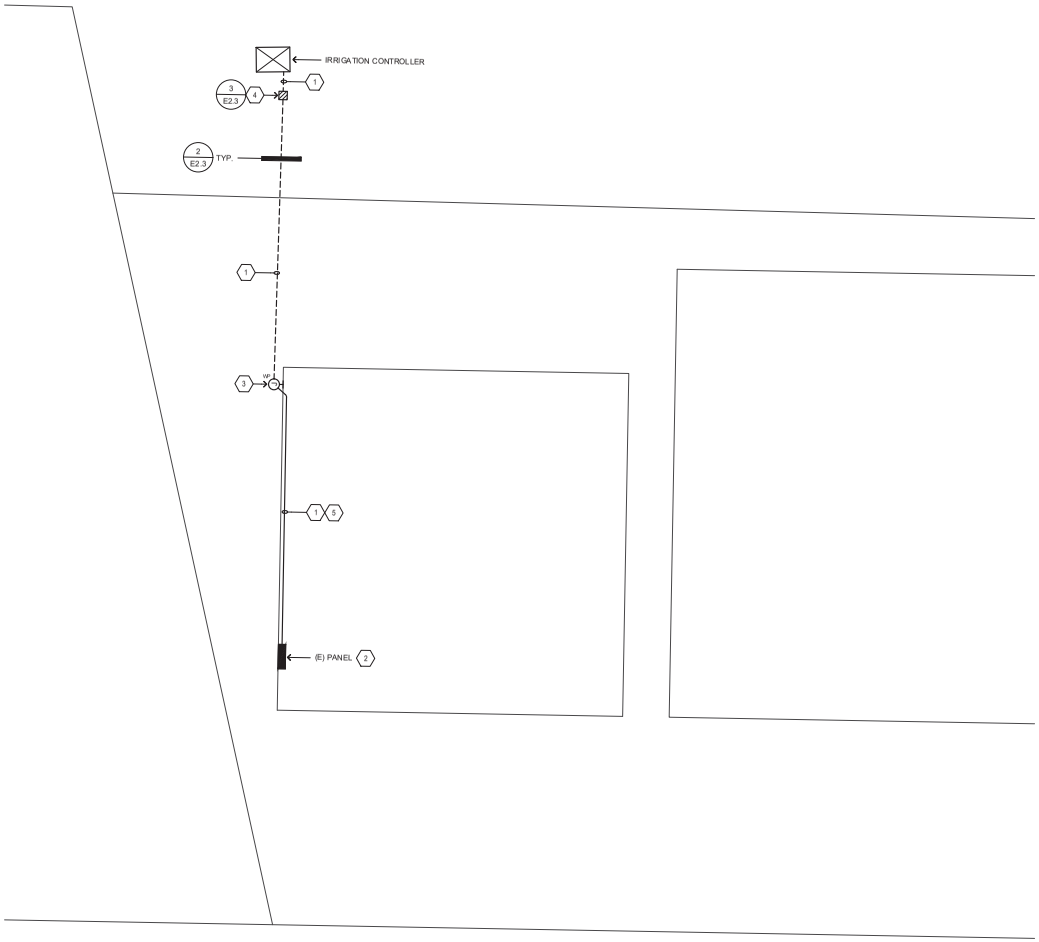
FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX

SHEET
E0.1
SHEET 377 OF 384

CIP PROJ. NUMBER
CIP 301-657

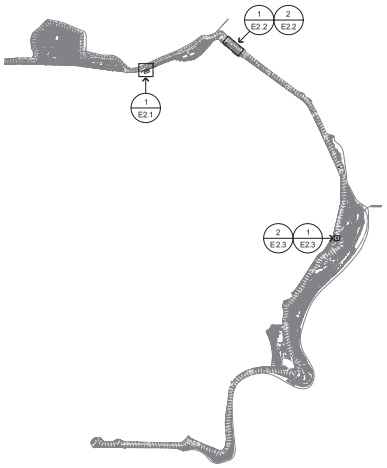


1 ELECTRICAL SITE PLAN - E. 3rd AVENUE

SCALE: 1/4" = 1'-0"

4' 0' 1' 2' 3' 4'

NORTH



2 KEY PLAN

NOT TO SCALE

NORTH

SHEET NOTES

1. PROVIDE & INSTALL:
   - (1) ¾"C., 2 #10 & 1 #10 GND FOR IRRIGATION CONTROLLER.
2. PROVIDE & INSTALL (1) 20A, 1-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE FOR NEW IRRIGATION CONTROLLER. MATCH EXISTING IN TYPE AND AIC RATING.
3. PROVIDE & INSTALL 6"SQ. x 4"DEEP NEMA 3R PULLCAN WITH SCREW COVER HOFFMAN OR EQUAL FOR IRRIGATION CONTROLLER CONDUIT ROUTING. COORDINATE WITH LANDSCAPE ARCHITECT FOR MOUNTING HEIGHT.
4. PROVIDE AND INSTALL IN-GRADE CHRISTY #N16 PULLBOX, LID LABELED "ELECTRICAL".
5. ROUTE CONDUIT ON INTERIOR WALL BELOW RAFTER.

NOTES:

A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.

B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.

C. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF IRRIGATION CONTROLLER WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN FOR POWER/CONTROLS CONNECTION POINTS TO ENSURE PROPER LOCATIONS FOR ALL DEVICES IS VERIFIED.

DATE:	4/24/2020
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PROJECT NUMBER:	FOST.12.16
DESIGNED BY:	NA
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PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER
HALIB ANWARI
No. E21343
EXP. 3/31/21
ELECTRICAL
STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.
Project No. 18557.00
60 Garden Court ● Suite 210 ● Monterey, CA 93940
T.831.646.3330 ● F.831.646.3336 ● www.acemb.com

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ELECTRICAL SITE PLAN - E. 3rd AVENUE

SHEET
E2.1
SHEET 378 OF 384
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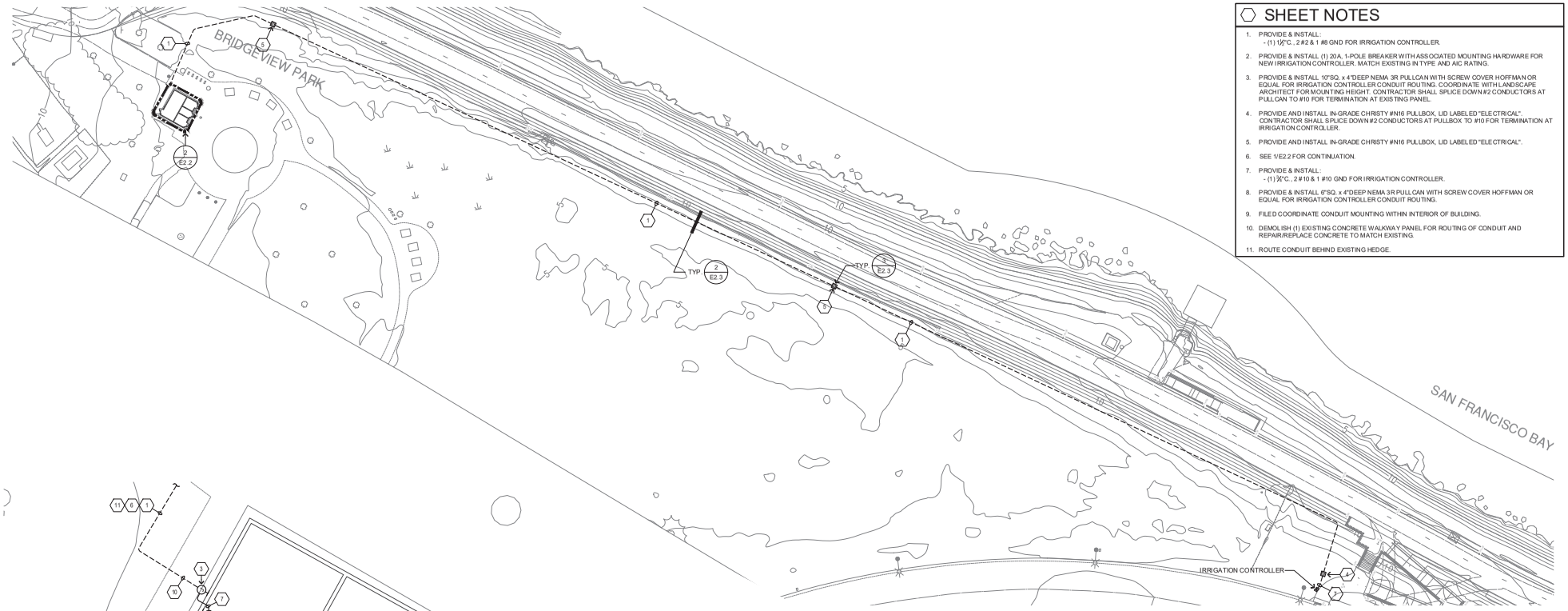
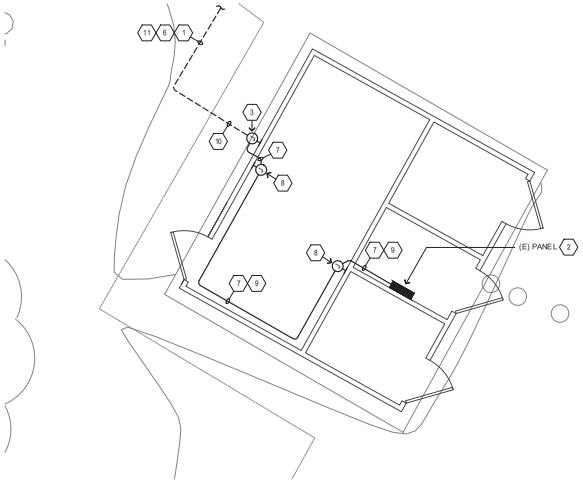


SHEET NOTES

1. PROVIDE & INSTALL:
   - (1) 1½"C., 2 #2 & 1 #8 GND FOR IRRIGATION CONTROLLER.
2. PROVIDE & INSTALL (1) 20A, 1-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE FOR NEW IRRIGATION CONTROLLER. MATCH EXISTING IN TYPE AND AIC RATING.
3. PROVIDE & INSTALL 10"SQ. x 4"DEEP NEMA 3R PULLCAN WITH SCREW COVER HOFFMAN OR EQUAL FOR IRRIGATION CONTROLLER CONDUIT ROUTING. COORDINATE WITH LANDSCAPE ARCHITECT FOR MOUNTING HEIGHT. CONTRACTOR SHALL SPLICE DOWN #2 CONDUCTORS AT PULLCAN TO #10 FOR TERMINATION AT EXISTING PANEL.
4. PROVIDE AND INSTALL IN-GRADE CHRISTY #N16 PULLBOX, LID LABELED "ELECTRICAL". CONTRACTOR SHALL SPLICE DOWN #2 CONDUCTORS AT PULLBOX TO #10 FOR TERMINATION AT IRRIGATION CONTROLLER.
5. PROVIDE AND INSTALL IN-GRADE CHRISTY #N16 PULLBOX, LID LABELED "ELECTRICAL".
6. SEE 1/E2.2 FOR CONTINUATION.
7. PROVIDE & INSTALL:
   - (1) ¾"C., 2 #10 & 1 #10 GND FOR IRRIGATION CONTROLLER.
8. PROVIDE & INSTALL 6"SQ. x 4"DEEP NEMA 3R PULLCAN WITH SCREW COVER HOFFMAN OR EQUAL FOR IRRIGATION CONTROLLER CONDUIT ROUTING.
9. FILED COORDINATE CONDUIT MOUNTING WITHIN INTERIOR OF BUILDING.
10. DEMOLISH (1) EXISTING CONCRETE WALKWAY PANEL FOR ROUTING OF CONDUIT AND REPAIR/REPLACE CONCRETE TO MATCH EXISTING.
11. ROUTE CONDUIT BEHIND EXISTING HEDGE.

1 PARTIAL SITE PLAN - BRIDGEVIEW PARK
SCALE: 1" = 30'-0"
30' 0' 15' 30'
NORTH



2 PARTIAL SITE PLAN - BRIDGEVIEW PARK
SCALE: 1/4" = 1'-0"
4' 0' 1' 2' 3' 4'
NORTH

NOTES:

A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.

B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT IF INISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.

C. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF IRRIGATION CONTROLLER WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN FOR POWER/CONTROLS CONNECTION POINTS TO ENSURE PROPER LOCATIONS FOR ALL DEVICES IS VERIFIED.

DATE: 4/24/2020				
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DRAWN BY: SS				
PROJECT NUMBER: FOST.12.19				
DESIGNED BY: NA				
CHECKED BY: NA				
SURVEYED BY: WILSEY-HAM	1		07/31/20	CONFORMED SET
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60 Garden Court ◆ Suite 210 ◆ Monterey, CA 93940
T. 831.646.3330 ◆ F. 831.646.3336 ◆ www.aceinb.com

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
ELECTRICAL SITE PLAN - BRIDGEVIEW PARK

SHEET
E2.2
SHEET 379 OF 384
CIP PROJ. NUMBER
CIP 301-657

SHEET NOTES

1. PROVIDE & INSTALL:
   - (1) 2"C., 2 #10 & 1 #10 GND FOR IRRIGATION CONTROLLER.
2. FIELD VERIFY EXACT LOCATION OF EXISTING PANEL. PROVIDE & INSTALL (1) 20A, 1-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE FOR NEW IRRIGATION CONTROLLER. MATCH EXISTING IN TYPE AND AIC RATING.
3. PROVIDE & INSTALL 6"SQ. x 4"DEEP NEMA 3R PULLCAN WITH SCREW COVER HOFFMAN OR EQUAL FOR IRRIGATION CONTROLLER CONDUIT ROUTING. COORDINATE WITH ARCHITECT FOR MOUNTING HEIGHT.
4. PROVIDE AND INSTALL IN-GRADE CHRISTY #N16 PULLBOX, LID LABELED "ELECTRICAL".
5. DEMOLISH (1) EXISTING CONCRETE WALKWAY PANEL FOR ROUTING OF CONDUIT AND REPAIR/REPLACE CONCRETE TO MATCH EXISTING.
6. CONTRACTOR SHALL RISER DOWN BELOW BUILDING FOOTING TO OUTSIDE PULLBOX. CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES AS NECESSARY.
7. BORE UNDER EXISTING WALKWAY.

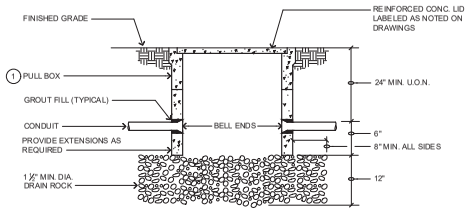
NOTES:

A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.

B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.

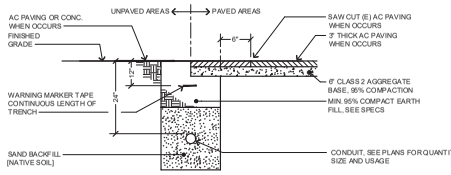
C. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF IRRIGATION CONTROLLER WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN FOR POWER/CONTROLS CONNECTION POINTS TO ENSURE PROPER LOCATIONS FOR ALL DEVICES IS VERIFIED.

DETAIL NOTES:
1. SIZE(S) & MFGR. AS NOTED ON DRAWINGS.



3 TYPICAL PULLBOX DETAIL

NO SCALE

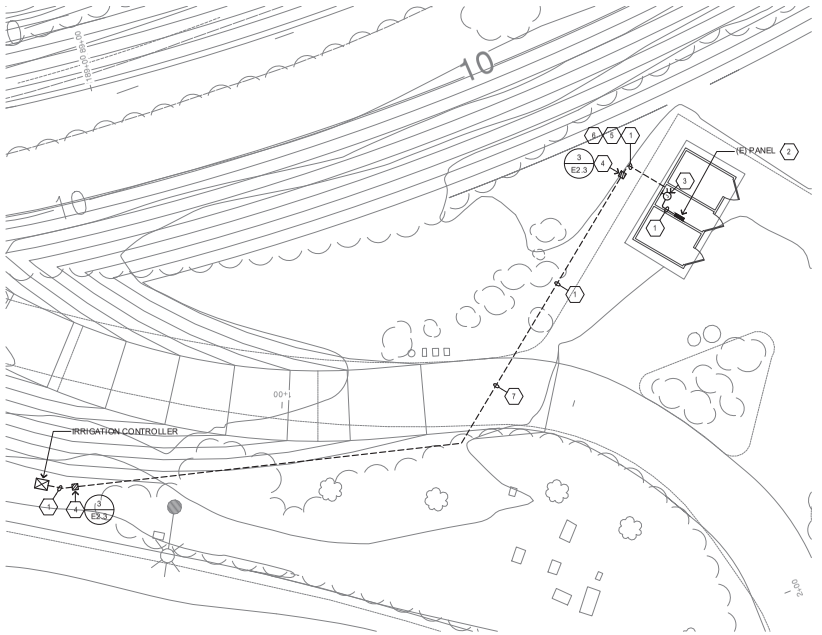


NOTES:

1. SAW CUT, TRENCH & BACKFILL FOR (N) CONDUITS. PATCH WALKWAY TO MATCH (E) SURROUNDING SURFACES. CARE SHALL BE TAKEN TO PROTECT EXISTING TREES. RESEED OR RESOD (E) DISTURBED PLANTED AREAS TO ARCHITECT'S SATISFACTION.
2. EXISTING A.C. SHALL BE CUT AND REMOVED IN SUCH A MANNER SO AS NOT TO TEAR BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO STREET CENTERLINE, WHEN PRACTICAL.
3. BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN. 95% RELATIVE COMPACTION. A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL. WHEN USED AS BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL.
4. A TACK COAT OF ASPHALTIC EMULSION OR PAVING ASPHALT SHALL BE APPLIED TO EXISTING A.C. AT ALL CONTACT SURFACES, PRIOR TO RESURFACING.
5. ASPHALTIC CONCRETE RESURFACING:
   A) MINIMUM TOTAL THICKNESS SHALL BE ONE INCH GREATER THAN EXISTING A.C.
   B) A.C. SHALL BE HOT PLANT MIX.
6. ALL A.C. RESURFACING SHALL BE SEAL COATED WITH AN EMULSIFIED ASPHALT AND COVERED WITH CLEAN SAND.

2 TYPICAL TRENCH SECTION

NO SCALE



1 PARTIAL SITE PLAN - SHOREBIRD PARK

SCALE: 1" = 10'

10' 0' 10' 20'

NORTH

DATE: 4/24/2020				
SCALE: AS SHOWN				
DRAWN BY: SS				
PROJECT NUMBER: FOST.12.19				
DESIGNED BY: NA				
CHECKED BY: NA				
SURVEYED BY: WILSEY-HAM				
	1		07/31/20	CONFORMED SET
	NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER — MATTB ARNOLD — No. E25363 EXP. 3/31/21 — ELECTRICAL — STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.
Project No.: 18557.00
60 Garden Court ◆ Suite 210 ◆ Monterey, CA 93940
T: 831.646.3330 ◆ F: 831.646.3336 ◆ www.acemb.com

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FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657
ELECTRICAL SITE PLAN - SHOREBIRD PARK

SHEET
2.3
SHEET 380 OF 384

CIP PROJ. NUMBER
CIP 301-657

SECTION 26 05 73

GENERAL ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.01 Description of Work:
A. Furnish and install all required in-place equipment, conduits, conductors, cables and any miscellaneous materials for the satisfactory interconnection and operation of all associated electrical systems.

1.02 Submittals:
A. As specified in Division 1. Submit to the Landscape Architect shop drawings, manufacturer's data and certificates for equipment, materials and finish, and pertinent details for each system specified. Information to be submitted includes manufacturer's descriptive literature of cataloged products, equipment, drawings, diagrams, performance and characteristic curves as applicable, test data and catalog cuts. Obtain written approval before procurement, fabrication, or delivery of the items to the job site.
B. Proposed substitutions of products will not be reviewed or approved prior to awarding of the Contract.
C. Substitutions shall be proven to the Landscape Architect or Engineer to be equal or superior to the specified product. Landscape Architect's decision is final. The Contractor shall pay all costs incurred by the Landscape Architect and Engineer in reviewing and processing any proposed substitutions whether or not a proposed substitution is accepted.
D. If a proposed substitution is rejected, the contractor shall furnish the specified product at no increase in contract price.
E. If a proposed substitution is accepted, the contractor shall be completely responsible for all dimensional changes, electrical changes, or changes to other work which are a result of the substitution. The accepted substitution shall be made at no additional cost to the owner or design consultants.

1.03 Quality Assurance:
A. Codes: All electrical equipment and materials, including installation and testing, shall conform to the latest editions of the following applicable codes:
1. California Electrical Code (CEC).
2. Occupational Safety and Health Act (OSHA) standards.
3. All applicable local codes, rules and regulations.
4. Electrical Contractor shall posses a C-10 license and all other licenses as may be required. Licenses shall be in effect at start of this contract and be maintained throughout the duration of this contract.
B. Variances: In instances where two or more codes are at variance, the most restrictive requirement shall apply.
C. Standards: Equipment shall conform to applicable standards of American National Standards Institute (ANSI), Electronics Industries Association (EIA), Institute of Electrical and Electronics Engineers (IEEE), and National Electrical Manufacturers Association (NEMA).
D. Underwriter Laboratories (UL) listing is required for all equipment and materials where such listing is offered by the Underwriters Laboratories. Provide service entrance labels for all equipment required by the NEC to have such labels.
E. The electrical contractor shall guarantee all work and materials installed under this contract for a period of one (1) year from date of acceptance by owner.
F. All work and materials covered by this specification shall be subject to inspection at any and all times by representatives of the owner. Work shall not be closed in or covered before inspection and approval by the owner or his representative. Any material found not conforming with these specifications shall, within 3 days after being notified by the owner, be removed from premises; if said material has been installed, entire expense of removing and replacing same, including any cutting and patching that may be necessary, shall be borne by the contractor.

1.04 Contract Documents:
A. Drawings: The Electrical Drawings shall govern the general layout of the completed construction.
1. Locations of equipment, panels, pullboxes, conduits, stub-ups, ground connections are approximate unless dimensioned; verify locations with the Landscape Architect prior to installation.
2. The general arrangement and location of existing conduits, piping, apparatus, etc., is approximate. The drawings and specifications are for the assistance and guidance of the contractor, exact locations, distances and elevations are governed by actual field conditions. Accuracy of data given herein and on the drawings is not guaranteed. Minor changes may be necessary to accommodate work. The contractor is responsible for verifying existing conditions. Should it be necessary to deviate from the design due to interference with existing conditions or work in progress, claims for additional compensation shall be limited to those for work required by unforeseen conditions as determined by the Landscape Architect.
3. All drawings and divisions of these specifications shall be considered as whole. The contractor shall report any apparent discrepancies to the Landscape Architect prior to submitting bids.
4. The contractor shall be held responsible to have examined the site and compared it with the specifications and plans and to have satisfied himself as to the conditions under which the work is to be performed. He shall be held responsible for knowledge of all existing conditions whether or not accurately described. No subsequent allowance shall be made for any extra expense due to failure to make such examination.

1.05 Closeout Submittals:
A. Manuals: Furnish manuals for equipment where manuals are specified in the equipment specifications or are specified in Division 1.

1.06 Coordination:
A. Coordinate the electrical work with the other trades, code authorities, utilities and the Landscape Architect.
B. Provide and install all trenching, backfilling, conduit, pull boxes, splice boxes, etc. for all Utility Company services to the locations indicated on the Drawings. Prior to performing any work, the Electrical Contractor shall coordinate with the various Utility Companies to verify that all such work and materials shown on the Drawings are of sufficient sizes and correctly located to provide services on the site.
C. Utility Company charges shall be paid by the Owner.
D. Contractor shall pay all inspection and other applicable fees and procure all permits necessary for the completion of this work.
E. Where connections must be made to existing installations, properly schedule all the required work, including the power shutdown periods.
F. When two trades join together in an area, make certain that no electrical work is omitted.

1.07 Job Conditions:
A. Operations: Perform all work in compliance with Division 1
1. Keep the number and duration of power shutdown periods to a minimum.
2. Show all proposed shutdowns and their expected duration on the construction schedule. Schedule and carry out shutdowns so as to cause the least disruption to operation of the Owner's facilities.
3. Carry out shutdown only after the schedule has been approved, in writing, by the owner. Submit power interruption schedule 15 days prior to date of interruption.
B. Construction Power: Unless otherwise noted in Division 1 of these specifications, contractor shall make all arrangements and provide all necessary facilities for temporary construction power from the owner's on site source. Energy costs shall be paid for by the Owner.

1.08 Safety and Indemnity:
A. The Contractor is solely and completely responsible for conditions of the job site including safety of all persons and property during performance of the work. This requirement will apply continually and not be limited to normal working hours. The contractor shall provide and maintain throughout the work site proper safeguards including, but not limited to, enclosures, barriers, warning signs, lights, etc. to prevent accidental injury to people or damage to property.
B. The Contractor performing work under this Division of the Specifications shall hold harmless, indemnify, and defend the Owner, the Engineer, their consultants, and each of their officers, agents and employees from any and all liability claims, losses, or damage arising out of or alleged to arise from bodily injury, sickness, or death of a person or persons and for all damages arising out of injury to or destruction of property arising directly or indirectly out of or in connection with the performance of the work under this Division of the Specifications, and from the Contractor's negligence in the performance of the work described in the construction contract documents, but not including liability that may be due to the sole negligence of the Owner, the Engineer, their Consultants or their officers, agents and employees.
C. If a work area is encountered that contains hazardous materials, the contractor is advised to coordinate with the owner and it's abatement consultant for abatement of hazardous material by the Owner's Representative. "Hazardous materials" means any toxic substance regulated or controlled by OSHA, EPA, State of California or local rules, regulations and laws. Nothing herein shall be construed to create a liability for Aurum Consulting Engineers regarding hazardous materials abatement measures, or discovery of hazardous materials.

1.09 Access Doors:
A. The contractor shall install access panels as required where floors, walls or ceilings must be penetrated for access to electrical, control, fire alarm or other specified electrical devices. The minimum size panel shall be 14" x 14" in usable opening. Where access by a service person is required, minimum usable opening shall be 18" x 24".

1.10 Arc Flash:
A. The contractor shall install a clearly visible arc flash warning to the inside door of all panelboards and industrial control panels, as well as to the front of all switchboards and motor control centers that are a part of this project.
B. The warning shall have the following wording: line 1 "WARNING" (in large letters), line 2 "Potential Arc Flash Hazard" (in medium letters), line 3 & 4 "Appropriate Personal Protective Equipment and Tools required when working on this equipment".

1.11 All boxes and enclosures for emergency circuits shall be permanently marked with a readily visible red spray painted mark.

PART 2 - PRODUCTS

2.01 Nameplates:
A. Identify each piece of equipment and related controls with a rigid laminated engraved plastic nameplate. Unless otherwise noted, nameplates shall be melamine plastic 0.125 inch thick, white with black center core. Surface shall be matte finish. Corners shall be square. Accurately align lettering and engrave into the core. Minimum size of nameplates shall be 0.5 by 2.5 inches unless otherwise noted. Where not otherwise specified, lettering shall be a minimum of 0.25 inch high normal block style. Engrave nameplates with the inscriptions indicated on the Drawings and, if not so indicated, with the equipment name. Securely fasten nameplates in place using two stainless steel or brass screws.

2.02 Finish requirements:
A. Equipment: Refer to each electrical equipment section of these Specifications for painting requirements of equipment enclosures. Repair any final paint finish which has been damaged or is otherwise unsatisfactory, to the satisfaction of the Landscape Architect.
B. Wiring System: In finished areas, paint all exposed conduits, boxes and fittings to match the color of the surface to which they are affixed.

PART 3 - EXECUTION

3.01 Workmanship:
A. All electrical equipment and materials shall be installed in a neat and workmanship manner in accordance with the "NECA-1 Standard Practices For Good Workmanship in Electrical Contracting". Workmanship of the entire job shall be first class in every respect.

3.02 Equipment Installations:
A. Provide the required inserts, bolts and anchors, and securely attach all equipment and materials to their supports.
B. Do all the cutting and patching necessary for the proper installation work and repair any damage done.
C. Earthquake restraints: all electrical equipment, including conduits over 2 inches in diameter, shall be braced or anchored to resist a horizontal force acting in any direction as per CBC Section 1616A Title 24, part 2 and ASCE7-10, section 13.3 and 13.6 and table 13.6-1.
D. Structural work: All core drilling, bolt anchor insertion, or cutting of existing structural concrete shall be approved by a California registered structural consulting engineer prior to the execution of any construction. At all floor slabs and structural concrete walls to be drilled, cut or bolt anchors inserted, the contractor shall find and mark all reinforcing in both faces located by means of x-ray, pach-ometer, or prof-ometer. Submit sketch showing location of rebar and proposed cuts, cores, or bolt anchor locations for approval.

3.03 Field Test:
A. Perform equipment field tests and adjustments. Properly calibrate, adjust and operationally check all circuits and components, and demonstrate as ready for service.
B. Operational Tests: Operationally test all circuits to demonstrate that the circuits and equipment have been properly installed and adjusted and are ready for full-time service. Demonstrate the proper functioning of circuits in all modes of operation, including alarm conditions.

3.04 Records:
A. Maintain one copy of the contract Drawing Sheets on the site of the work for recording the "as built" condition. After completion of the work, the Contractor shall carefully mark the work as actually constructed, revising, deleting and adding to the Drawing Sheets as required. As built Drawings shall be delivered to the Landscape Architect within ten (10) days of completion of construction.

3.05 Clean Up:
A. Upon completion of electrical work, remove all surplus materials, rubbish, and debris that accumulated during the construction work. Leave the entire area neat, clean, and acceptable to the Landscape Architect.

3.06 Mechanical and Plumbing Electrical Work:
A. The requirements for electrical power and/or devices for all mechanical and plumbing equipment supplied and/or installed under this Contract shall be coordinated and verified with the following:
1. Mechanical and Plumbing Drawings.
2. Mechanical and Plumbing sections of these Specifications.
3. Manufacturers of the Mechanical and Plumbing equipment supplied.
B. The coordination and verification shall include the voltage, ampacity, phase, location and type of disconnect, control, and connection required. Any changes that are required as a result of this coordination and verification shall be a part of this Contract.
C. The Electrical Contractor shall furnish and install the following for all mechanical and plumbing equipment:
1. Line voltage conduit and wiring.
2. Disconnect switches.
3. Manual line motor starters.
D. Automatic line voltage controls and magnetic starters shall be furnished by the Mechanical and/or Plumbing Contractor and installed and connected by the Electrical Contractor. When subcontracted for by the Mechanical and/or Plumbing Contractor, all line voltage control wiring installed by the Electrical Contractor shall be done per directions from the Mechanical and/or Plumbing Contractor.
E. All low voltage control wiring for Mechanical and Plumbing equipment shall be installed in conduit. Furnishing, installation and connection of all low voltage conduit, boxes, wiring and controls shall be by the Mechanical and/or Plumbing Contractor.
F. Manual motor starters, where required, shall have toggle type operators with pilot light and melting alloy type overload relays, SQUARE D COMPANY, Class 2510, Type FG-1P (surface) or Type FS-1P (flush) or ITE, WESTINGHOUSE or GENERAL ELECTRIC equal.

SECTION 26 05 26

GROUNDING

PART 1 - EXECUTION

1.1 Grounding and Bonding:
A. Grounding and bonding shall be as required by codes and local authorities.
B. All electrical equipment shall be grounded, including, but not limited to, panel boards, terminal cabinets and outlet boxes.
C. The ground pole of receptacles shall be connected to their outlet boxes by means of a copper ground wire connecting to a screw in the back of the box.
D. A green insulated copper ground wire, sized to comply with codes, shall be installed in all conduit runs.
E. All metal parts of pull boxes shall be grounded per code requirements.
F. All ground conductors shall be green insulated copper.

SECTION 26 05 42

CONDUITS, RACEWAYS AND FITTINGS

PART 1 - EXECUTION

1.01 Conduit, Raceway and Fitting Installation:
A. For conduit runs exposed to weather provide rigid metal (GRS).
B. For conduit run underground, in concrete or masonry block wall and under concrete slabs, install minimum ¾" size nonmetallic (PVC) with PVC elbows. Where conduits transition from underground or under slab to above grade install wrapped rigid metal (GRS) elbows and risers.
C. For conduit runs concealed in steel or wood framed walls or in ceiling spaces or exposed in interior spaces above six feet over the finished floor, install EMT.
D. Flexible metal conduit shall be used only for the connection of recessed lighting fixtures and motor connections unless otherwise noted on the Drawings. Liquid-tight steel flexible conduit shall be used for motor connections.
E. The minimum size raceway shall be 1/2-inch unless indicted otherwise on the Drawings.
F. Installation shall comply with the CEC.
G. From pull point to pull point, the sum of the angles of all of the bends and offset shall not exceed 360 degrees.
H. Conduit Supports: Properly support all conduits as required by the NEC. Run all conduits concealed except where otherwise shown on the drawings.
1. Exposed Conduits: Support exposed conduits within three feet of any equipment or device and at intervals not exceeding NEC requirements; wherever possible, group conduits together and support on common supports. Support exposed conduits fastened to the surface of the concrete structure by one-hole clamps, or with channels. Use conduit spacers with one-hole clamps.
a. Conduits attached to walls or columns shall be as unobtrusive as possible and shall avoid windows. Run all exposed conduits parallel or at right angles to building lines.
b. Group exposed conduits together. Arrange such conduits uniformly and neatly.
2. Support all conduits within three feet of any junction box, coupling, bend or fixture.
3. Support conduit risers in shafts with Unistrut Superstrut, or approved equal, channels and straps.
I. Moisture Seals: Provide in accordance with NEC paragraphs 230-8 and 300-5(g).
J. Where PVC conduit transitions from underground to above grade, provide rigid steel 90's with risers. Rigid steel shall be half-lap wrapped with 20 mil tape and extend minimum 12" above grade.
K. Provide a nylon pull cord in each empty raceway.
L. Provide galvanized rigid steel factory fittings for galvanized rigid steel conduit.
M. Slope all underground raceways to provide drainage; for example, slope conduit from equipment located inside a building to the pull box or manhole located outside the building.
N. Conduits shall be blown out and swabbed prior to pulling wires.

SECTION 26 05 16

LINE VOLTAGE WIRE AND CABLE

PART 1 - PRODUCTS

1.01 Conductors:
A. Conductors shall be copper, type THHN/THWN/MTW oil and gasoline resistant, 90°C, 600 volt rated insulation.
B. Conductors shall be stranded copper.
C. Minimum power and control wire size shall be No. 12 AWG unless otherwise noted.
D. All conductors used on this Project shall be of the same type and conductor material.

1.02 Terminations:
A. Manufacturer - Terminals as manufactured by T&B, Burndy or equal.
B. Wire Terminations - Stranded conductors shall be terminated in clamping type terminations which serve to contain all the strands of the conductor. Curling of a stranded conductor around a screw type terminal is not allowed. For screw type terminations, use a fork type stake-on termination on the stranded conductor. Use only a stake-on tool approved for the fork terminals selected.
C. End Seals - Heat shrink plastic caps of proper size for the wire on which used.

1.03 Tape:
A. Tape used for terminations and cable marking shall be compatible with the insulation and jacket of the cable and shall be of plastic material.

PART 2 - EXECUTION

2.01 Cable Installation:
A. Clean Raceways - Clean all raceways prior to installation of cables as specified in Section 26 05 42 - Conduits Raceway and Fittings.
B. All wiring including low voltage wiring shall be installed in conduit, U.O.N.
C. All feeder conductors shall be continuous from equipment to equipment. Splices in feeders are not permitted unless specifically noted or approved by the Electrical Engineer.
D. All branch circuit wiring shall be run concealed in ceiling spaces, walls, below floors or in crawl spaces unless noted otherwise.

2.02 Cable Terminations and Splices:
A. Splices - UL Listed wirenuts.
B. Terminations - Shall comply with the following:
1. Make up and form cable and orient terminals to minimize cable strain and stress on device being terminated on.
2. Burnish oxide from conductor prior to inserting in oxide breaking compound filled terminal.

2.03 Circuit and Conductor Identification:
A. Color Coding - Provide color coding for all circuit conductors. Insulation color shall be white for neutrals and green for grounding conductors. Conductor colors shall be as follows:

VOLTAGE	208/120V
Phase A	Black
Phase B	Red
Phase C	Blue
Neutral	White
Ground	Green

B. Color coding shall be in the conductor insulation for all conductors #10 AWG and smaller; for larger conductors, color shall be either in the insulation or in colored plastic tape applied at every location where the conductor is readily accessible.
C. Circuit Identification - All underground distribution and service circuits shall be provided with plastic identification tags in each secondary box and at each termination. Tags shall identify the source transformer of the circuit and the building number(s) serviced by the circuit.

2.04 Field Tests:
A. All systems shall test free from short circuits and grounds, shall be free from mechanical and electrical defects, and shall show an insulation resistance between phase conductors and ground of not less than the requirements of the CEC. All circuits shall be tested for proper neutral connections.

SECTION 26 05 33

OUTLET, JUNCTION AND PULL BOXES

PART 1 - PRODUCTS

1.01 Outlet boxes, Junction and Pull boxes
A. Standard Outlet Boxes: Galvanized, steel, knock-out type of size and configuration best suited to the application indicated on the Drawings. Minimum box size shall be 4 inches square (octagon for most light fixtures) by 1-1/2 inches deep with mud rings as required. Boxes used with conduit 1" or larger shall be minimum 2" deep.
B. Switch boxes: Minimum box size shall be 4 inches square by 1-1/2 inches deep with mud rings as required. Install multiple switches in standard gang boxes with raised device covers suitable for the application indicated.
C. Conduit bodies: Cadmium plated, cast iron alloy. Conduit bodies with threaded conduit hubs and neoprene gasketed, cast iron covers. Bodies shall be used to facilitate pulling of conductors or to make changes in conduit direction only. Splices are not permitted in conduit bodies. Crouse-Hinds Form 8 Condulets, Appleton Form 35 Unilets or equal.
D. Sheet Metal Boxes: Use standard outlet or concrete ring boxes wherever possible; otherwise use a minimum 16 gauge galvanized sheet metal, NEMA 1 box sized to Code requirements with covers secured by cadmium plated machine screws located six inches on centers. Circle AW Products, Hoffman Engineering Company or equal.
E. Flush Mounted Pull boxes and Junction boxes: Provide overlapping covers with flush head cover retaining screws, prime coated.

PART 2 - EXECUTION

2.01 Outlet Boxes
A. General:
1. All outlet boxes shall finish flush with building walls, ceilings and floors except in mechanical and electrical rooms above accessible ceiling or where exposed work is called for on the Drawings.
2. Install raised device covers (plaster rings) on all switch and receptacle outlet boxes installed in masonry or stud walls or in furred, suspended or exposed concrete ceilings. Covers shall be of a depth to suit the wall or ceiling finish.
3. Leave no unused openings in any box. Install close-up plugs as required to seal openings.
B. Box Layout:
1. Outlet boxes shall be installed at the locations and elevations shown on the drawings or specified herein. Make adjustments to locations as required by structural conditions and to suit coordination requirements of other trades.
2. Locate switch outlet boxes on the latch side of doorways.
3. Outlet boxes shall not be installed back to back nor shall through-wall boxes be permitted. Outlet boxes on opposite sides of a common wall shall be separated horizontally by at least one stud or vertical structural member.
4. For outlets mounted above counters, benches or backsplashes, coordinate location and mounting heights with built-in units. Adjust mounting height to agree with required location for equipment served.
5. On fire rated walls, the total face area of the outlet boxes shall not exceed 100 square inches per 100 square feet of wall area.
C. Supports:
1. Outlet Boxes installed in metal stud walls shall be equipped with brackets designed for attaching directly to the studs or shall be mounted on specified box supports.
2. Fixture outlet boxes installed in suspended ceiling of gypsum board or lath and plaster construction shall be mounted to 16 gauge metal channel bars attached to main ceiling runners.
3. Fixture outlet boxes installed in suspended ceilings supporting acoustical tiles or panels shall be supported directly from the structure above where pendant mounted lighting fixture are to be installed on the box.
4. Fixture Boxes above tile ceilings having exposed suspension systems shall be supported directly from the structure above.
5. Outlet and / or junction boxes shall not be supported by grid or fixture hanger wires at any locations.

2.02 Junction And Pull Boxes
A. General:
1. Install junction or pull boxes where required to limit bends in conduit runs to not more than 360 degrees or where pulling tension achieved would exceed the maximum allowable for the cable to be installed. Note that these boxes are not shown on the Drawings.
2. Locate pull boxes and junction boxes in concealed locations above accessible ceilings or exposed in electrical rooms, utility rooms or storage areas.
3. Install raised covers (plaster rings) on boxes in stud walls or in furred, suspended or exposed concrete ceilings. Covers shall be of a depth to suit the wall or ceiling finish.
4. Leave no unused openings in any box. Install close-up plugs as required to seal openings.
5. Identify circuit numbers and panel on cover of junction box with black marker pen.
B. Box Layouts:
1. Boxes above hung ceilings having concealed suspension systems shall be located adjacent to openings for removable recessed lighting fixtures.
C. Supports:
1. Boxes installed in metal stud walls shall be equipped with brackets designed for attaching directly to the studs or shall be mounted on specified box supports.
2. Boxes installed in suspended ceilings of gypsum board or lath and plaster construction shall be mounted to 16 gauge metal channel bars attached to main ceiling runners.
3. Boxes installed in suspended ceilings supporting acoustical tiles or panels shall be supported directly from the structure above.
4. Boxes mounted above suspended acoustical tile ceilings having exposed suspension systems shall be supported directly from the structure above.

SECTION 26 27 26

DEVICES WIRING

PART 1 - PRODUCTS

1.01 Receptacles:
A. General - Receptacles shall be heavy duty, high abuse, grounding type.
B. Duplex Receptacles:
1. Receptacles shall be specification grade, rated 20 ampere, two-pole, 3-wire, 120 volt, NEMA 5-20 configuration, self-grounding with screw terminals. Color shall be as selected by the Landscape Architect.
2. Devices shall have a nylon face, back and side wired.
3. Manufacturer: Hubbell #DR20 Series, Leviton #16352 Series.
C. GFCI Receptacles:
1. Device shall be rated 20 ampere, 2-pole, 3-wire, 120 volt, conforming to NEMA 5-20 configuration. Face shall be nylon composition. Unit shall have an LED type red indicator light, test and reset push buttons. Color shall be as selected by the Landscape Architect.
2. GFCI component shall meet UL 943 Class A standards with a tripping time of 1/40 second at 5 milliamperes current unbalance. Operating range shall extend from -31°F to 158°F. Unit shall have transient voltage protection and shall be ceramic encapsulated for protection against moisture.
3. Manufacturer: Hubbell #GF20_ _LA Series, Leviton #7899 Series.

1.02 Switches:
A. Switches shall be rated 20 amperes to 120/277 volts ac. Units shall be flush mounted, self-grounding, quiet operating toggle devices. Handle color shall be as selected by the Landscape Architect.
1. Manufacturer: Hubbell #HBL1221 Series, Leviton #1221 Series
B. Timed switches: Shall be as designed by Paragon Electric Company # ET2000f or Watt Stopper TS-400 rated for the voltage specified on drawings. Time out shall be adjustable from 5 minutes up to 12 hours. Unit shall be provided with warning alarm.

1.03 Plates:
A. General - Plates shall be of the style and color to match the wiring devices, and of the required number of gangs. Plates shall conform with NEMA WD 1 , UL 514 and FS W-P-455A. Plates on finished walls shall be non-metallic or stainless steel. Plates on unfinished walls and on fittings shall be of zinc plated steel or case metal and shall have rounded corners and beveled edges.
B. Non-Metallic: Plates shall be plain with beveled edges and shall be nylon or reinforced fiberglass.
C. Stainless Steel: Plates shall be .040 inches thick with beveled edges and shall be manufactured from No. 430 alloy having a brushed or satin finish.
D. Cast Metal: Plates shall be cast or malleable iron covers with gaskets so as to be moisture resistant or weatherproof.
E. Blank Plates: Cover plates for future telephone outlets shall match adjacent device wall plates in appearance and construction.

PART 2 - EXECUTION

2.01 Installation of Wiring Devices:
A. Interior Locations: In finished walls, install each device in a flush mounted box with washers as required to bring the device mounting strap level with the surface of the finished wall. On unfinished walls, surface mount boxes level and plumb.
B. Mounting Heights: Adjust boxes so that the front edge of the box shall not be farther back from the finished wall plane than 1/4-inch. Adjust boxes so that they do not project beyond the finished wall. Height of device shall be as follows:
1. Receptacles 15 Inches from finished floor to bottom of box unless otherwise noted on the drawings
2. Toggle Switches 48 Inches from finished floor to top of box
C. Receptacles:
1. Ground each receptacle using a grounding conductor, not a yoke or screw contact.
2. Install receptacles with connections spliced to the branch circuit wiring in such a way that removal of the receptacle will not disrupt neutral continuity and branch circuit power will not be lost to other receptacles in the same circuit.

2.02 Installation of Wall Plates:
A. General - Plates shall match the style of the device and shall be plumb within 1/16-inch of the vertical or horizontal.
B. Interior Locations, Finished Walls: Install non-metallic plates so that all four edges are in continuous contact with the finished wall surfaces. Plaster filling will not be permitted. Do not use oversized plates or sectional plates.
C. Interior Locations, Unfinished Walls: Install stainless steel or cast metal cover plates.
D. Exterior Locations: Install cast metal plates with gaskets on wiring devices in such a manner as to provide a rain tight weatherproof installation. Cover type shall match box type. Cover shall be [Lockable] outdoor extra-duty "in-use" type.
E. Future Locations: Install blank cover plates on all unused outlets.
F. Labeling: All switch and receptacle plates shall be labeled on the top portion of the plate with the panelboard and circuit number serving that device. Lettering shall be ³⁄₁₆" minimum high, black color, on clear Mylar tape.

2.03 Tests:
A. Receptacles:
1. After installation of receptacles, energize circuits and test each receptacle to detect lack of ground continuity, reversed polarity, and open neutral condition.

SECTION 26 28 16

CIRCUIT BREAKERS

PART 1 - PRODUCTS

1.01 Circuit Breaker: Each circuit breaker shall consist of the following:
A. A molded case breaker with an over center toggle-type mechanism, providing quick-make, quick-break action. Each circuit breaker shall have a permanent trip unit containing individual thermal and magnetic trip elements in each pole. Multipole circuit breakers shall have variable magnetic trip elements which are set by a single adjustment to assure uniform tripping characteristics in each pole. Circuit breakers shall be of the bolt-on type unless otherwise noted.
B. Breaker shall be calibrated for operation in an ambient temperature of 40°C.
C. Each circuit breaker shall have trip indication by handle position and shall be trip-free.
D. Three pole breakers shall be common trip.
E. The circuit breakers shall be constructed to accommodate the supply connection at either end of the circuit breaker. Circuit breaker shall be suitable for mounting and operation in any position.
F. Breakers shall be rated as shown on Drawings.
G. Circuit breaker and/or Fuse/circuit breaker combinations for series connected interrupting ratings shall be listed by UL as recognized component combinations for use in the end use equipment in which it is installed. Any series rated combination used shall be marked on the end use equipment per CEC section 110-22.
H. Breakers shall be UL listed. Circuit breakers shall have removable lugs.
I. Lugs shall be UL listed for copper and aluminum conductors.
J. Breakers shall be UL listed for installation of mechanical screw type lugs.
K. Circuit breakers serving HACR rated loads shall be HACR type. Circuit breakers serving other motor loads shall be motor rated.
L. Breakers indicated as "current limiting " (CL), shall be of the non-fused type; Square D I-Limiter, Westinghouse Limit-R, or ITE Sentron only.

DATE: 4/24/2020					
SCALE: AS SHOWN					
DRAWN BY: SS					
PROJECT NUMBER: FOST.12.16					
DESIGNED BY: NA					
CHECKED BY: NA					
SURVEYED BY: WILSEY-HAM	1		07/31/20	CONFORMED SET
	NO.	BY	DATE	REVISIONS

CITY OF FOSTER CITY
PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER
NAJIB ANWARY
No. E21043
EXP. 3/31/21
ELECTRICAL
STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.
Project No. 18557.00
60 Garden Court • Suite 210 • Monterey, CA 93940
T.831.646.3330 • F.831.646.3336 • www.acemb.com

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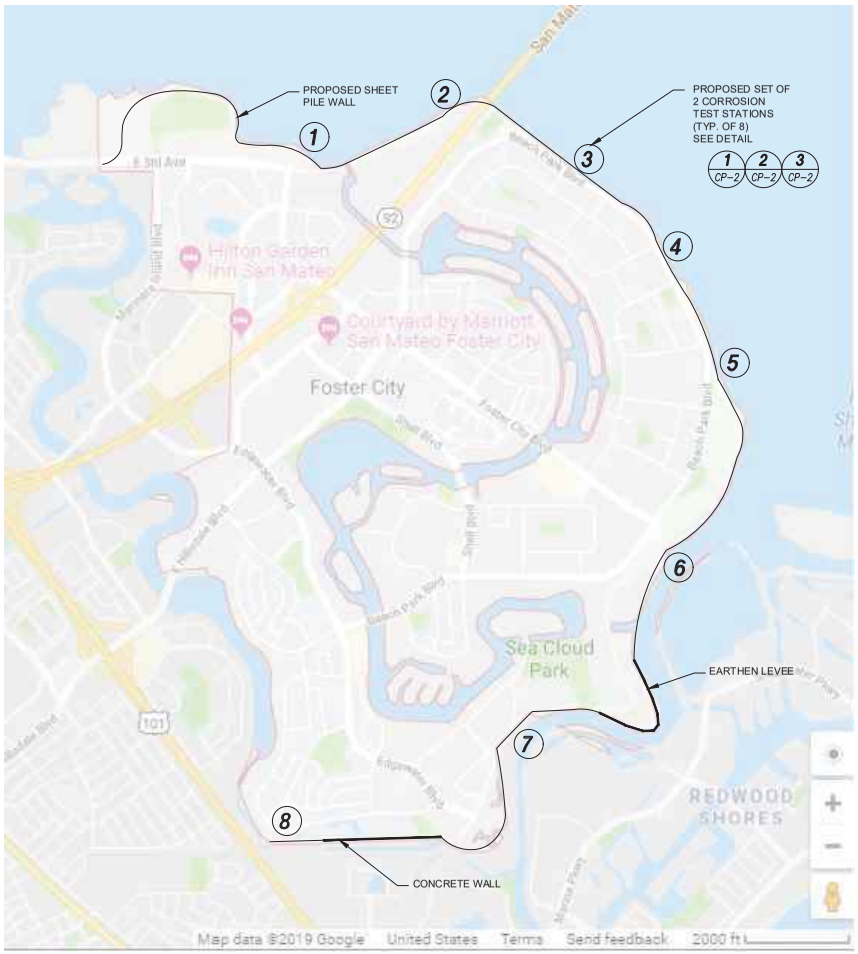
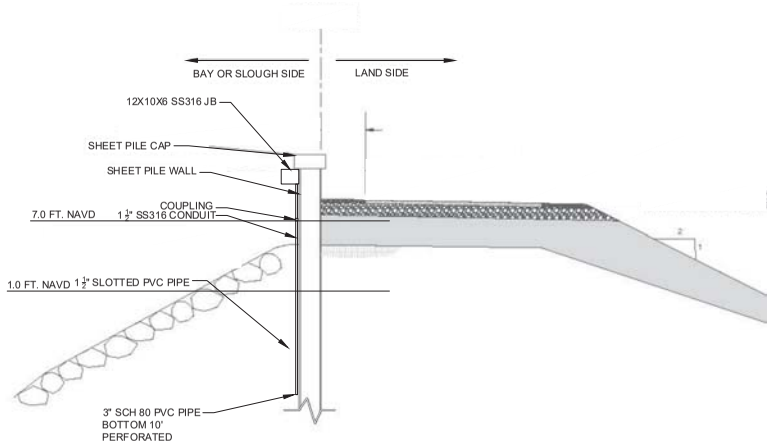


1 CP-1 CORROSION MONITORING TEST STATIONS - LOCATION PLAN
NOT TO SCALE

NOTES:

1. THE WEIGHT LOSS COUPON TEST STATION (TYPE 1) SHALL BE FOR CORROSION LOSS MEASUREMENT IN WATER AND SHALL BE INSTALLED ON THE WATER SIDE ONLY.
2. THE ELECTRICAL RESISTANCE (ER) TEST STATION (TYPE 2) SHALL BE FOR THE CORROSION LOSS MEASUREMENT ON THE WATER SIDE AND SHALL BE INSTALLED ON THE WATER SIDE ONLY. HOWEVER, THE TEST BOX SHALL BE INSTALLED ON THE LANDSIDE FOR EASE OF ACCESS.



NOTES:
1. NOT ALL TESTS STATIONS ARE SHOWN FOR CLARITY
2. MLLW & MHHW TO BE DETERMINED AT EACH LOCATION

2 CP-1 CORROSION MONITORING TEST STATIONS - SECTION
NOT TO SCALE

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

NO.	BY	DATE	REVISIONS
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PUBLIC WORKS DEPARTMENT
610 FOSTER CITY BOULEVARD, FOSTER CITY, CA 94404
PHONE (650) 286-3270 FAX (650) 345-4626

REGISTERED PROFESSIONAL ENGINEER No. CR 1935 Exp. June 30, 2021 STATE OF CALIFORNIA

jdh corrosion consultants, inc.
1100 Willow Pass Court
Concord, CA 94520
(925)927-6630 FAX (925)927-6634
WWW.JDHCORROSION.COM

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SHEET 382 OF 384
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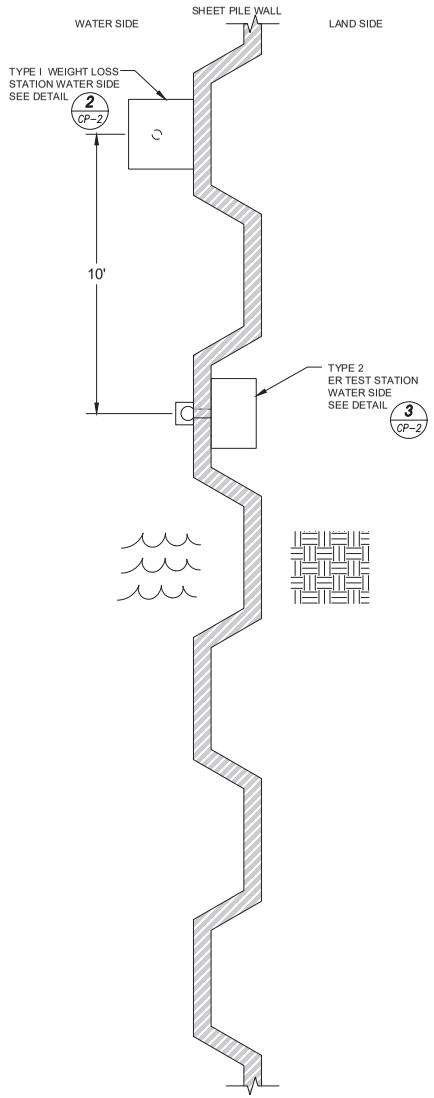
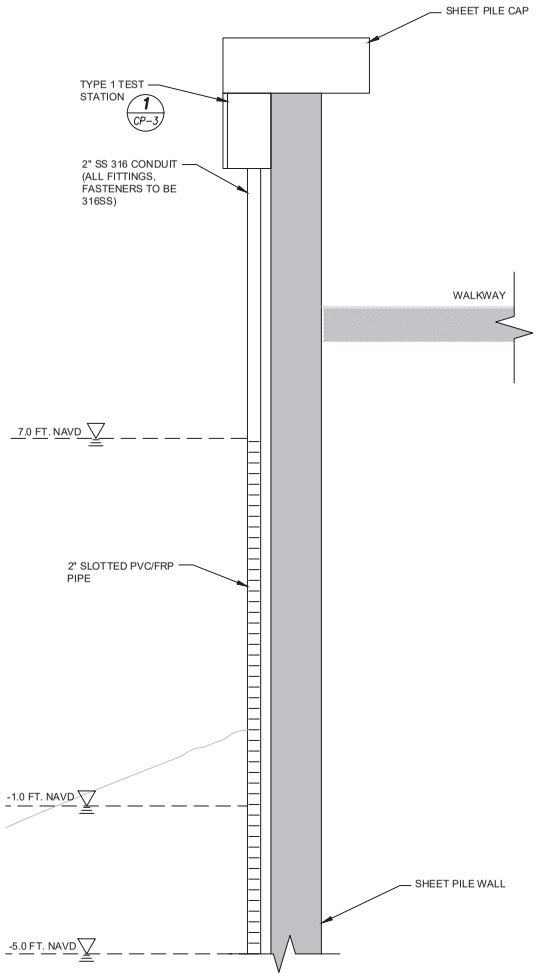


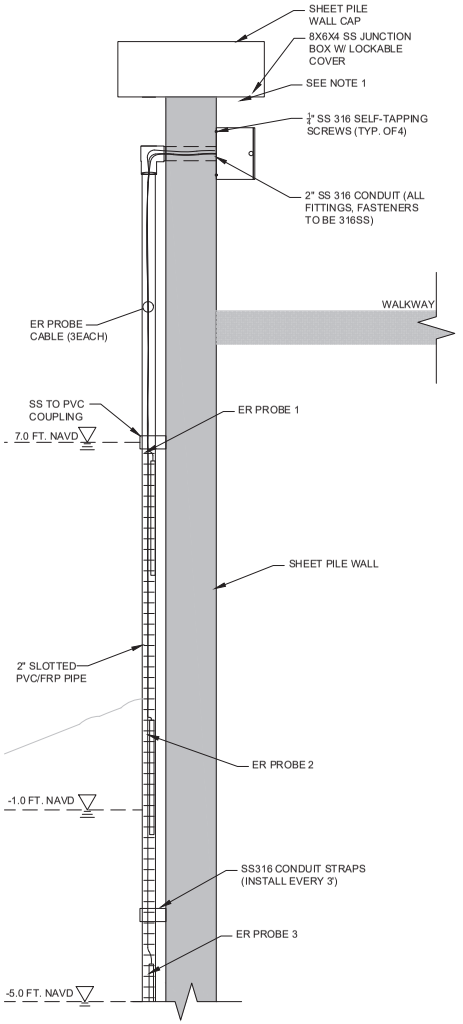
1 CP-2 CORROSION MONITORING TEST STATION - PLAN VIEW
NOT TO SCALE



ELEVATION VIEW

NOTES:
1. SEE NOTES ON DETAIL 3/CP-4

2 CP-2 WEIGHT LOSS TEST STATION WATER SIDE - TYPE 1
NOT TO SCALE



NOTES:
1. ALL ER PROBES TO BE SIZED TO TERMINATE IN THE JB WITH A 2-FT SLACK FOR MEASUREMENTS PURPOSES.

3 CP-2 ER TEST STATION - WATER SIDE (TYPE 2)
NOT TO SCALE

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

DATE: 4/24/2020
SCALE: AS SHOWN
DRAWN BY:
PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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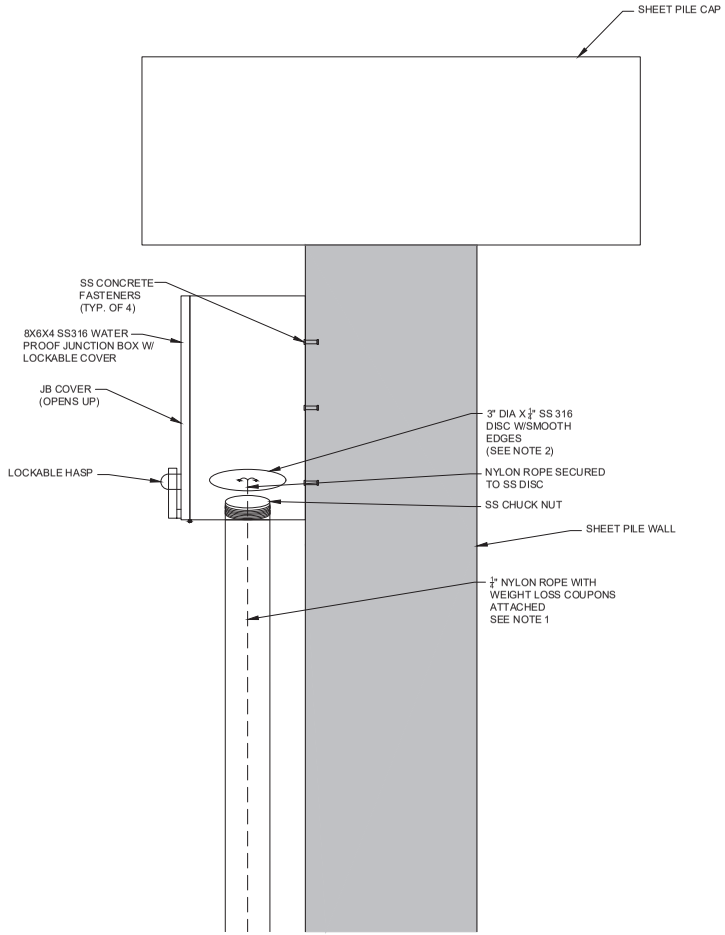
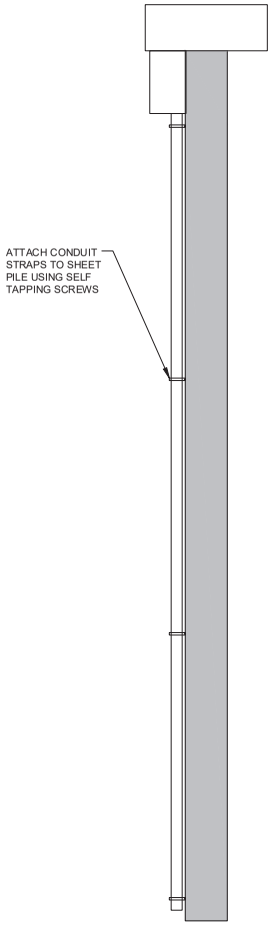


NOTES:
1. ATTACH WEIGHT LOSS COUPONS ON NYLON ROPE WITH NYLON TIE-WRAPS. A TOTAL OF 30 PRE-WEIGHED COUPON WILL BE ATTACHED IN THE MLLW-MHHW RE EQUIDISTANT FROM EACH OTHER.
2. TIE THE ROPE FIRMLY TO THE SS DISC

1 WEIGHT LOSS TEST STATION (TYPE 1)
CP-3 NOT TO SCALE



2 CONDUIT STRAPS DETAIL
CP-3 NOT TO SCALE

SCALE VERIFICATION
THE BAR BELOW IS 1" ON THE ORIGINAL DRAWING. IF THIS DRAWING SCALES OTHERWISE, ADJUST THE SCALE ACCORDINGLY
0 1"

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PROJECT NUMBER: FOST.12.16
DESIGNED BY:
CHECKED BY: CDA
SURVEYED BY: WILSEY-HAM

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