Foster City Levee Improvements Project

City of Foster City Department of Public Works

CIP 301-657

Levee and Bay Trail Improvements

Access, Signage, Amenities and Landscaping Concepts

August 5, 2019

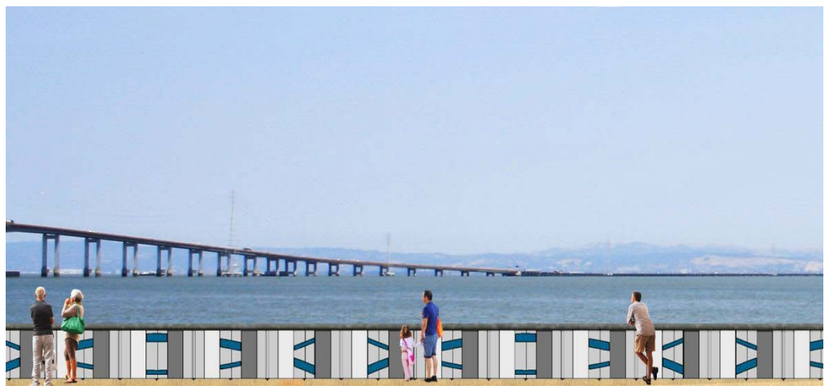
LEVEE PROTECTION PLANNING AND IMPROVEMENTS PROJECT

Improving Today and Preparing for Tomorrow

Schaaf & Wheeler

CONSULTING CIVIL ENGINEERS

BFS LANDSCAPE ARCHITECTS



Source: Schaaf & Wheeler, Urban Planning Partners, 2016
Note: The location of staging areas are preliminary and may change.

Figure I-1
Foster City Levee Protection Planning and Improvements Project EIR
Regional Context Map

Figure 1. Location Map
Levee Protection Planning and Improvement Project CIP 301-657
City of Foster City, San Mateo County, California

Huffman-Broadway Group, Inc.
ENVIRONMENTAL REGULATORY CONSULTANTS

West of Mariner's Point

Mariner's Point

Baywinds Park

Adjacent to Third Avenue

San Mateo Bridge

Beach Park Boulevard at Egret Street

Adjacent to Beach Park Boulevard at Gull Avenue

Across from Bowditch School

At Eastern End of Foster City Boulevard

Near Sea Cloud Park

At Eastern End of Edgewater Boulevard

Adjacent to O'Neill Slough

Foster City Levee Improvements

Typical Sections Key
As Shown in the Construction Plan

Transition Area Sections:
1) Concrete floodwall on the backside of the levee on the north side of the San Mateo Bridge (approximately 200' long)
2) Trail repaving and realignment under the bridge (approximately 300' long)
3) An earthen levee in combination with a concrete wall until the sheet pile wall starts again (approximately 200' long)

No Improvements
Sheet Pile Wall
Double Wall
Earthen Levee
Double Wall
E. 3rd Ave.
Earthen Levee
Beach Park Blvd.
E. Hillsdale Blvd.
Sheet Pile Wall
CA-92
Foster City Blvd.
Double Wall
Earthen Levee
Sheet Pile Wall
Edgewater Blvd.
Lagoon Intake Wall
Earthen Levee
US-101
Sheet Pile Wall
Sheet Pile Wall
No Shoulder
Concrete Wall
No Shoulder
Port Royal Ave.

Legend

Section

- Earthen Levee
- Double Wall
- Sheet Pile Wall
- Sheet Pile Wall - No Shoulder
- Other
- No Improvements

N

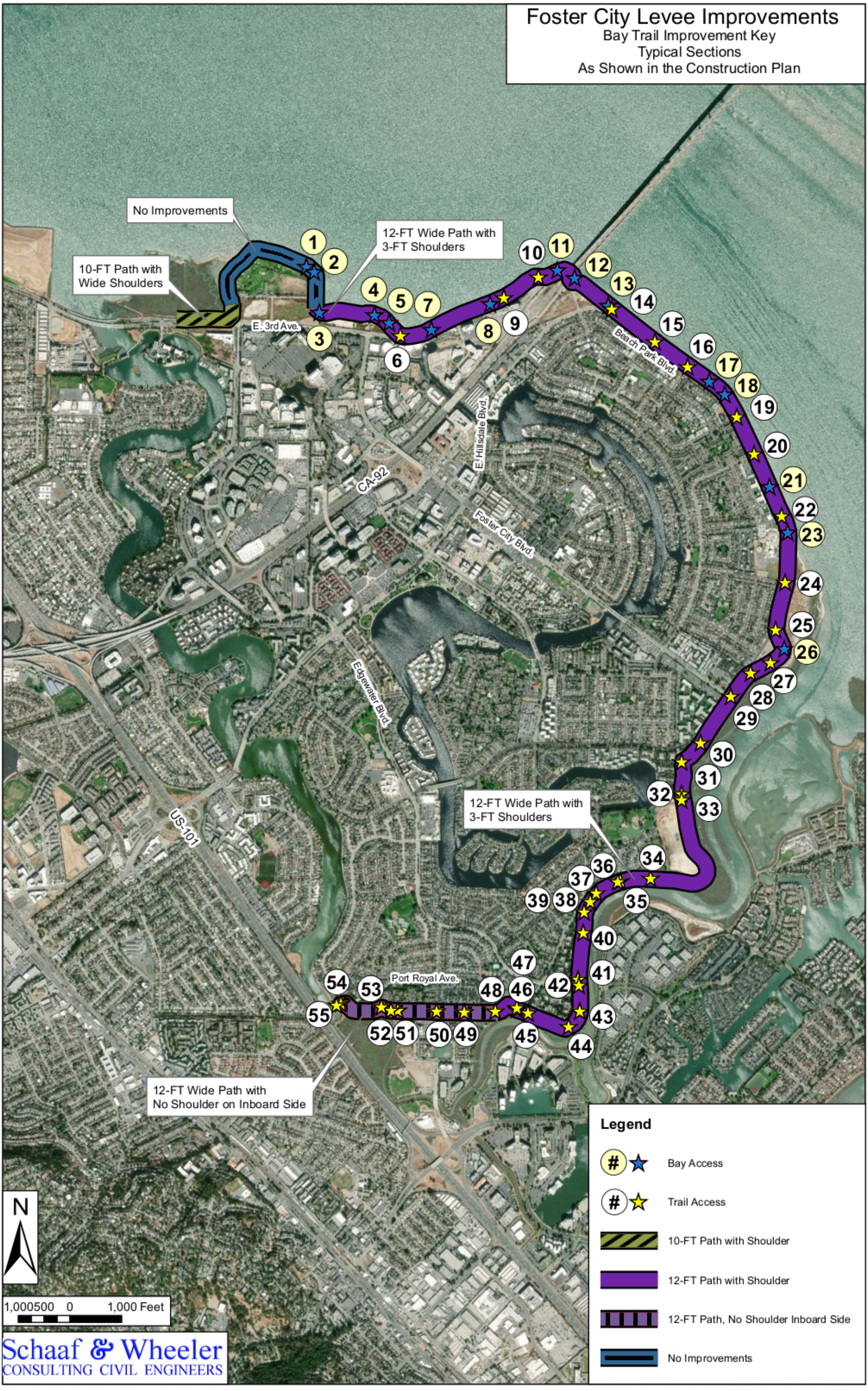
1,000500 0 1,000 Feet

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Foster City Levee Improvements

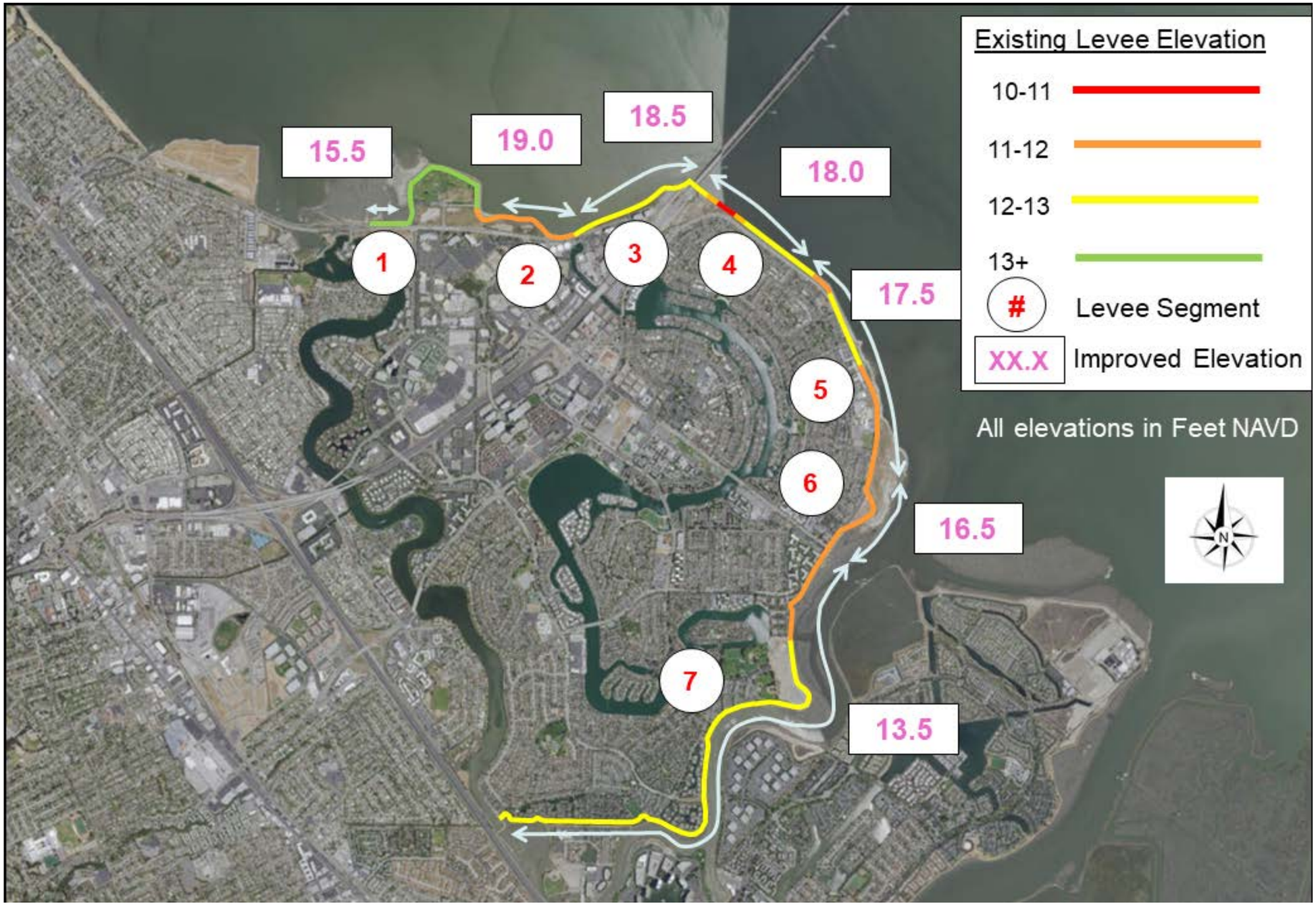
Bay Trail Improvement Key
Typical Sections
As Shown in the Construction Plan

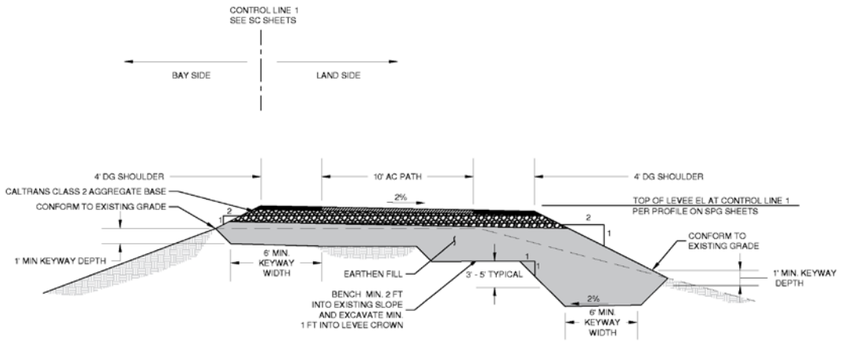


Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS

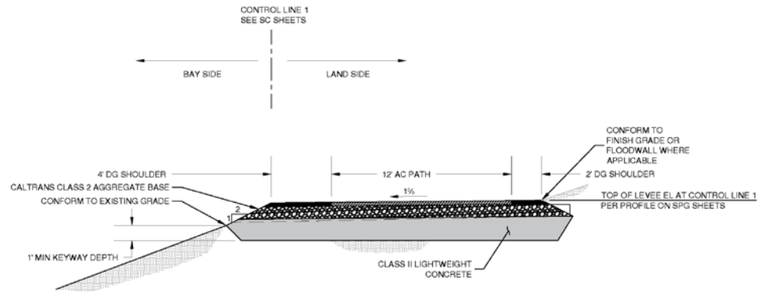
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Flood Improvement Elevations

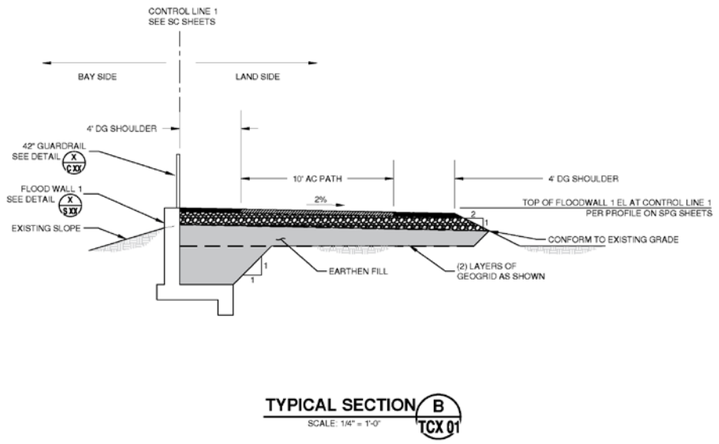




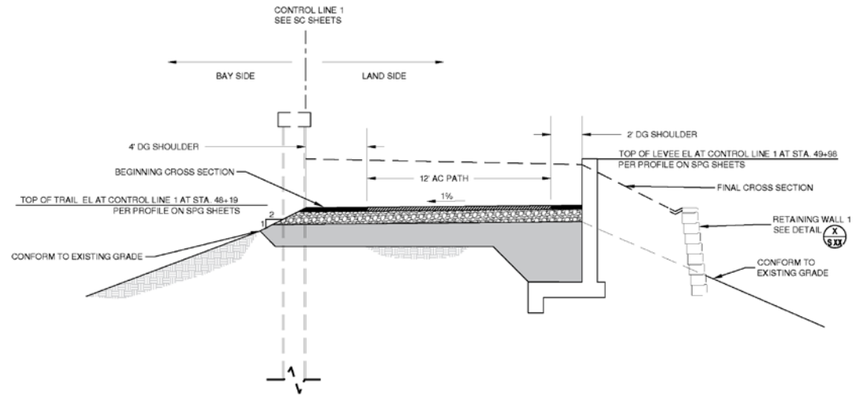
TYPICAL SECTION A TCX 01
SCALE: 1/4" = 1'-0"



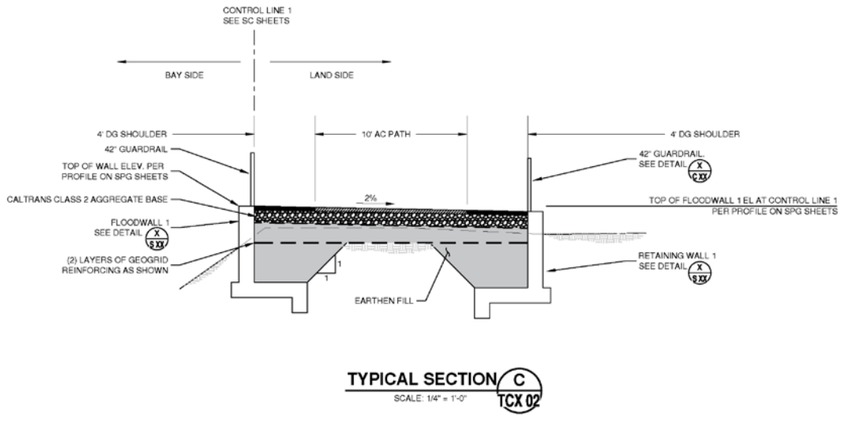
TYPICAL SECTION D TCX 02
SCALE: 1/4" = 1'-0"



TYPICAL SECTION B TCX 01
SCALE: 1/4" = 1'-0"

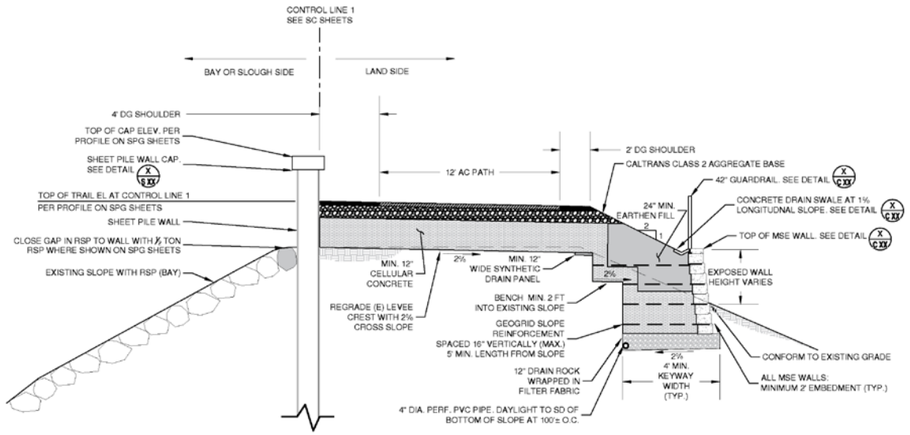


TYPICAL SECTION E TCX 02
SCALE: 1/4" = 1'-0"

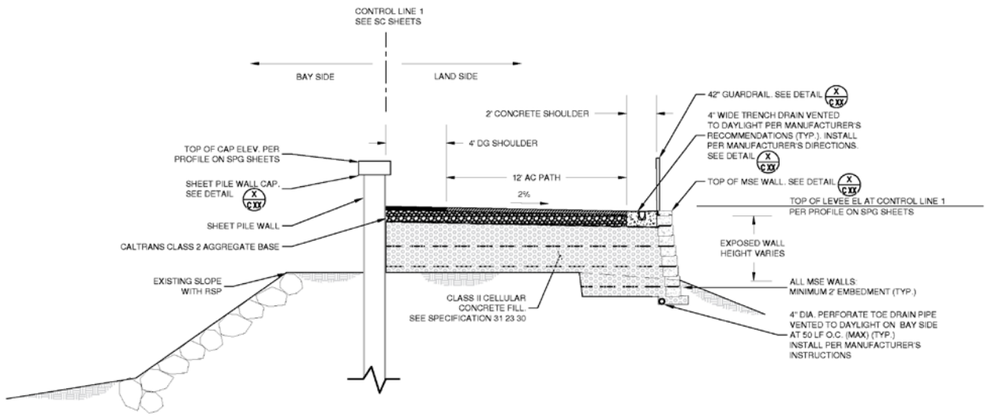


TYPICAL SECTION C TCX 02
SCALE: 1/4" = 1'-0"

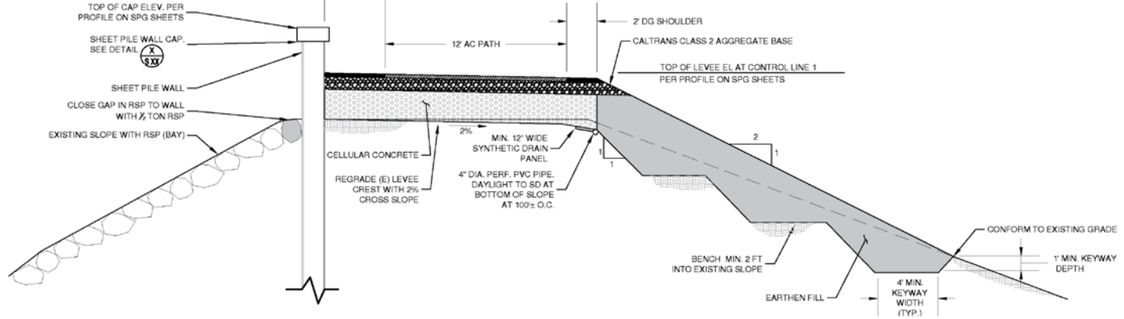
Typical Section	Levee Segment	Top of Levee / Floodwall (feet NAVD)	Finish Trail Elevation (feet NAVD)
A	1	15.5	15.5
B	1	15.5	15.5
C	1	15.5	15.5
D	2	15.5	12.0
E	2	15.5 – 19.0	12.0 – 15.5



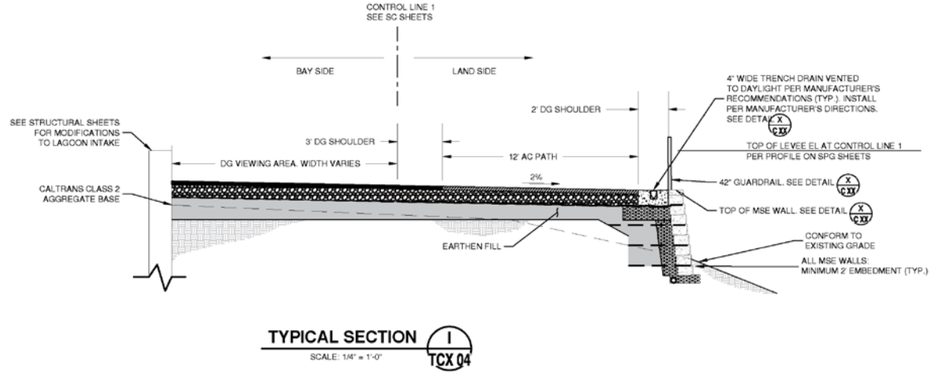
TYPICAL SECTION F (TCX 03)
SCALE: 1/4" = 1'-0"



TYPICAL SECTION H (TCX 03)
SCALE: 1/4" = 1'-0"

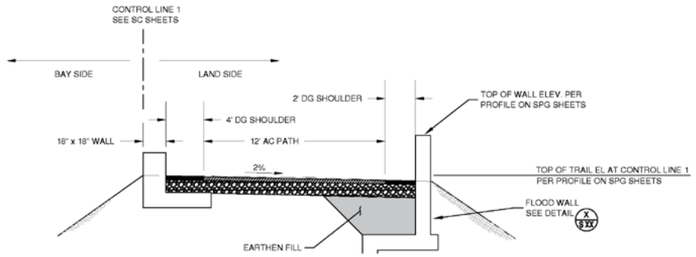


TYPICAL SECTION G (TCX 03)
SCALE: 1/4" = 1'-0"

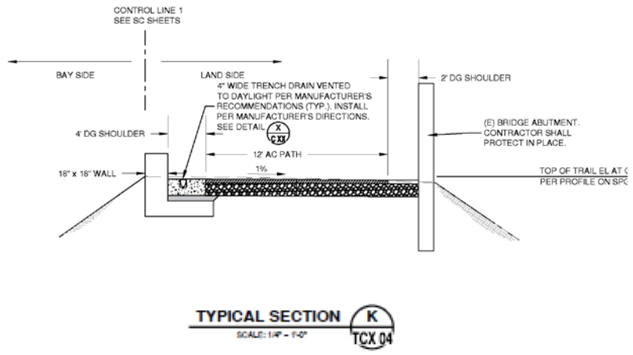


TYPICAL SECTION I (TCX 04)
SCALE: 1/4" = 1'-0"

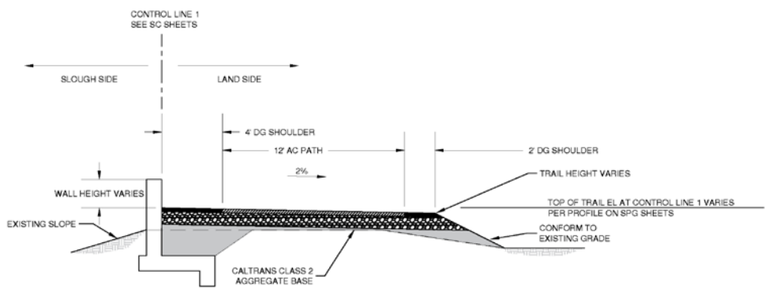
Typical Section	Levee Segment	Top of Levee / Floodwall (feet NAVD)	Finish Trail Elevation (feet NAVD)
F	2, 4, 5	17.5 – 19.0	14.0 - 15.5
G	2, 4, 5	17.5 – 19.0	14.0 - 15.5
H	2, 5	17.5 – 19.0	14.0 - 15.5
I	2	19.0	15.5



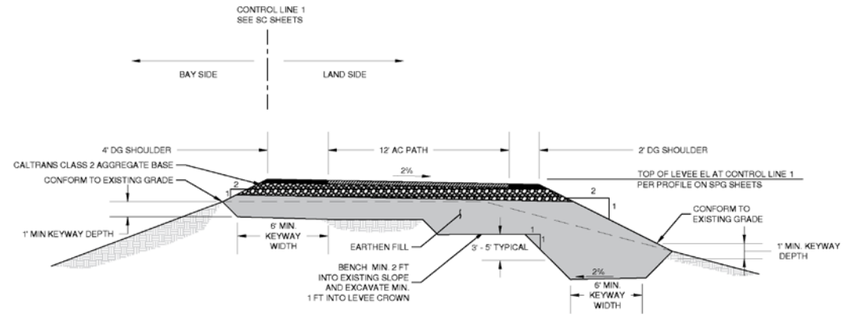
TYPICAL SECTION J
SCALE: 1/4" = 1'-0" TCX 04



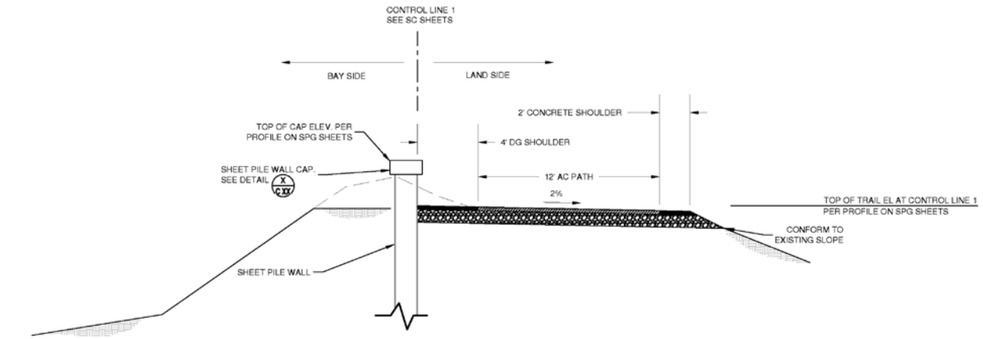
TYPICAL SECTION K
SCALE: 1/4" = 1'-0" TCX 04



TYPICAL SECTION L
SCALE: 1/4" = 1'-0" TCX 05

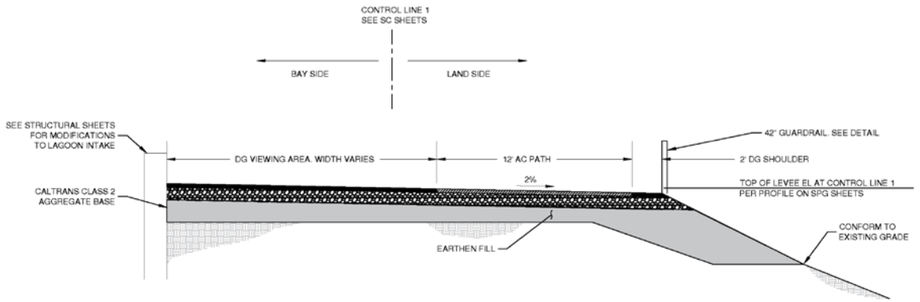


TYPICAL SECTION M
SCALE: 1/4" = 1'-0" TCX 05

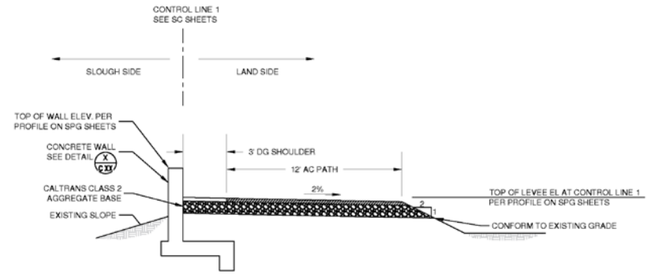


TYPICAL SECTION N
SCALE: 1/4" = 1'-0" TCX 05

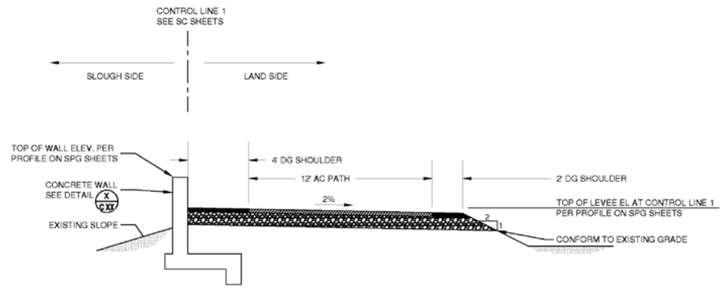
Typical Section	Levee Segment	Top of Levee / Floodwall (feet NAVD)	Finish Trail Elevation (feet NAVD)
J	3	18.5	15.0
K	3	Bridge Abutment	12.0
L	6,7	13.5 – 15.0	11.0 – 15.0
M	6	15.0	15.0
N	7	13.5	11.0



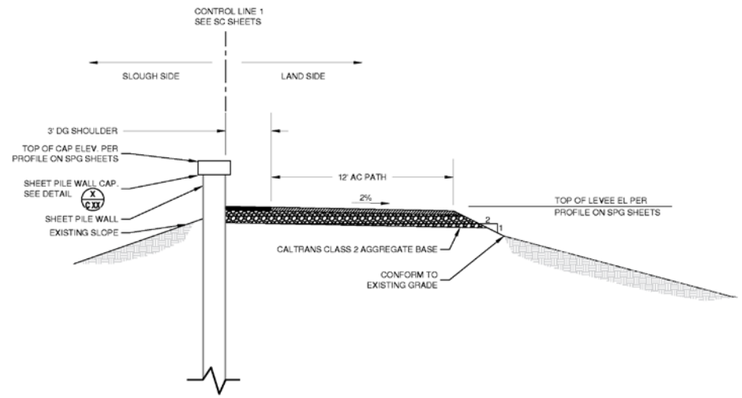
TYPICAL SECTION O
SCALE: 1/4" = 1'-0"
TCX 06



TYPICAL SECTION Q
SCALE: 1/4" = 1'-0"
TCX 05

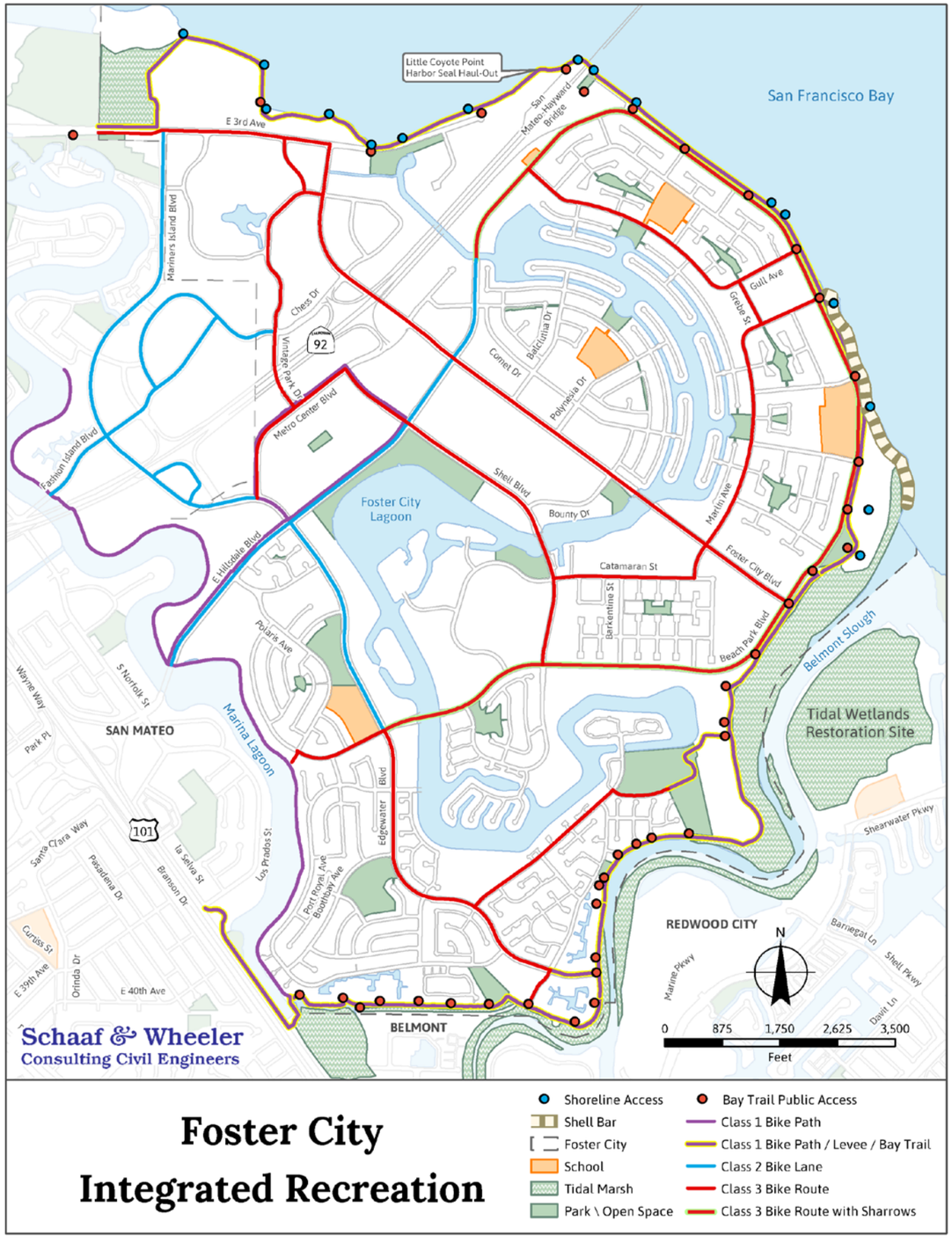


TYPICAL SECTION P
SCALE: 1/4" = 1'-0"
TCX 06



TYPICAL SECTION R
SCALE: 1/4" = 1'-0"
TCX 05

Typical Section	Levee Segment	Top of Levee / Floodwall (feet NAVD)	Finish Trail Elevation (feet NAVD)
O	7	13.5	11.0
P	7	13.5	11.0
Q	7	13.5	11.0
R	7	13.5	11.0



Foster City's levee system hosts the Bay Trail, which is a Class 1 Bike Path that connects to an integrated system of parks and bike trails for recreation throughout the City.

Public access to the trail system and shoreline will be maintained and improved as part of the levee project.

More than something to visit, the Foster City levees provide the public with an attractive means of visiting something else; be it the shoreline, a wetland, a park or another trail.

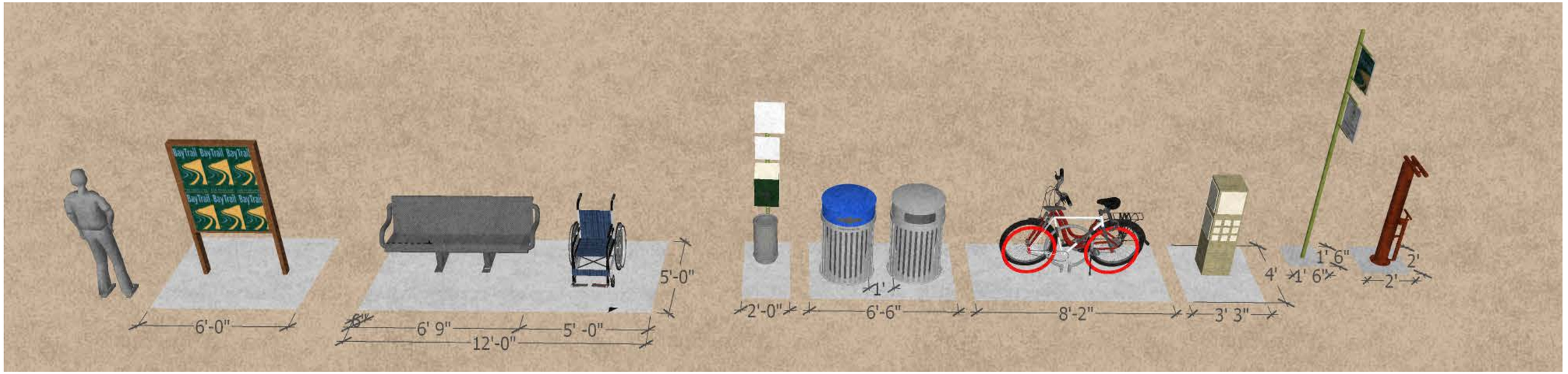
Bike Trail Classes

Class 1 Serve corridors not served by streets, offering opportunities not provided by the road system.

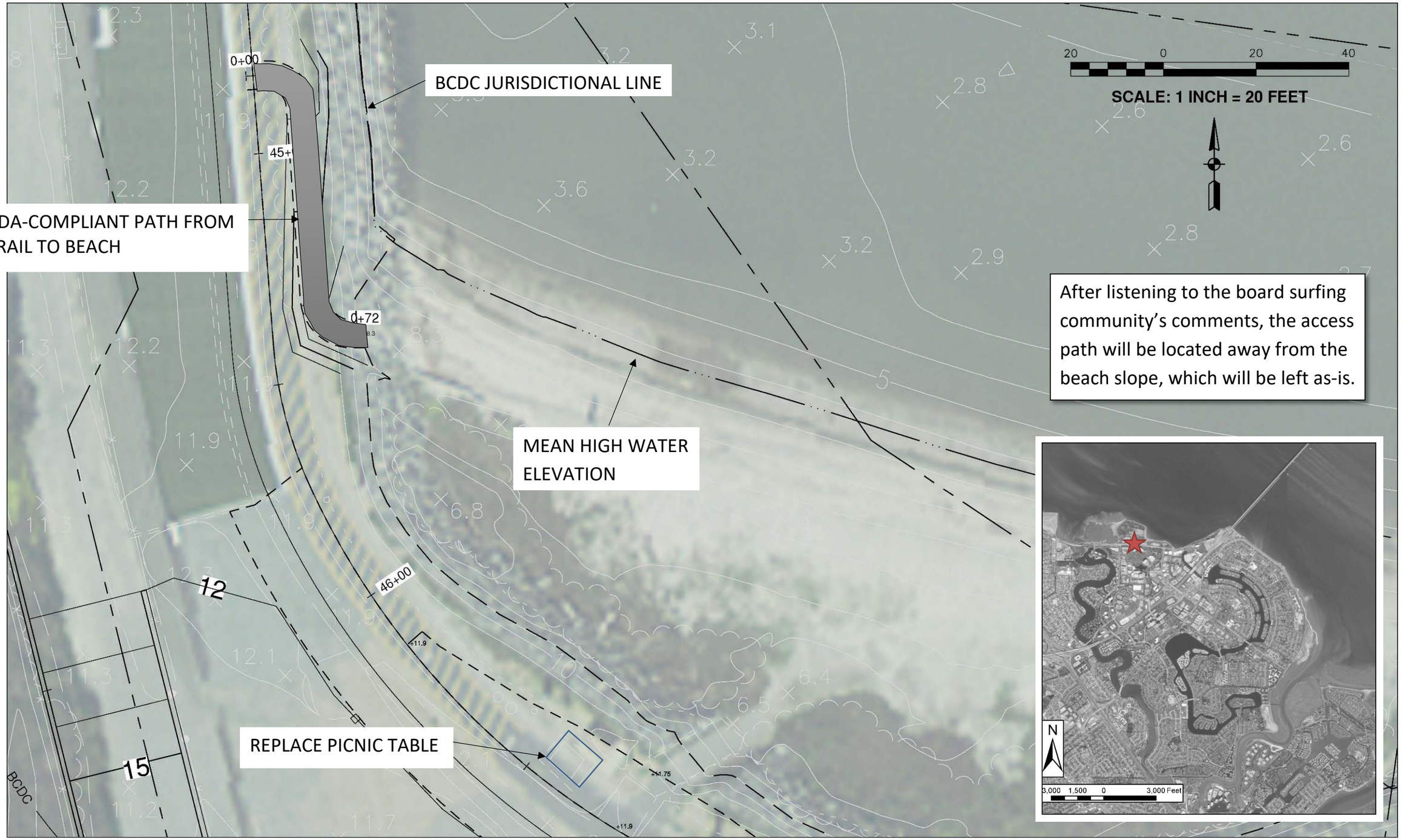
Class 2 Bike lanes are established along streets in corridors where there is significant bicycle demand, and where there are distinct needs that can be served by them.

Class 3 Bike routes are shared facilities which serve either to: (a) Provide continuity to other bicycle facilities (usually Class II bikeways); or (b) Designate preferred routes through high demand corridors.

Standard Amenities and Signs



Proposed standard trail amenities include informational kiosks and interpretive panels, benches and space for wheelchairs, trash and recycling receptacles, pet litter stations, bike racks, bike repair stations, and information signs.

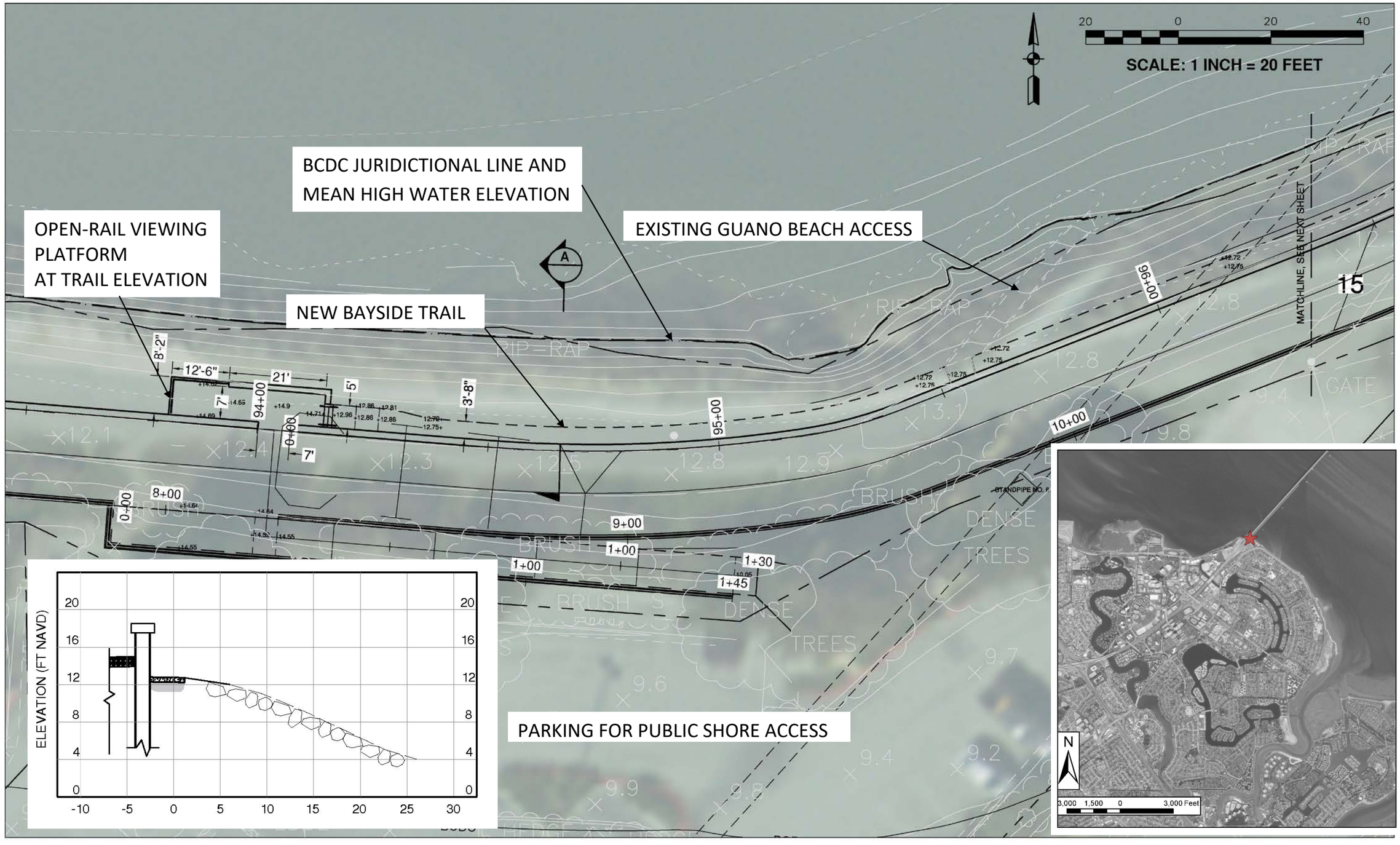


SHORELINE ACCESS TO BEACH NEAR BAYWINDS PARK

Control Line Station 45+00

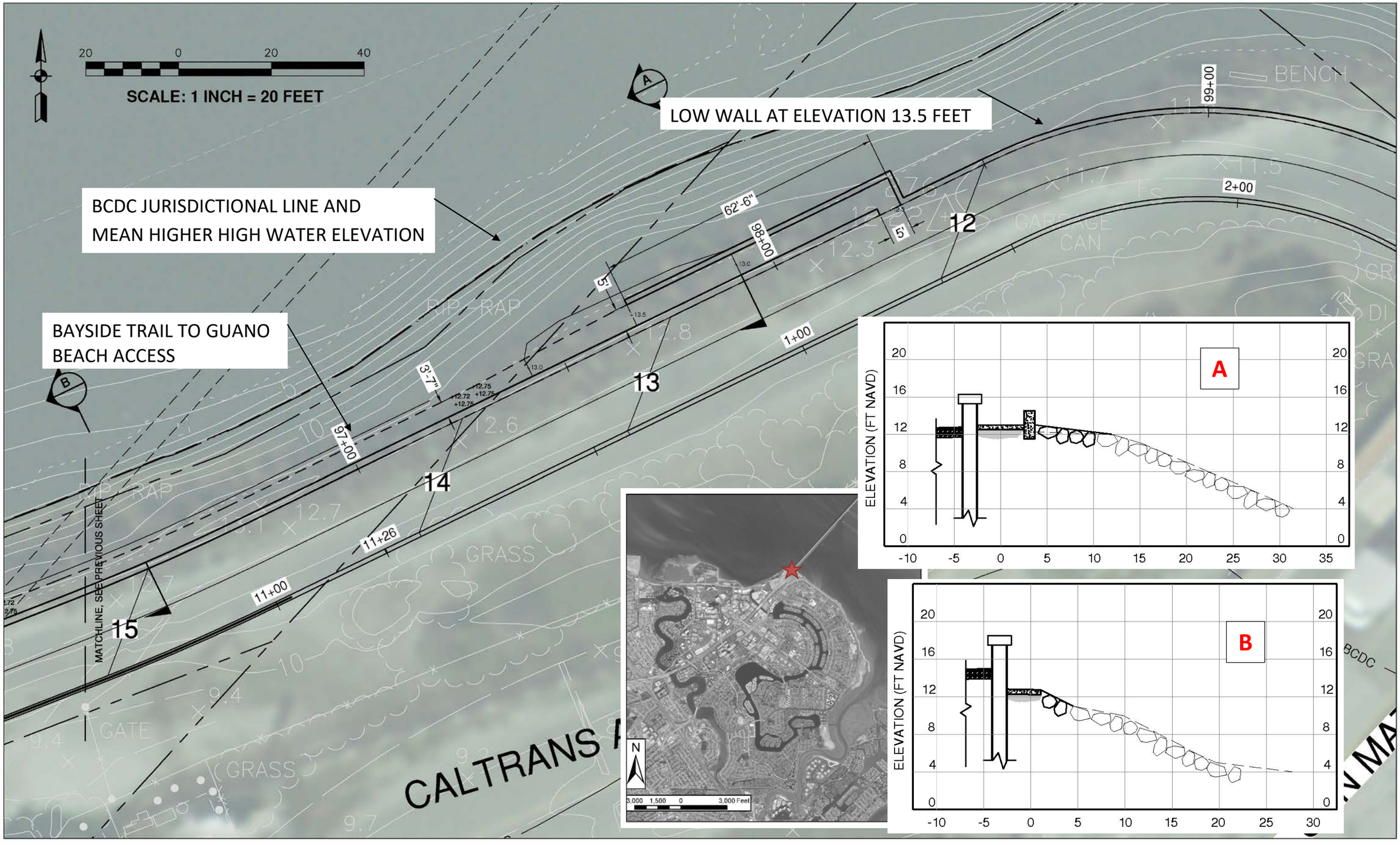
VIEWING PLATFORM AT "TANKS" BOARD SURF POINT

Control Line Station 63+00



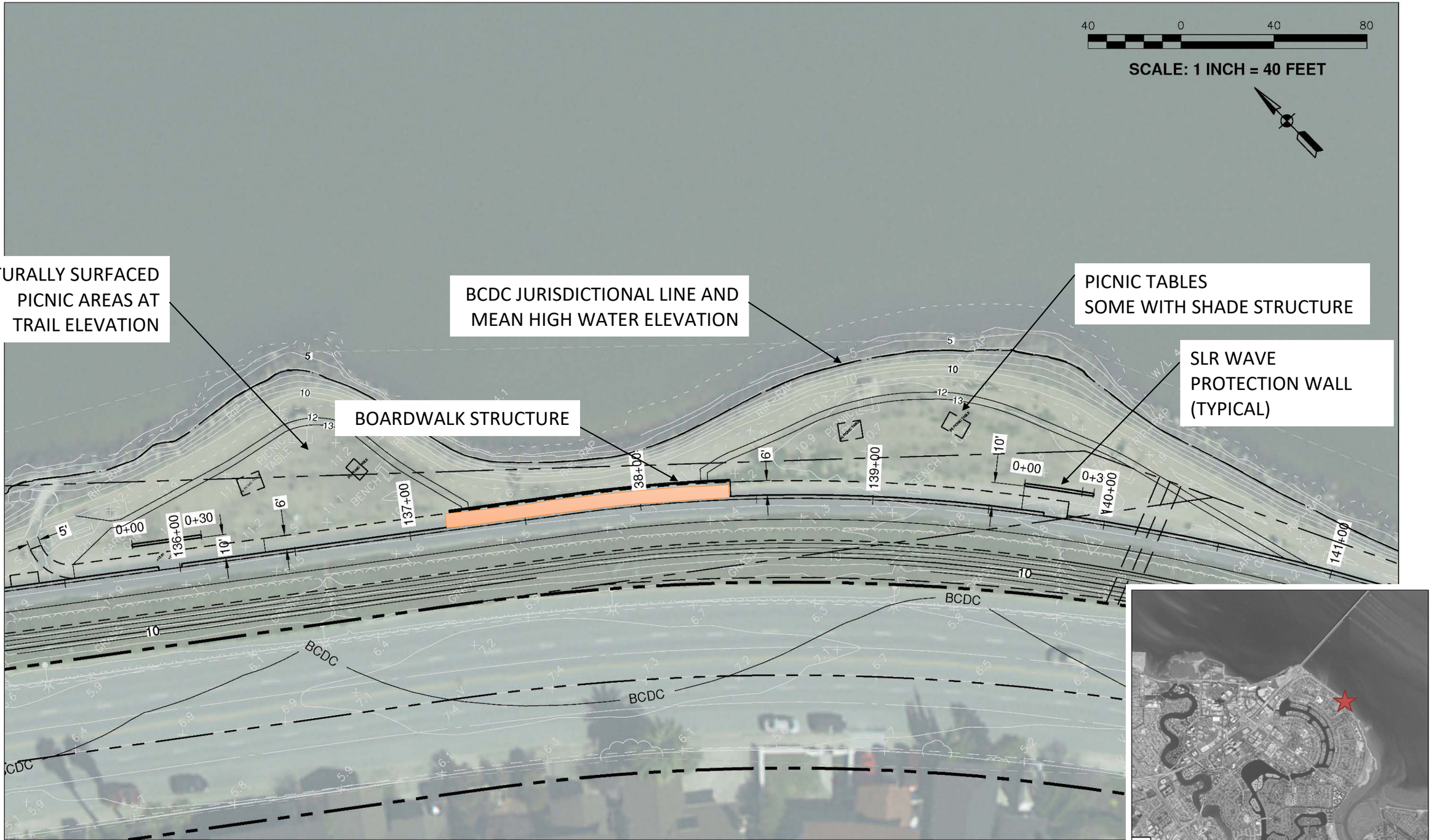
PUBLIC ACCESS TO BAY TRAIL AT BAYSIDE TOWERS

Control Line Station 94+00



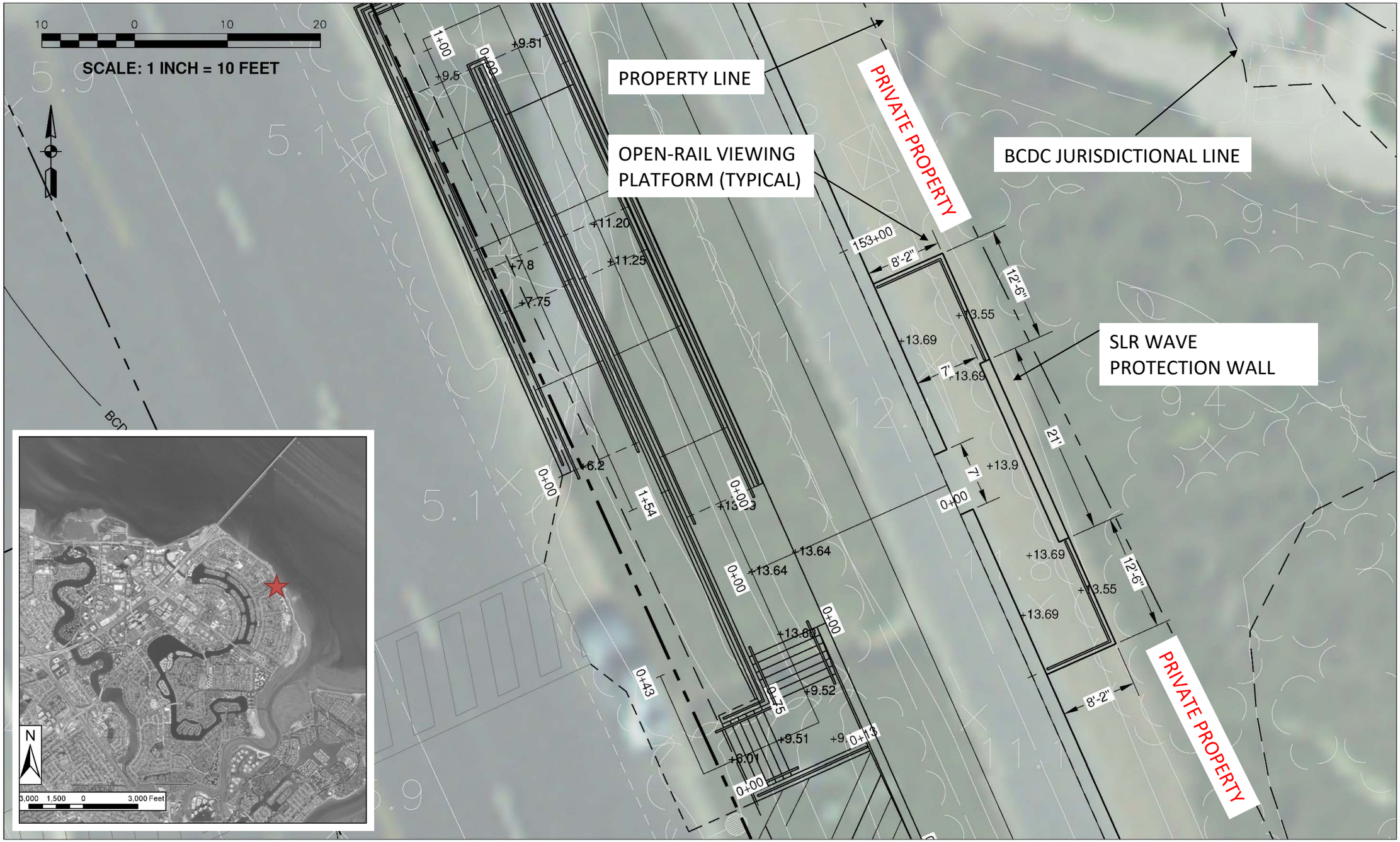
SHORELINE ACCESS NEAR SAN MATEO BRIDGE

Control Line Station 98+30



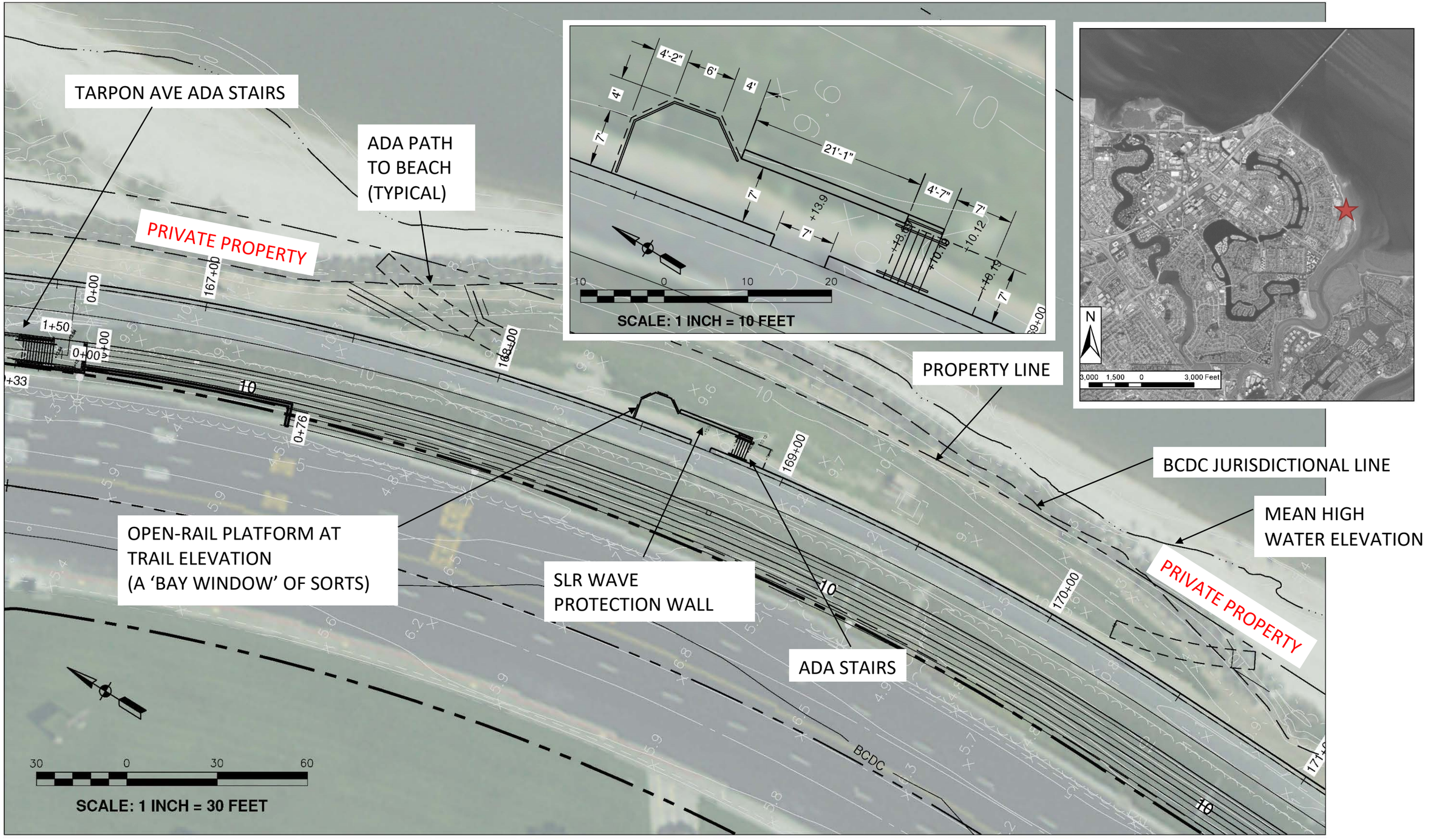
PICNIC AREA AND SHORELINE ACCESS ADJACENT TO BEACH PARK BOULEVARD

Control Line Station 138+00



VIEWING PLATFORM AT MARLIN AVE

Control Line Station 153+30



VIEWING PLATFORM NEAR TARPON AVE

Control Line Station 168+75

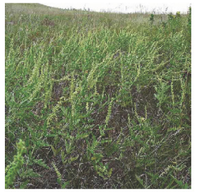
Foster City Levee Improvements

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS

BFS LANDSCAPE ARCHITECTS

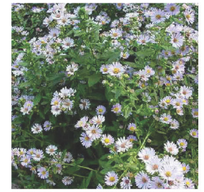
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Achillea millefolium
(Common Yarrow)


Ambrosia psilostachya
(Western Ragweed)

Artemesia californica
(California Sagebrush)

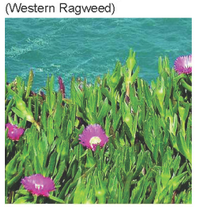
Artemisia douglasiana
(Mugwort)


Aster chilensis
(California Aster)

Baccharis pilularis
(Coyote Brush)

Bolboschoenus maritimus
(Alkali Bulrush)

Carex praegracilis
(Meadow Sedge)


Carpobrotus edulis
(Ice Plant)

Ceanothus gloriosus
(Ceanothus)

Ceanothus griseus 'Horizontalis'
(Yankee Point Ceanothus)

Ceanothus thyrsiflorus
(Creeping Blue Blossom)

Clarkia rubicunda
(Farewell to Spring)

Deschamsia caespitosa
'Holciformis'
(Pacific hairgrass)

Eriogonum latifolium
(Coastal Eriogonum)

Eriogonum nudum
(Naked Buckwheat)

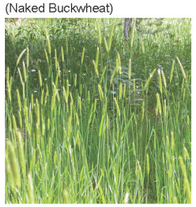
Eschscholzia californica 'Maritima'
(California Coastal Poppy)

Festuca idahoensis
(Fescue Bunchgrass)

Festuca rubra 'Molate'
(Molate Red Fescue)

Frankenia salina
(Alkali Heath)

Grindelia stricta 'Angustifolia'
(Pacific Gumplant)


Hordeum brachyantherum
(Salt Meadow Barley)

Juncus patens
(Wire Grass)

Limonium californicum
(Marsh Rosemary)

Mimulus aurantiacus
(Sticky Monkey Flower)

Penstemon centranthifolius
(Scarlet Bugler)

Ranunculus californicus
(California Buttercup)

Salvia mellifera 'Repens'
(Creeping Black Sage)

Salvia spathacea
(Hummingbird Sage)

Sarcocornia pacifica
(Pickleweed)

Schoenoplectus californicus
(California Bulrush)

Sidalcea malviflora
(Checkerbloom)

Sisyrinchium bellum
(Blue-eyed Grass)

Solidago californica
(California Goldenrod)

Stipa lepida
(foothill needle grass)

Stipa pulchra
(Purple Needle Grass)

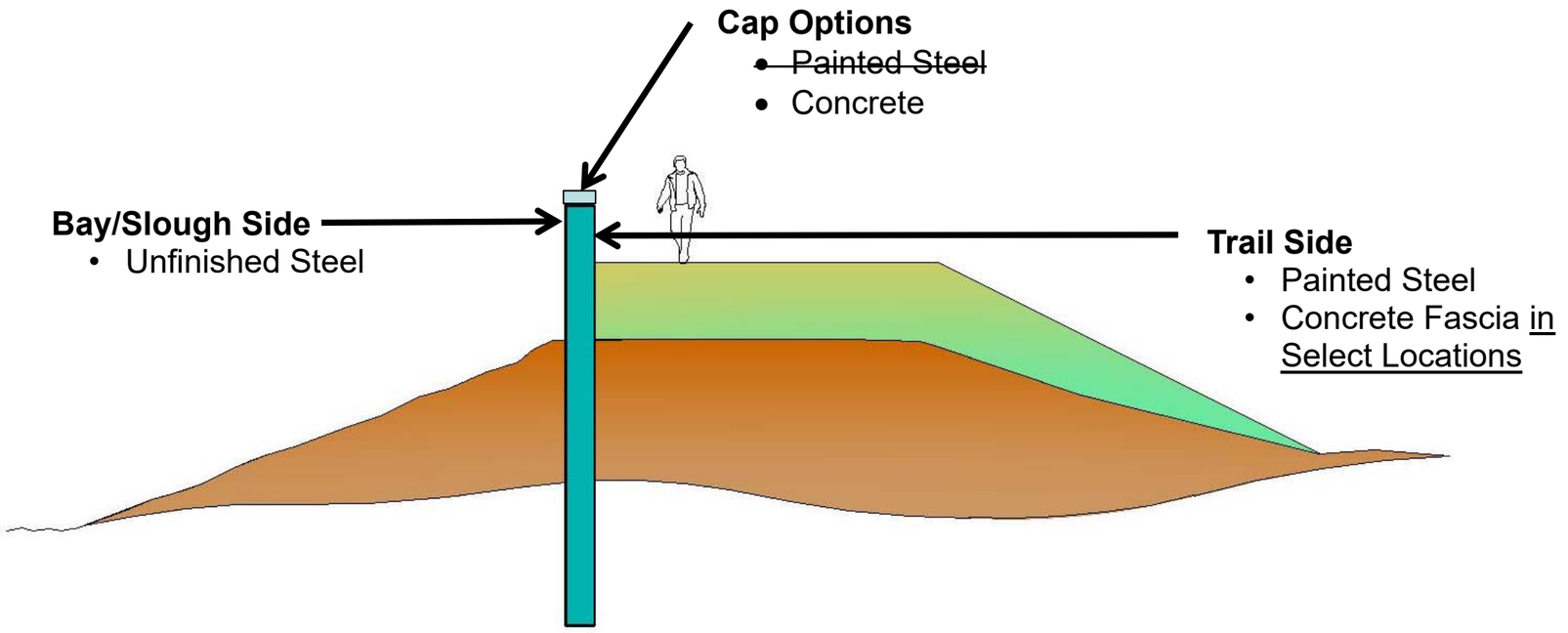
Vulpia microstachys
(Small Fescue)

Wyethia angustifolia
(Mule's Ears)

LEVEE PROTECTION PLANNING AND IMPROVEMENTS PROJECT
Improving Today and Preparing for Tomorrow

BFS LANDSCAPE ARCHITECTS

Wall Treatments



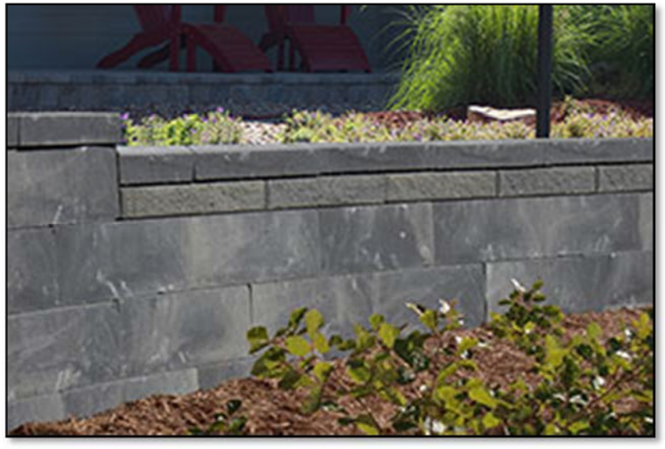
Railing Sample

Concrete Fascia Sample

Enhanced Treatment Opportunities

Sheet Piling with Concrete Cap
(colors not necessarily representative)

Unfinished Steel

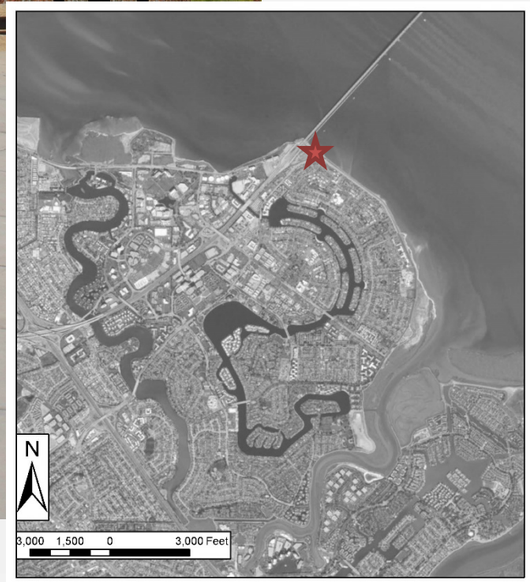


MSE Wall Fascia

Near San Mateo City Limit

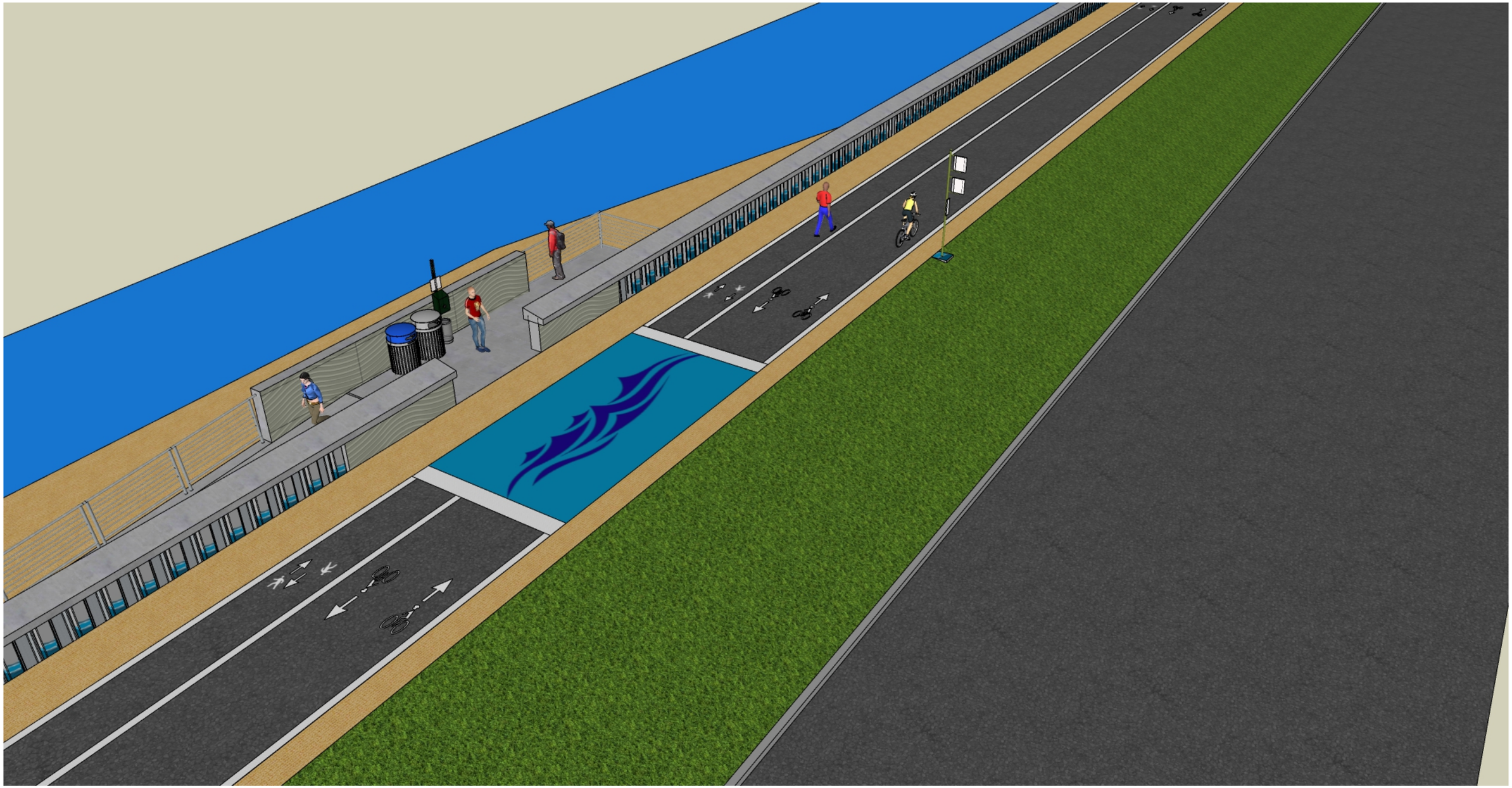
Between Mariner's Point and San Mateo Bridge

San Mateo Bridge Undercrossing

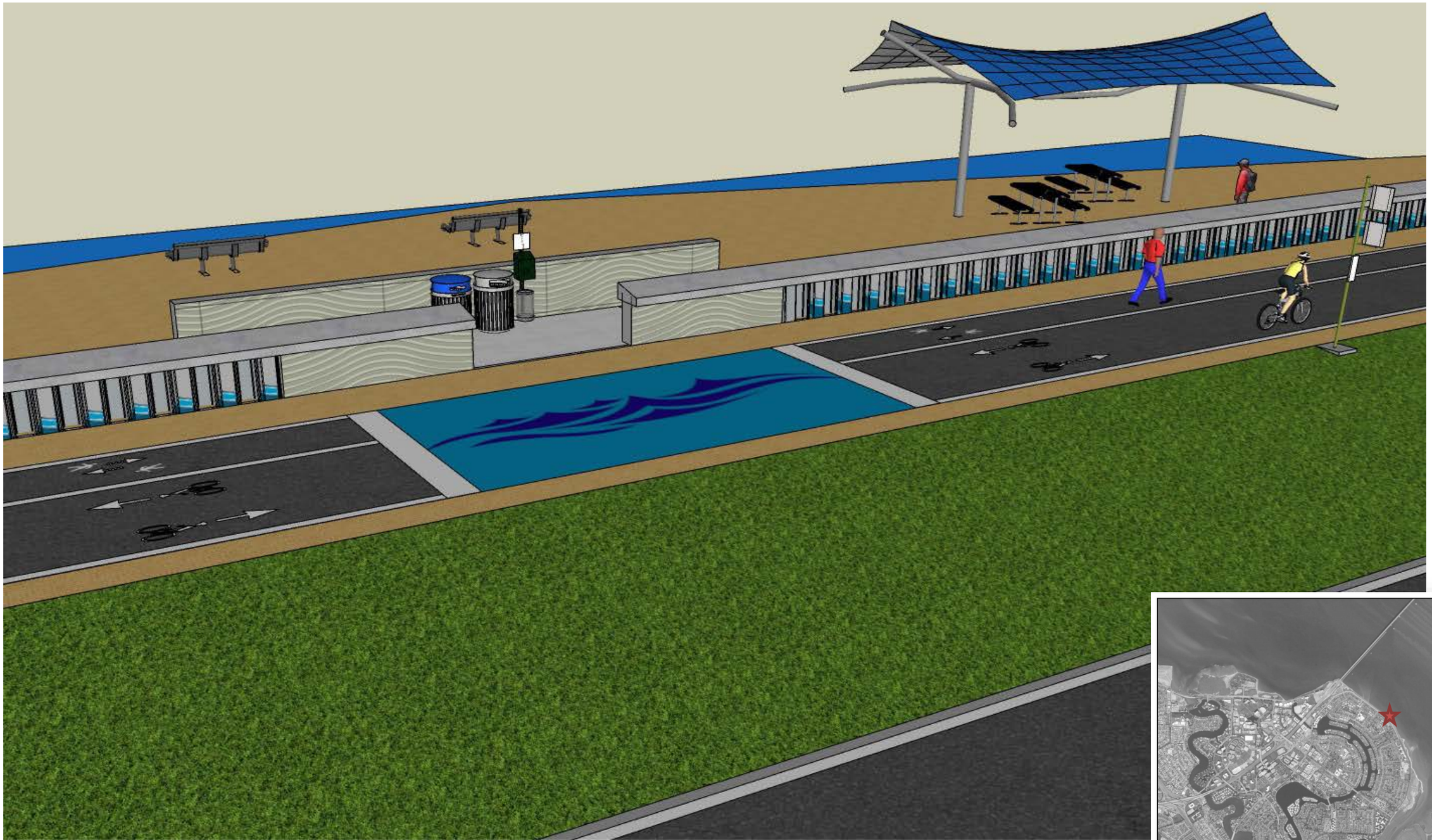


Bridgeview Park

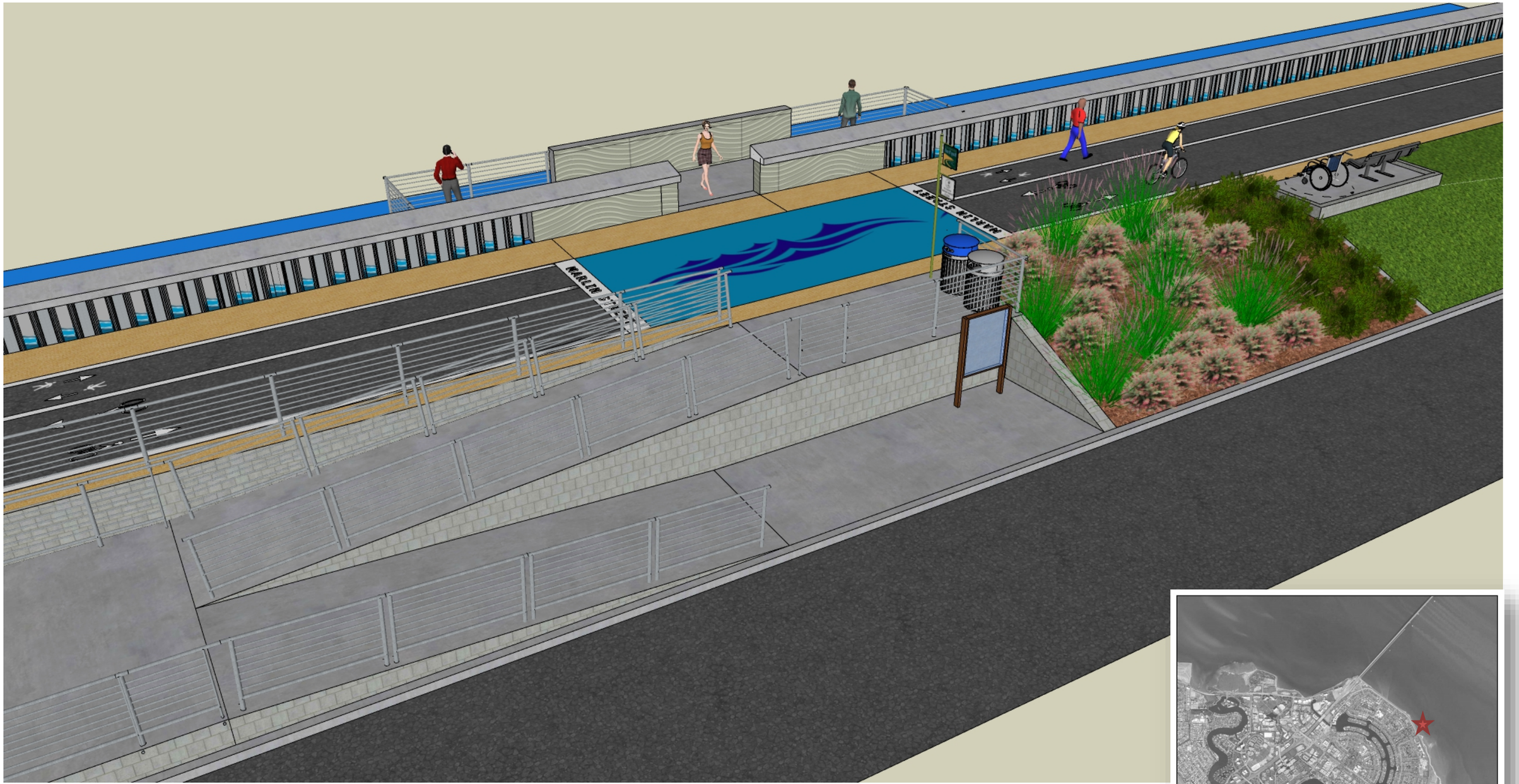
Typical Bay Trail Access from Beach Park Boulevard



Typical Shoreline Access Ramp with Viewing Platform



Proposed Picnic Area adjacent to Beach Park Boulevard between Sanderling Street and Gull Avenue



Typical Bay Trail Access with Wall Treatment, Stenciling, Amenities and Landscaping (Marlin Avenue)

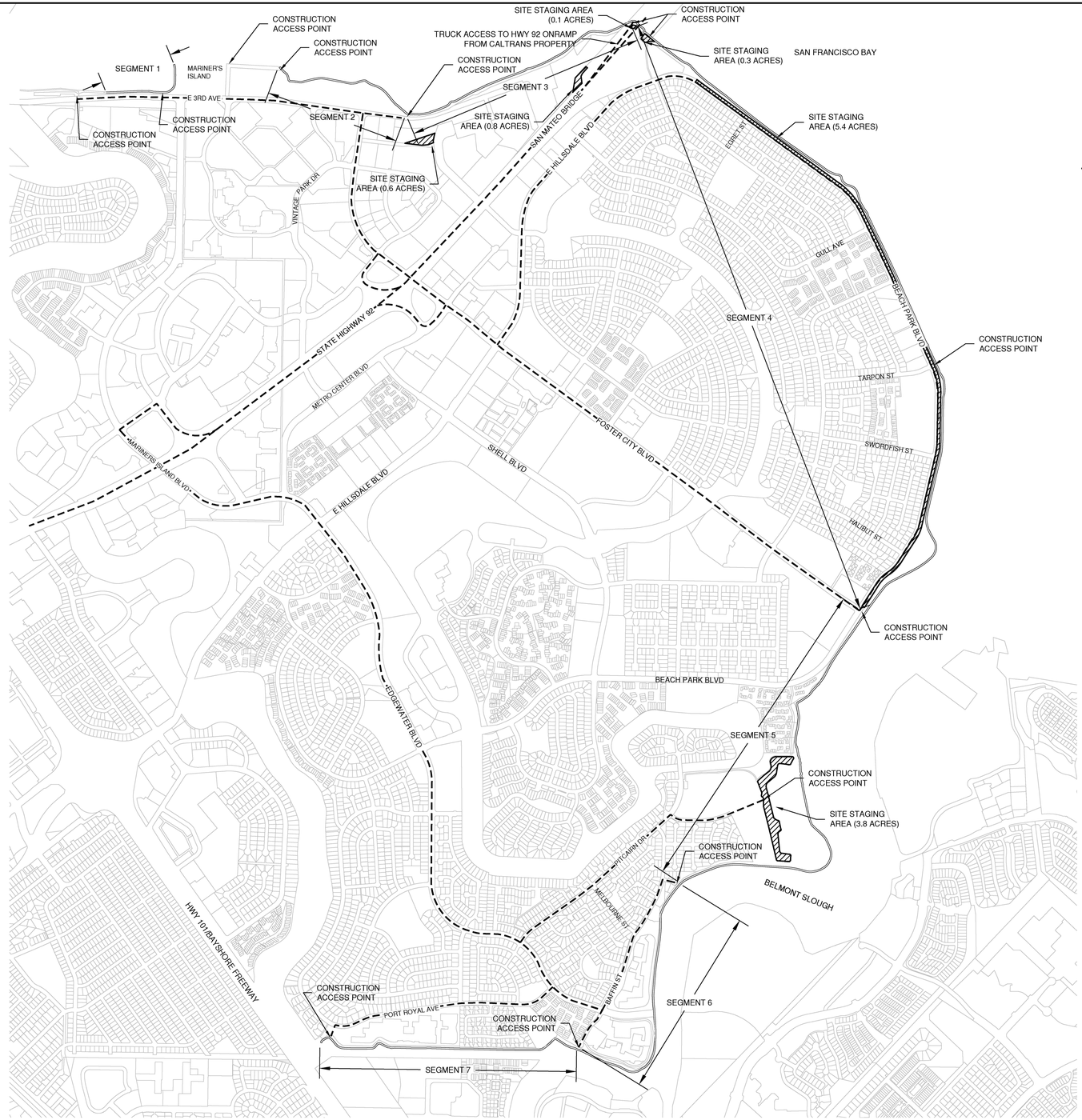
Shorebird Park

View from the Intersection with Foster City Boulevard with Beach Park Boulevard

Near Sea Cloud Park

Existing View

After Project



LEGEND:

CONSTRUCTION HAUL ROUTE

SITE STAGING AREA

NOTES

THIS EXHIBIT SHOWS THE CITY OF FOSTER CITY HAUL ROUTES THAT DICTATE CONSTRUCTION ACCESS TO THE LEVEE. THESE HAUL ROUTES ALLOW FOR THE LEVEE PROJECT TO HAVE SEVERAL CONSTRUCTION ACCESS POINTS, WHICH ALSO ALLOWS THE LEVEE PROJECT TO BE BROKEN INTO SEVERAL SEGMENTS LISTED BELOW:

1. FROM EAST 3RD AVENUE FROM THE BORDER OF FOSTER CITY AND THE CITY OF SAN MATEO TO THE WEST SIDE OF MARINER S ISLAND.
2. FROM THE EAST SIDE OF MARINER S ISLAND AT BAYWINDS PARK TO EAST 3RD AVENUE JUST EAST OF THE INTERSECTION OF EAST 3RD AVENUE AND FOSTER CITY BOULEVARD.
3. FROM JUST EAST OF THE INTERSECTION OF EAST 3RD AVENUE AND FOSTER CITY BOULEVARD TO THE SAN MATEO BRIDGE.
4. FROM THE SAN MATEO BRIDGE TO THE INTERSECTION OF BEACH PARK BOULEVARD AND FOSTER CITY BOULEVARD.
5. FROM THE INTERSECTION OF BEACH PARK BOULEVARD AND FOSTER CITY BOULEVARD TO THE END OF GATESHEAD COURT.
6. FROM THE END OF GATESHEAD COURT TO THE END OF BAFFIN STREET.
7. FROM THE END OF BAFFIN STREET TO THE BAY TRAIL PARKING LOT ON THE CORNER OF PORT ROYAL AVENUE AND ROCK HARBOR LANE.

THE 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 MARINER S 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.
- 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 THE PROPOSED PROJECT STAGING AREAS. THE STAGING AREAS ARE SHOWN IN THE FOLLOWING LOCATIONS:

- 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.
- 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

SCALE VERIFICATION

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

0 1"

BAY TRAIL HAUL ROUTES

NO SCALE

FOR REVIEW – NOT FOR CONSTRUCTION

DATE: 6/13/2019
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

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 — JAMES D. ANDREWS — No. 43776 — CIVIL — STATE OF CALIFORNIA
PRELIMINARY — NOT FOR CONSTRUCTION

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

FOSTER CITY LEVEE IMPROVEMENTS
CIP 301-657

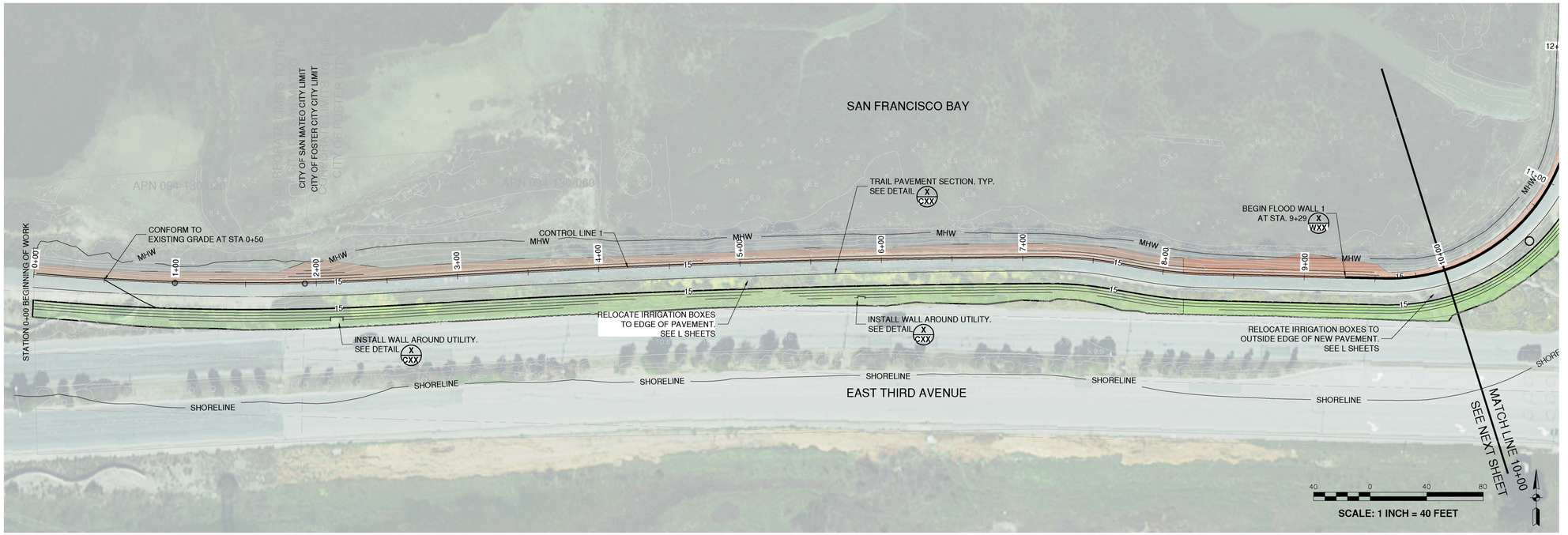
SITE ACCESS AND HAUL ROUTES

SHEET
G 05
SHEET 005 OF xxx
CIP PROJ. NUMBER
CIP 301-657

PLOT DATE: 6/14/2019 FILE PATH: E:\FOST.12\Plans\SHEET 05 HAUL ROUTES.dwg

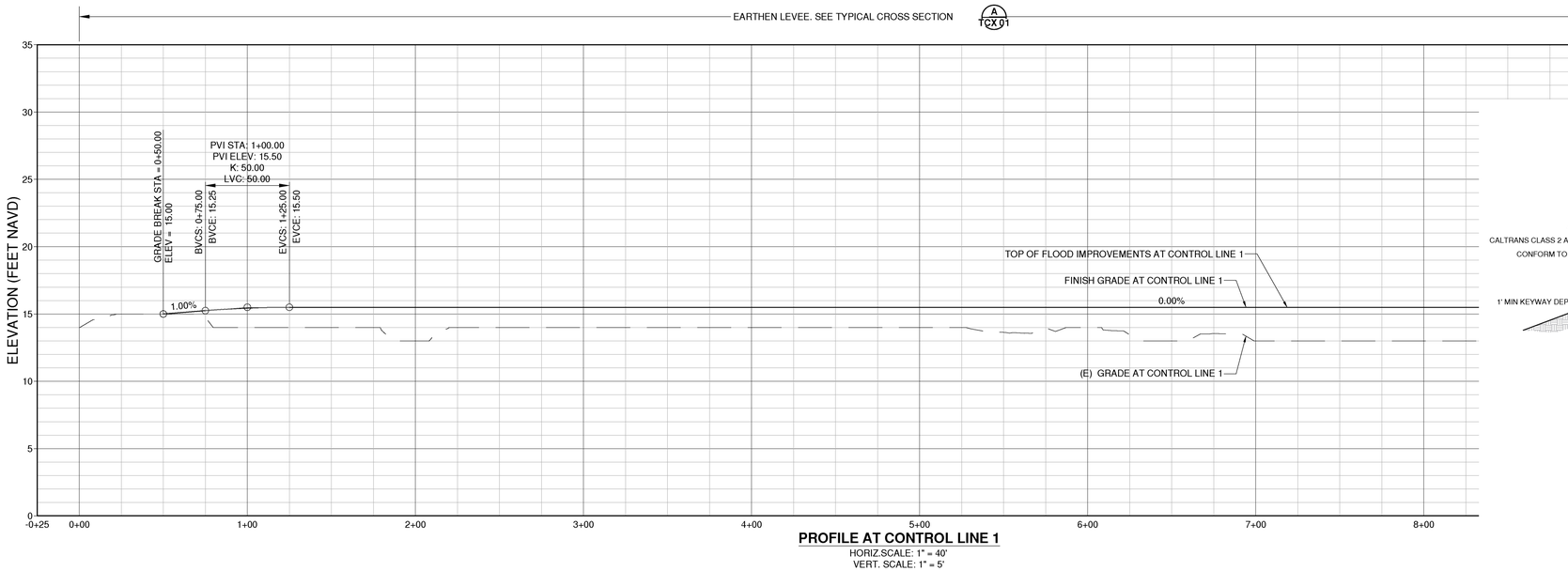
XREFS: X-Title Block

SAN FRANCISCO BAY
PROJECT SITE
NO SCALE
E 3RD AVE
VINTAGE PARK DR
SAN MATEO BRIDGE
E HILLSDALE BLVD
BOREL PL
GULL AVE
BRIGHTWATER BLVD
FARPON ST
SWORDFISH ST
HALIBUT ST
STATE HIGHWAY 92
METRO CENTER BLVD
MARINERS ISLAND BLVD
SHELL BLVD
FOSTER CITY BLVD
E HILLSDALE BLVD
BEACH PARK BLVD
EDGEWATER BLVD
PITCAIRN DR
MALBOURNE ST
DARTIN ST
BELMONT SLOUGH
PORT ROYAL AVE
HWY 101/BAYSHORE FREEWAY
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36

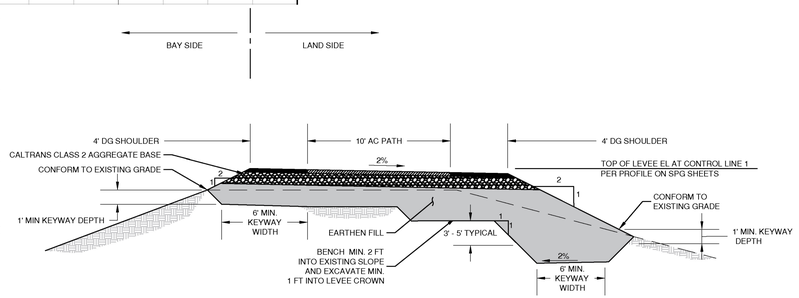


LEGEND

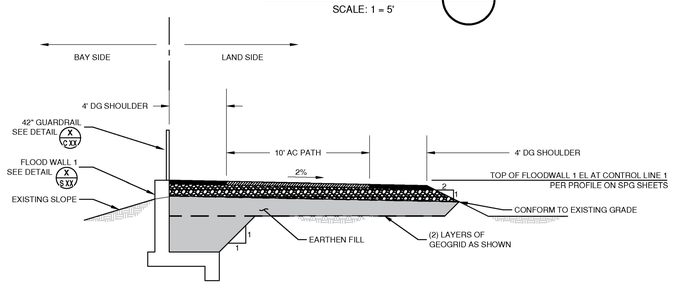
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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

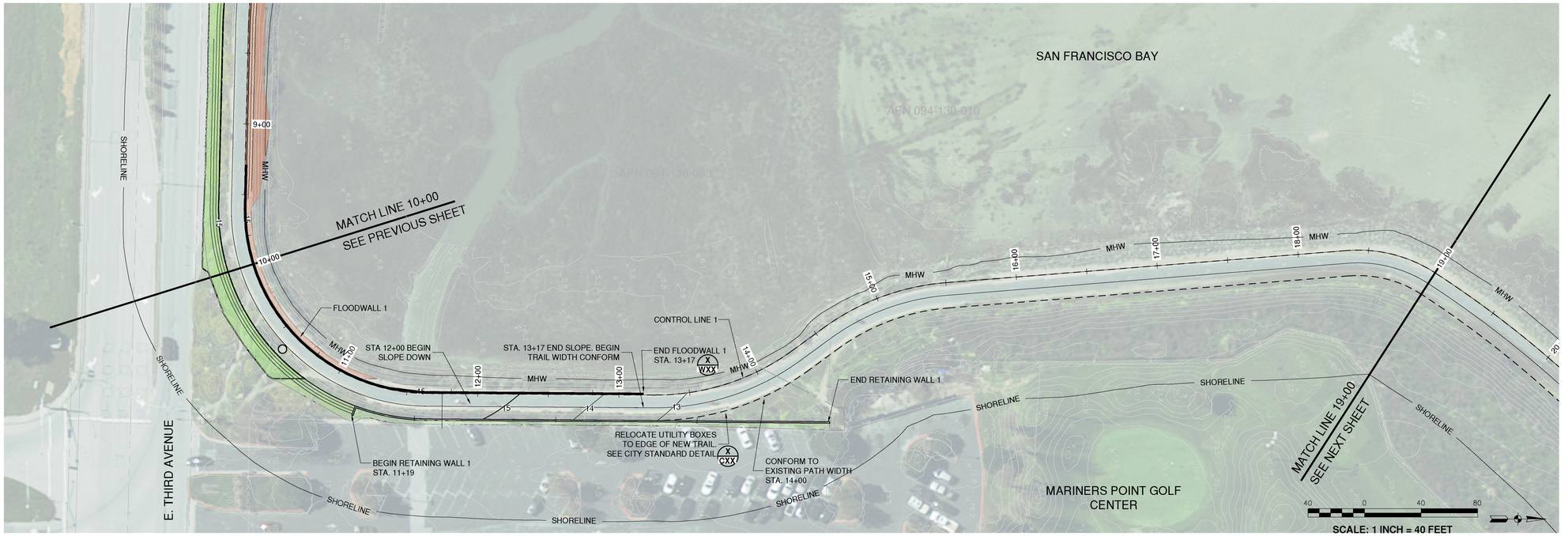


TYPICAL SECTION A
SCALE: 1 = 5'



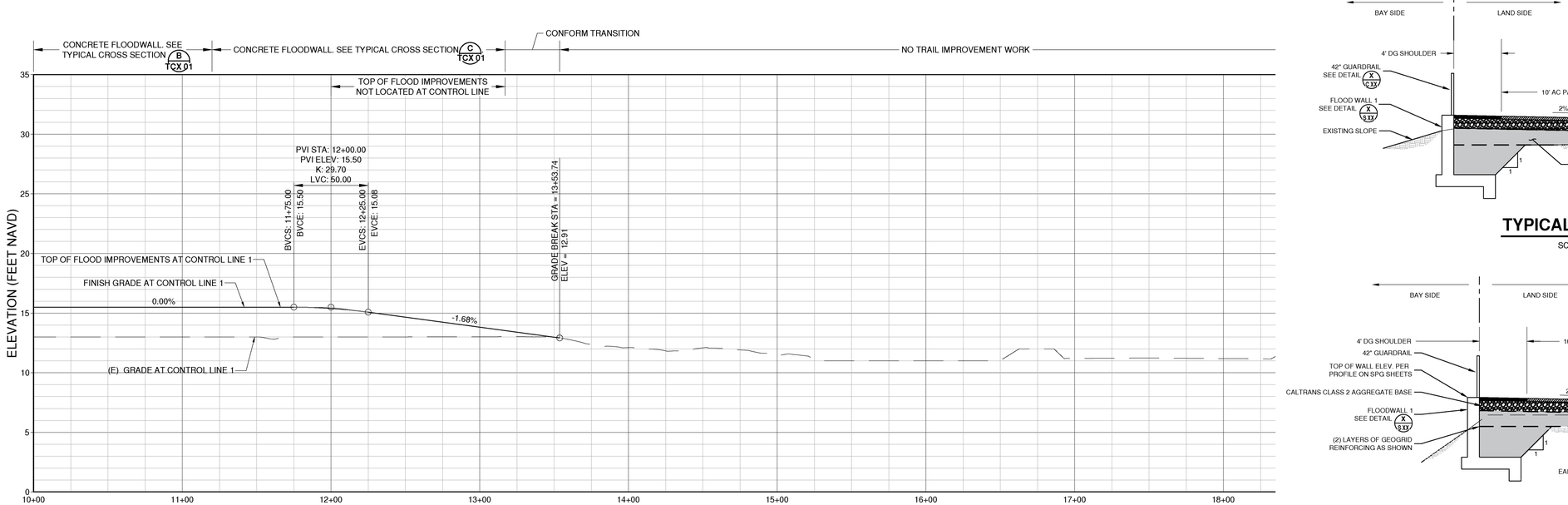
TYPICAL SECTION B
SCALE: 1 = 5'

Schaaf & Wheeler



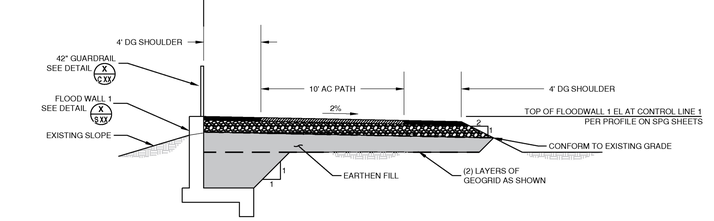
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



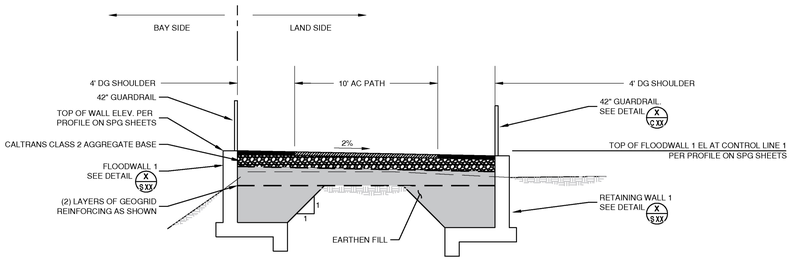
PROFILE AT CONTROL LINE 1

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



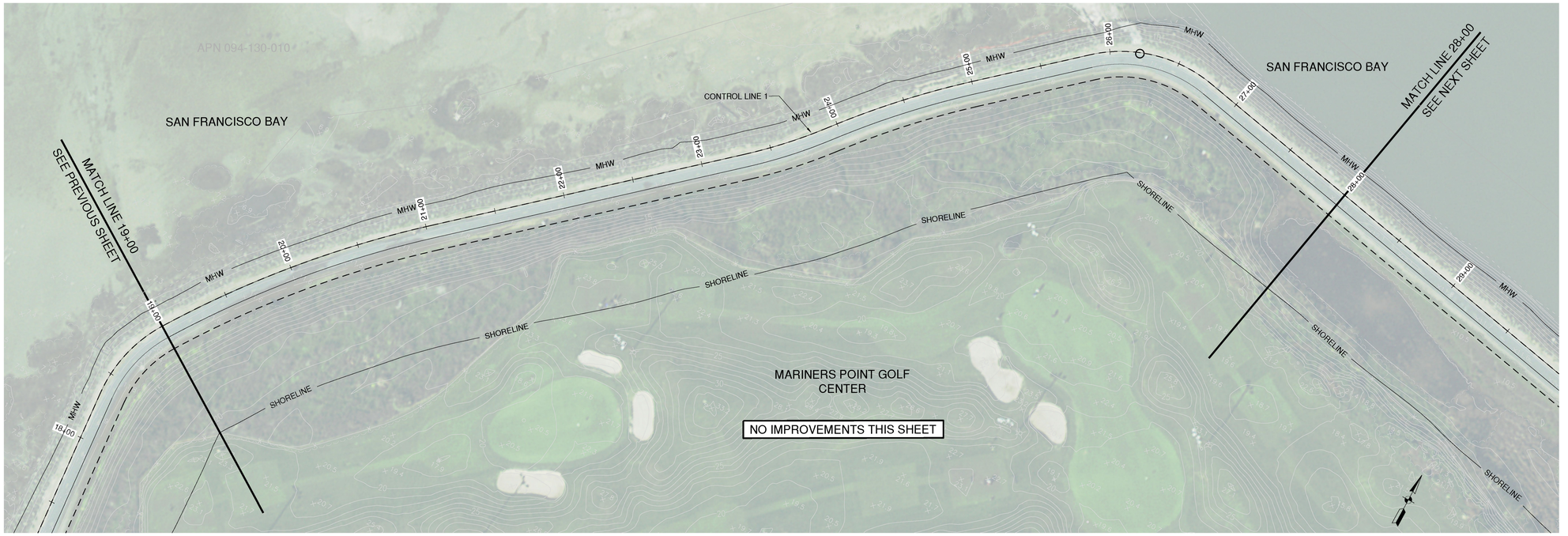
TYPICAL SECTION B

SCALE: 1 = 5'



TYPICAL SECTION C

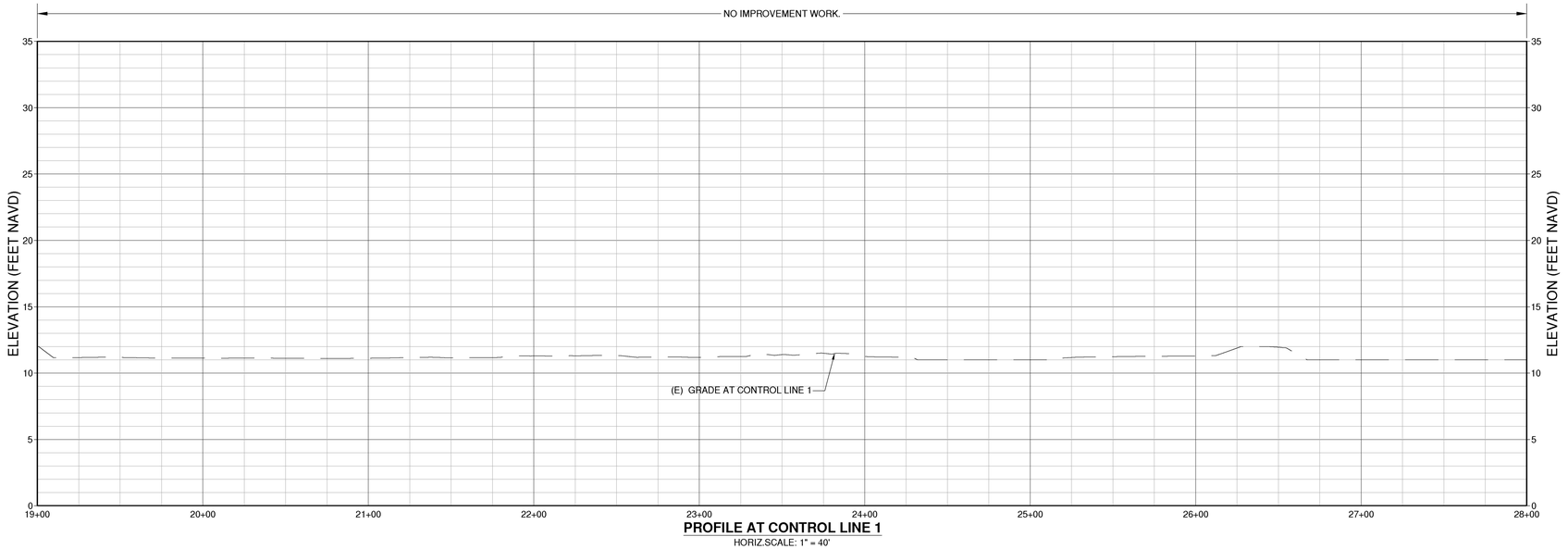
SCALE: 1 = 5'



SCALE: 1 INCH = 40 FEET

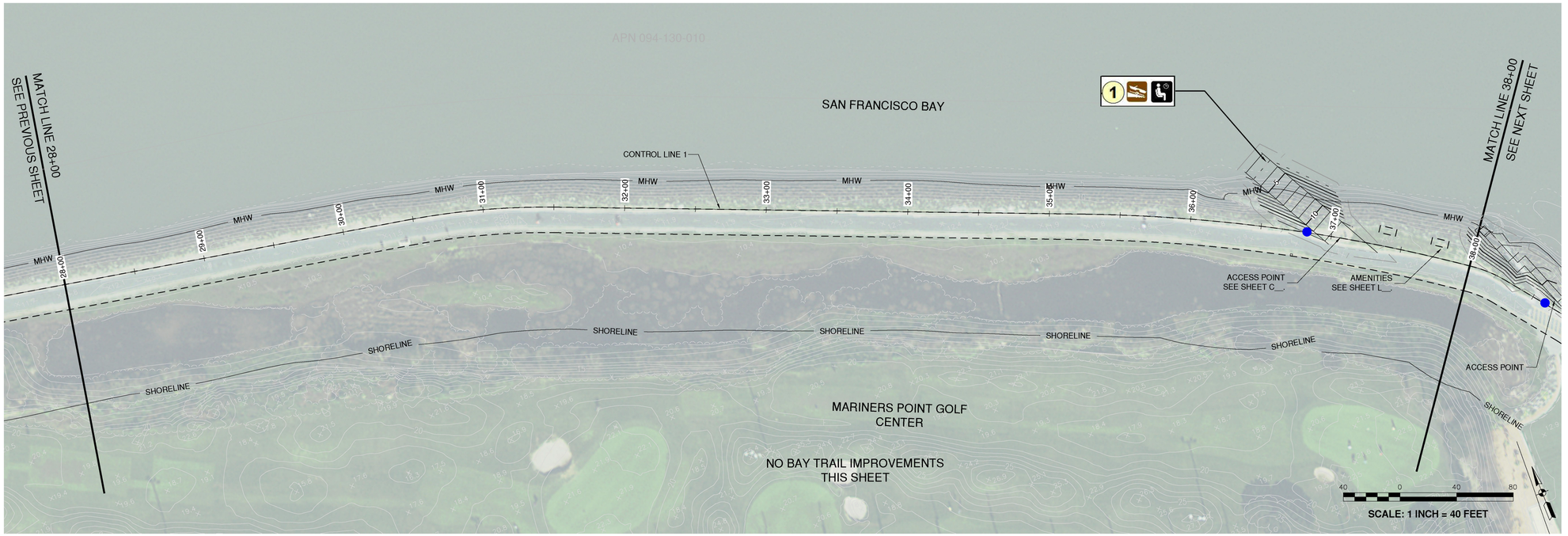
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



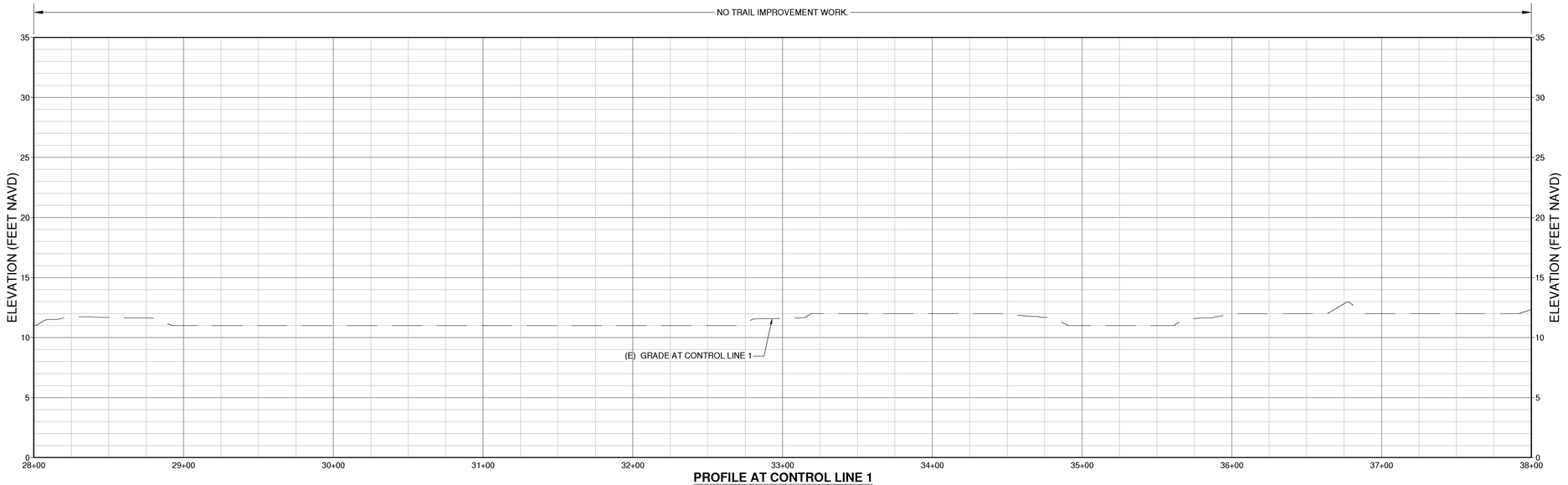
PROFILE AT CONTROL LINE 1

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



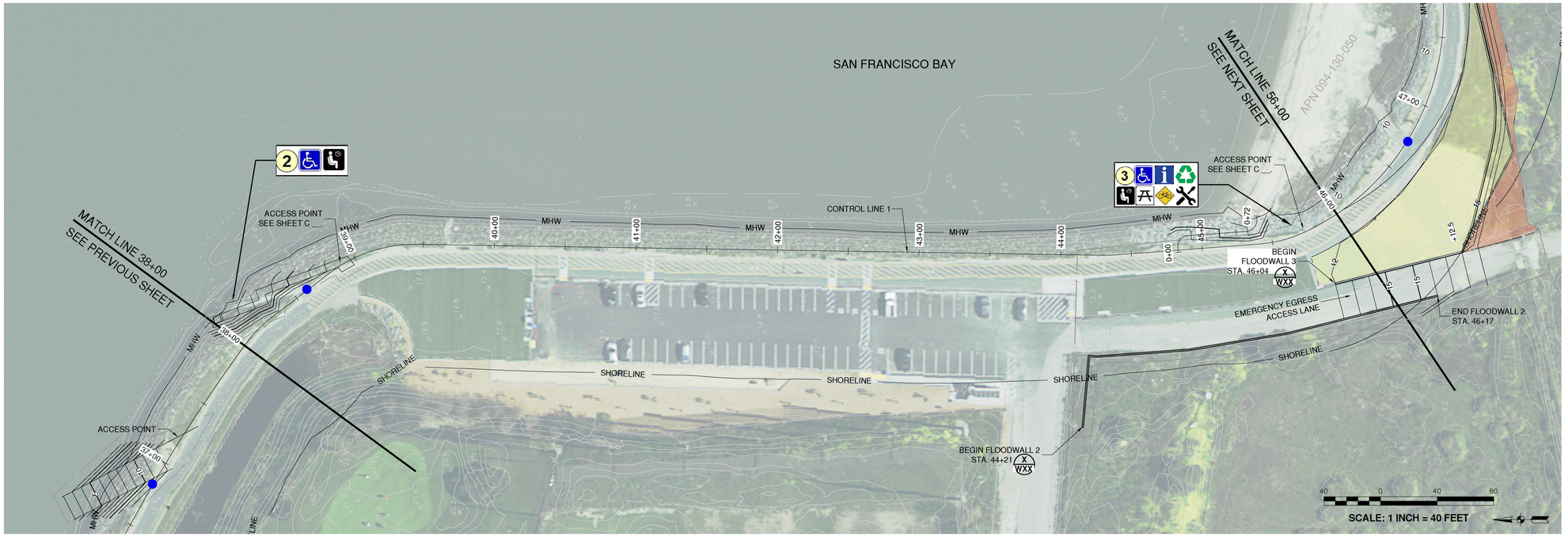
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



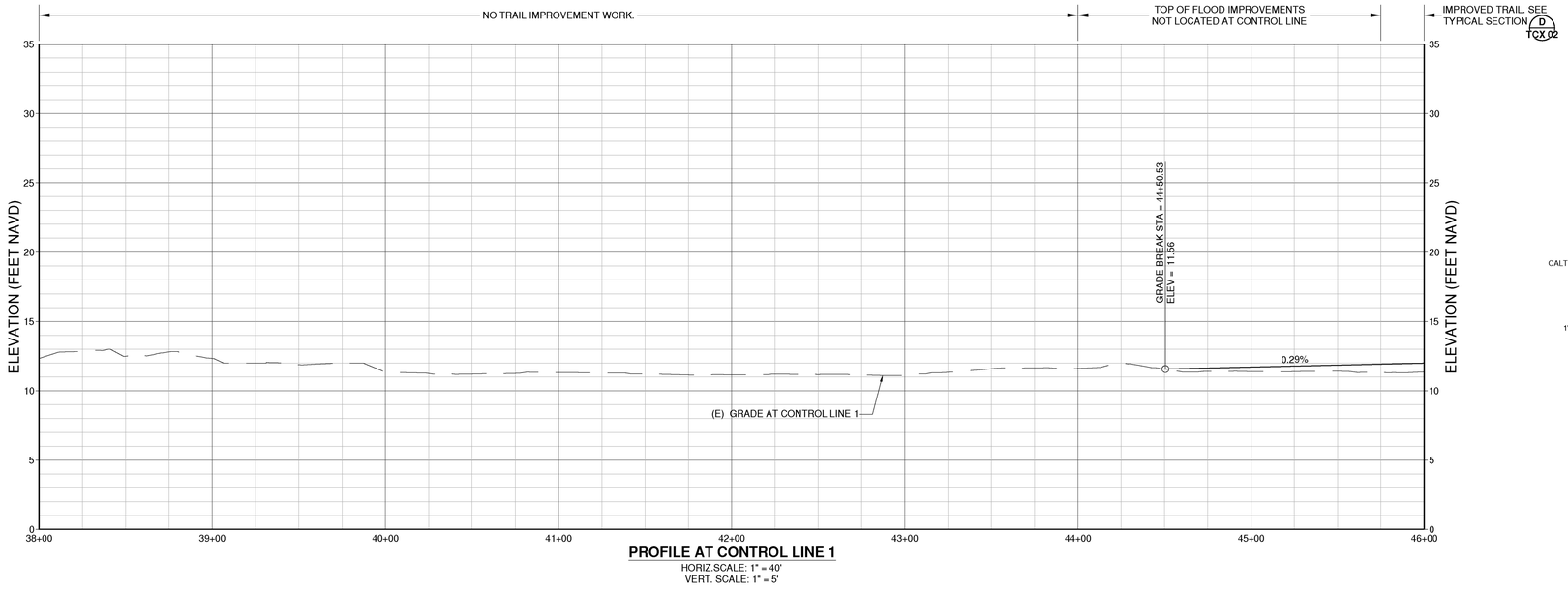
PROFILE AT CONTROL LINE 1

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



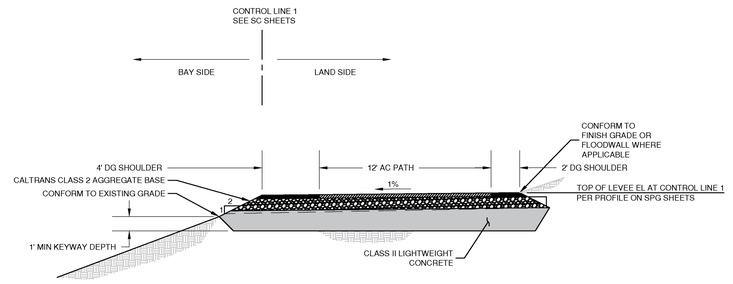
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



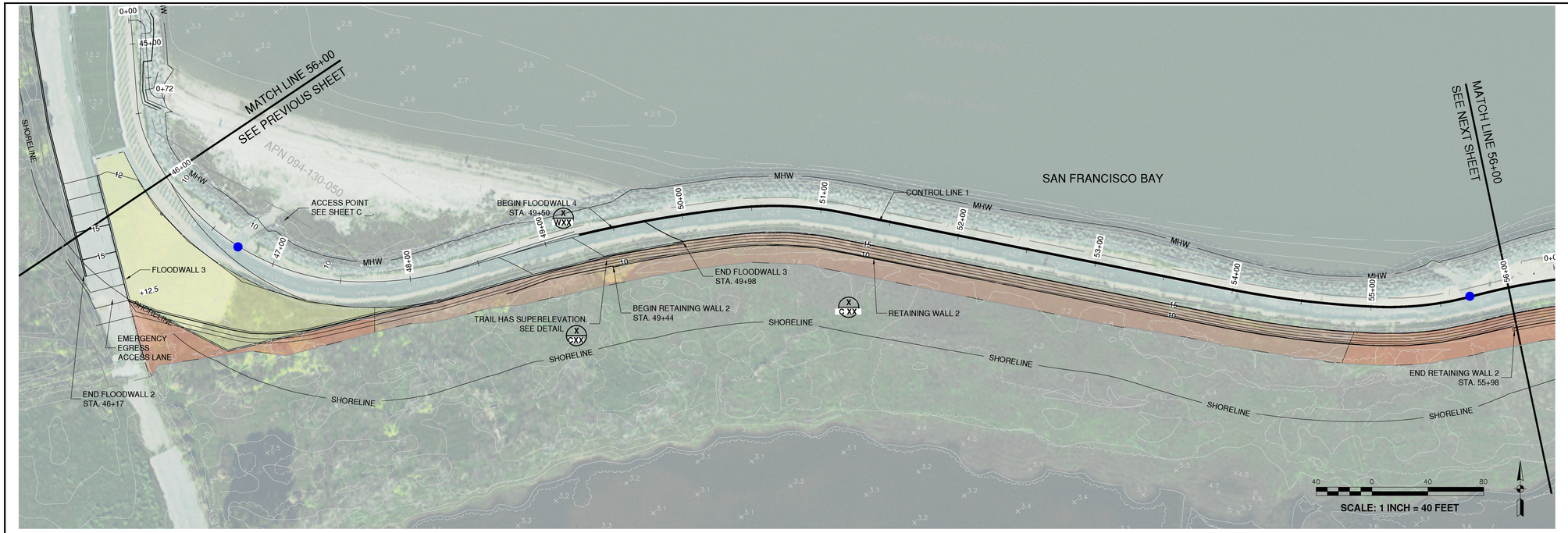
PROFILE AT CONTROL LINE 1

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



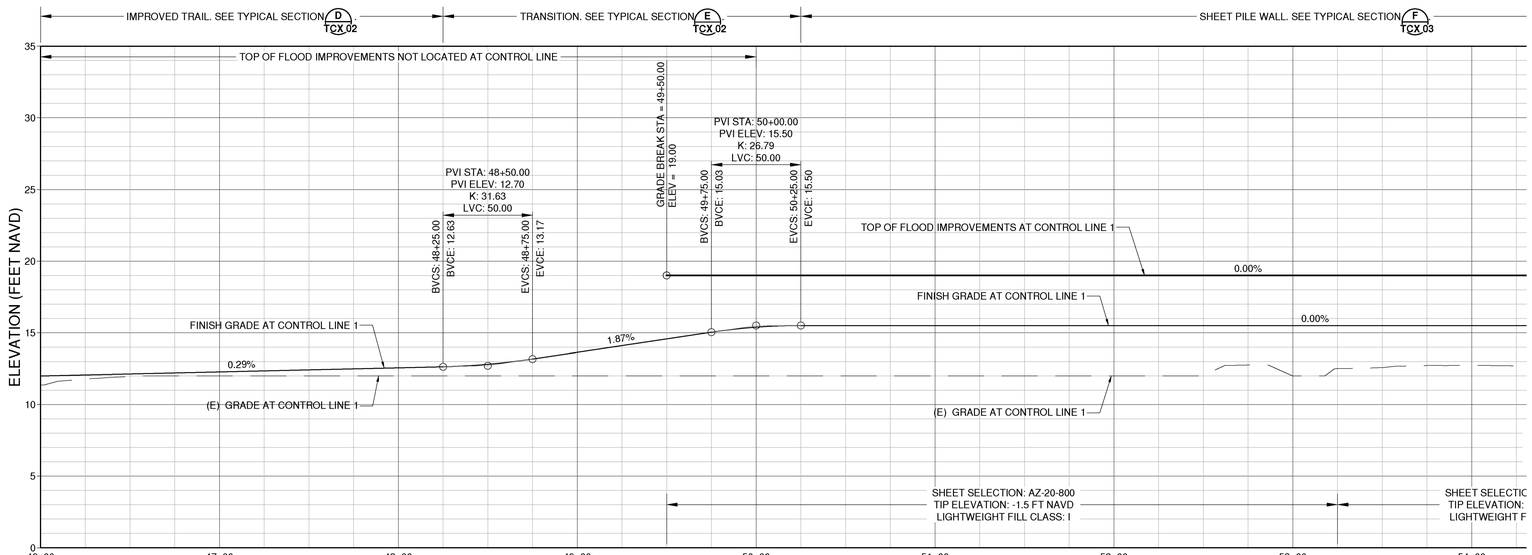
TYPICAL SECTION D

SCALE: 1 = 5'



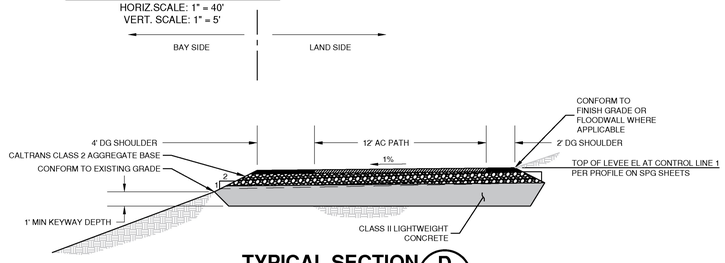
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



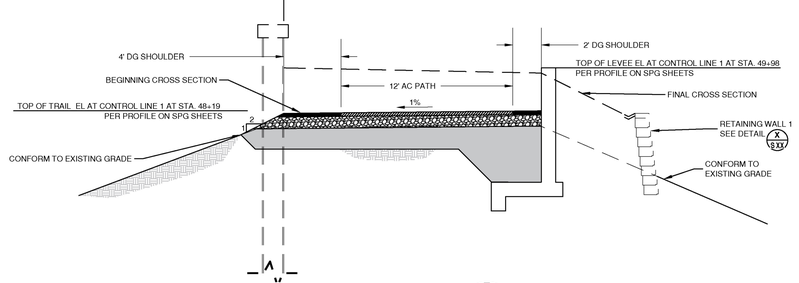
PROFILE AT CONTROL LINE 1

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



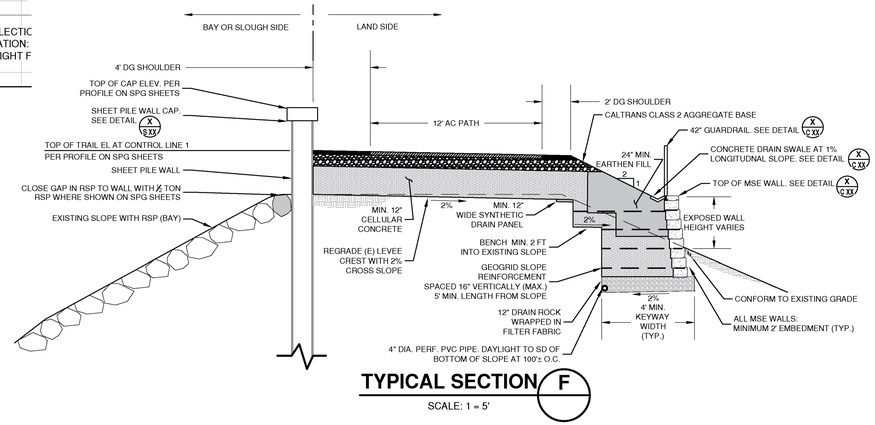
TYPICAL SECTION D

SCALE: 1 = 5'



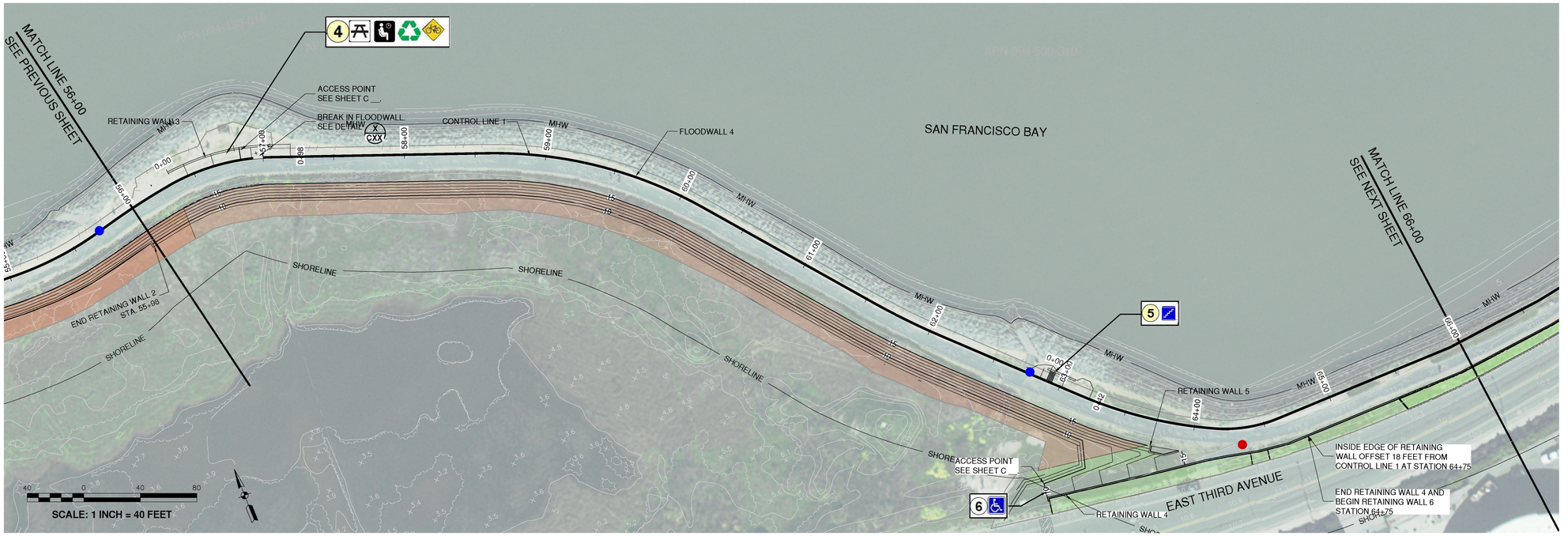
TYPICAL SECTION E

SCALE: 1 = 5'



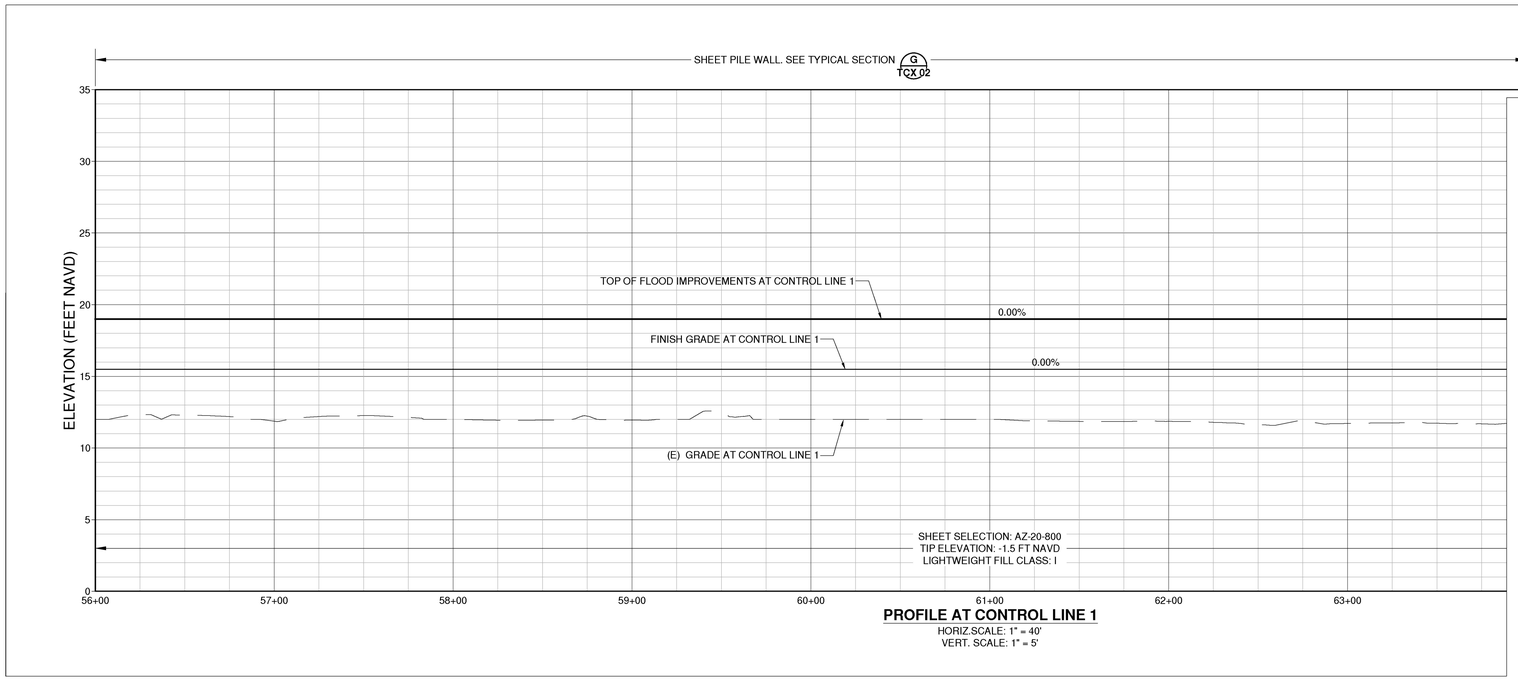
TYPICAL SECTION F

SCALE: 1 = 5'

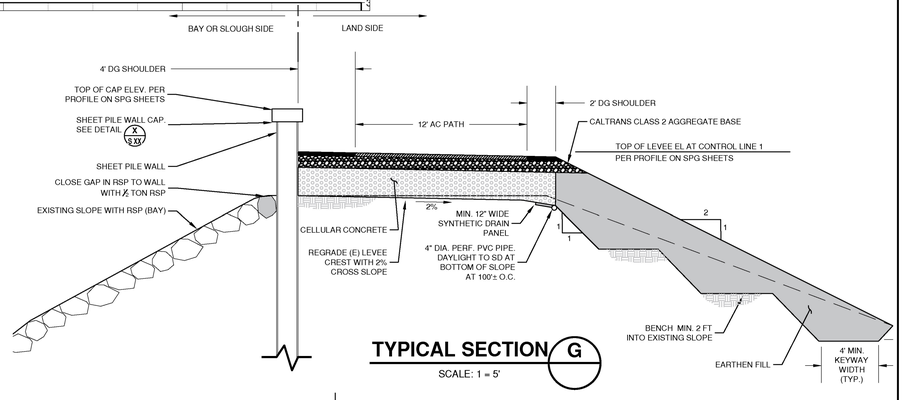


LEGEND

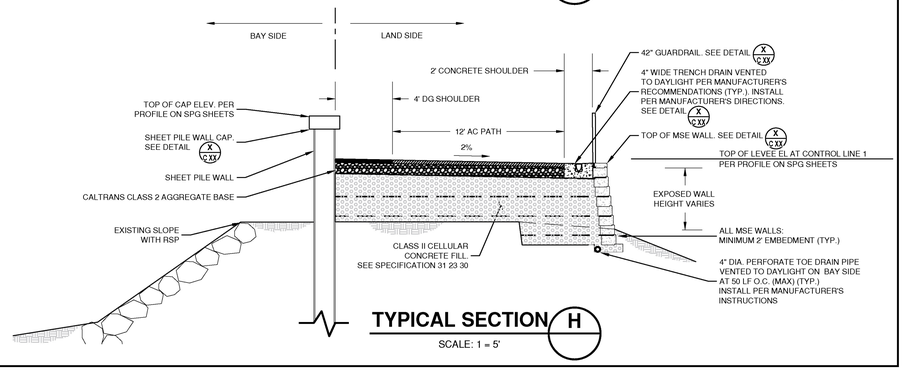
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



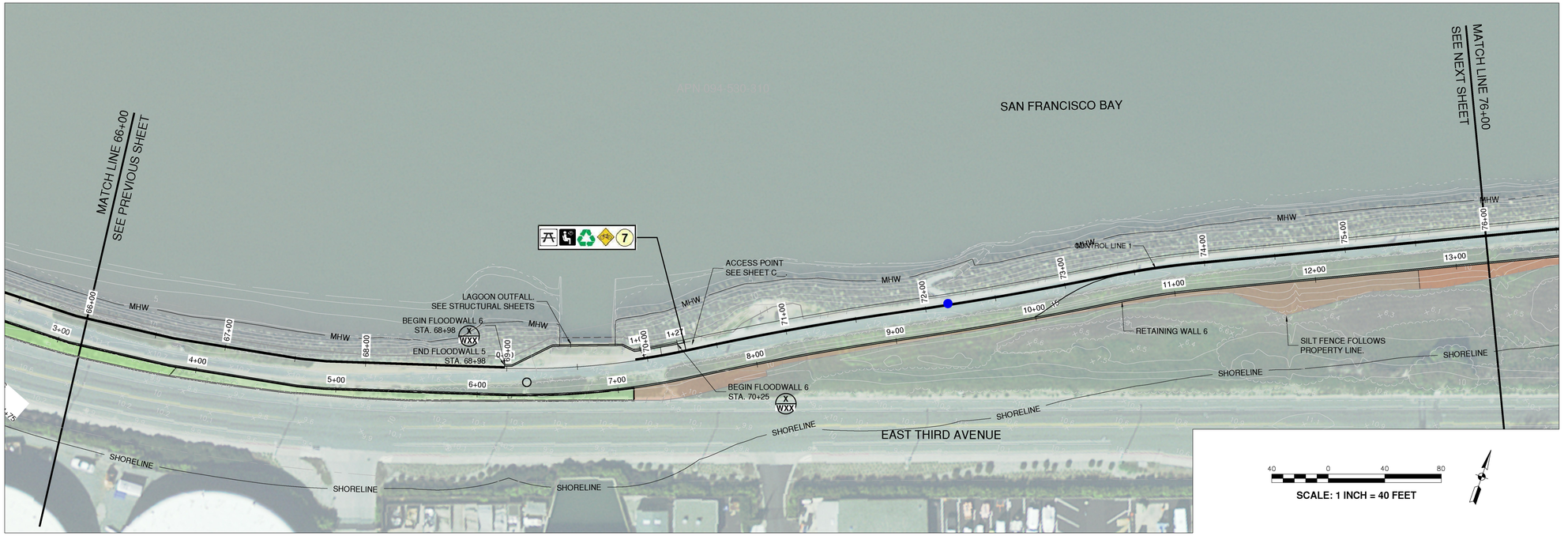
PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION G
SCALE: 1 = 5'



TYPICAL SECTION H
SCALE: 1 = 5'

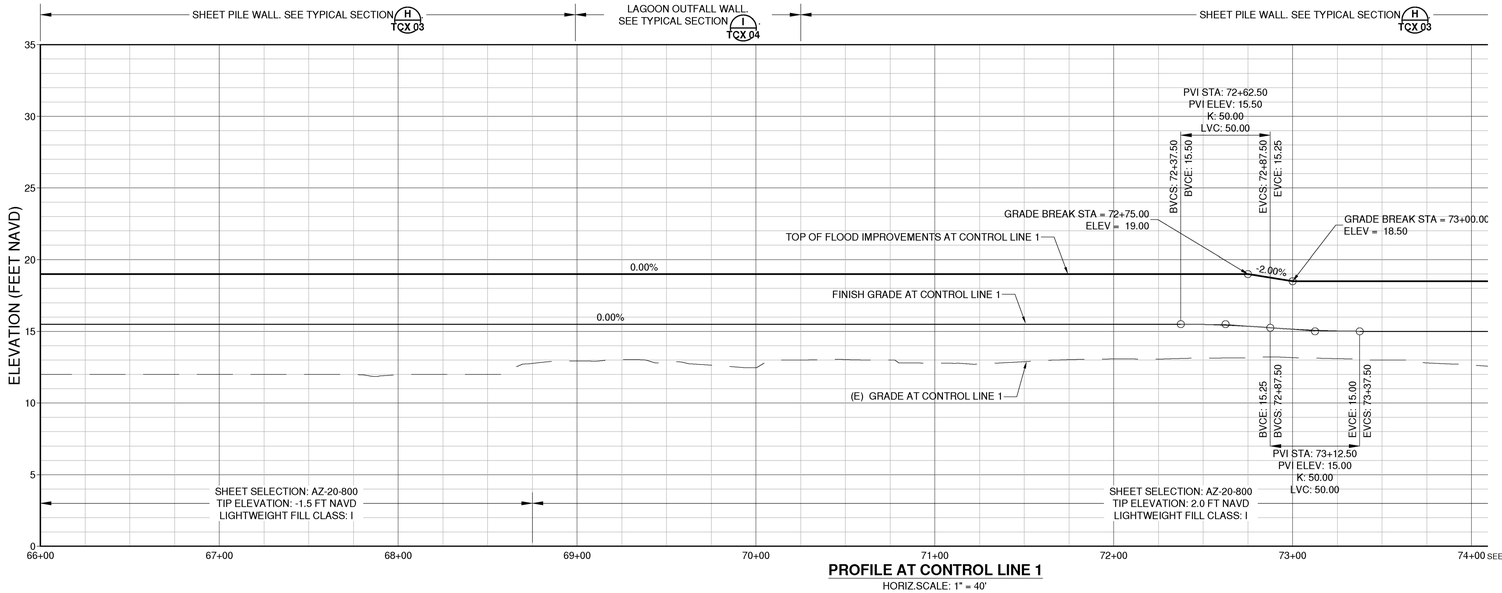


LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access

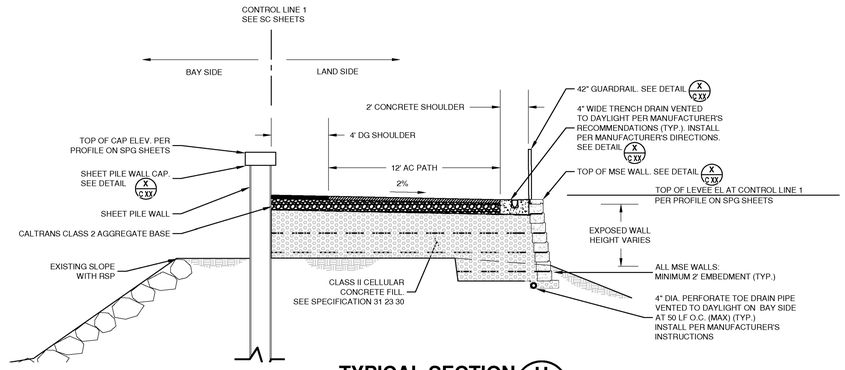
40 0 40 80

SCALE: 1 INCH = 40 FEET



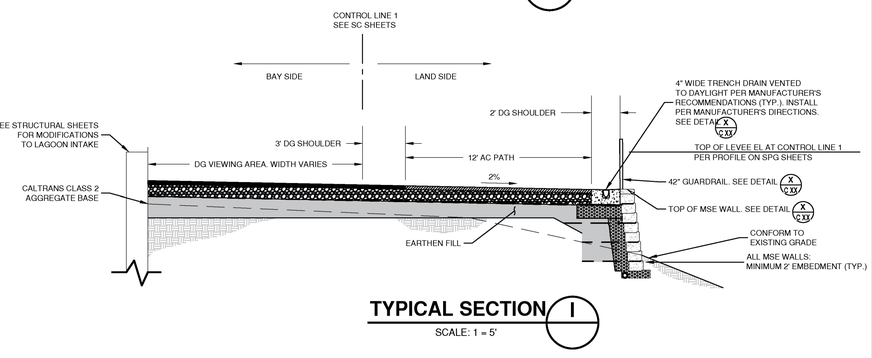
PROFILE AT CONTROL LINE 1

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



TYPICAL SECTION H

SCALE: 1 = 5'

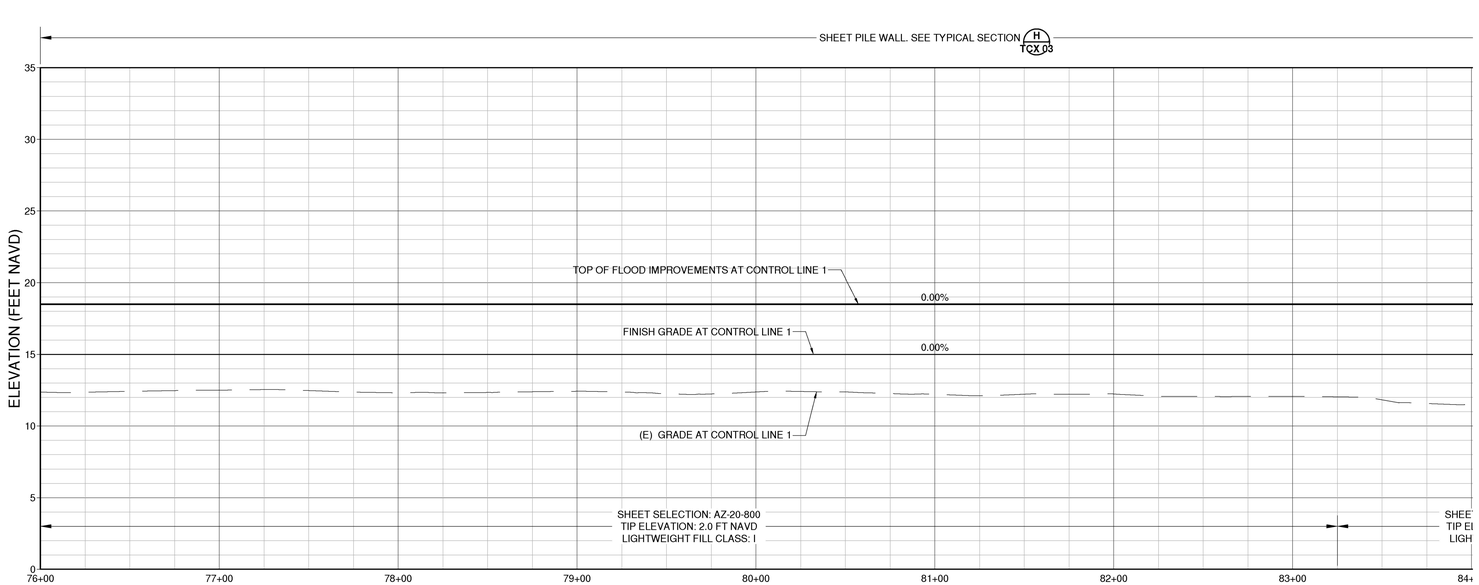


TYPICAL SECTION I

SCALE: 1 = 5'

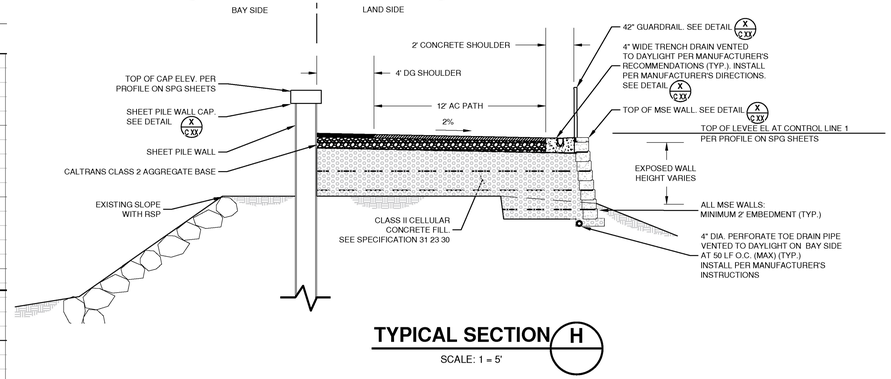
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



PROFILE AT CONTROL LINE 1

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

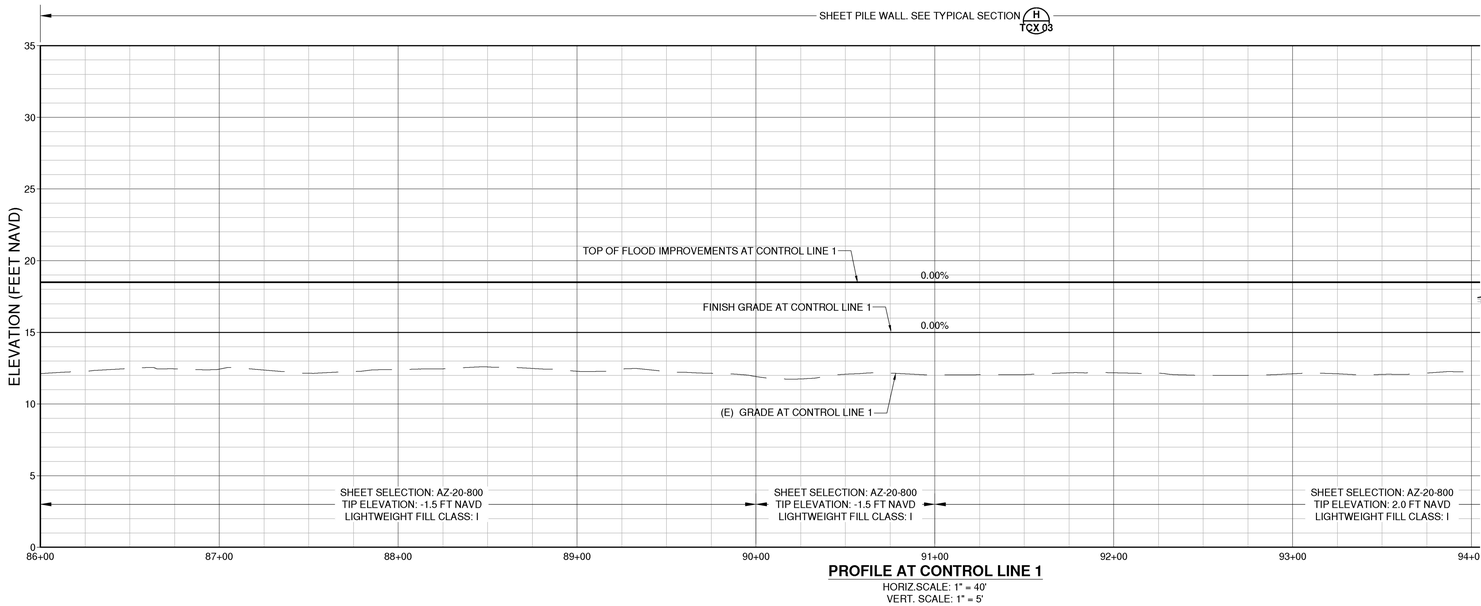


TYPICAL SECTION H

SCALE: 1 = 5'

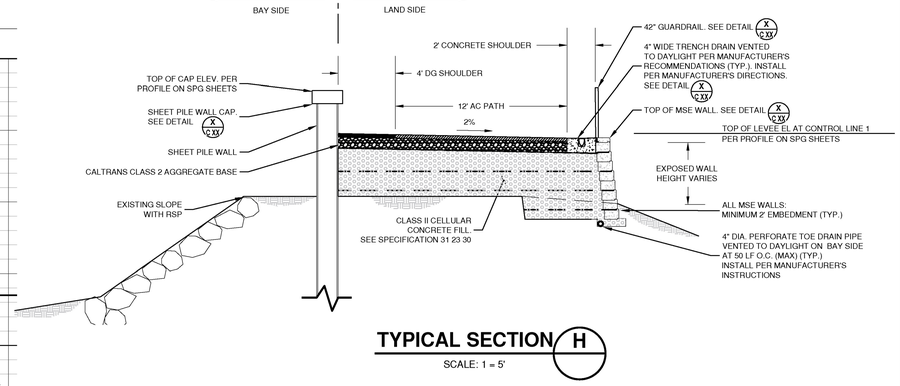
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



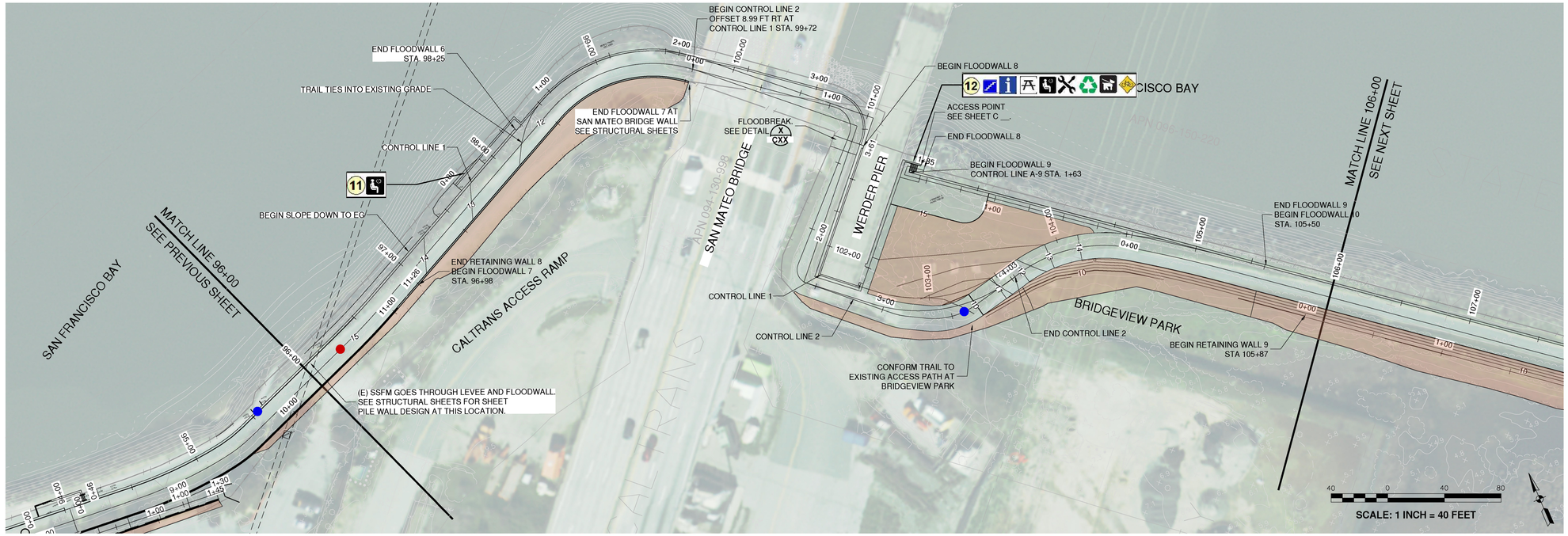
PROFILE AT CONTROL LINE 1

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



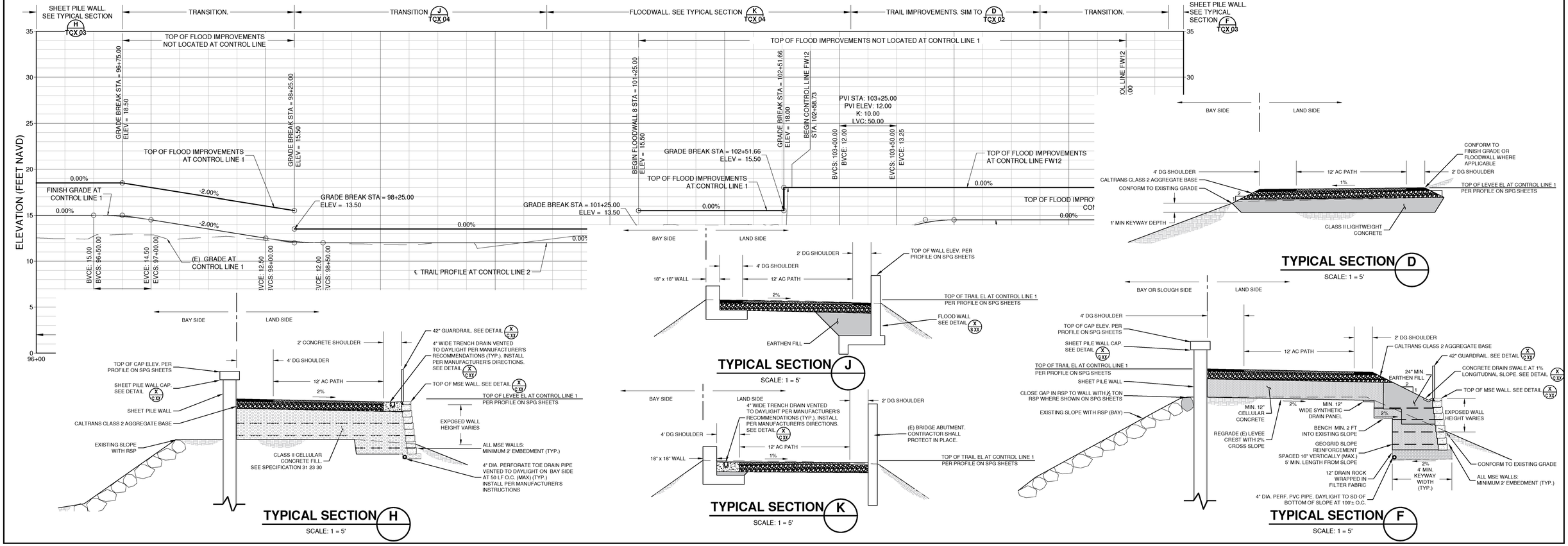
TYPICAL SECTION H

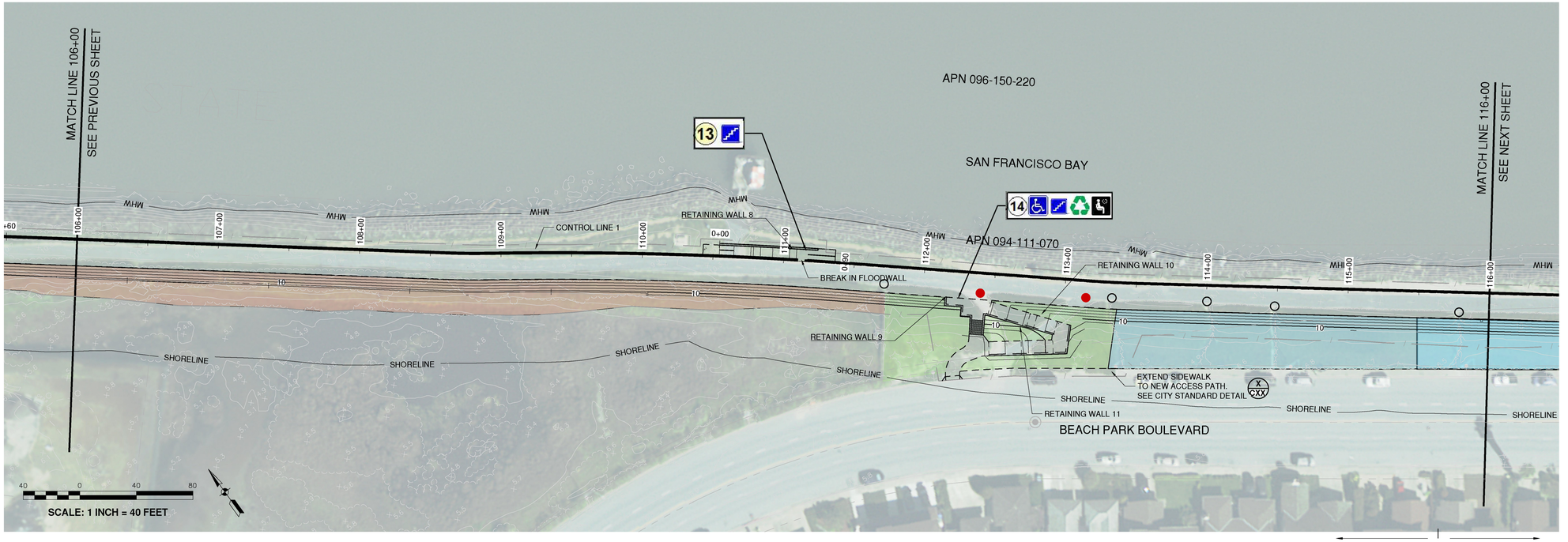
SCALE: 1 = 5'



LEGEND

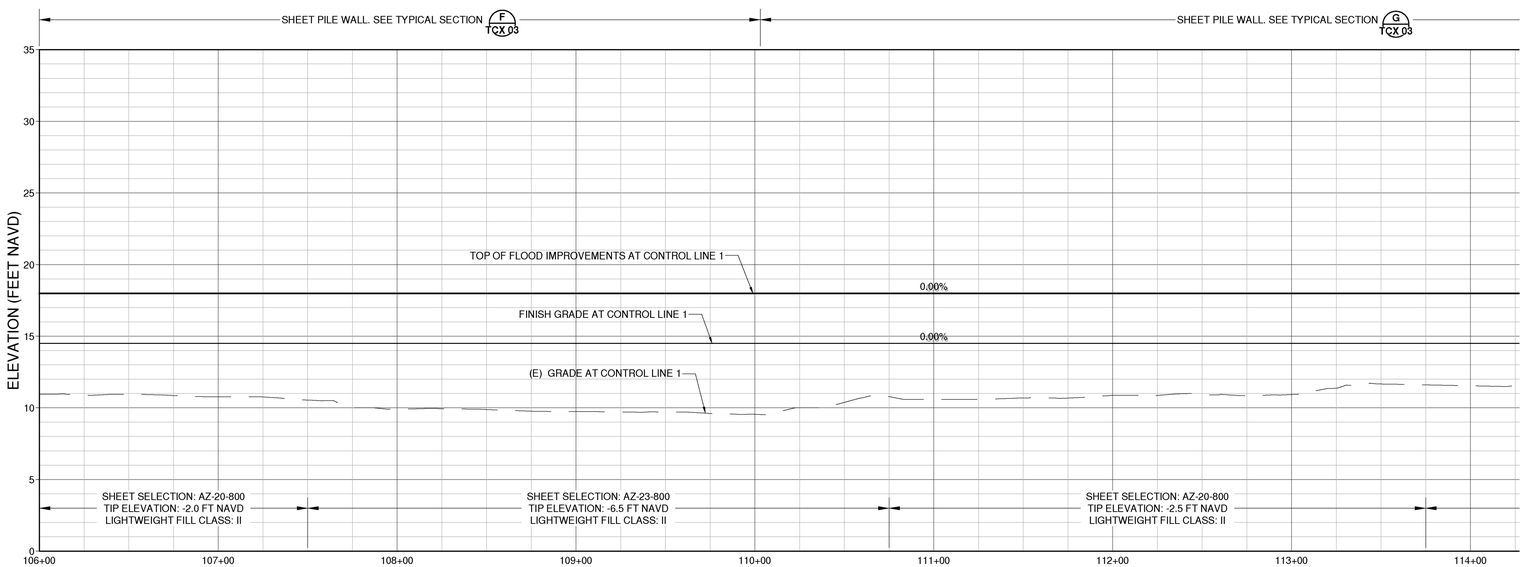
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



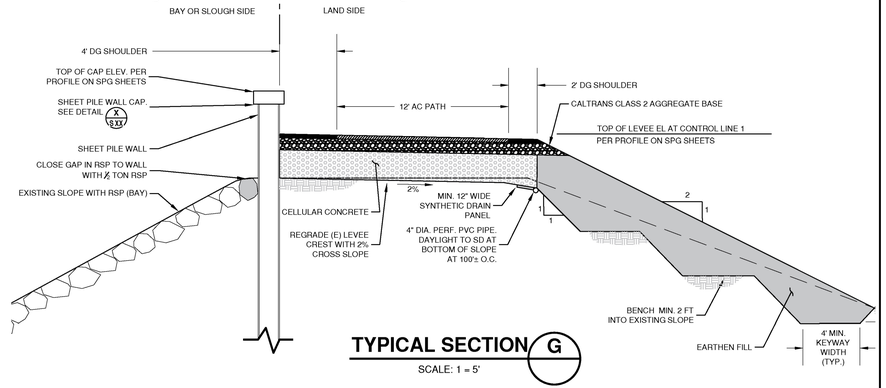


LEGEND

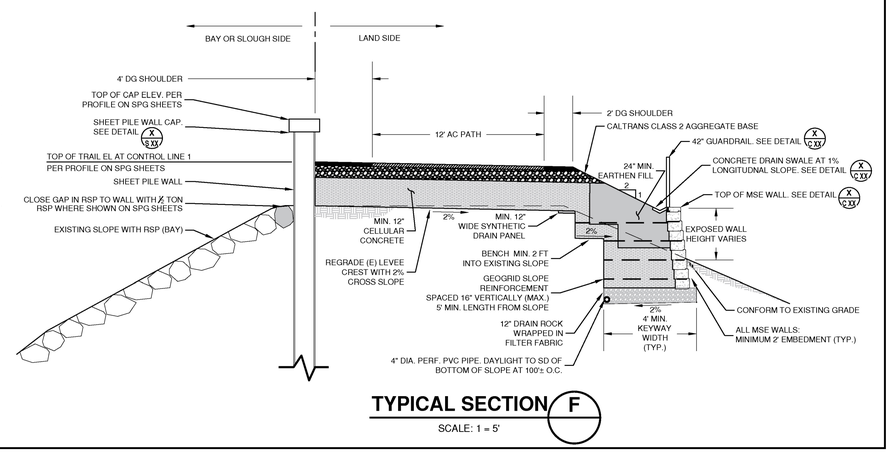
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



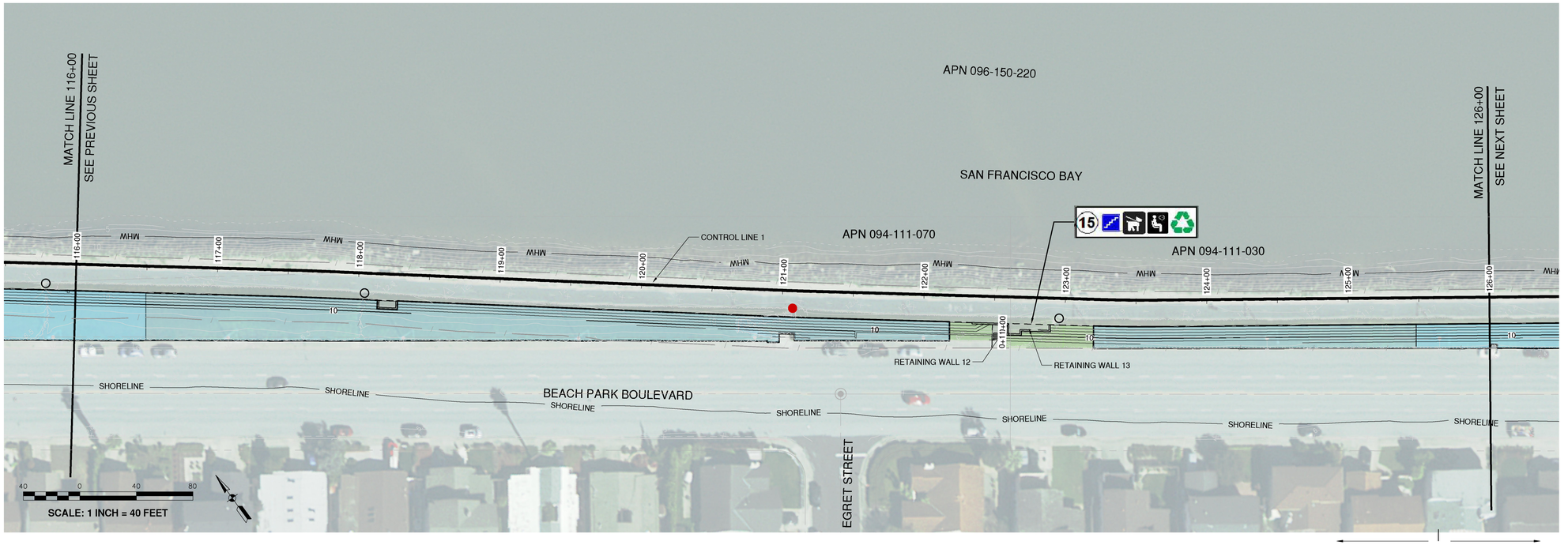
PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION G
SCALE: 1 = 5'

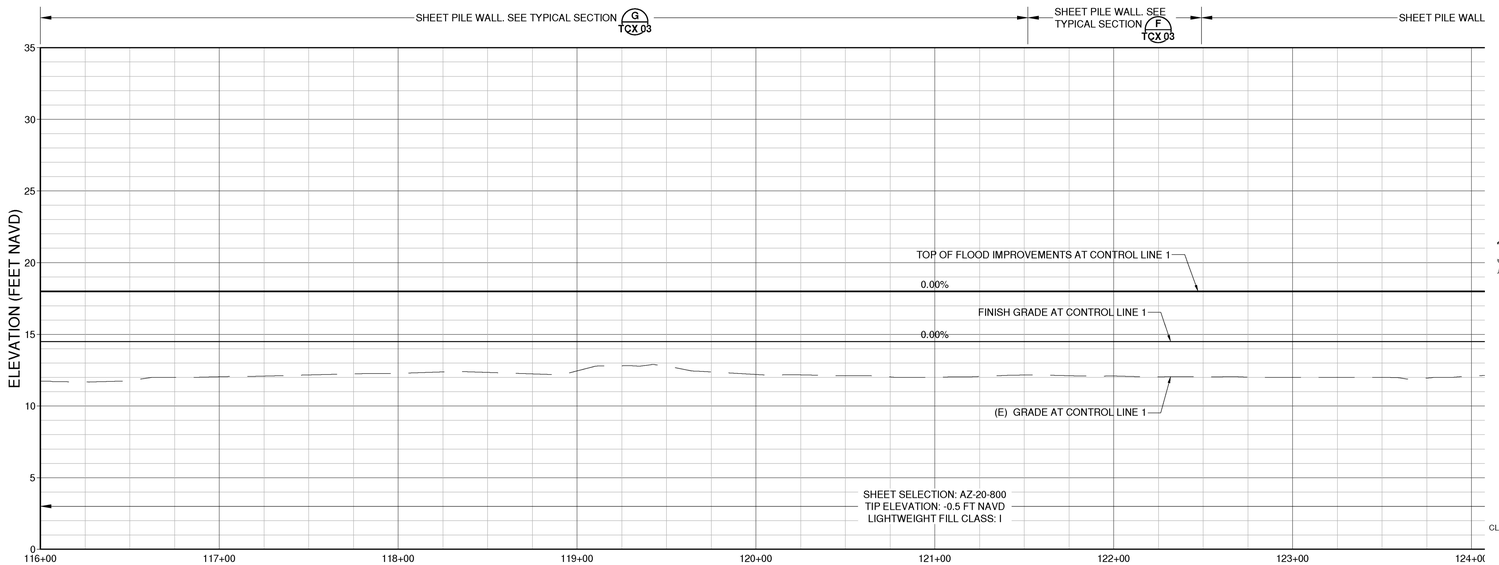


TYPICAL SECTION F
SCALE: 1 = 5'

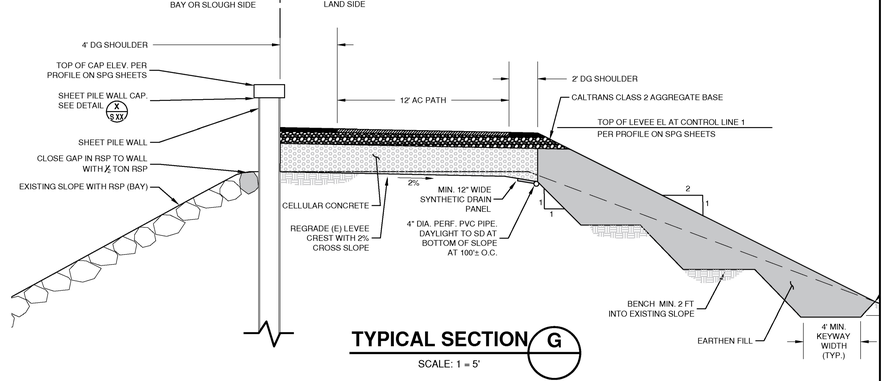


LEGEND

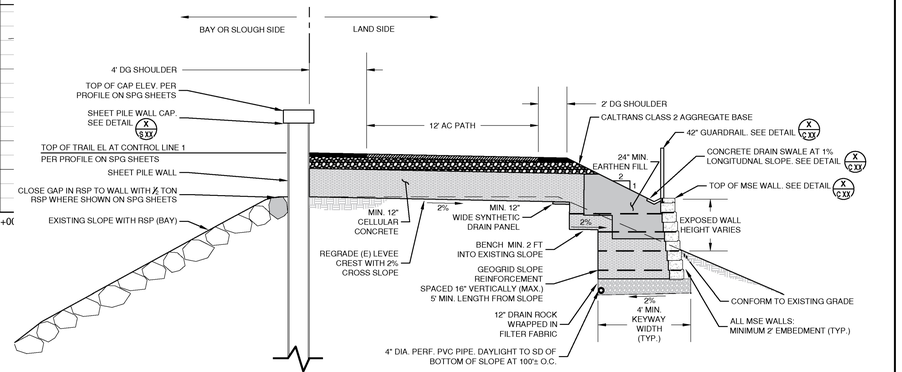
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



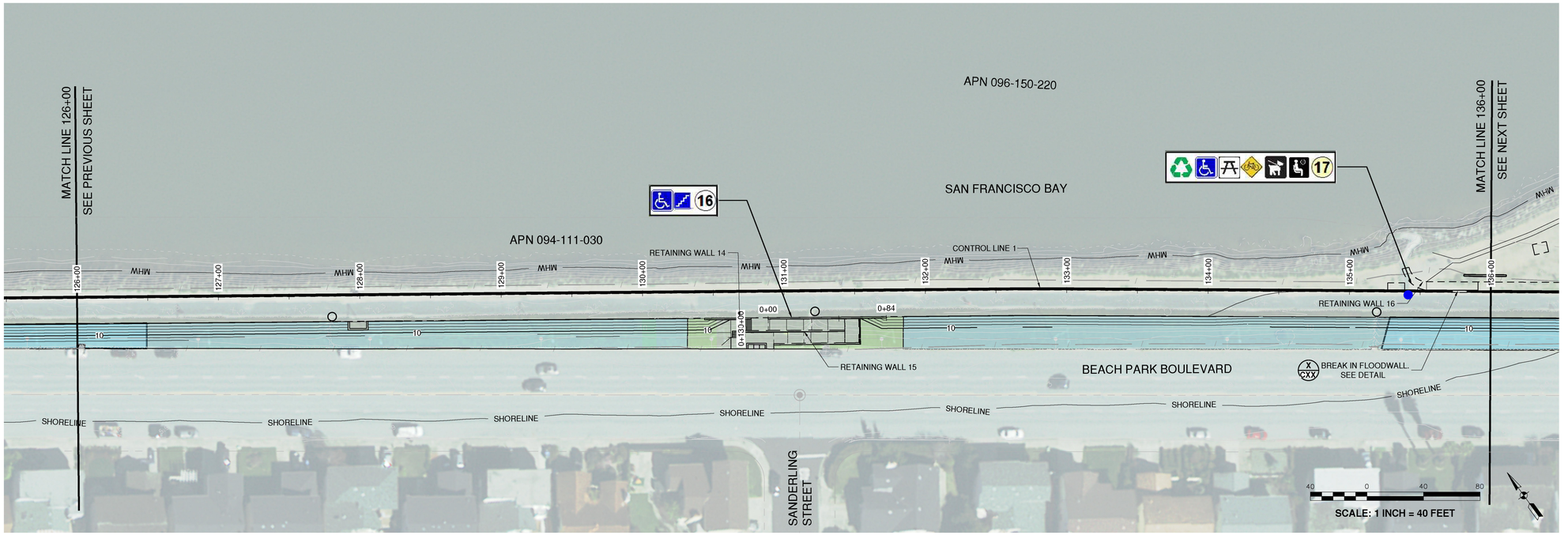
PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION G
SCALE: 1 = 5'

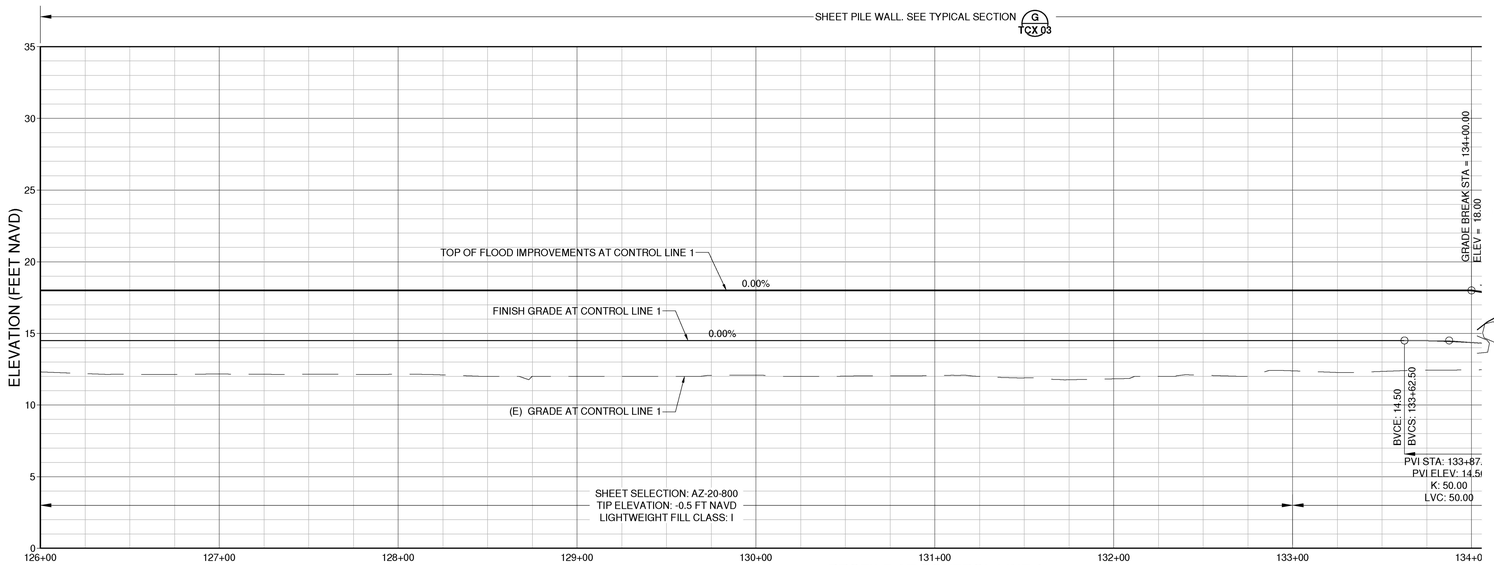


TYPICAL SECTION F
SCALE: 1 = 5'

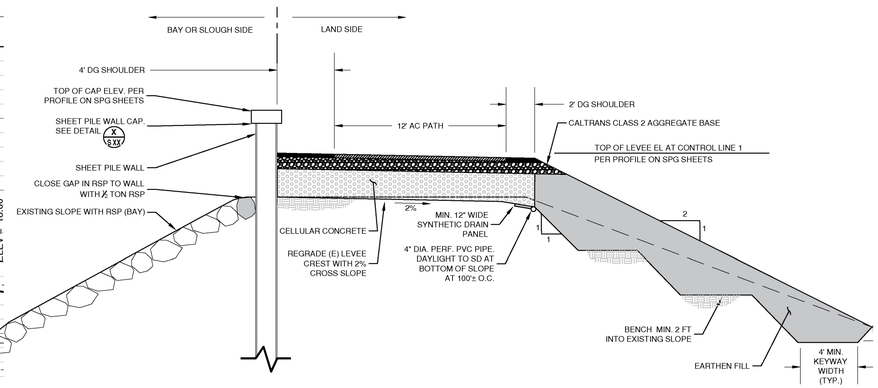


LEGEND

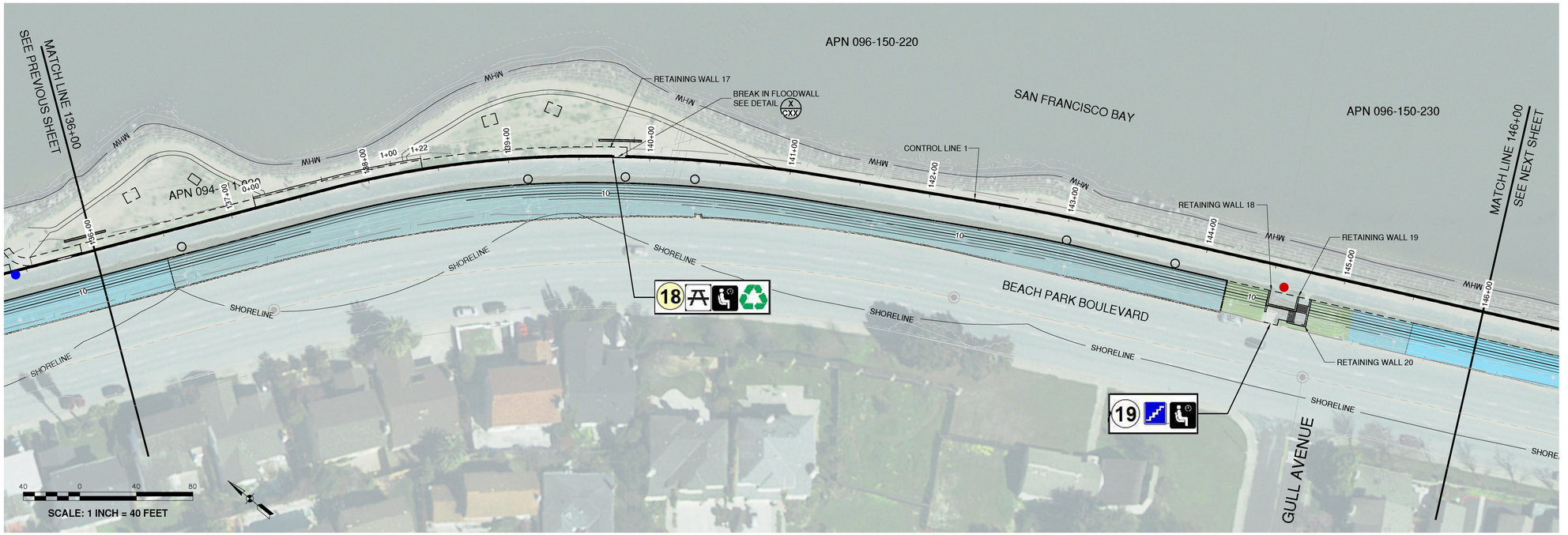
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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

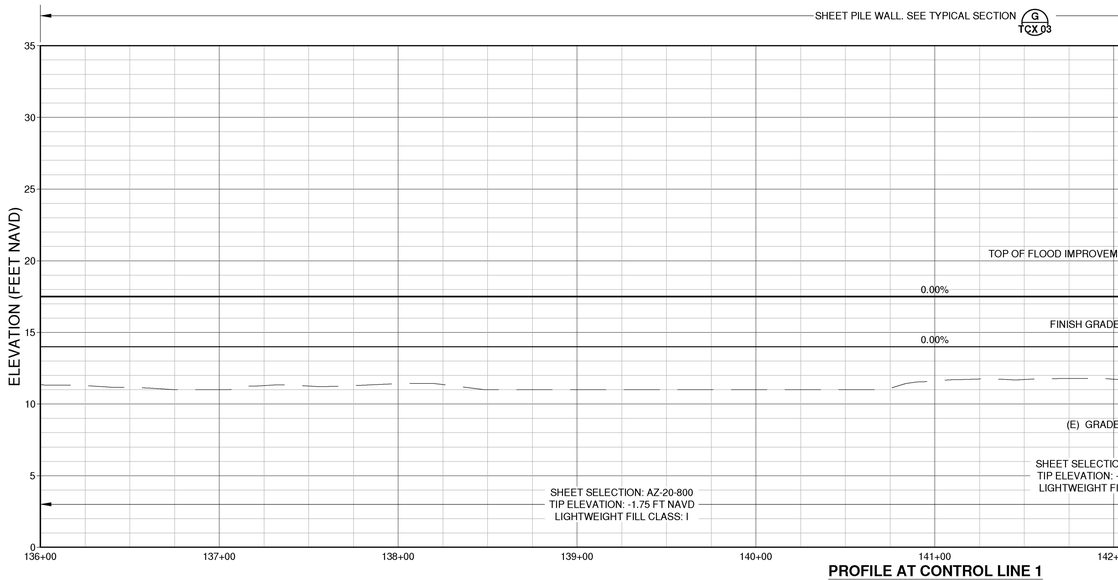


TYPICAL SECTION G
SCALE: 1 = 5'

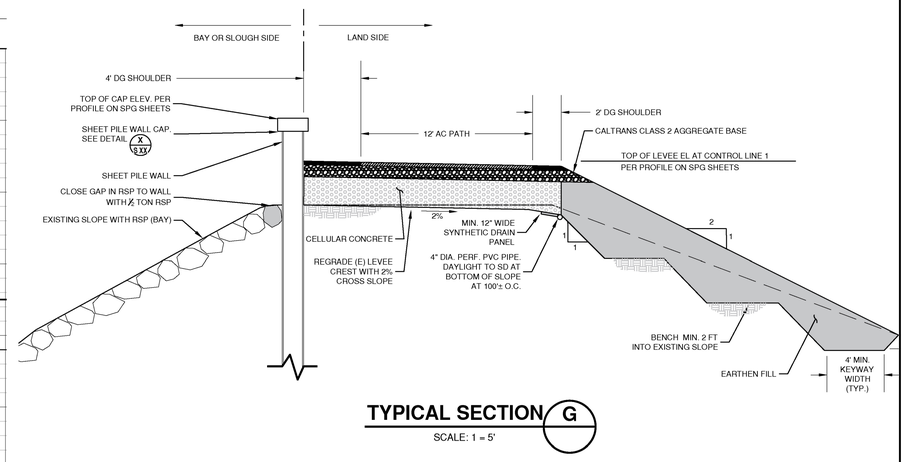


LEGEND

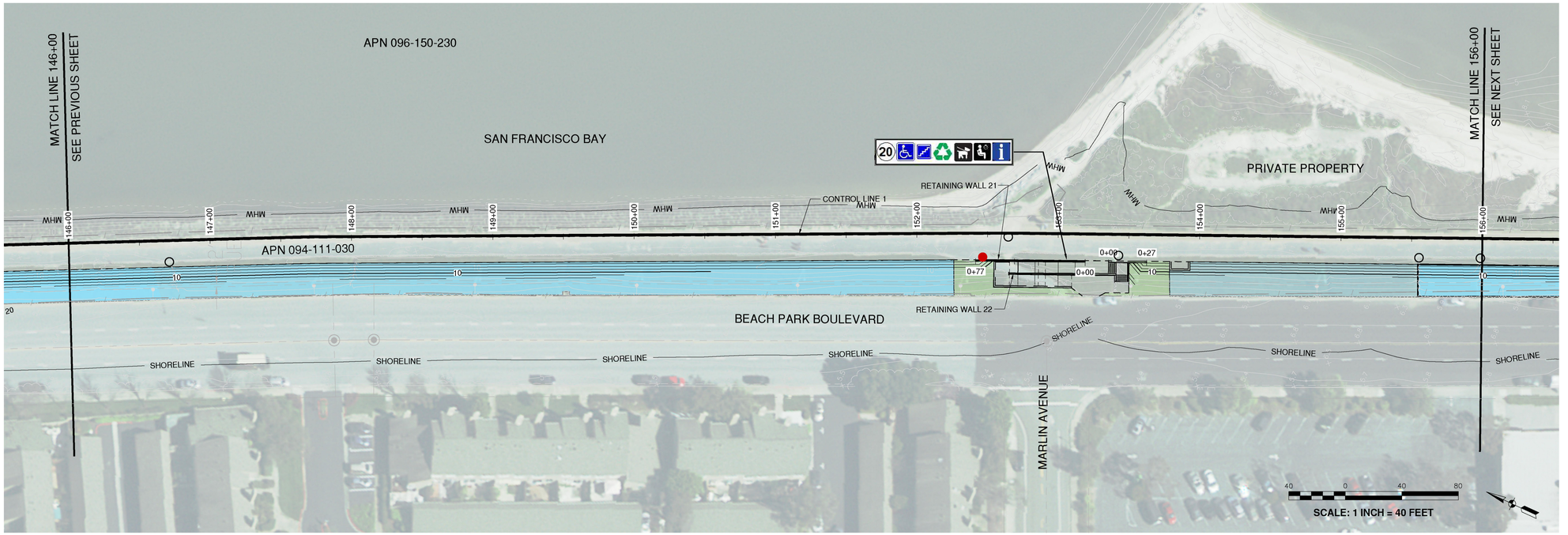
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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

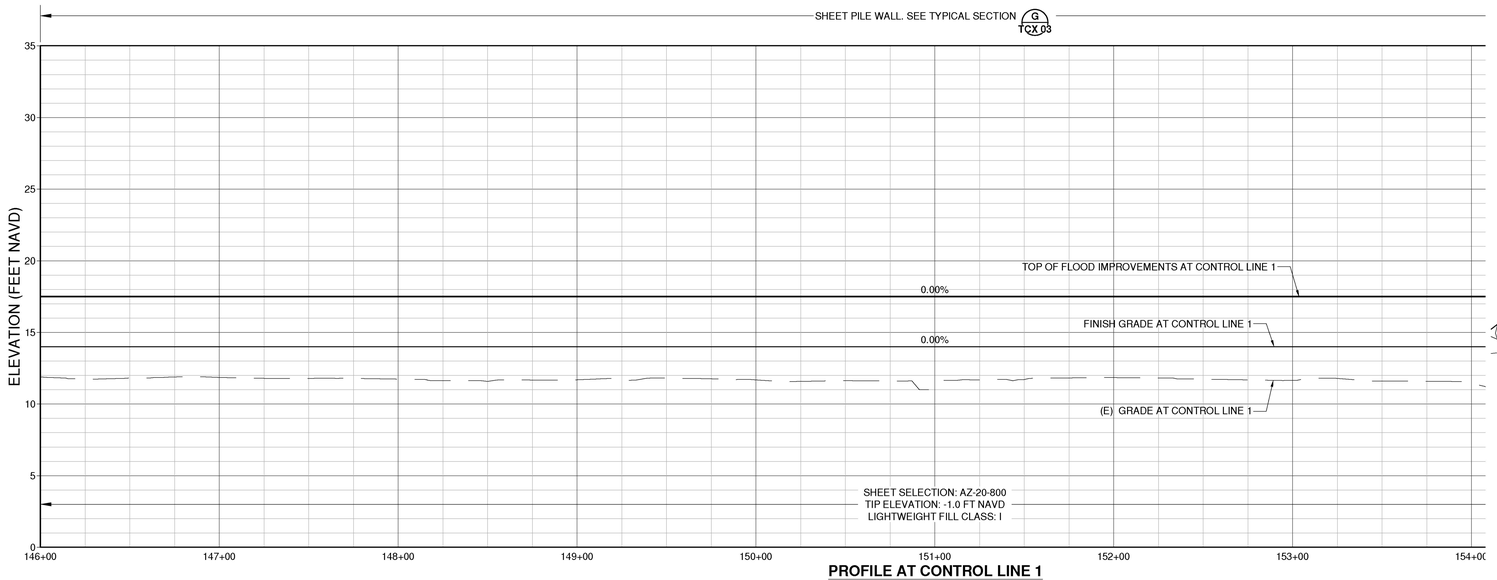


TYPICAL SECTION G
SCALE: 1 = 5'

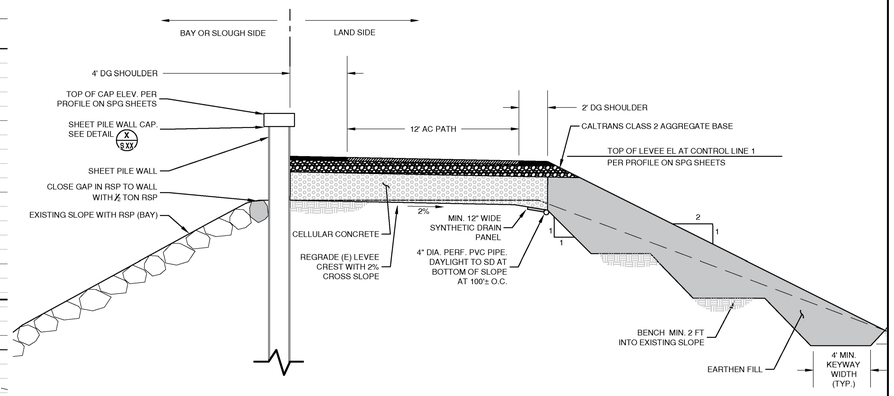


LEGEND

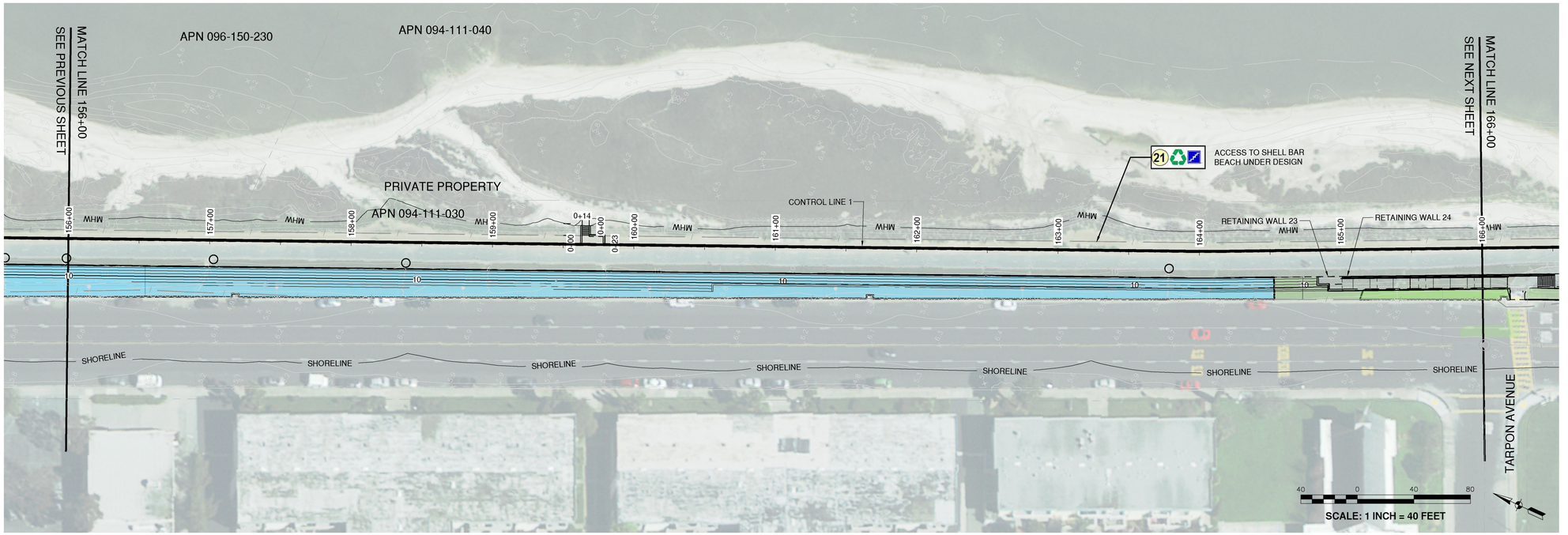
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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

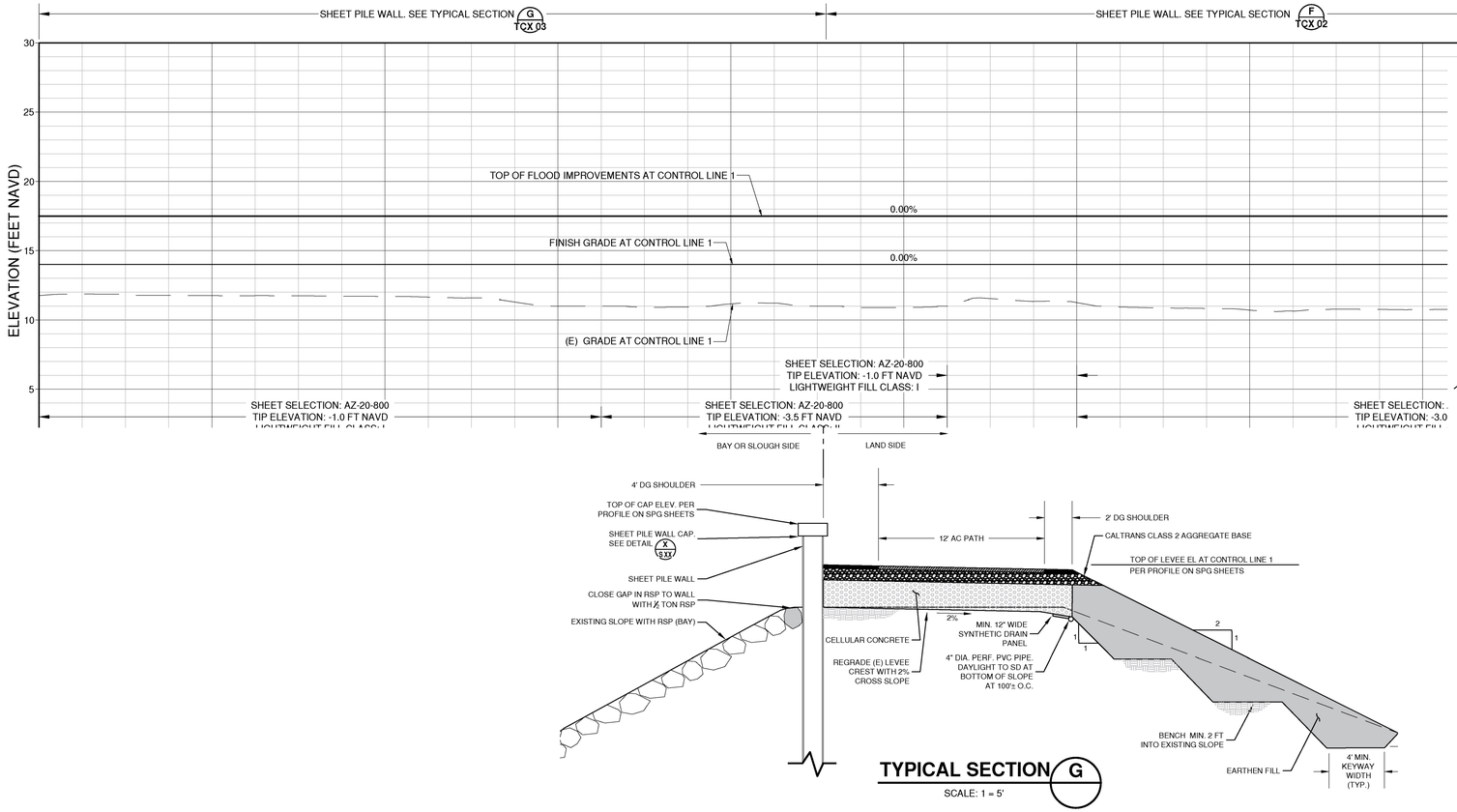


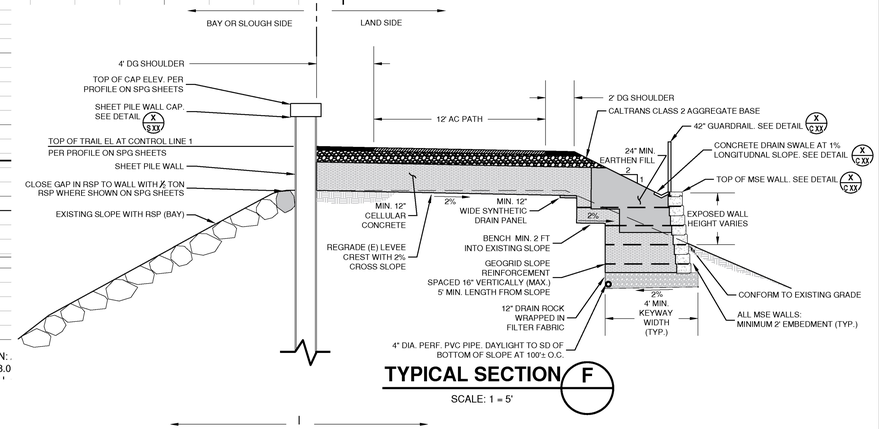
TYPICAL SECTION G
SCALE: 1 = 5'



LEGEND

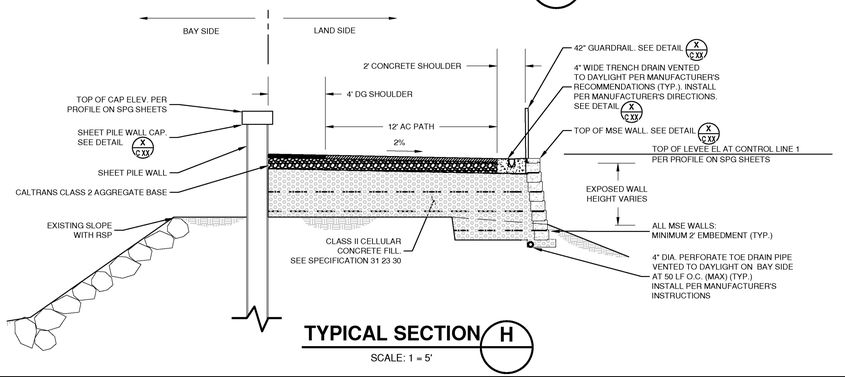
- *ICE PLANT*
- *NATIVE PLANTING*
- *CONTAINER PLANTING*
- *OTHER PLANTING*
- —MHW— *MEAN HIGH WATER LINE*
- —SHORELINE— *BCDC SHORELINE BAND*
- *FLOODWALL*
- **ADA Accessible Ramp**
- **Stairs**
- **Bench**
- **Bike Rack**
- **Bicycle Repair Station**
- **Pet Litter Station**
- **Picnic Table**
- **Trash Receptacle**
- **Boat Access Ramp**
- **Public Parking**
- **Information Kiosk**
- **(P) Trail Acess Point**
- **(P) Bay Access Point**
- **(E) Trail Acess Point**
- **(E) Bay Access Point**
- **(E) Ad Hoc Access**



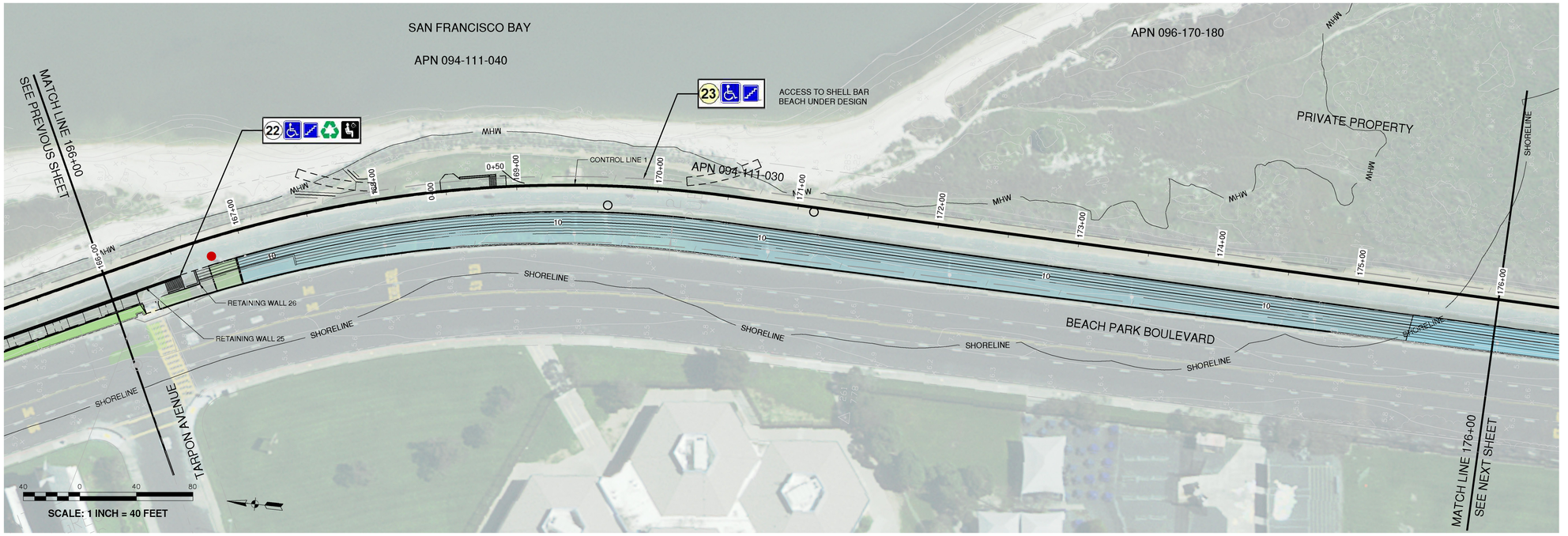


TYPICAL SECTION F
SCALE: 1 = 5'

TYPICAL SECTION G
SCALE: 1 = 5'

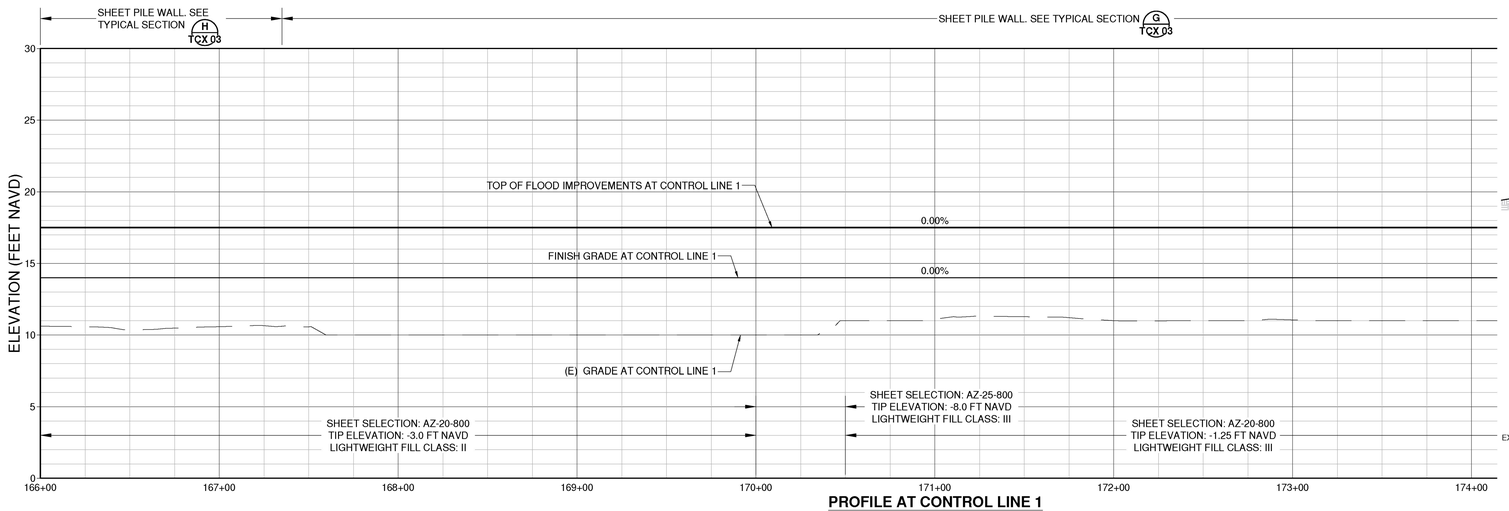


TYPICAL SECTION H
SCALE: 1 = 5'

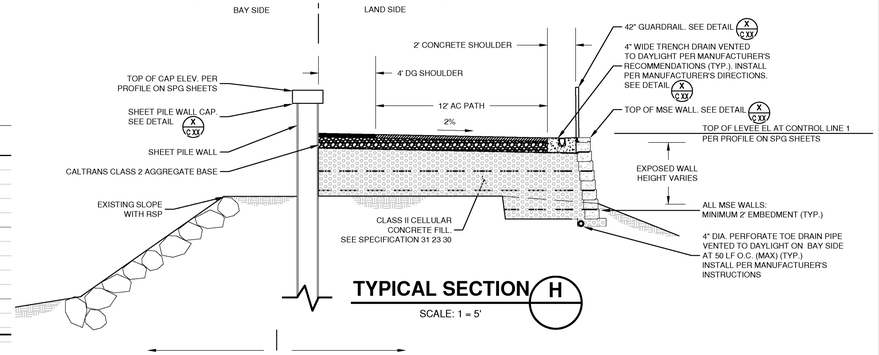


LEGEND

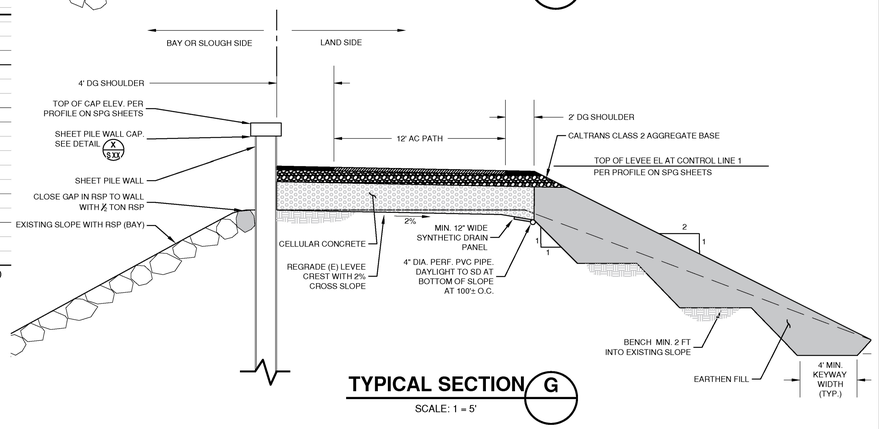
- *ICE PLANT*
- *NATIVE PLANTING*
- *CONTAINER PLANTING*
- *OTHER PLANTING*
- —MHW— *MEAN HIGH WATER LINE*
- —SHORELINE— *BCDC SHORELINE BAND*
- *FLOODWALL*
- **ADA Accessible Ramp**
- **Stairs**
- **Bench**
- **Bike Rack**
- **Bicycle Repair Station**
- **Pet Litter Station**
- **Picnic Table**
- **Trash Receptacle**
- **Boat Access Ramp**
- **Public Parking**
- **Information Kiosk**
- **(P) Trail Acess Point**
- **(P) Bay Access Point**
- **(E) Trail Acess Point**
- **(E) Bay Access Point**
- **(E) Ad Hoc Access**



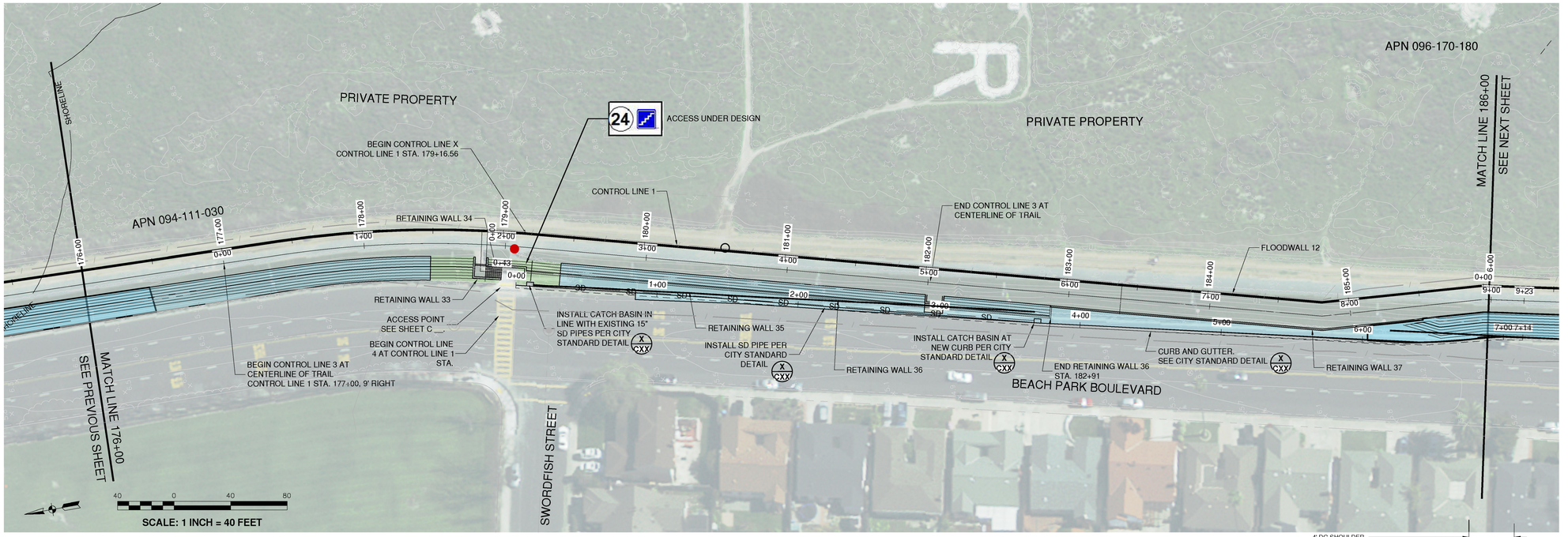
PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'

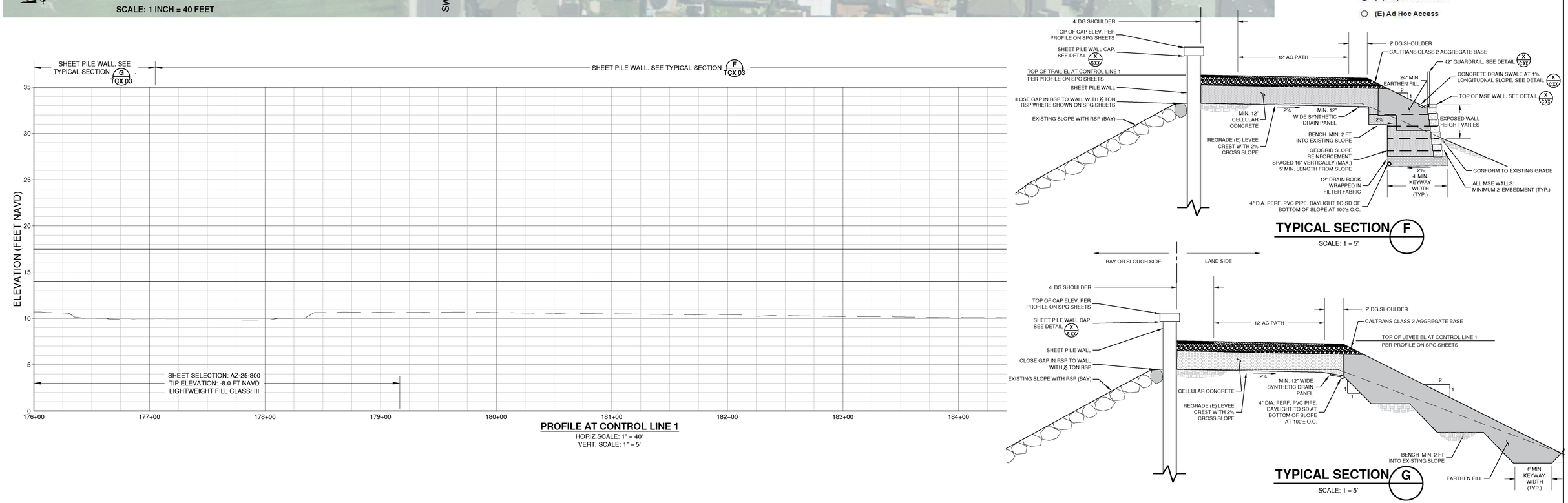


TYPICAL SECTION H
SCALE: 1 = 5'



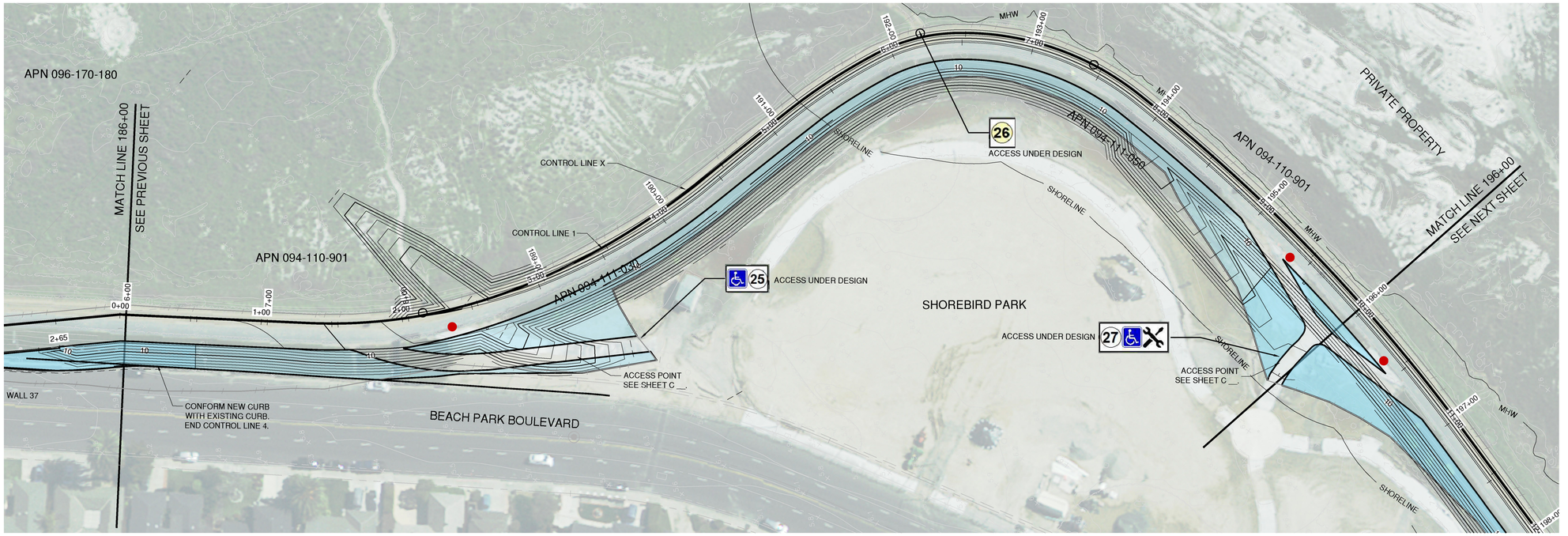
TYPICAL SECTION G
SCALE: 1 = 5'





LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access

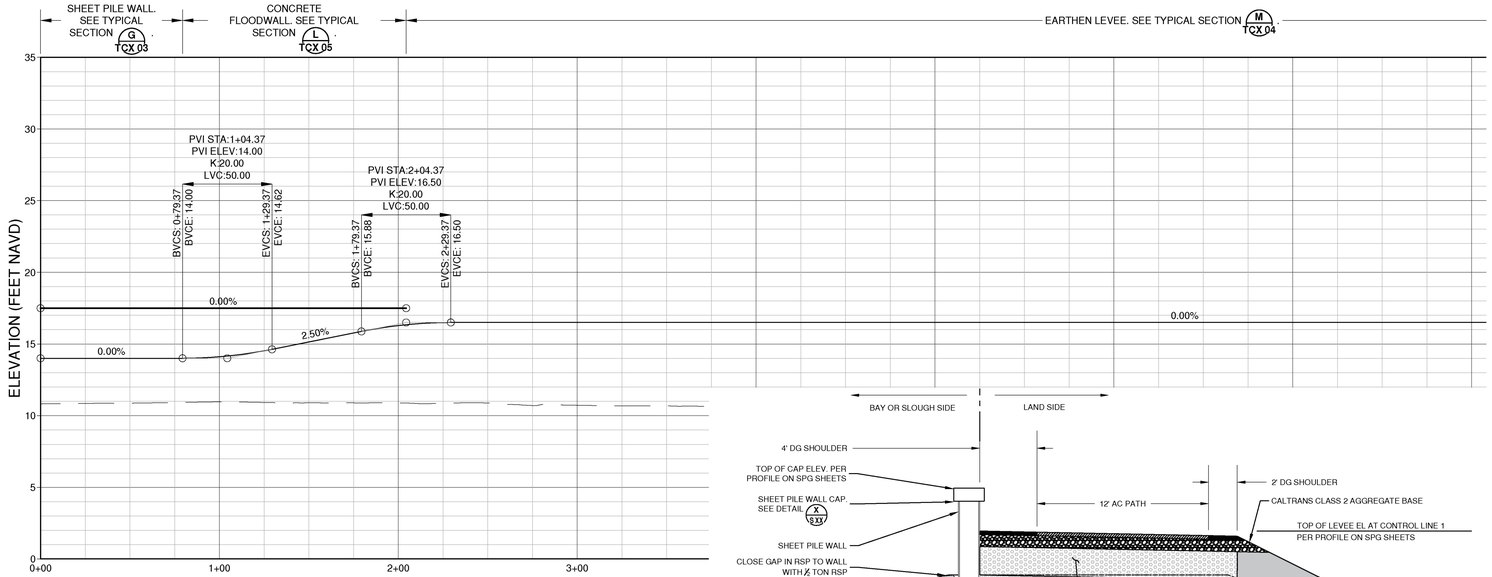


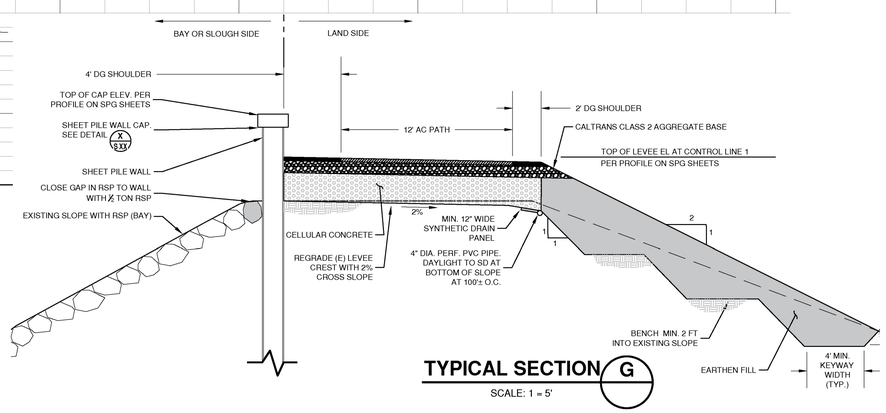
LEGEND

- *ICE PLANT*
- *NATIVE PLANTING*
- *CONTAINER PLANTING*
- *OTHER PLANTING*
- —MHW— *MEAN HIGH WATER LINE*
- —SHORELINE— *BCDC SHORELINE BAND*
- *FLOODWALL*
- **ADA Accessible Ramp**
- **Stairs**
- **Bench**
- **Bike Rack**
- **Bicycle Repair Station**
- **Pet Litter Station**
- **Picnic Table**
- **Trash Receptacle**
- **Boat Access Ramp**
- **Public Parking**
- **Information Kiosk**
- **(P) Trail Acess Point**
- **(P) Bay Access Point**
- **(E) Trail Acess Point**
- **(E) Bay Access Point**
- **(E) Ad Hoc Access**

40 0 40 80

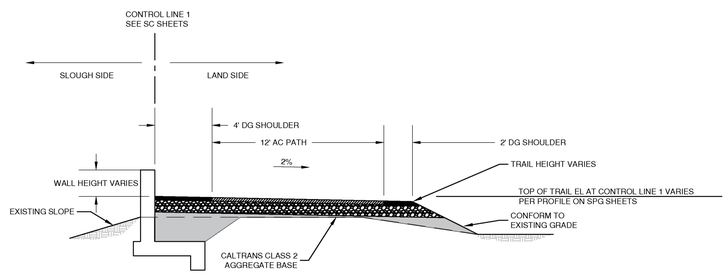
SCALE: 1 INCH = 40 FEET





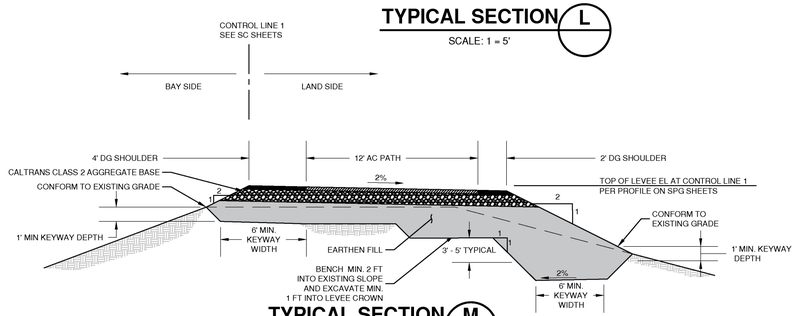
TYPICAL SECTION G

SCALE: 1 = 5'



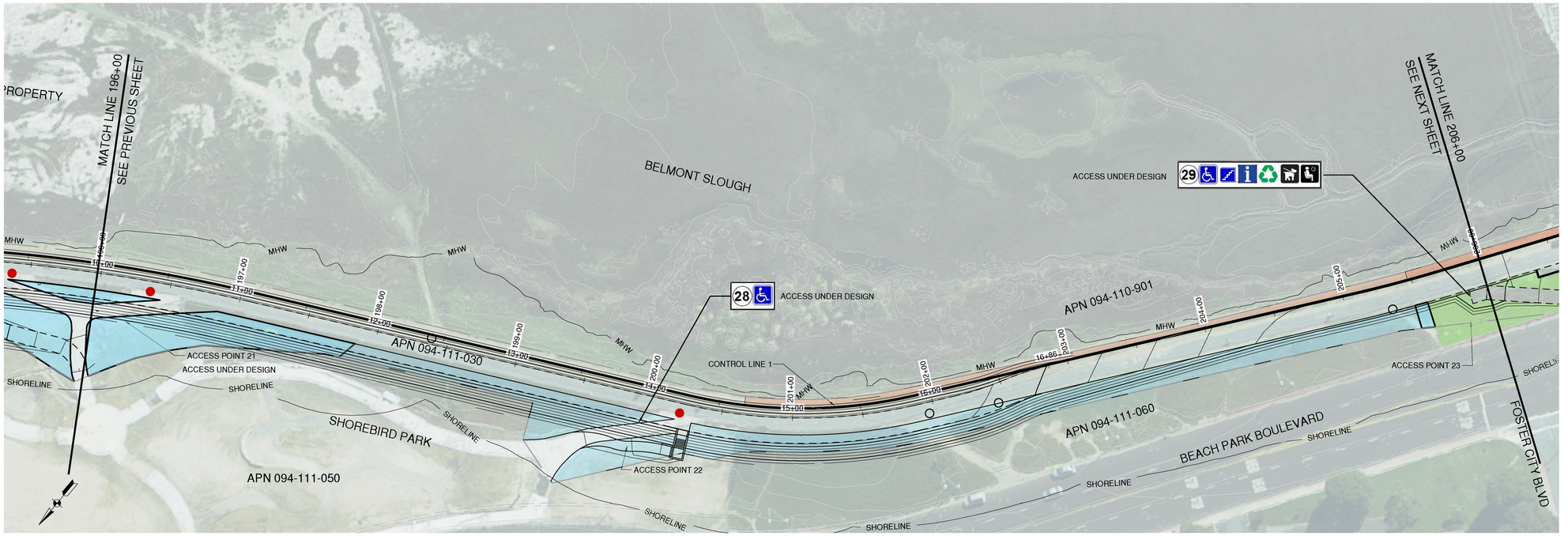
TYPICAL SECTION L

SCALE: 1 = 5'



TYPICAL SECTION M

SCALE: 1 = 5'

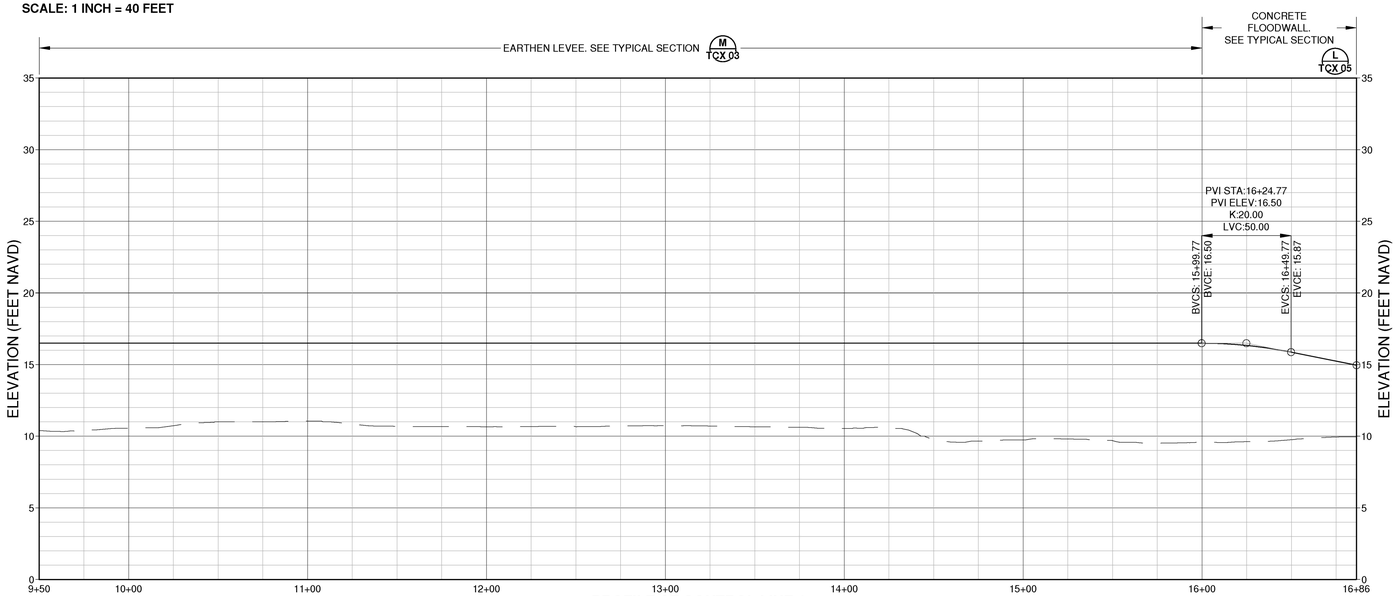


LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access

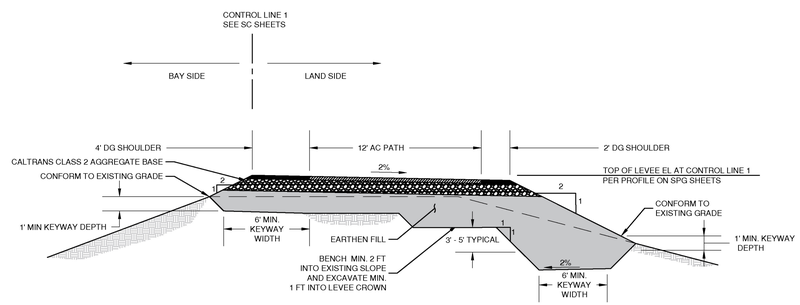
40 0 40 80

SCALE: 1 INCH = 40 FEET



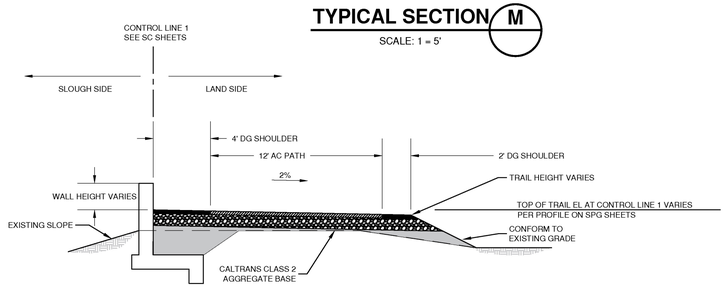
PROFILE AT CONTROL LINE 1

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



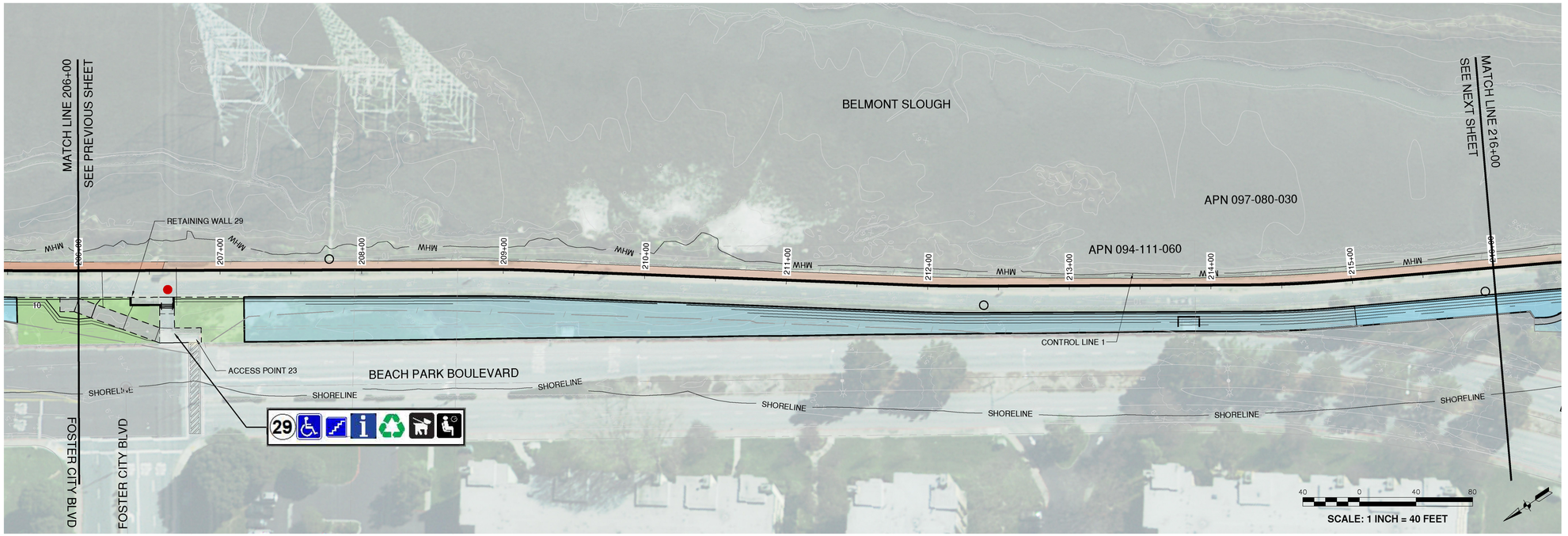
TYPICAL SECTION M

SCALE: 1 = 5'



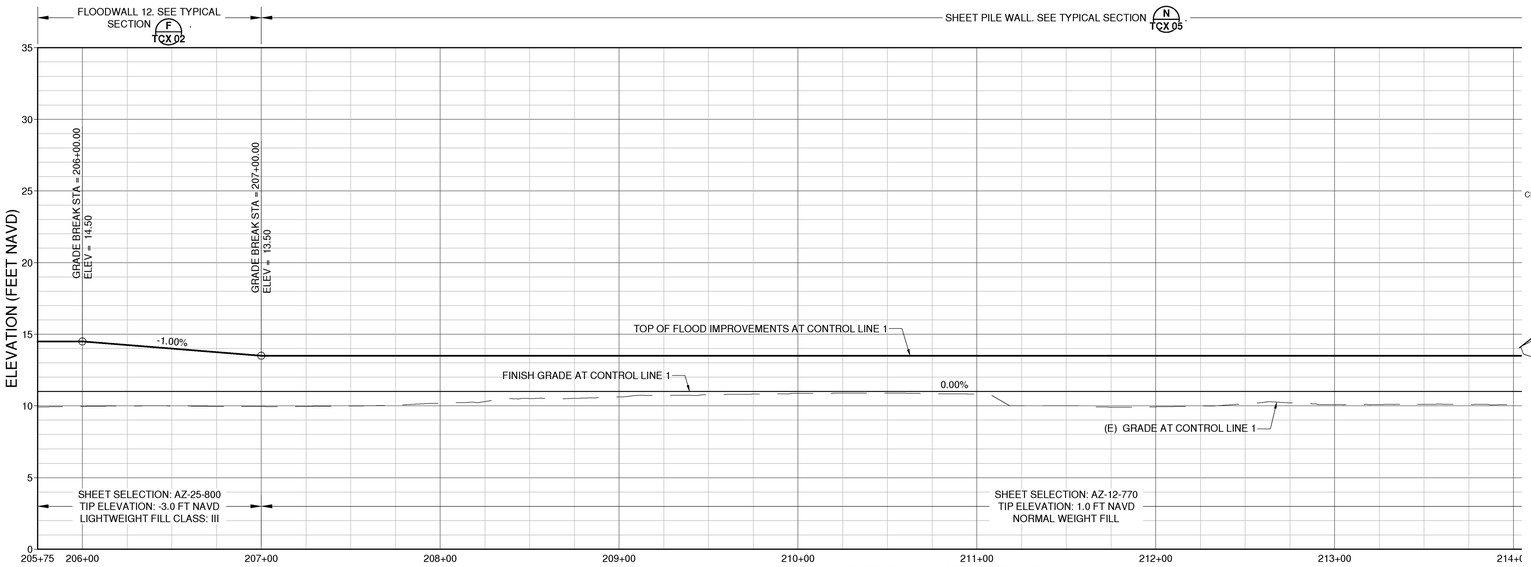
TYPICAL SECTION L

SCALE: 1 = 5'



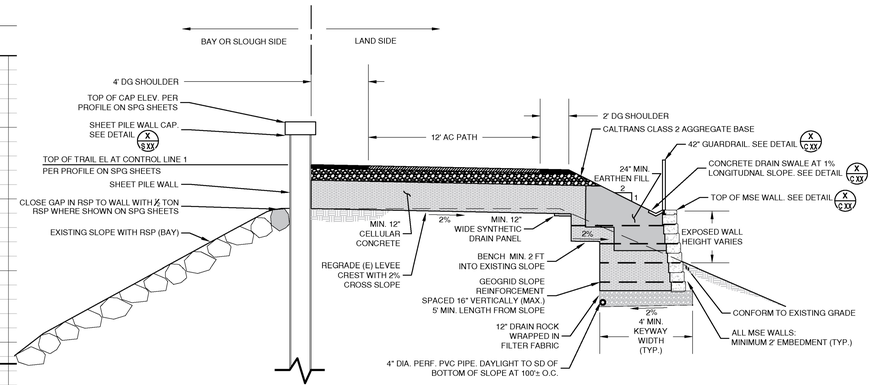
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



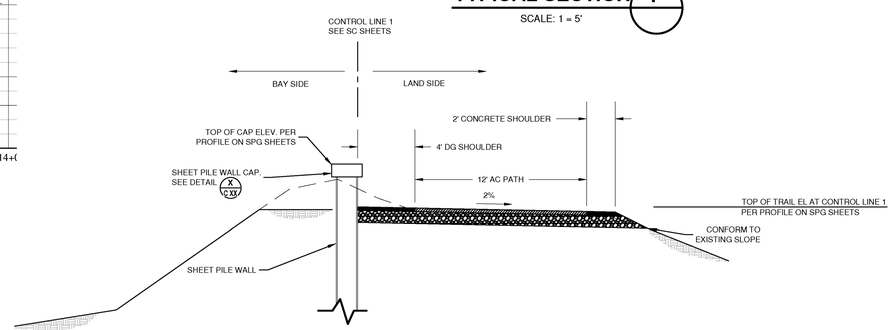
PROFILE AT CONTROL LINE 1

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



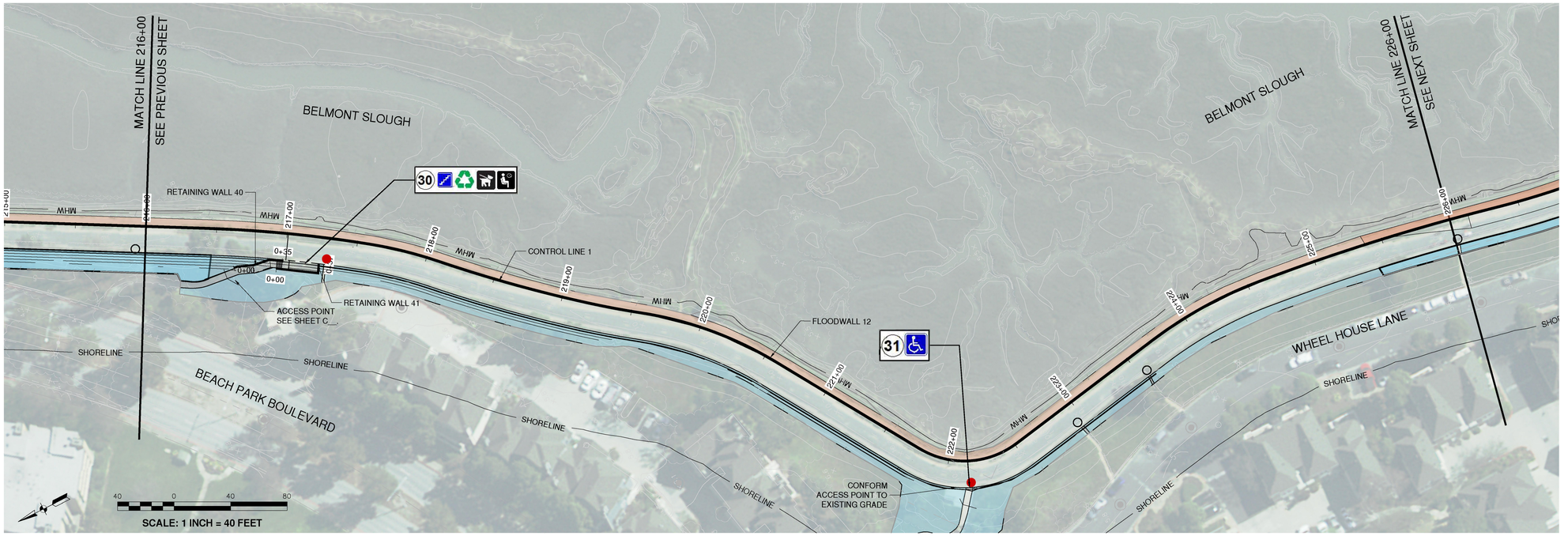
TYPICAL SECTION F

SCALE: 1 = 5'



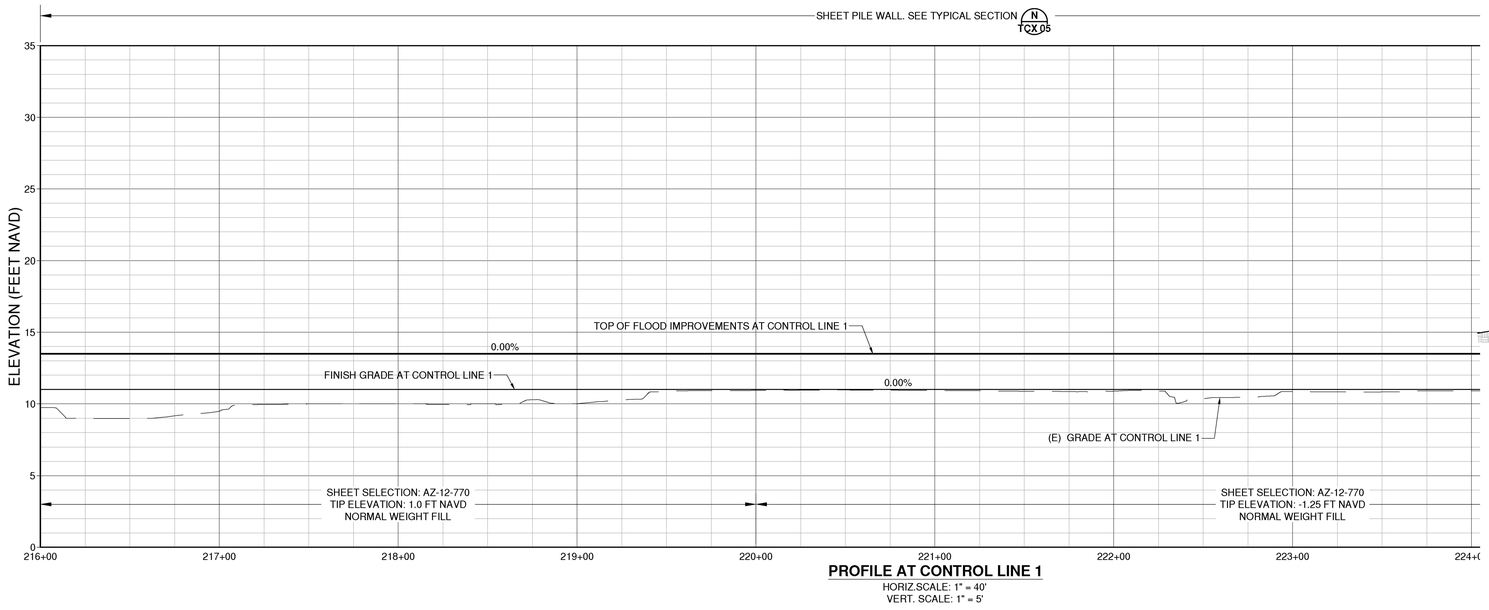
TYPICAL SECTION N

SCALE: 1 = 5'



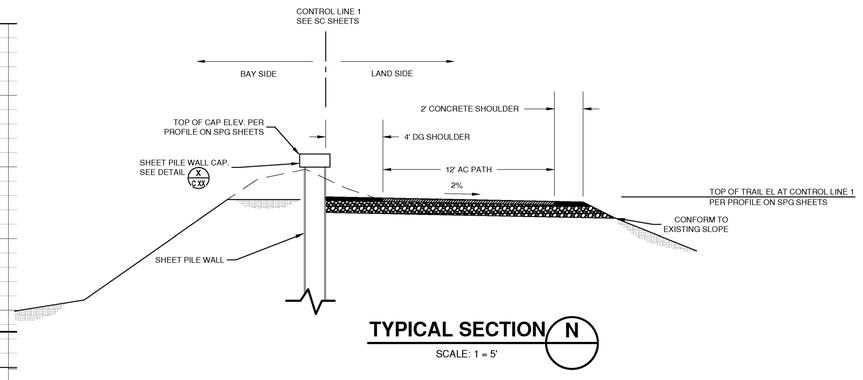
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



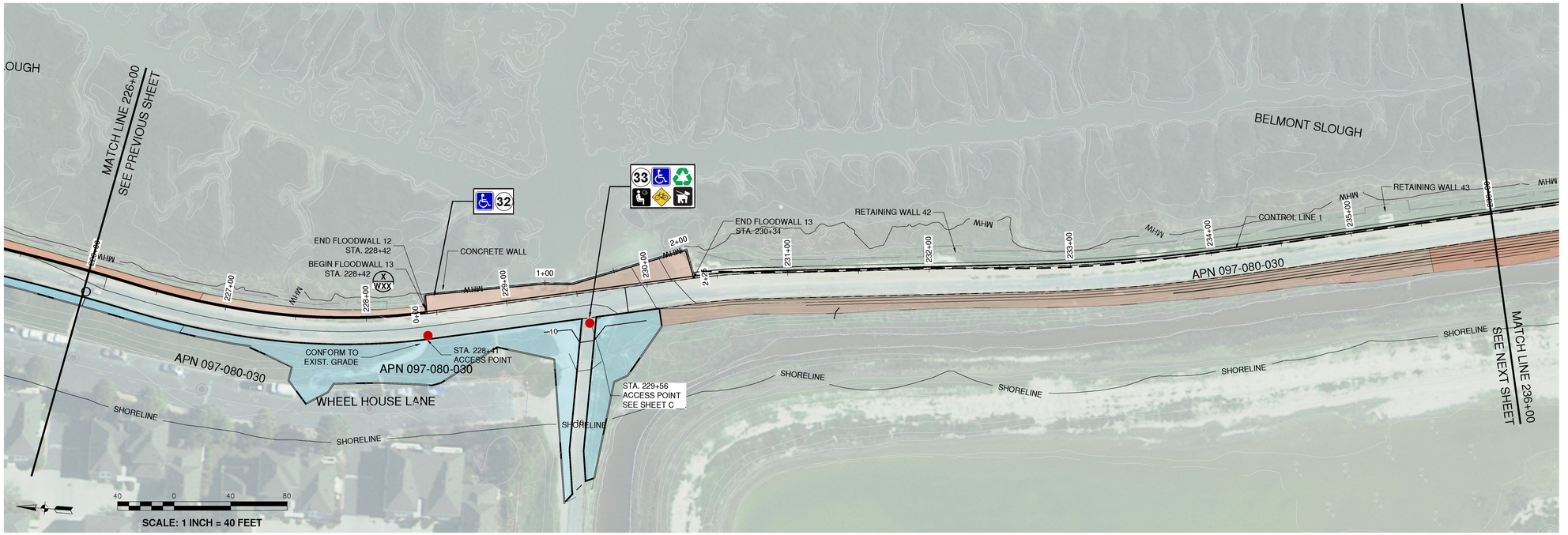
PROFILE AT CONTROL LINE 1

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



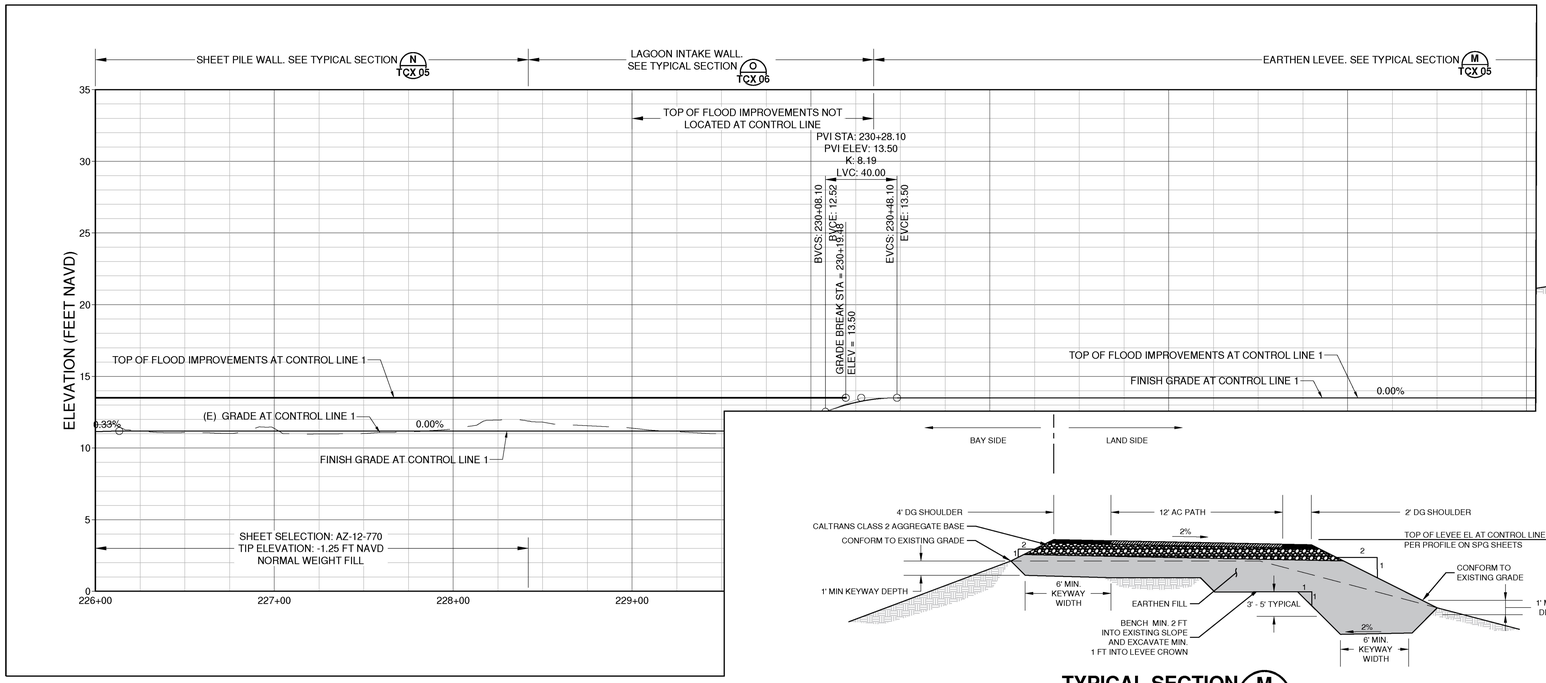
TYPICAL SECTION N

SCALE: 1 = 5'

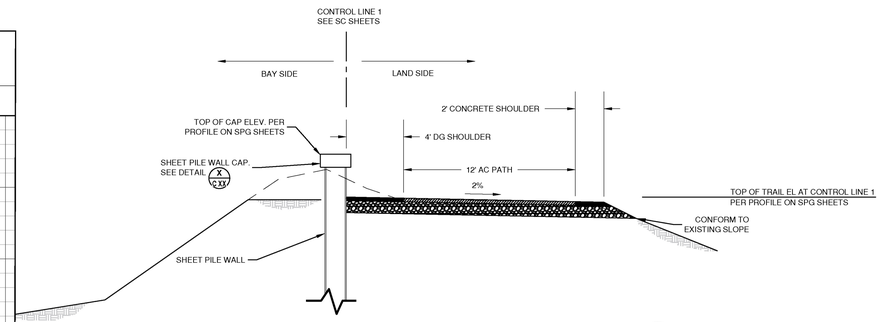


LEGEND

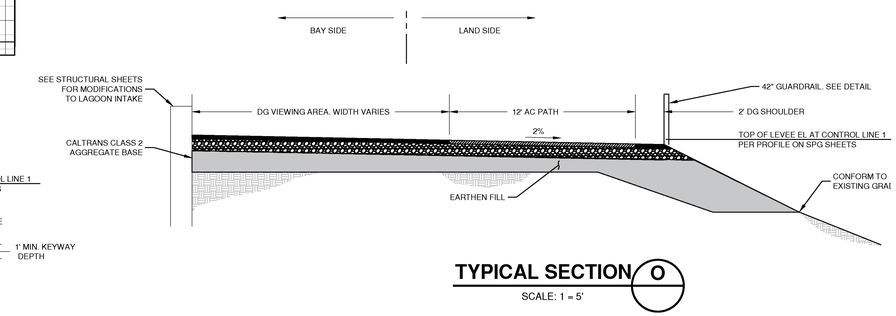
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



TYPICAL SECTION M
SCALE: 1 = 5'



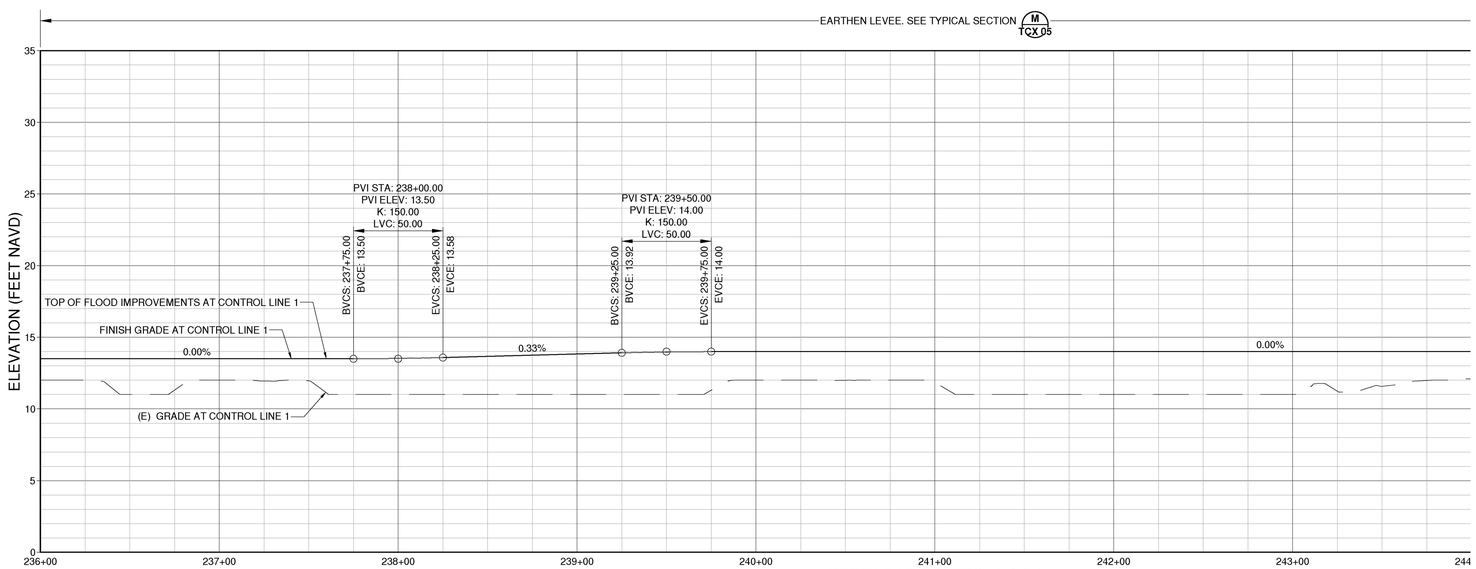
TYPICAL SECTION N
SCALE: 1 = 5'



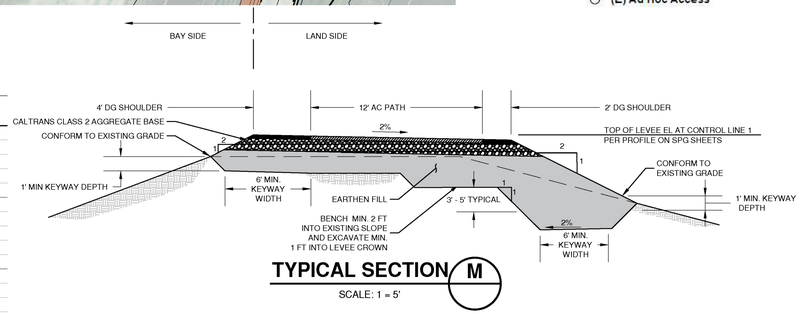
TYPICAL SECTION O
SCALE: 1 = 5'

LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



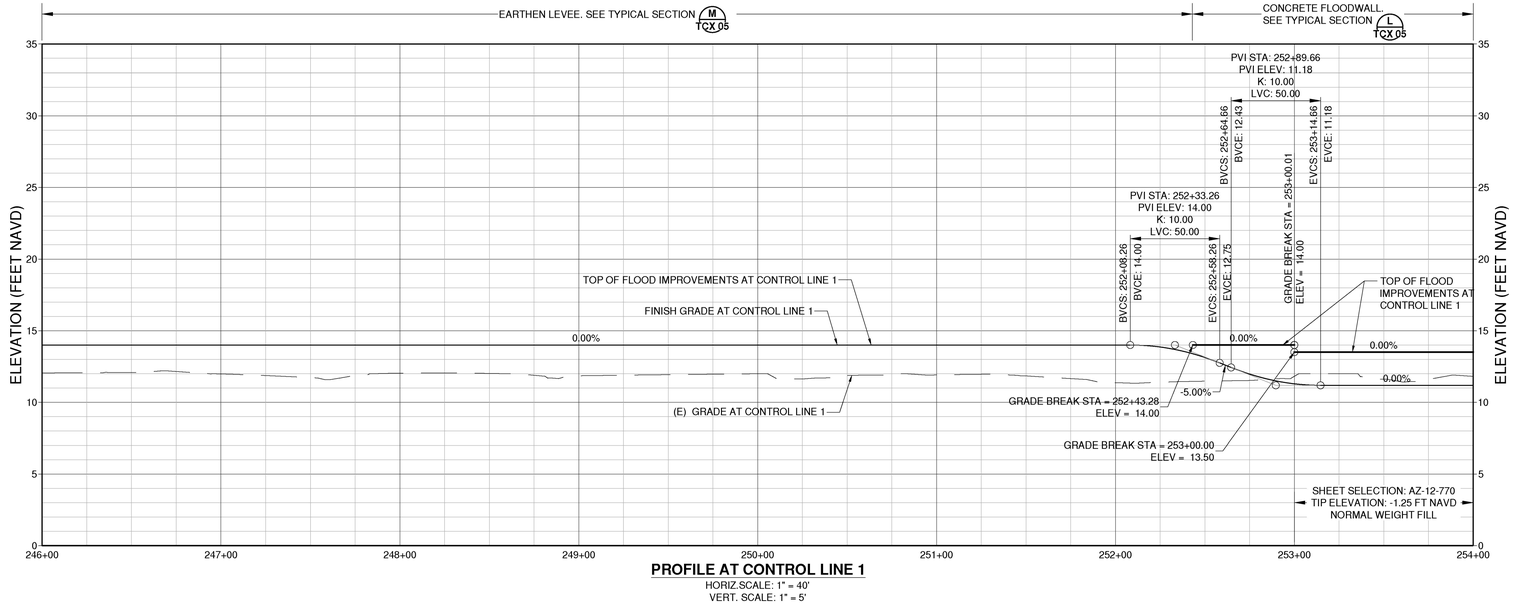
PROFILE AT CONTROL LINE 1
HORIZ.SCALE: 1" = 40'
VERT. SCALE: 1" = 5'



TYPICAL SECTION M
SCALE: 1 = 5'

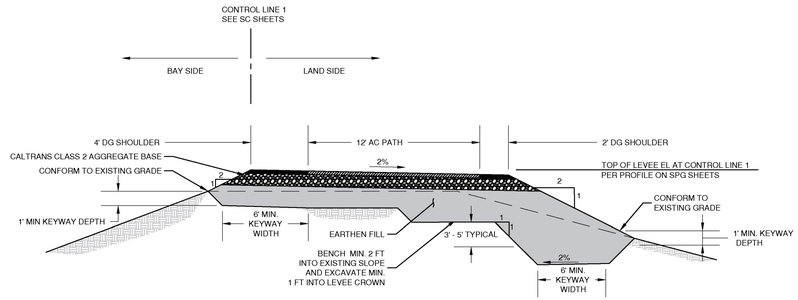
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



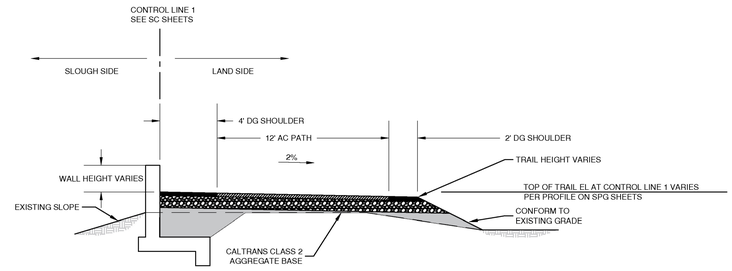
PROFILE AT CONTROL LINE 1

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



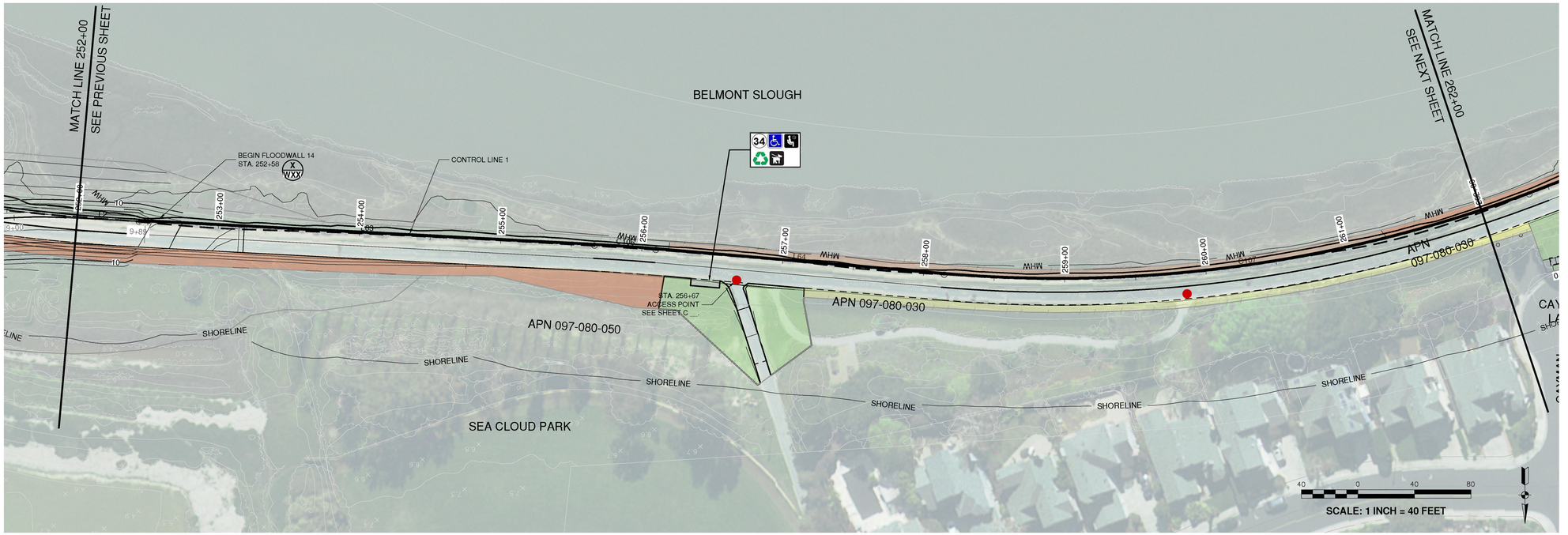
TYPICAL SECTION M

SCALE: 1 = 5'



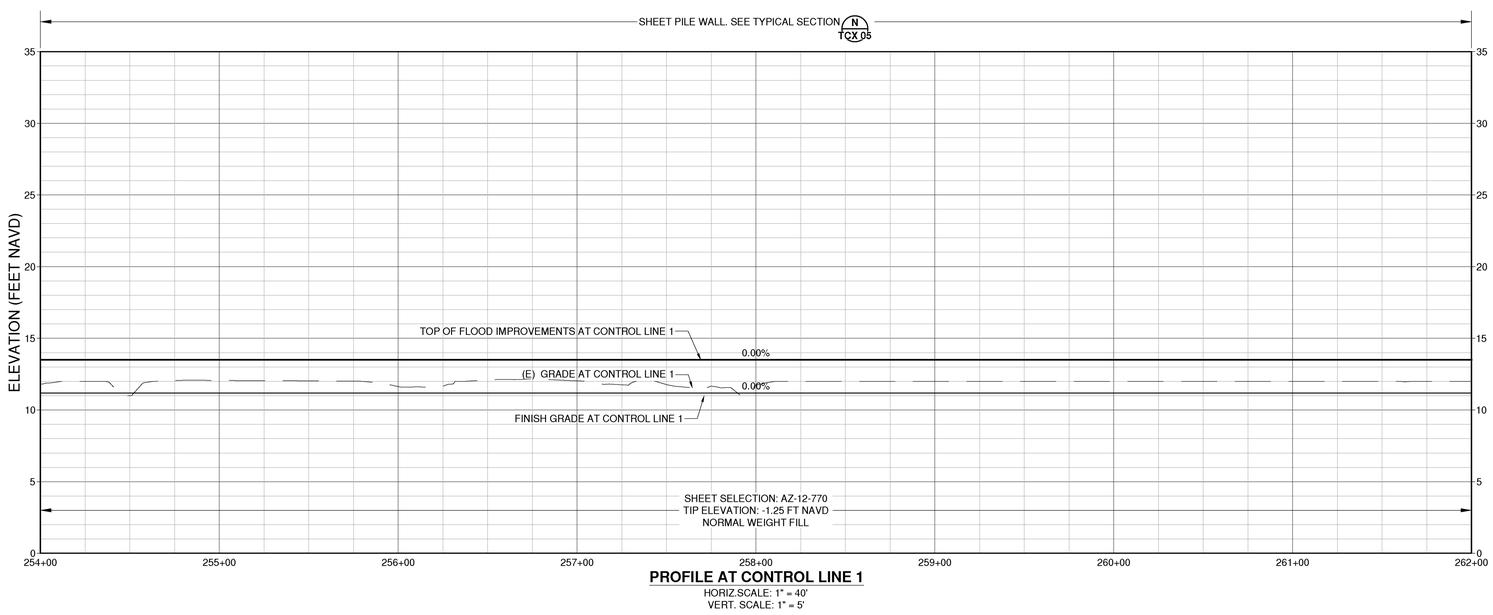
TYPICAL SECTION L

SCALE: 1 = 5'



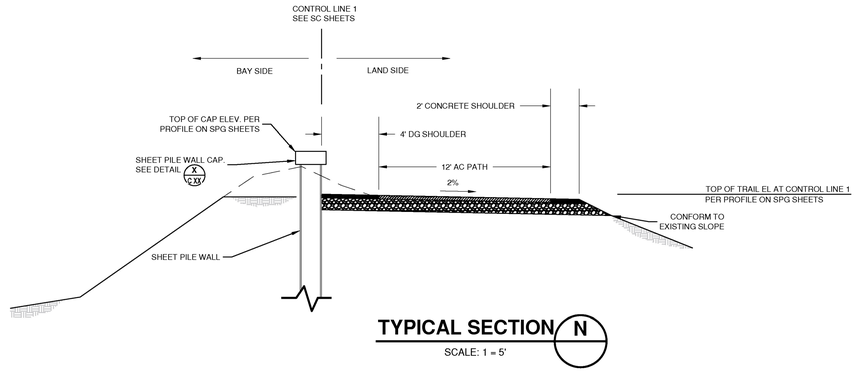
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



PROFILE AT CONTROL LINE 1

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

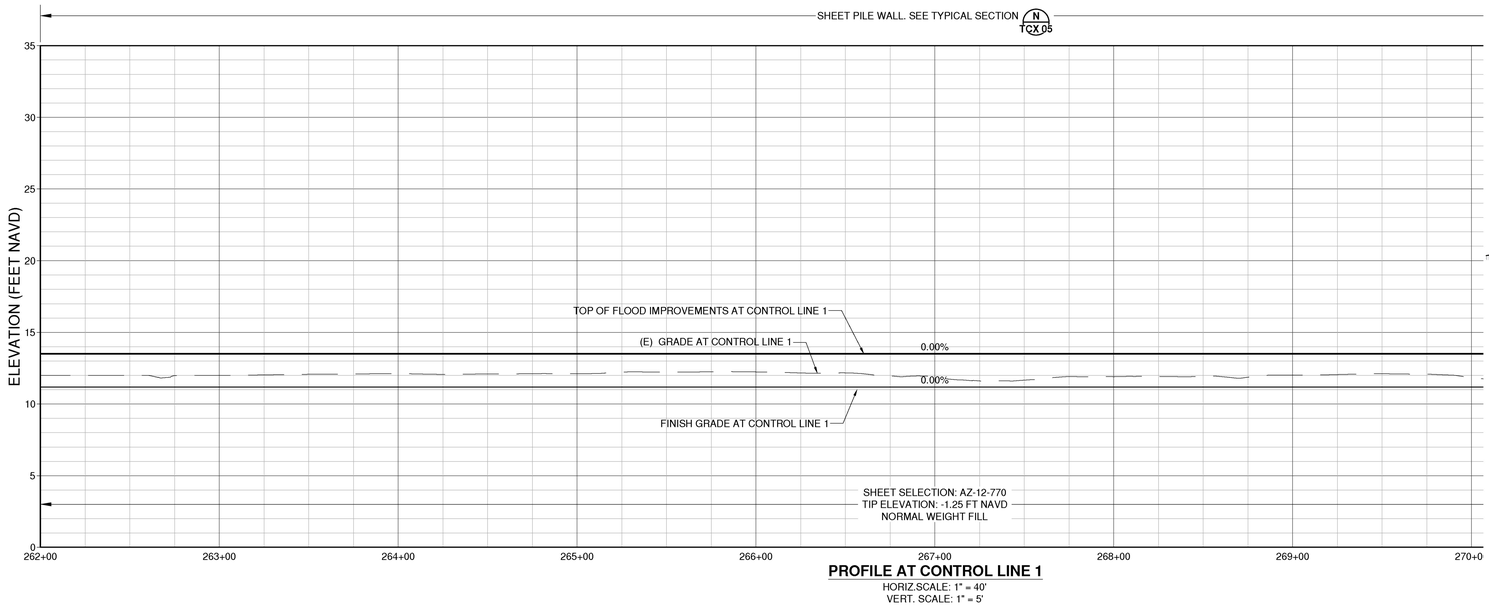


TYPICAL SECTION N

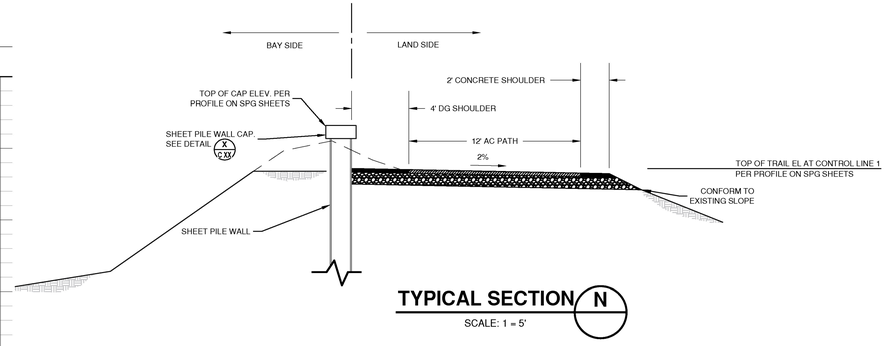
SCALE: 1 = 5'

LEGEND

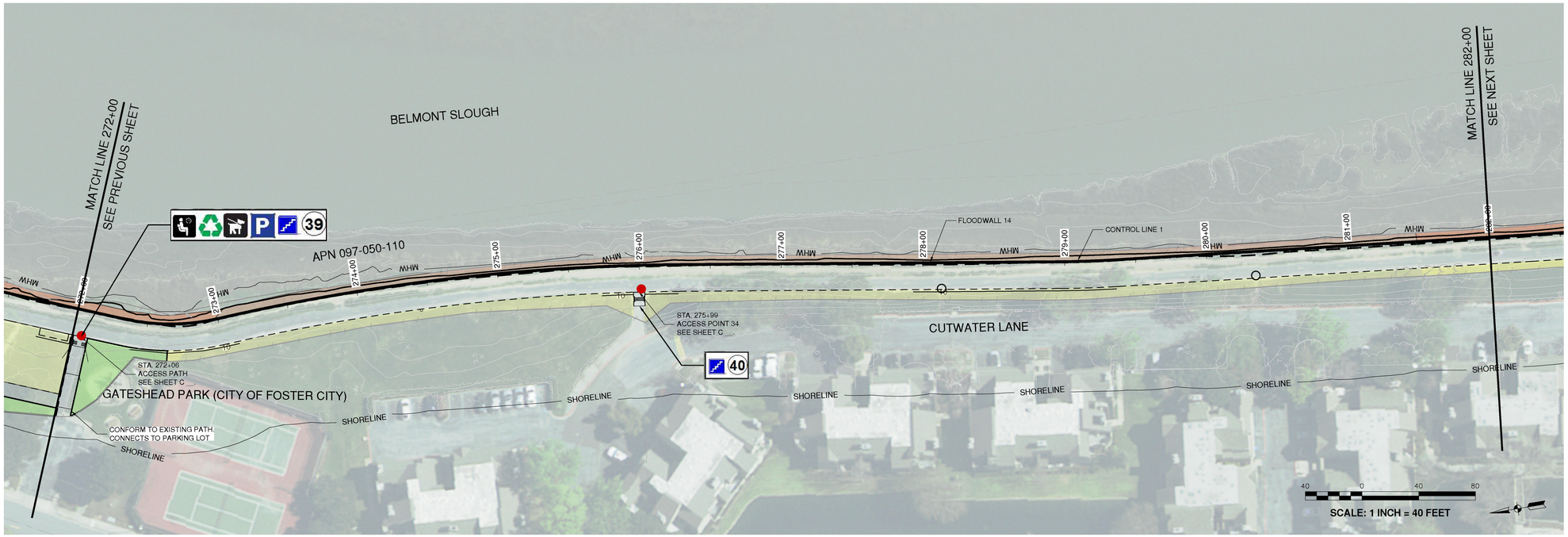
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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

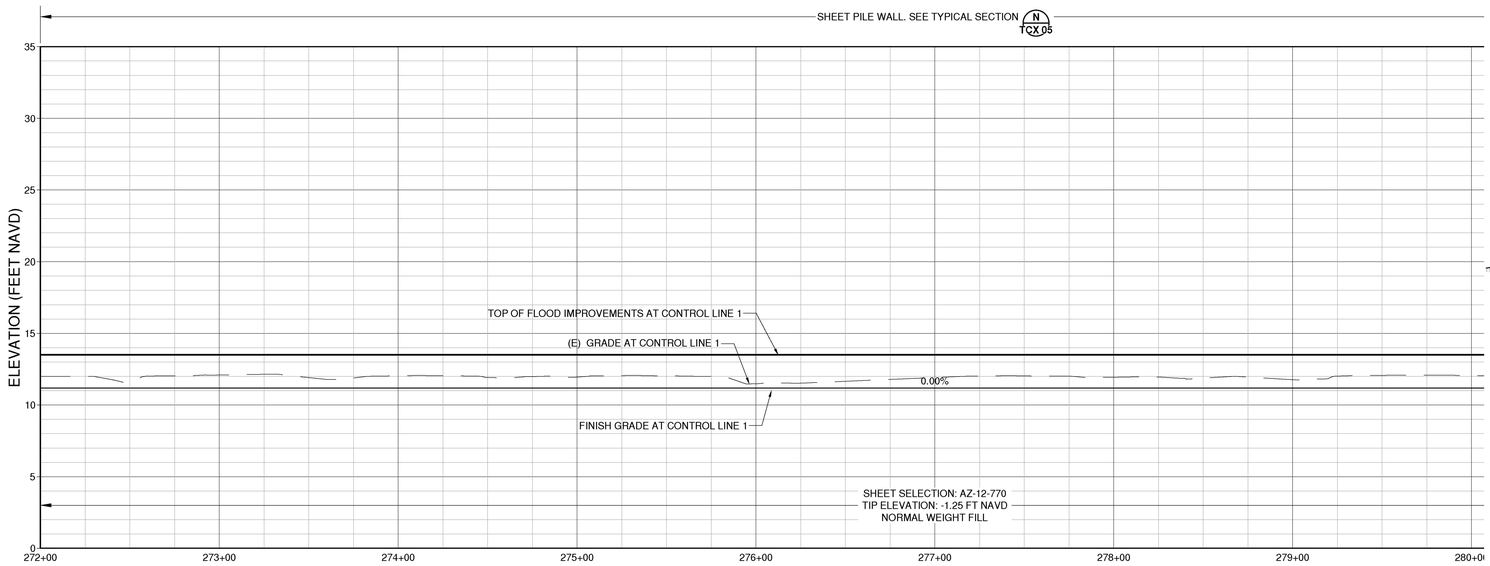


TYPICAL SECTION N
SCALE: 1 = 5'



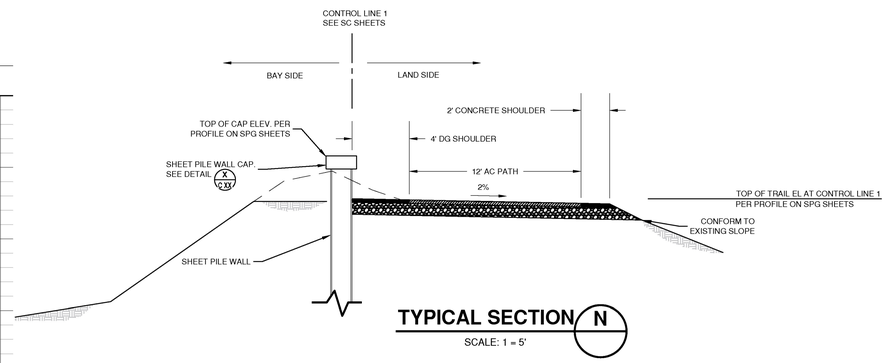
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



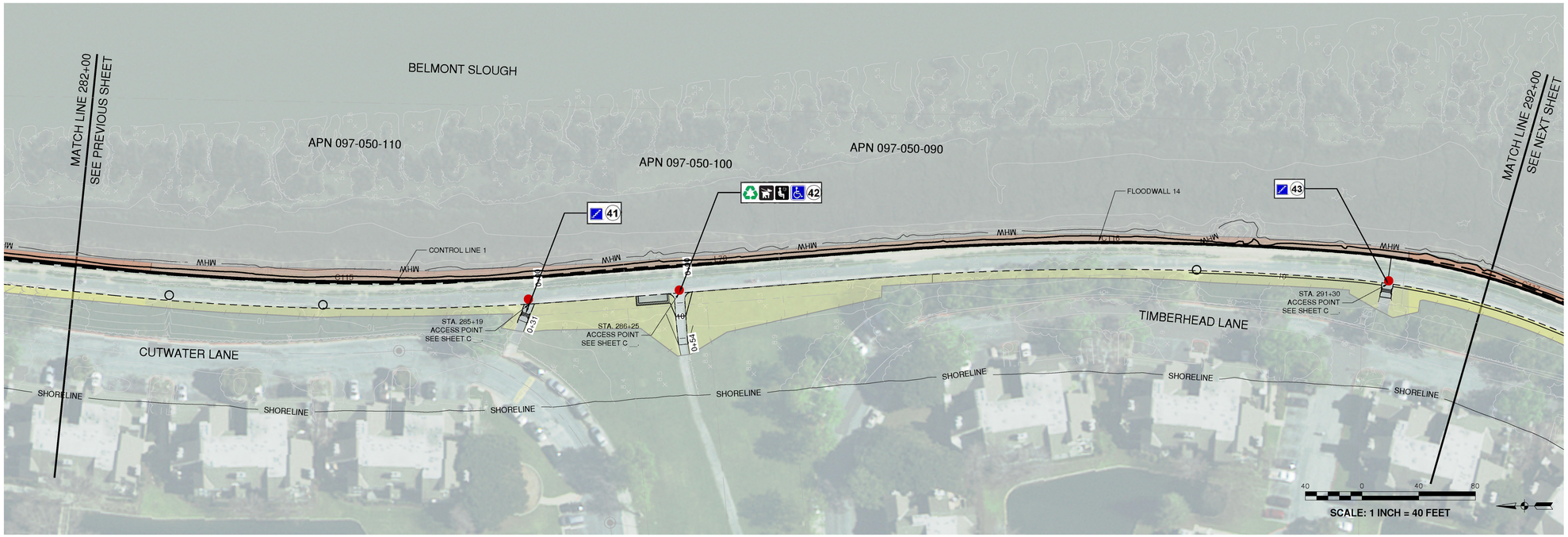
PROFILE AT CONTROL LINE 1

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



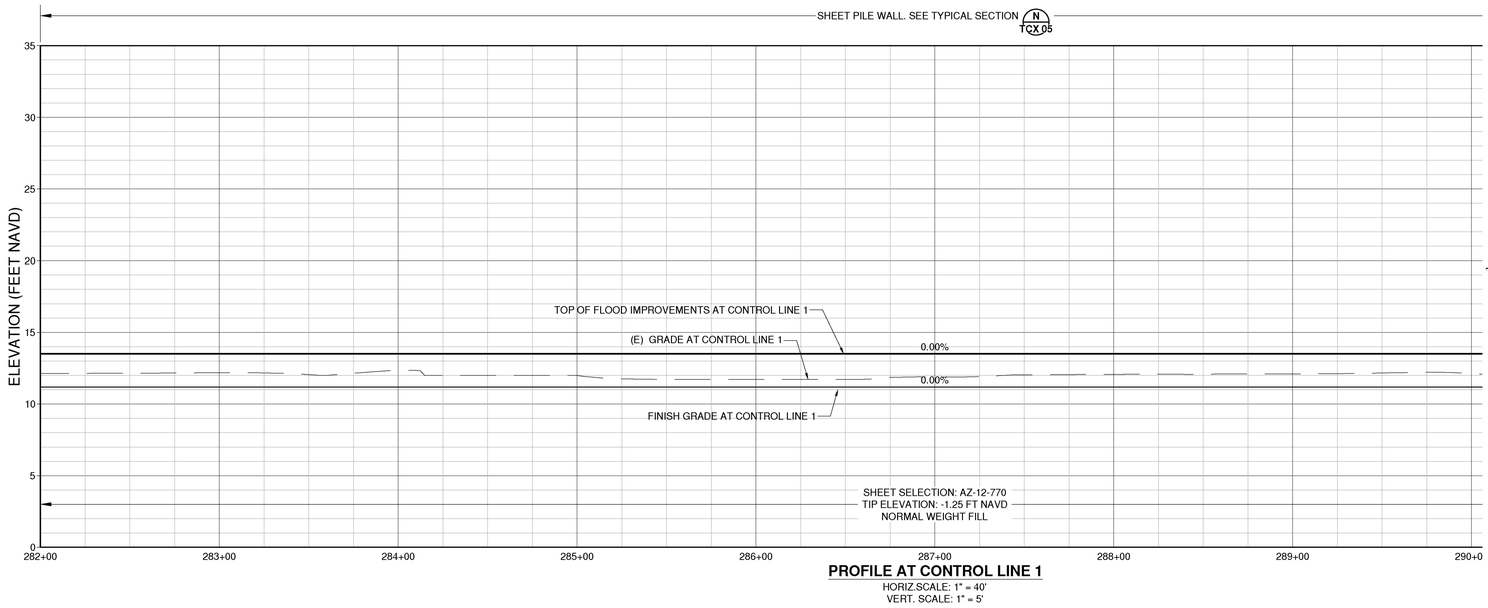
TYPICAL SECTION N

SCALE: 1 = 5'

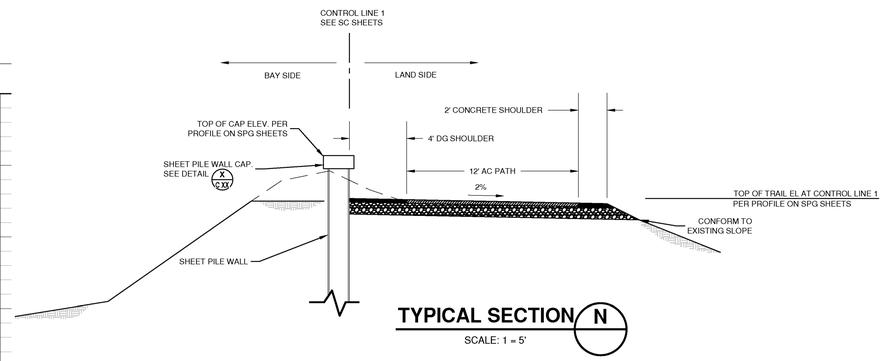


LEGEND

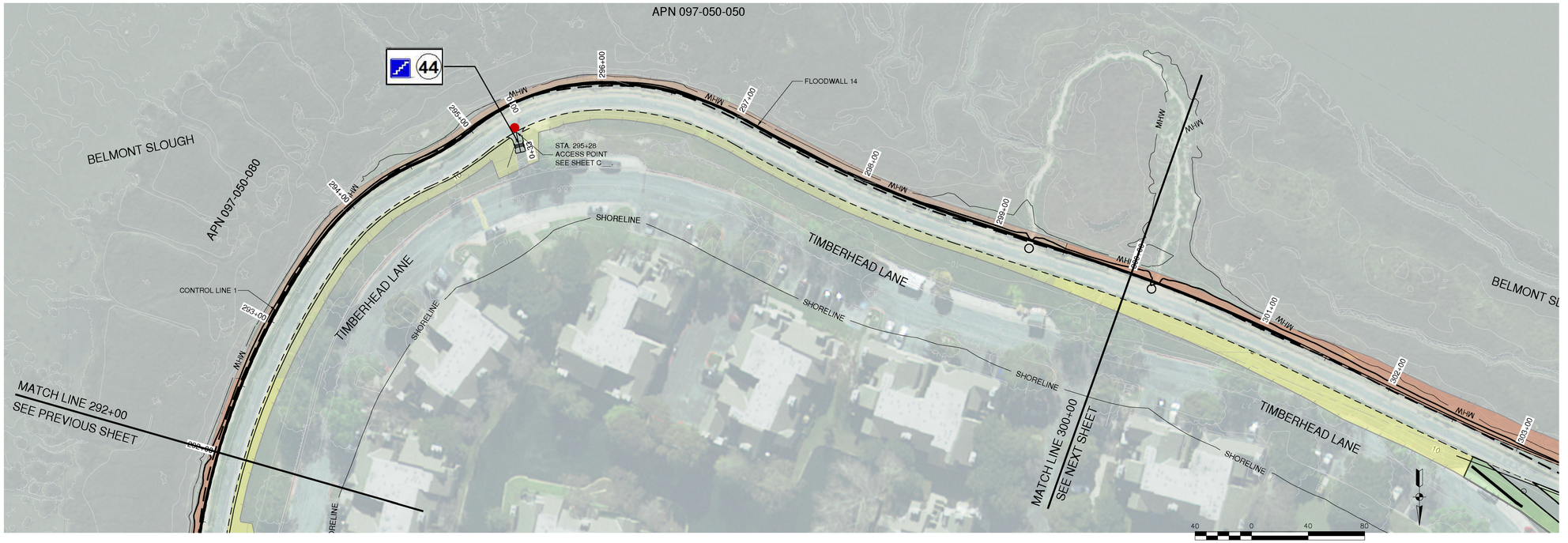
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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



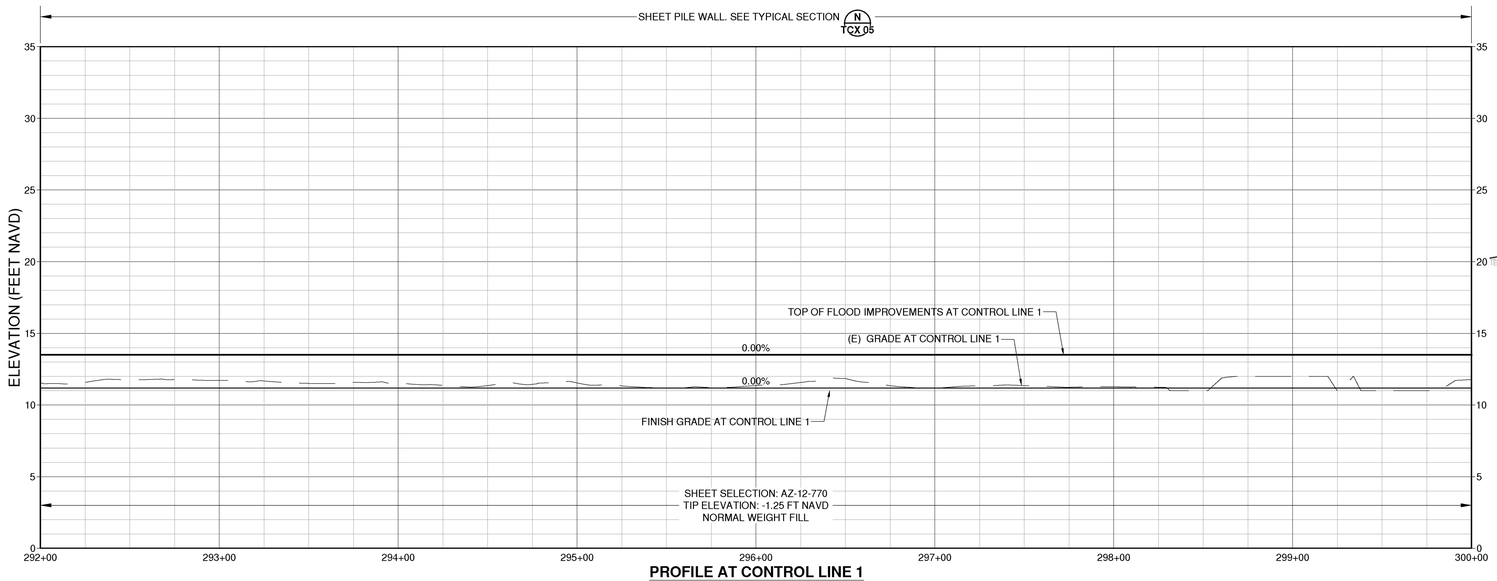
TYPICAL SECTION N
SCALE: 1 = 5'



SCALE: 1 INCH = 40 FEET

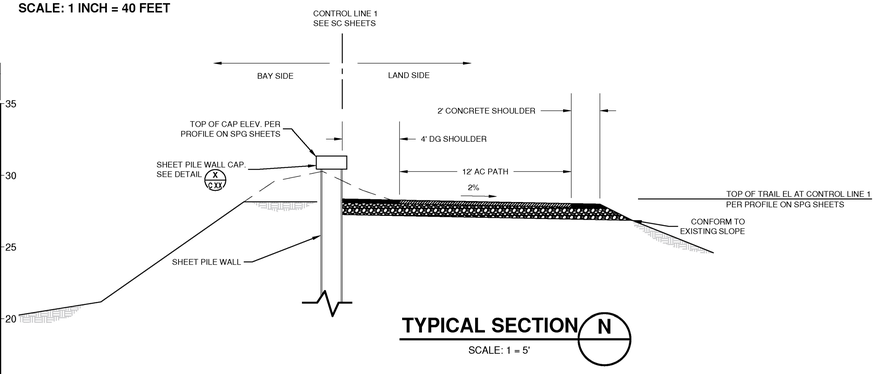
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



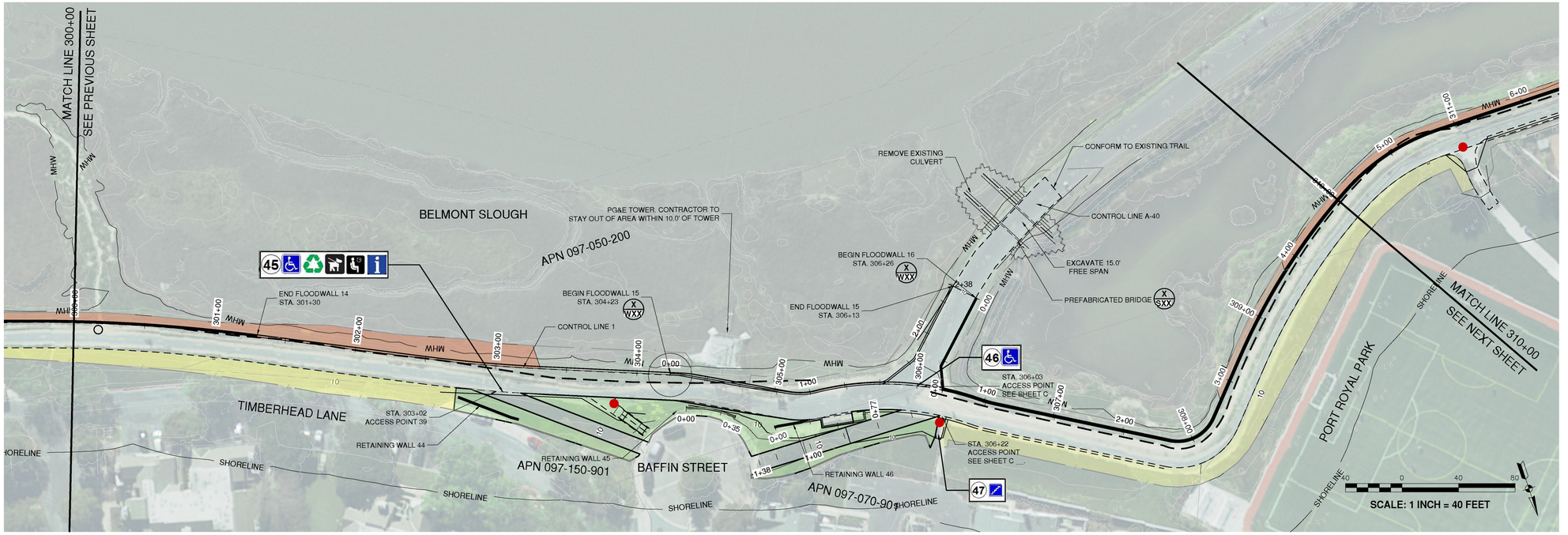
PROFILE AT CONTROL LINE 1

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



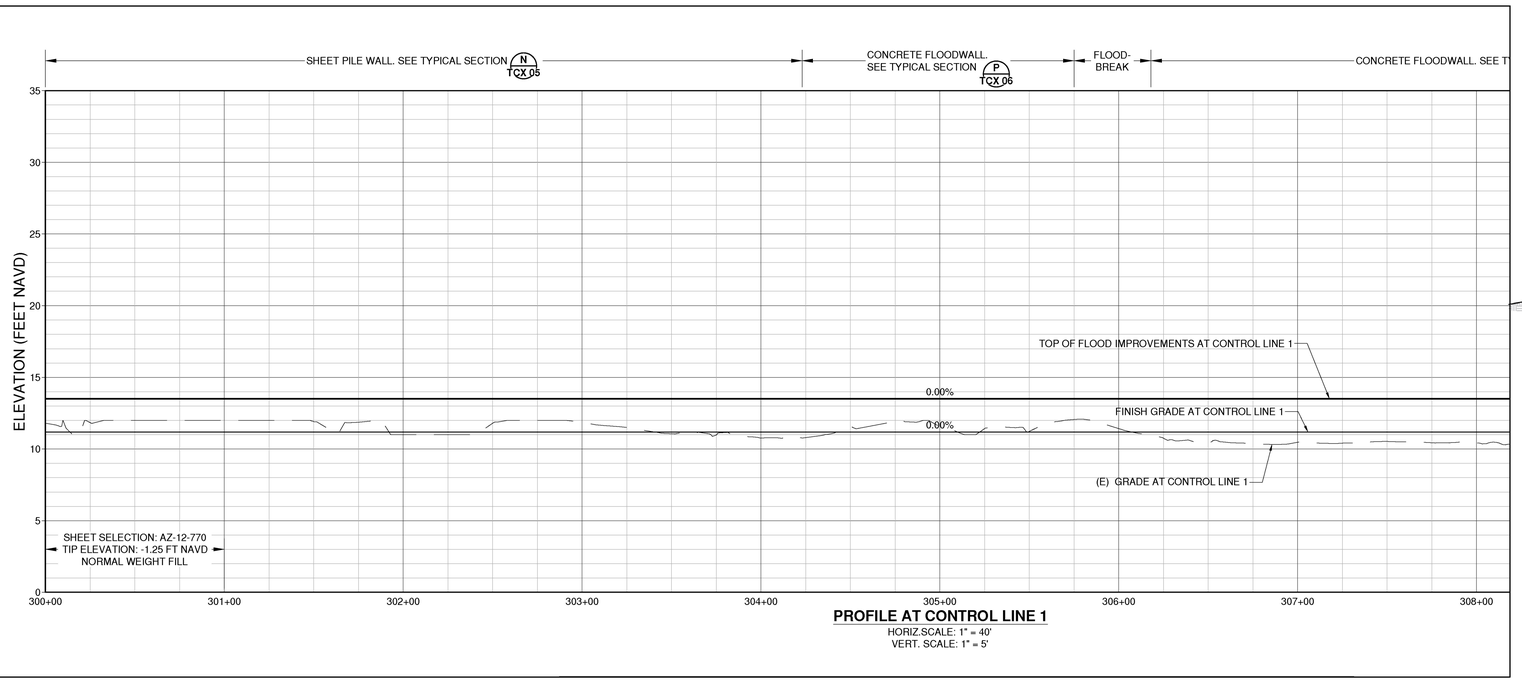
TYPICAL SECTION N

SCALE: 1 = 5'

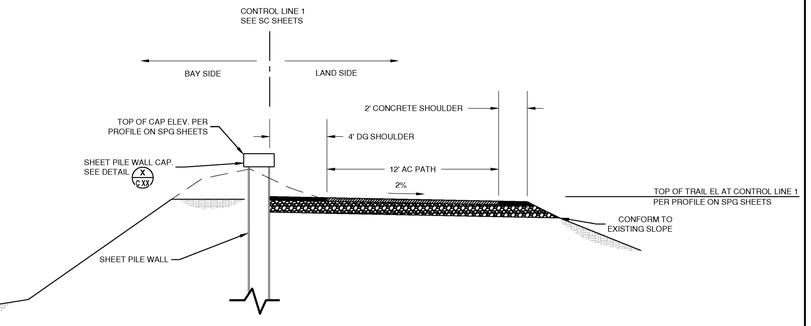


LEGEND

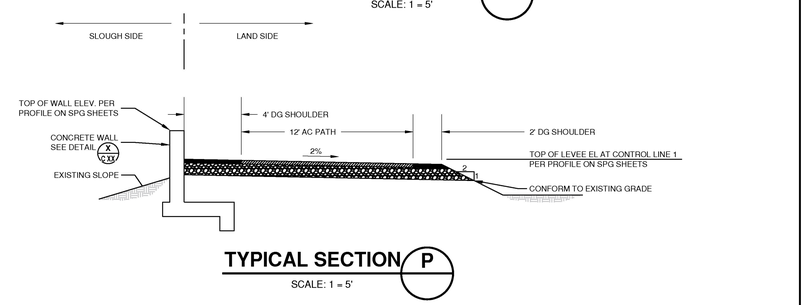
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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



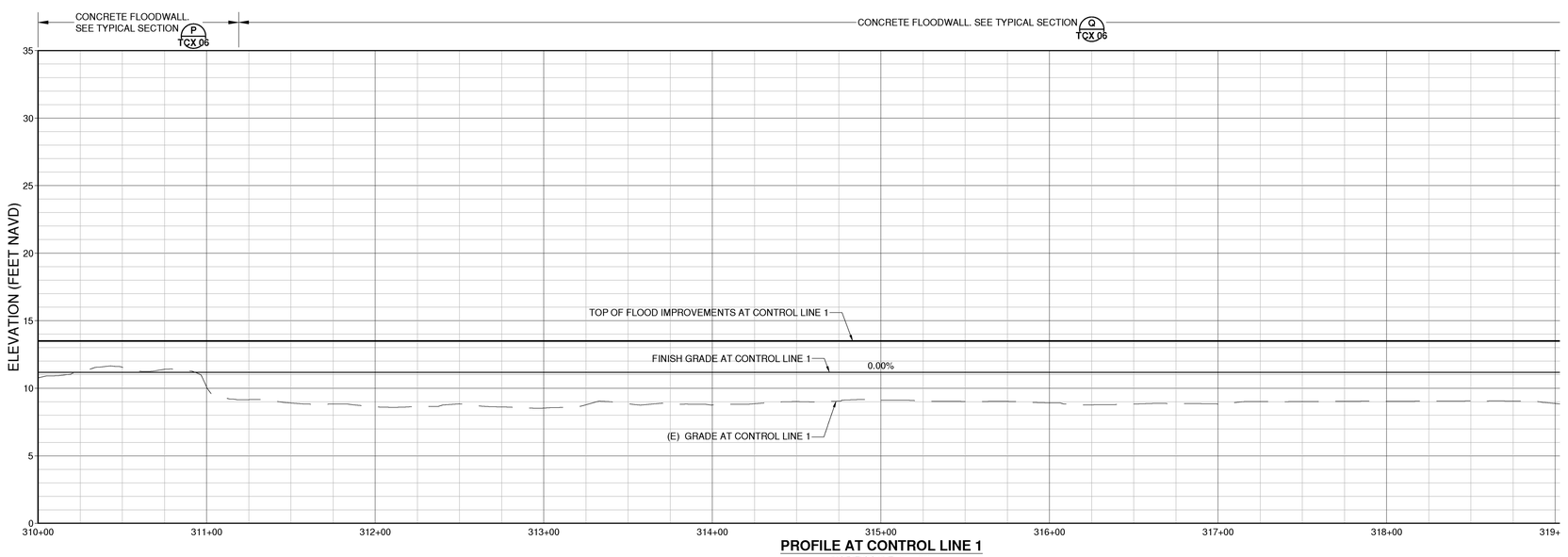
TYPICAL SECTION N
SCALE: 1 = 5'



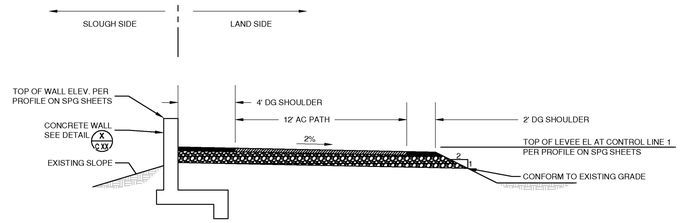
TYPICAL SECTION P
SCALE: 1 = 5'

LEGEND

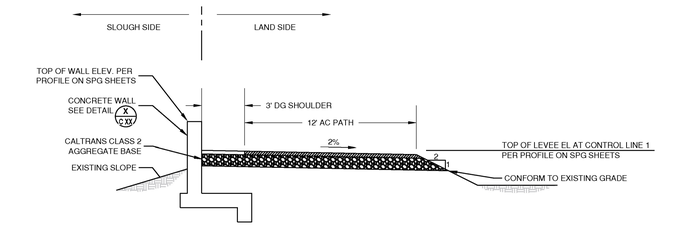
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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



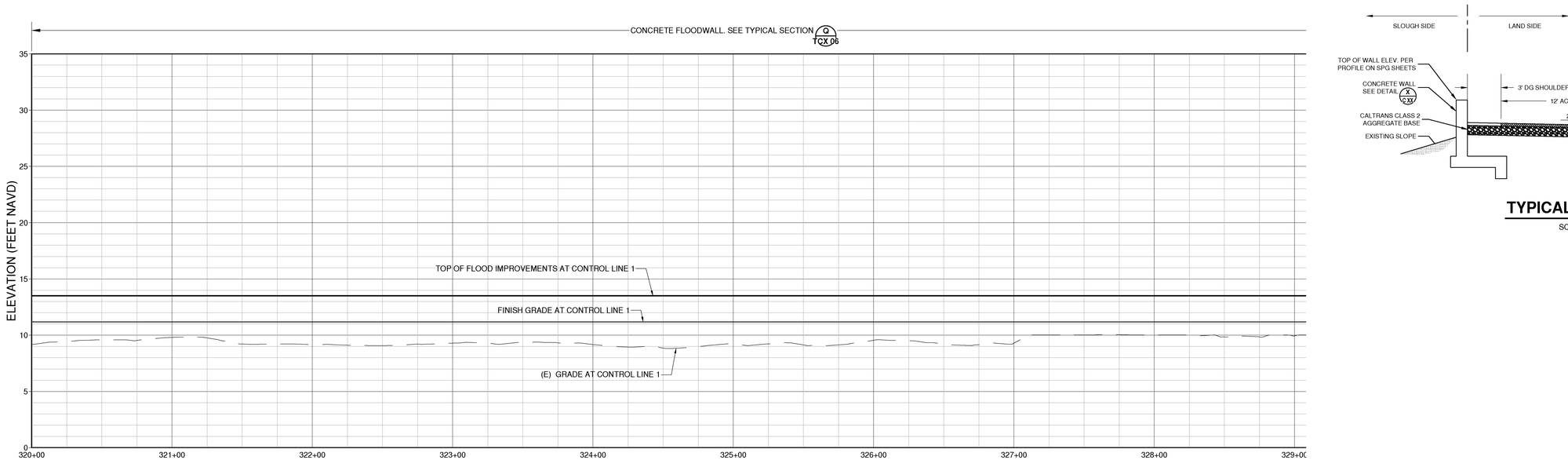
TYPICAL SECTION P
SCALE: 1 = 5'



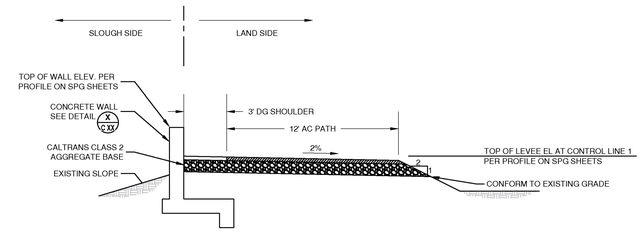
TYPICAL SECTION Q
SCALE: 1 = 5'

LEGEND

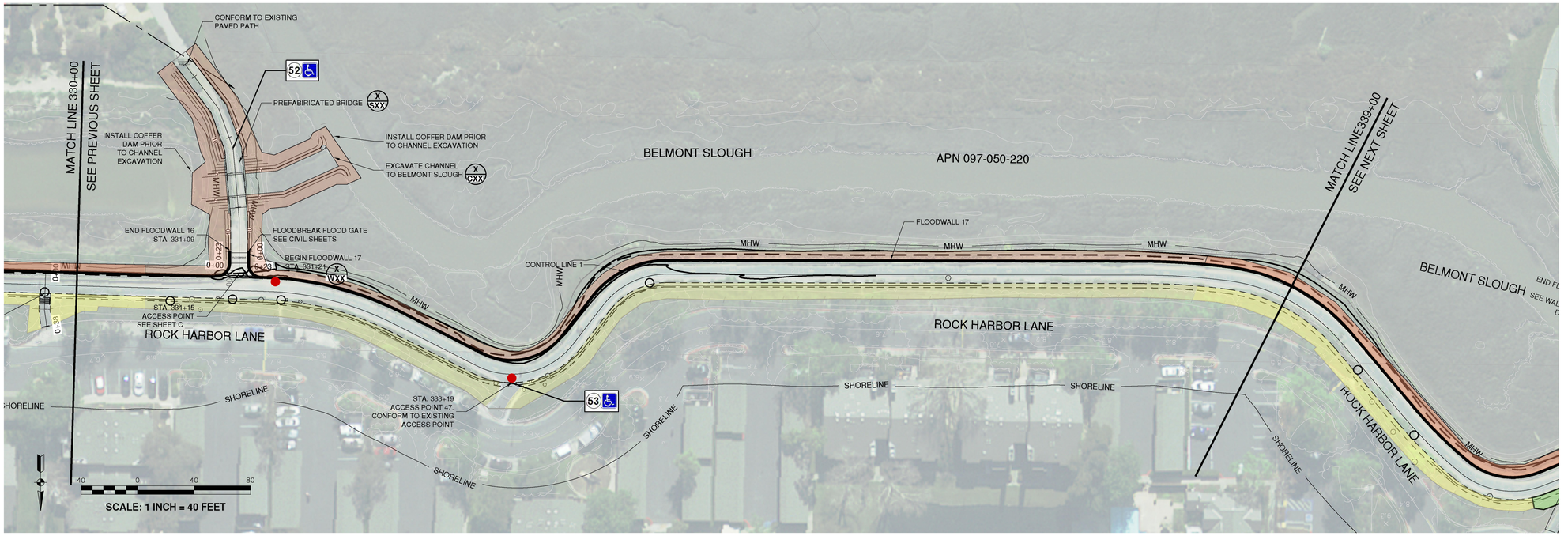
- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE — BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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

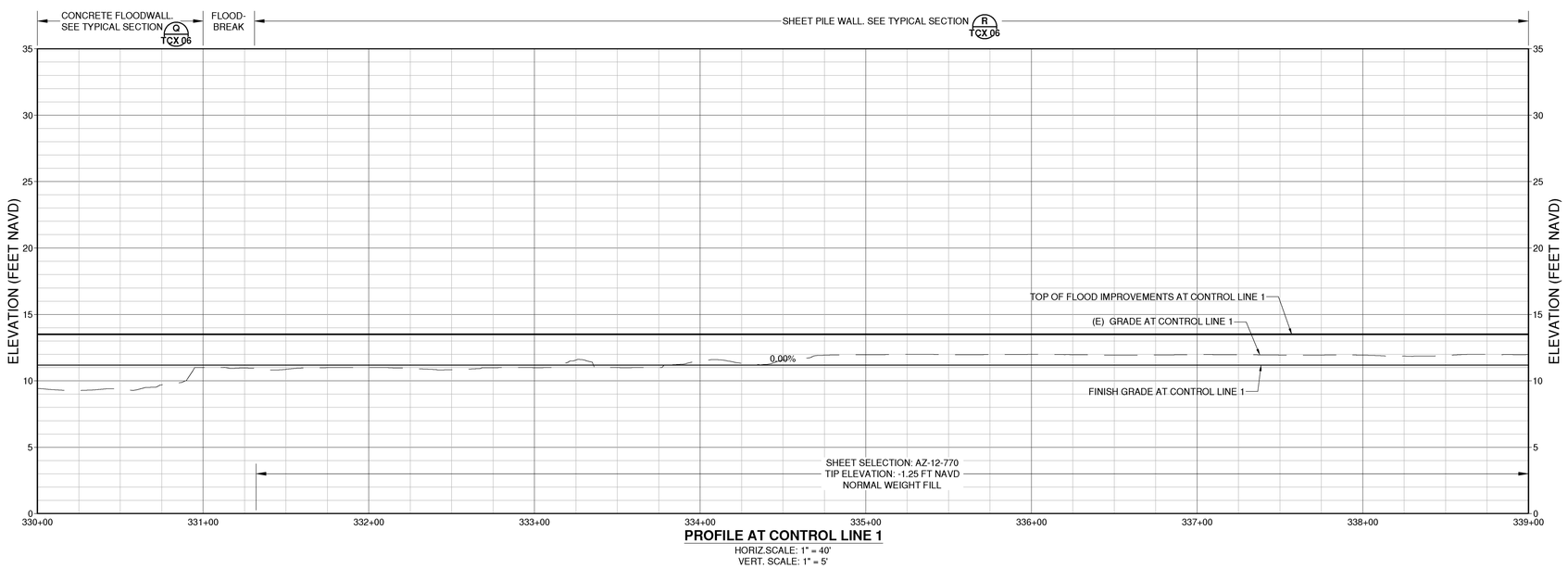


TYPICAL SECTION Q
SCALE: 1 = 5'



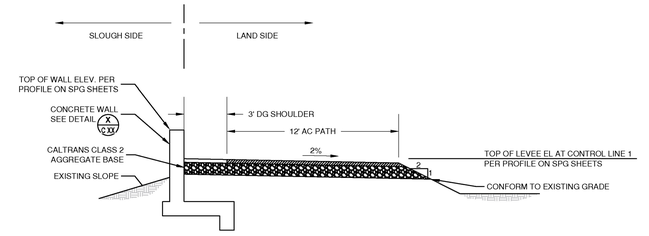
LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- MHW — MEAN HIGH WATER LINE
- SHORELINE BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



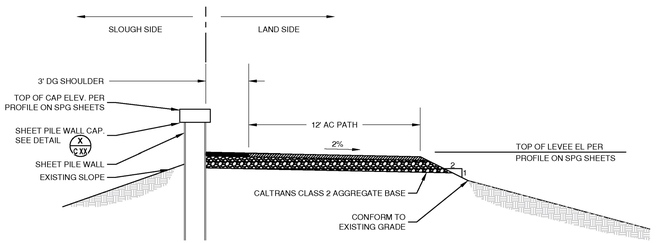
PROFILE AT CONTROL LINE 1

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



TYPICAL SECTION Q

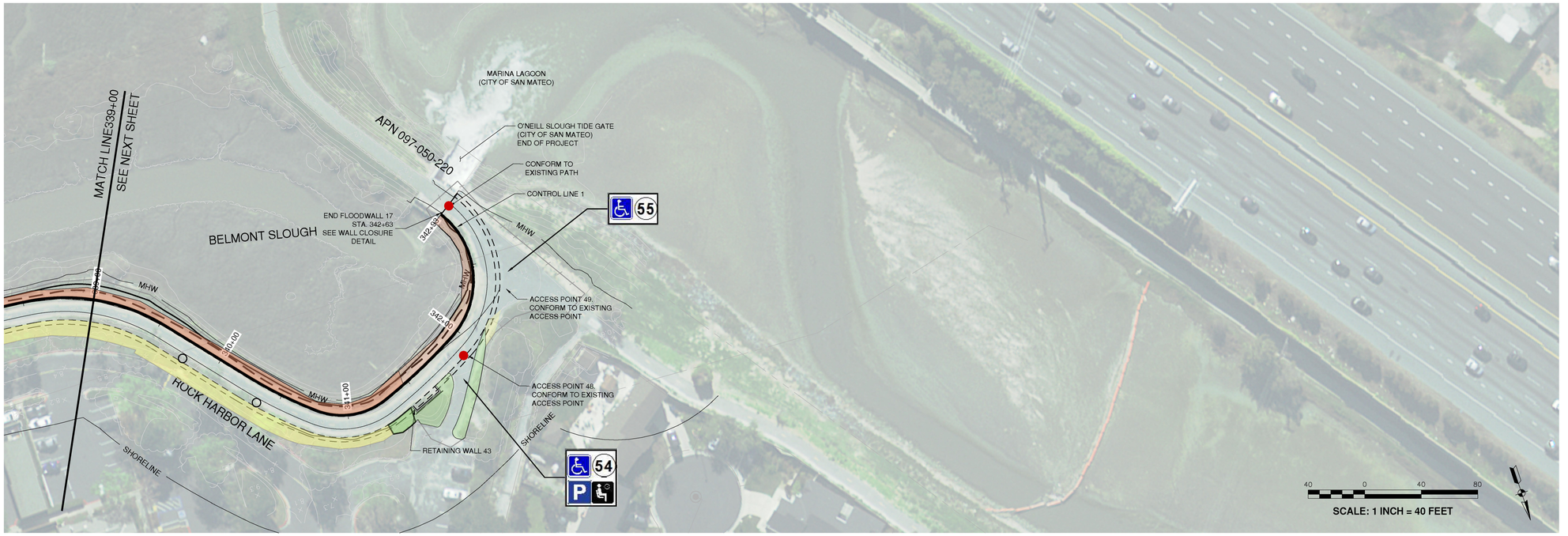
SCALE: 1 = 5'



TYPICAL SECTION R

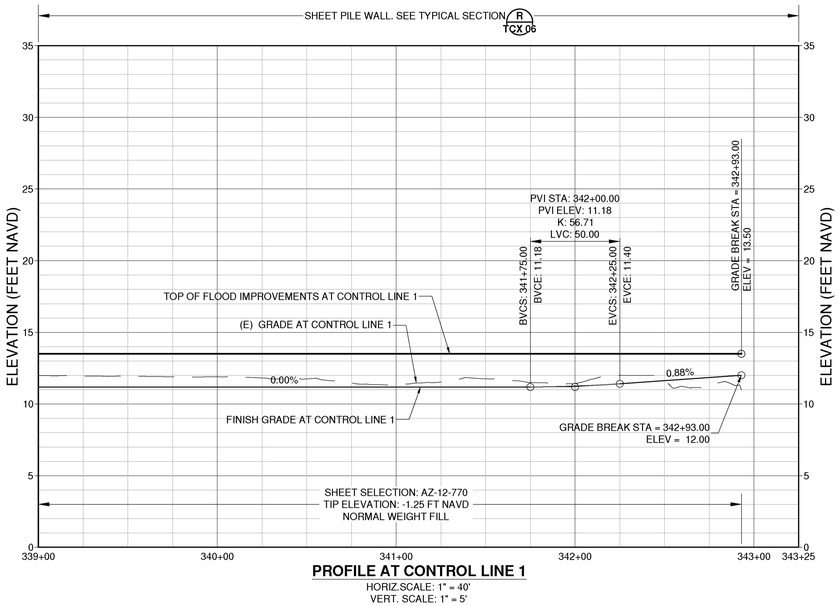
SCALE: 1 = 5'

Schaaf & Wheeler

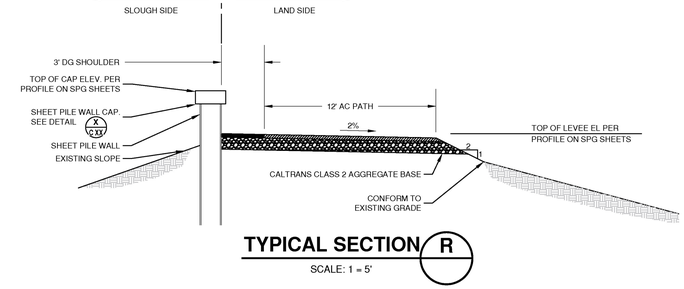


LEGEND

- ICE PLANT
- NATIVE PLANTING
- CONTAINER PLANTING
- OTHER PLANTING
- —MHW— MEAN HIGH WATER LINE
- —SHORELINE— BCDC SHORELINE BAND
- FLOODWALL
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Bicycle Repair Station
- Pet Litter Station
- Picnic Table
- Trash Receptacle
- Boat Access Ramp
- Public Parking
- Information Kiosk
- (P) Trail Acess Point
- (P) Bay Access Point
- (E) Trail Acess Point
- (E) Bay Access Point
- (E) Ad Hoc Access



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



TYPICAL SECTION R
SCALE: 1 = 5'