Ocean Beach Projects and Transportation System Updates

Virtual Community Webinar – April 20, 2022



MEETING FORMAT

We want to hear from you! Please enter all questions, comments or feedback into the Q&A at any point during the presentation - Q&A is located at the bottom of your screen.

Questions will be read and answered aloud during the Q&A period which will immediately follow the presentation.

There will be an opportunity during the Q&A for people calling in to ask questions.

A summary of the Q&A, and any questions that we are not able to answer this evening, will be posted to the project website following this meeting.

This meeting is being held in a webinar format and only the panelists and moderators can be seen and heard. This meeting is being recorded and will be posted to the project website following this meeting.







Agenda

Welcome

Logistics and Introductions

Ocean Beach Climate Change Adaptation Project

- Project Overview: Anna Roche, SFPUC Project Manager
- Recreational & Open Space Elements: Monica Scott, SFRPD Project Manager
 10 MINUTES

Westside Pump Station Reliability Improvements Project

Vince Mazzaferro, SFPUC Communications

Westside Transportation System Updates

Timothy Doherty, SFMTA Policy and Long-Range Planning Manager
 5 MINUTES

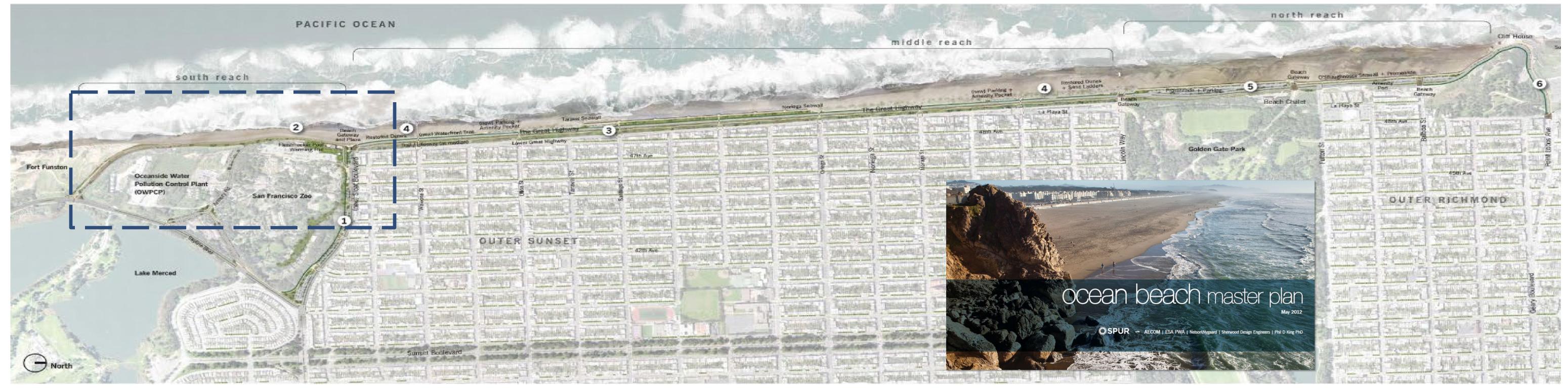
Q&A and Next Steps 25 MINUTES





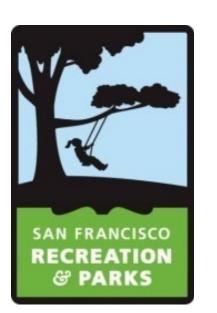


Project Area















Ocean Beach Climate Change Adaptation Project

3 Phases: Short-term, Army Corps of Engineers, & Long-term City and County of San Francisco Project – SFPUC Lead Agency

Anna M. Roche, SFPUC Project Manager







Key Project Take-Aways

One of SF's first large, cross-agency climate change adaptation projects

Envisioned in the 2012 Ocean Beach Master Plan (OBMP)

Project will develop and implement 2 of the 6 OBMP key moves along South Ocean Beach

- Implement managed retreat by permanently closing/rerouting the Great Highway between Sloat and Skyline Boulevards
- Protect the existing Lake Merced Tunnel (LMT) in place and introduce a multipurpose coastal protection/restoration/access system

Will provide short-term projection via phases

Result in permanent changes in traffic flow

New, publicly accessible open space elements

Remove previously placed shoreline armoring from the bluff/beach







Project History: Historic Approaches to Erosion









Project Drivers: Infrastructure at Risk due to Erosion





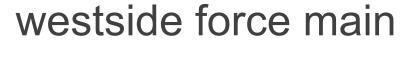
lake merced tunnel

sewer outfall



westside transport box

pump station



oceanside treatment plant









Project Drivers: Adopted Policy & Litigation

2012 Ocean Beach Master Plan - Guiding Principles

- Adapt to Climate Change via Managed Retreat/Adaptive Management
- Beach Nourishment
- Structural Protection (WWE Assets)
- Access & Recreation

Terms of 2014 Litigation Settlement

- Implement short-term improvements to enhance recreation
- Implement long-term adaptive management project

SF Planning Adopts Local Coastal Program Update

Adopts policy supporting OBMP guiding principles

Stakeholder Involvement

Technical Advisory Committee







Phases 1& 2: Protect LMT & Safe Access

2012 Sand Placement

- 77,000 cubic yards

2014 Sand Placement (with current permit)

- 22,500 cubic yards

2016 Sand Placement

70,000 cubic yards

2017 Sand Placement

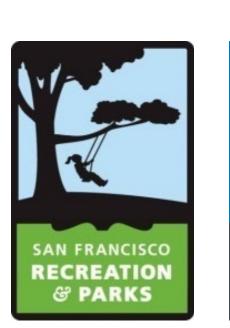
- 65,000 cubic yards + 300 sandbags

2019 Sand Placement

- 60,000 cubic yards & sandbag maintenance

2021 ACOE Sand Placement

— ~ 275,000 cubic yards







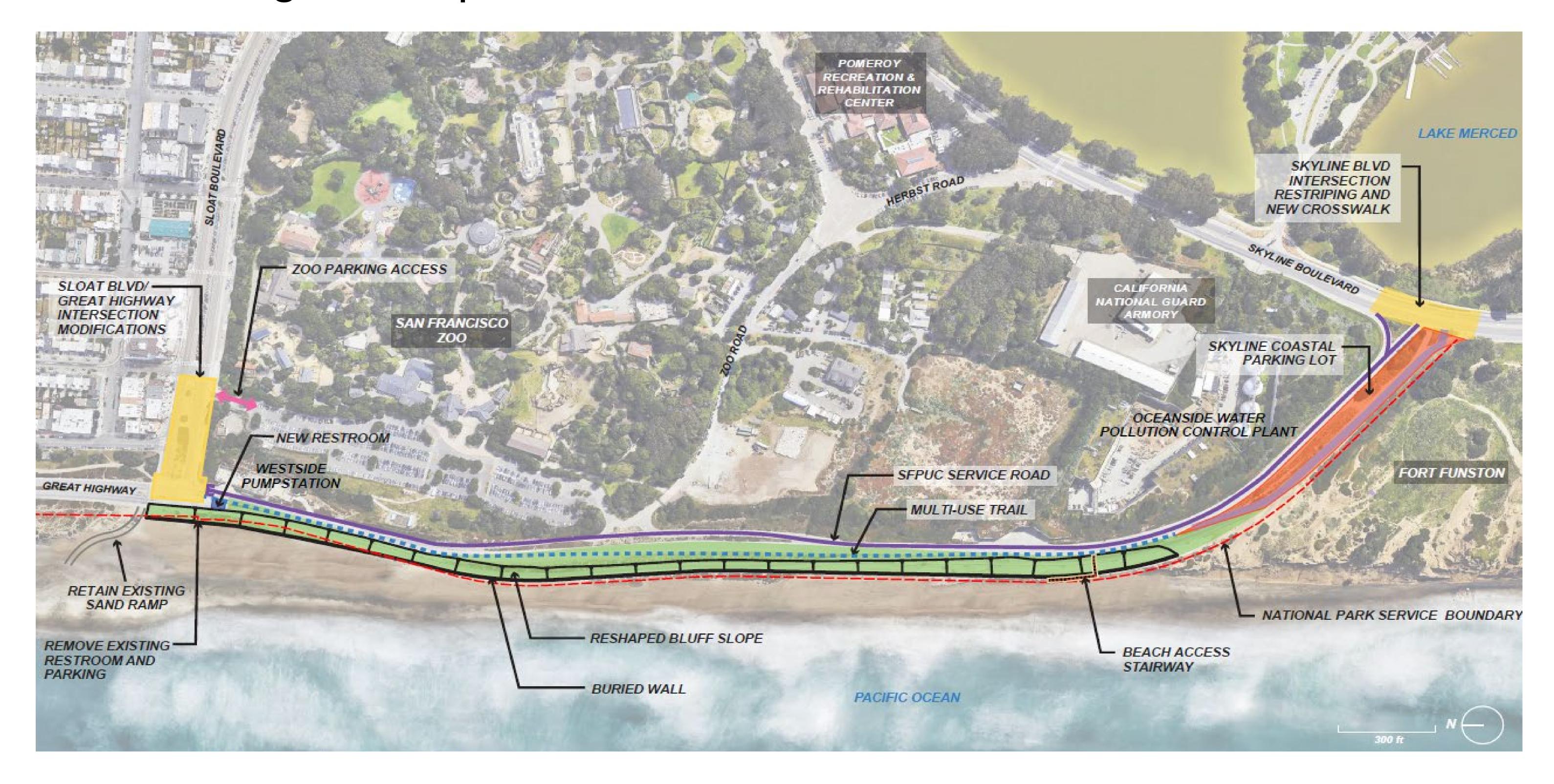






Ocean Beach Climate Change Adaptation Project

Phase 3 - Long-term Improvements









Phase 3: Major Project Elements

Structural Protection & Wastewater Infrastructure Access

- Low-profile wall
- SFPUC Service Road (shown in Coastal Access & Recreation)
- Remove Great Highway & Recontour bluff
- Remove shoreline armoring

Coastal Access & Recreation

- Coastal Access Trail & Beach Access
- Public Bathroom
- Coastal Parking
- Intersection Improvements + Access to Zoo Parking Lot
- Revegetate bluff + Bioretention Basins







Wastewater Infrastructure Protection: Low Profile Wall Design

Key Objective

Protect LMT & associated infrastructure

Design Criteria

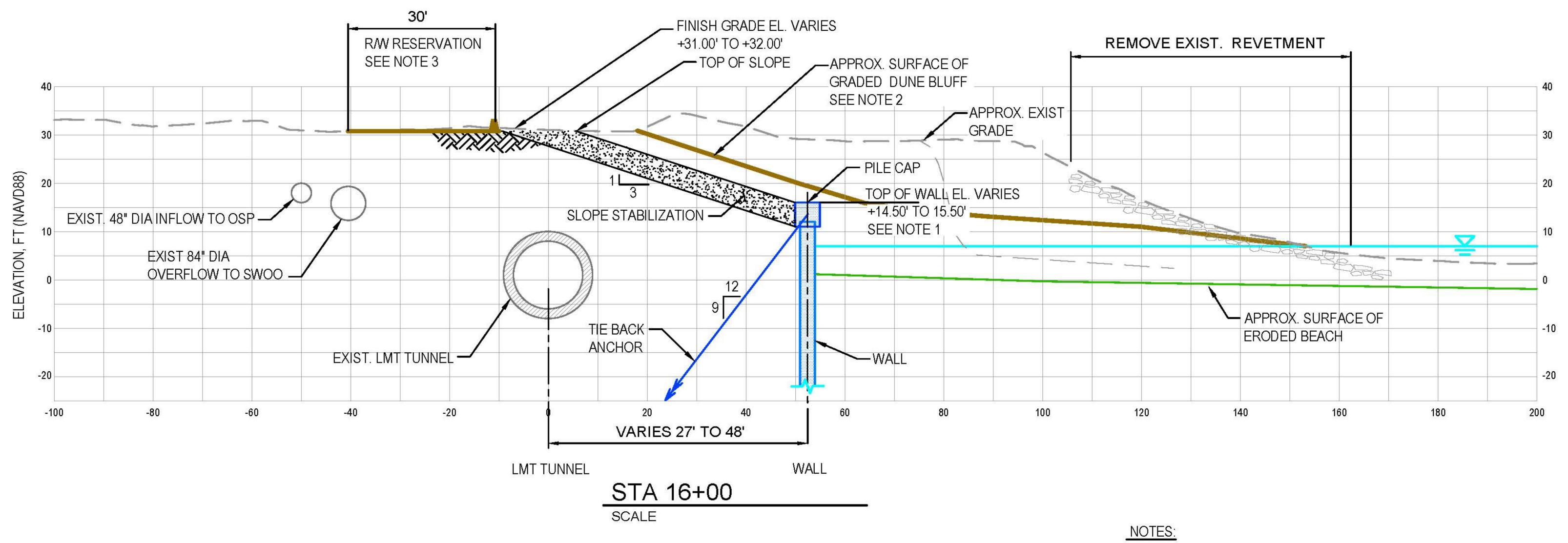
- Seismic
- Geotechnical Considerations
- Climate Change (sea level rise + storm surge)
- Placement of Low-profile wall allows for LMT Protection, Open Space
 Elements, and Ocean Beach access







Wastewater Infrastructure Protection — Cross Section



- TOP OF WALL IS 6 FT ABOVE THE CROWN OF EXIST LMT TUNNEL.
- SURFACE OF GRADED DUNE BLUFF IS 4 FT MIN. ABOVE SLOPE STABILIZATION.
- RW RESERVATION FOR INFRASTRUCTURE ACCESS
 & COASTAL TRAIL







Wastewater Infrastructure Protection: Low Profile Wall Design Elements

Approximately 3000 feet in length

Consists of 36" diameter piles

- Primary piles 30' below grade
- Secondary piles 60' below grade

Tie backs

Slope stabilized with in-situ soil cement

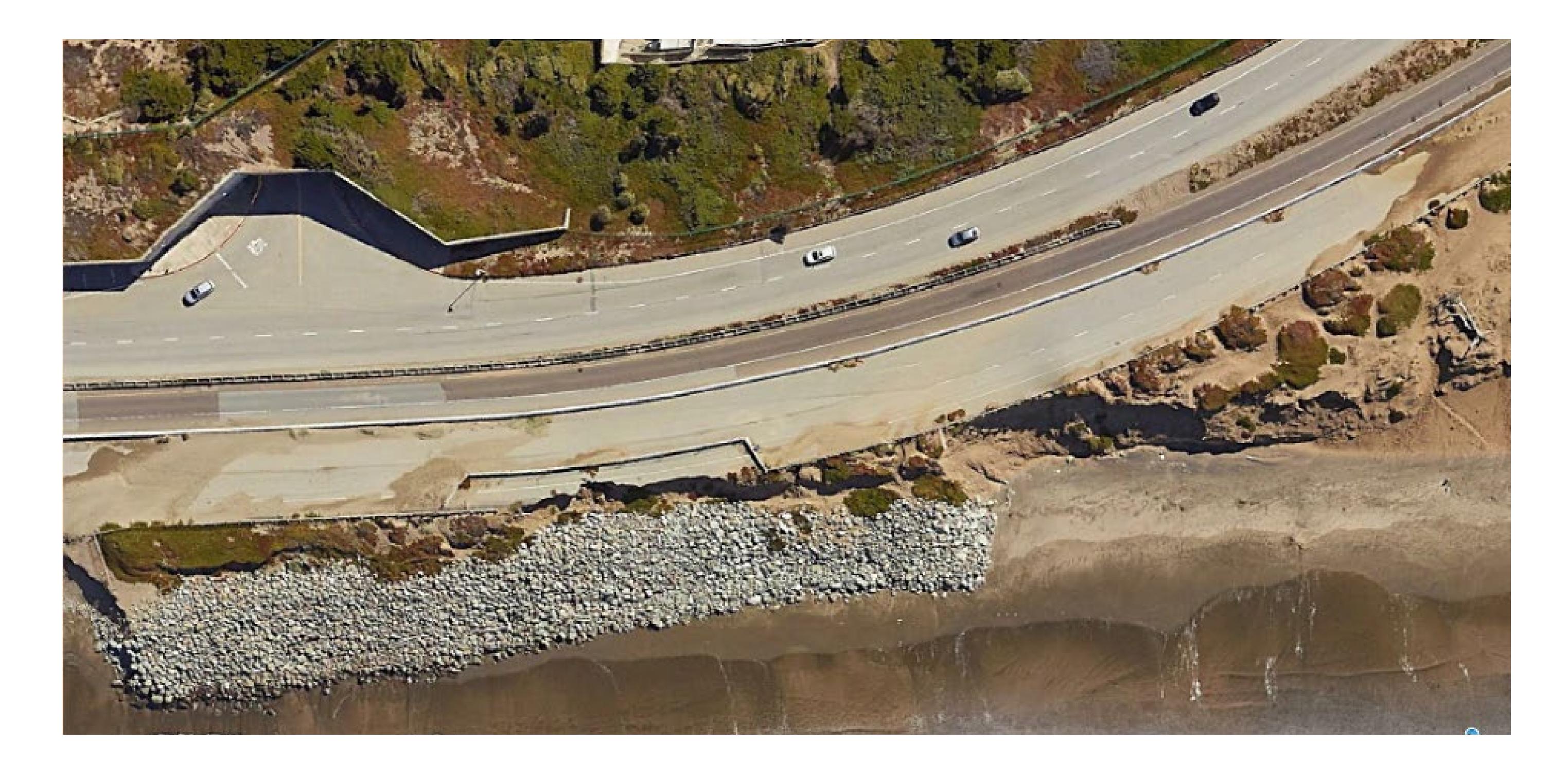
Special design at existing outfall & low-profile wall terminus







Removal of Previously Placed Shoreline Armoring





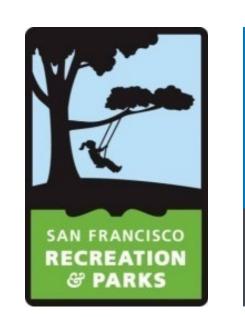




Schedule

Environmental Review	Late 2022
100% Design	Spring 2023
Contract Advertisement and Award	Late 2023
Construction	2023-2027 (Trail est. 2027)





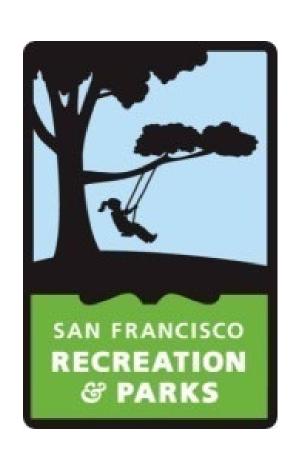




Participating City Agencies and Design Team

City Agencies:







Project Partners:





Design Team:















Ocean Beach Climate Change Adaptation Project Recreational & Open Space Elements

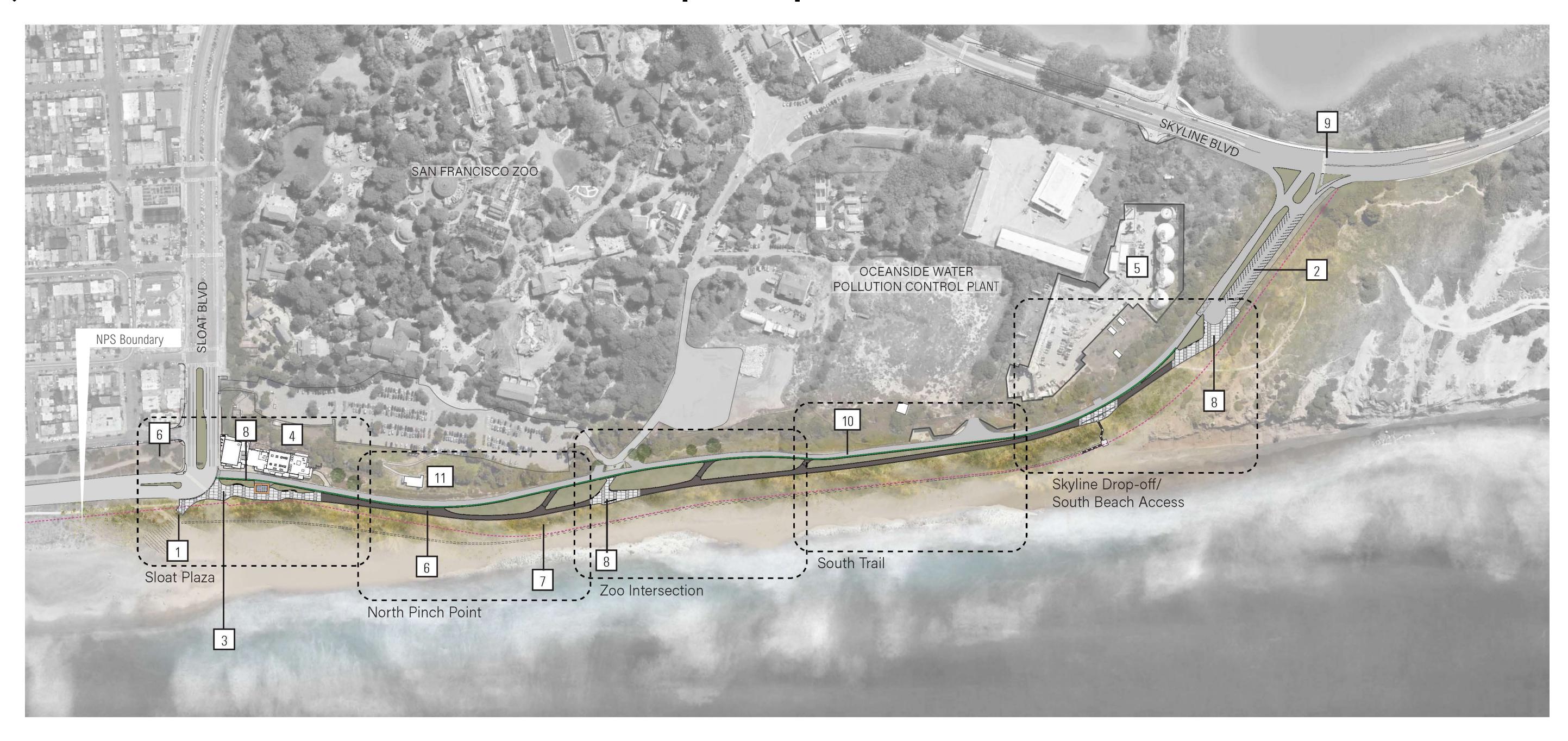
Monica Scott, SFRPD Project Manager







Project Overview: Recreational & Open Space Elements





- 1 SAND RAMP MAINTENANCE VEHICLE ACCESS
- 2 SKYLINE PARKING LOT
- 3 SLOAT PLAZA
- 4 WESTSIDE PUMP STATION

- 5 OCEANSIDE WATER POLLUTION CONTROL PLANT
- 6 LOWER GREAT HIGHWAY SHARED USE TRAIL
- 7 STABILIZATION | NATIVE REVEGETATION
- 8 SKYLINE DROP OFF AREA

- 9 CROSSWALK TO LAKE MERCED
- 10 SERVICE ROAD (ONE-WAY)
- 11 COASTAL CONSERVATION CENTER

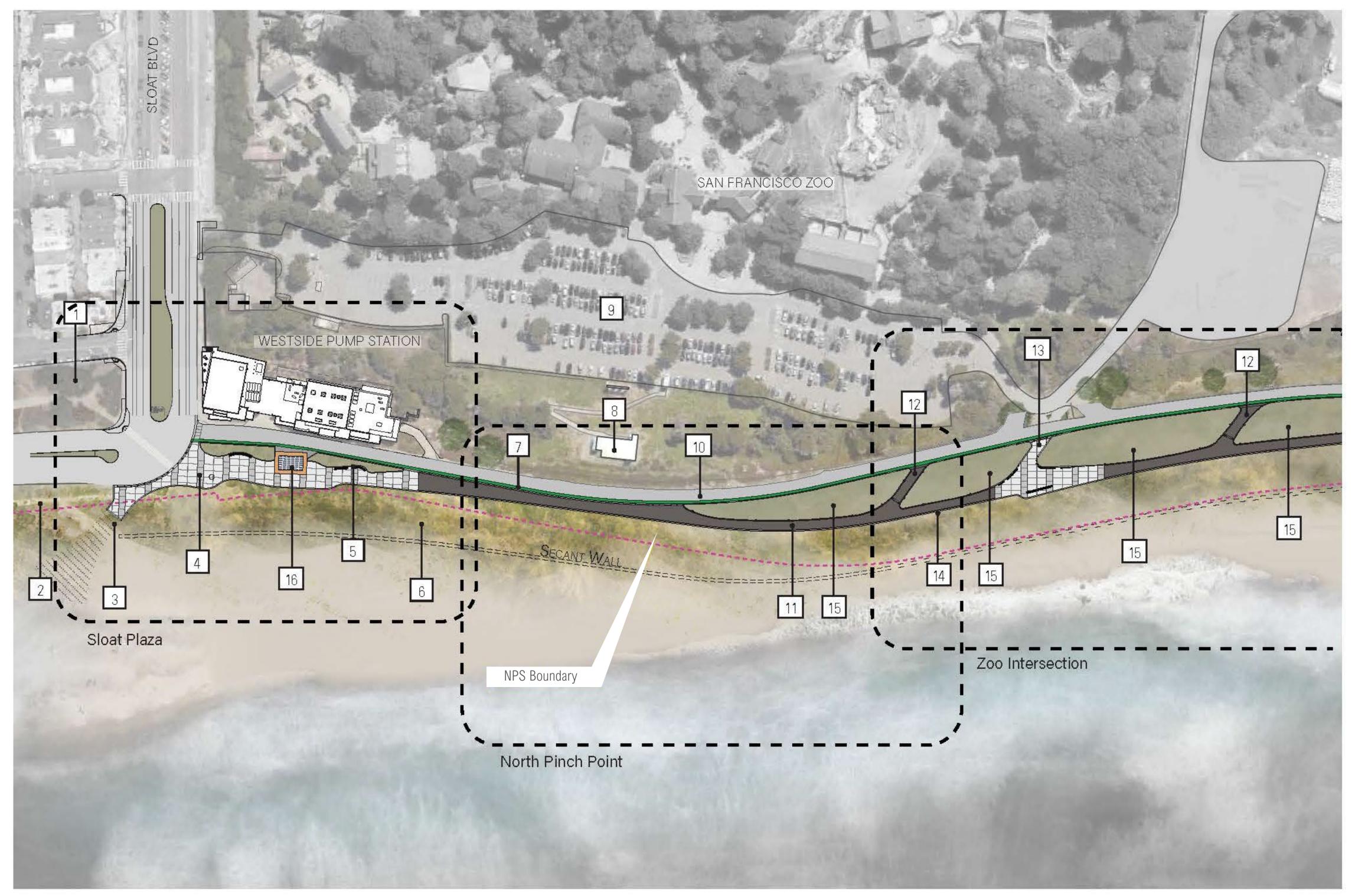








Northern End of Project Site





- 1 LOWER GREAT HIGHWAY SHARED USE TRAIL
- 2 OCEAN BEACH DUNES TRAIL
- 3 SAND RAMP VEHICULAR MAINTENANCE ACCESS
- 4 SLOAT PLAZA
- 5 PLANTING AND SEAT WALLS
- 6 STABILIZATION | REVEGETATION
- 7 BARRIER AT PINCH POINT
- 8 COASTAL CONSERVATION CENTER
- 9 (E) ZOO PARKING
- SERVICE ROAD (ONE-WAY) & COMMUTER BIKE LANE (TWO-WAY)
- 11 MULTI-USE TRAIL (15'-0" MIN)
- 12 MAINTENANCE ACCESS POINT
- 13 ZOO INTERSECTION
- 14 SEAT WALL AT TRAIL EDGE
- 15 BIORETENTION PLANTING
- 16 RESTROOM & MAINTENANCE

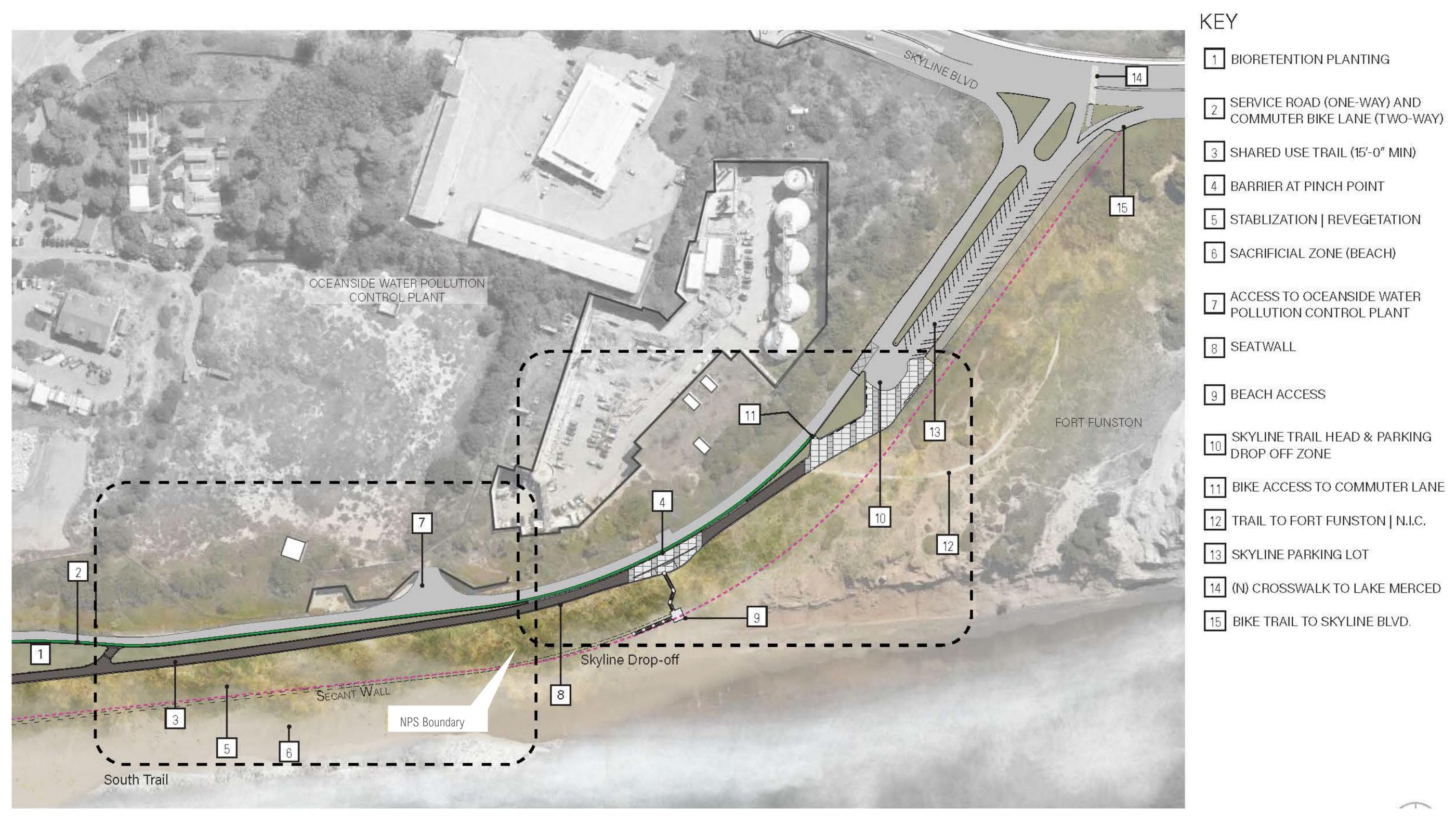








Southern End of Project Site









Sloat Plaza

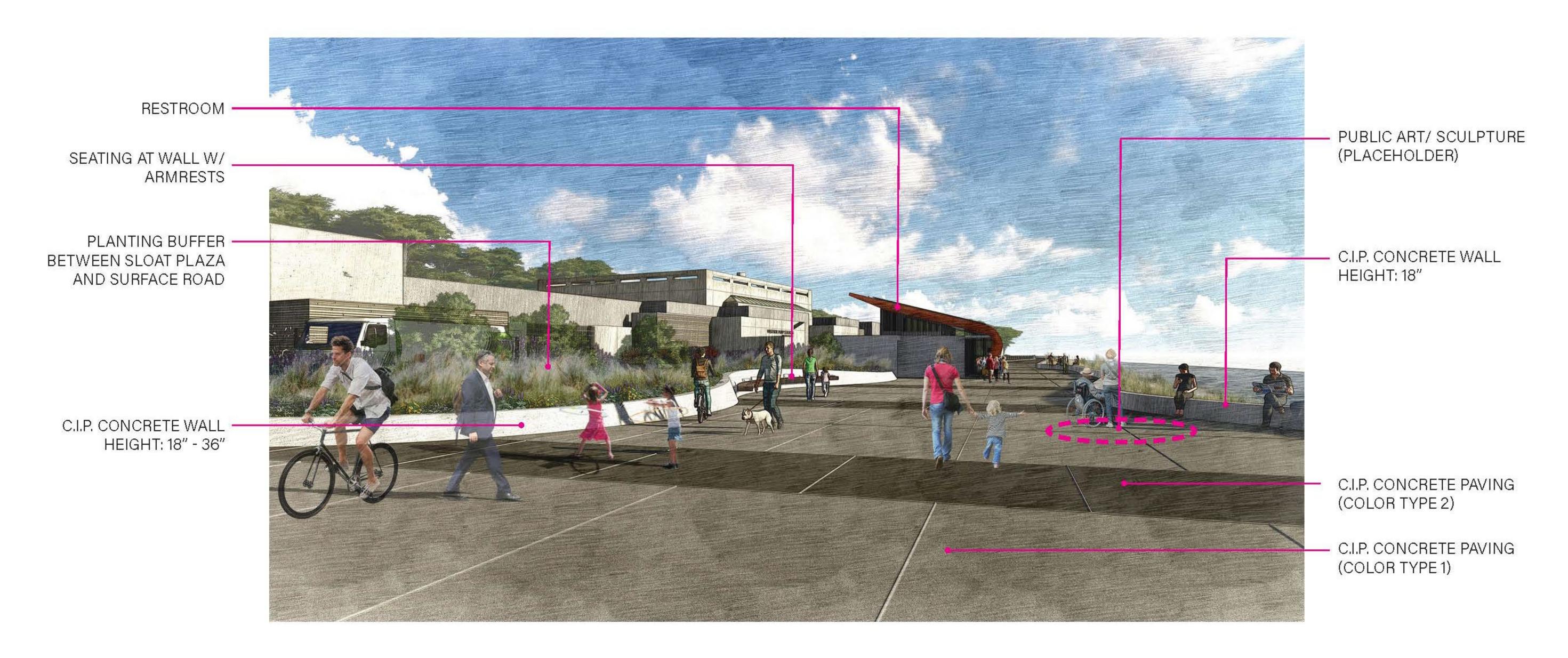


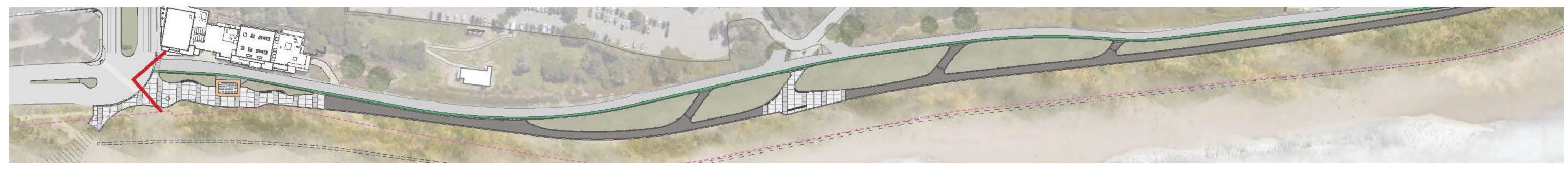






Sloat Plaza – Looking South





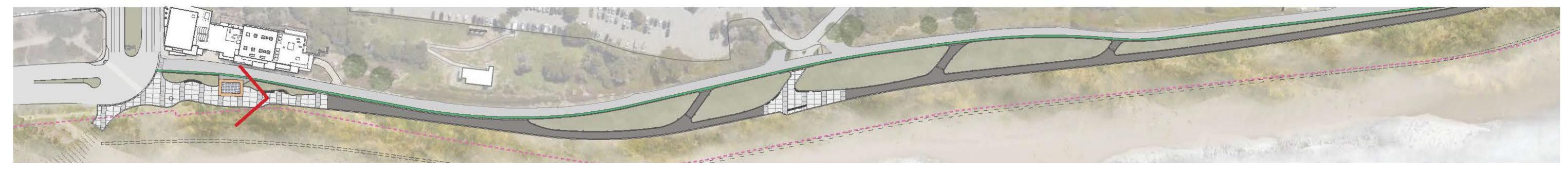






Sloat Plaza — Looking North





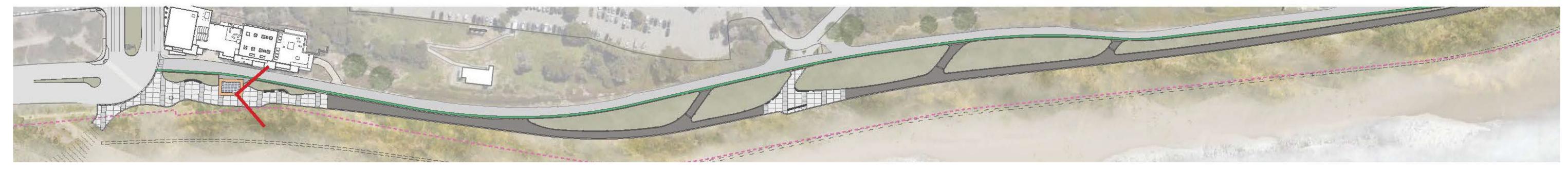






Trail – Looking South











Trail Pinch Point



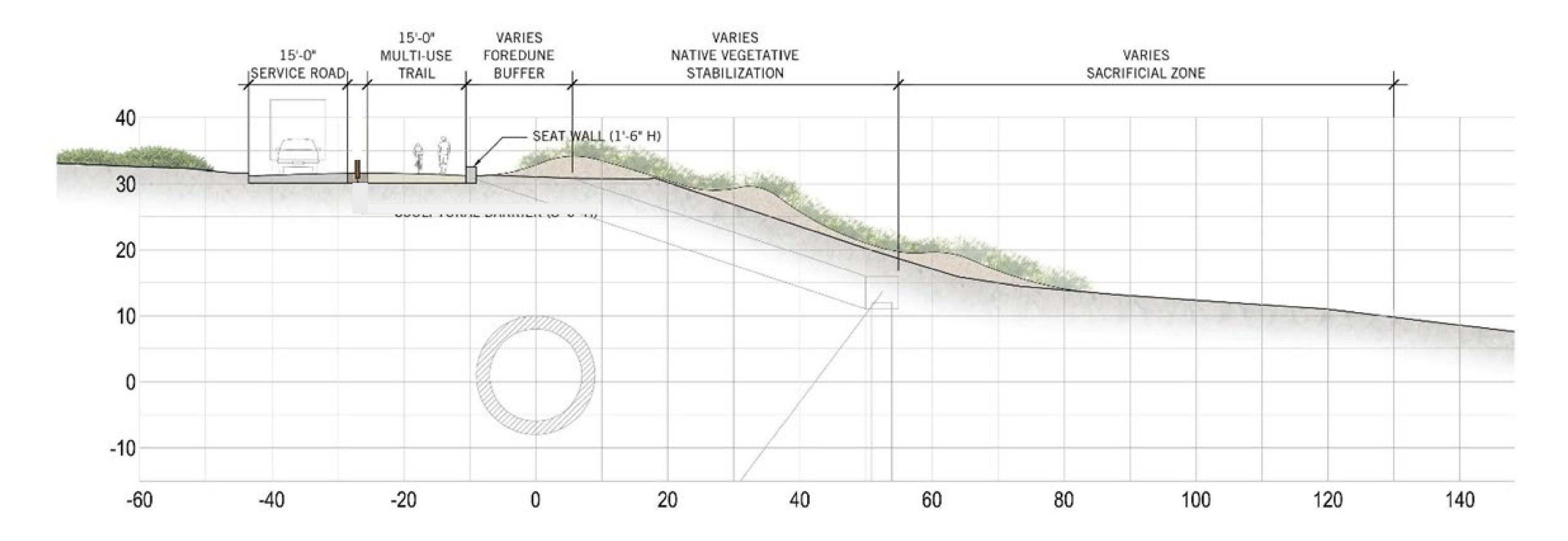


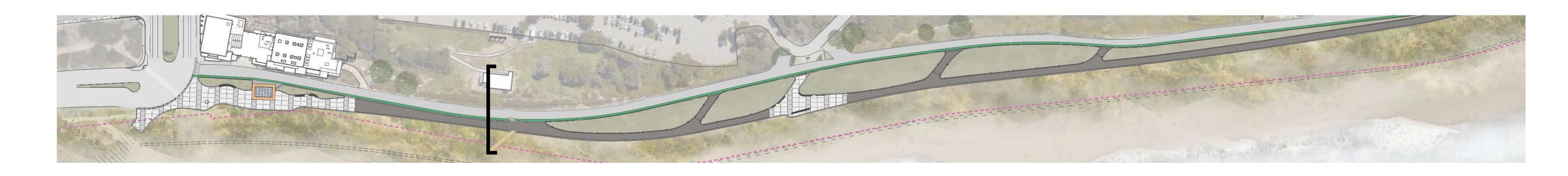






Trail Pinch Point - Section



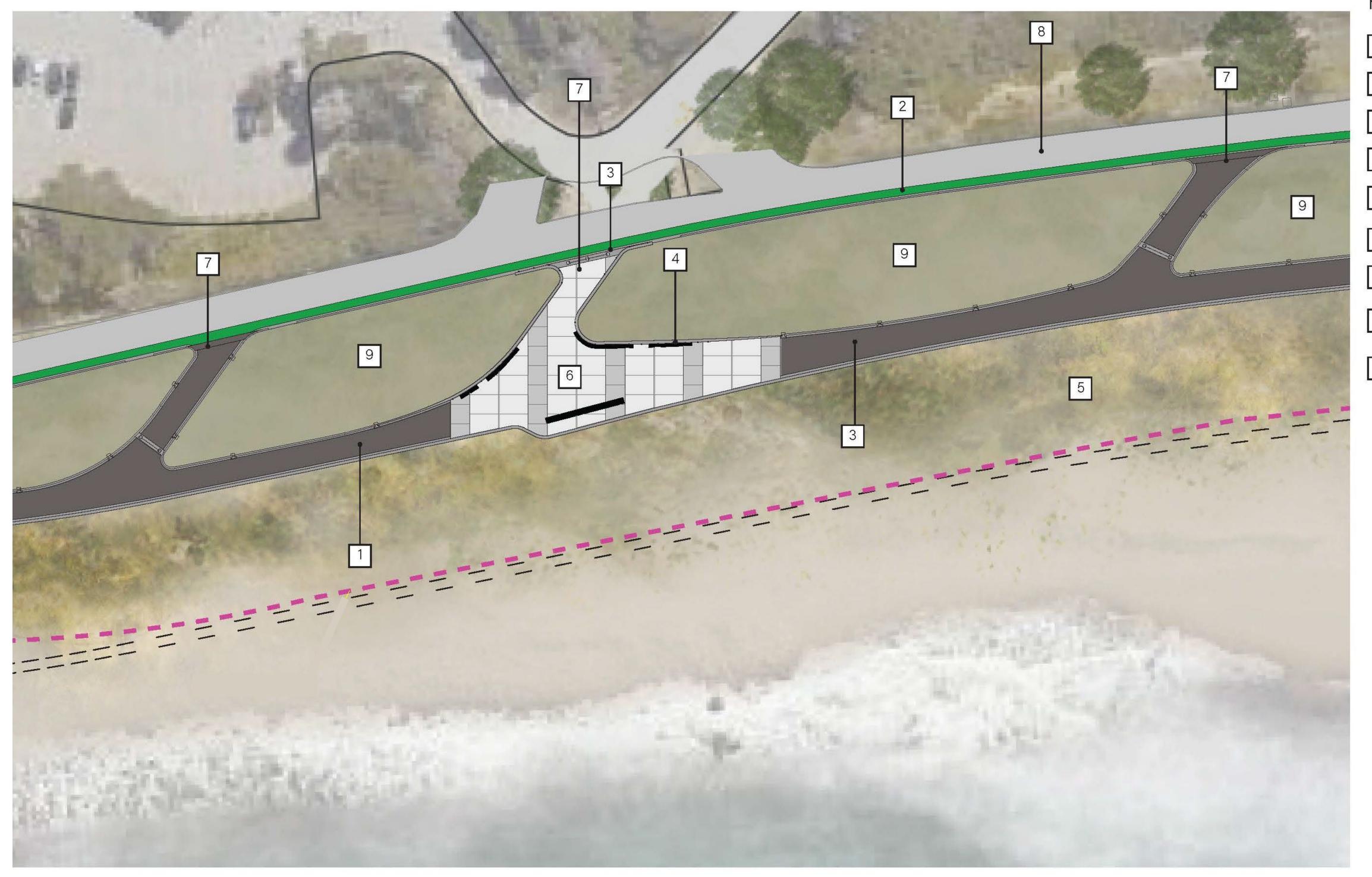








Zoo Intersection





- 1 SHARED USE TRAIL
- 2 BIKE TRAIL
- 3 BOLLARDS
- 4 BENCH SEATING
- 5 STABILIZATION | REVEGETATION
- 6 OVERLOOK
- 7 MAINTENANCE ACCESS
- SERVICE ROAD (ONE-WAY) & COMMUTER BIKE LANE (TWO-WAY)
- 9 BIORETENTION PLANTING



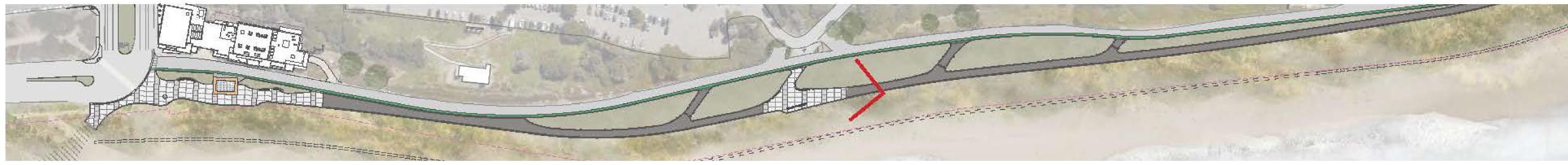


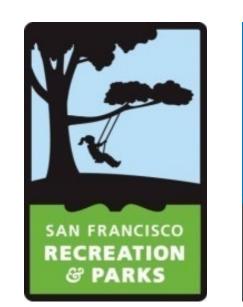




Trail – Zoo Intersection



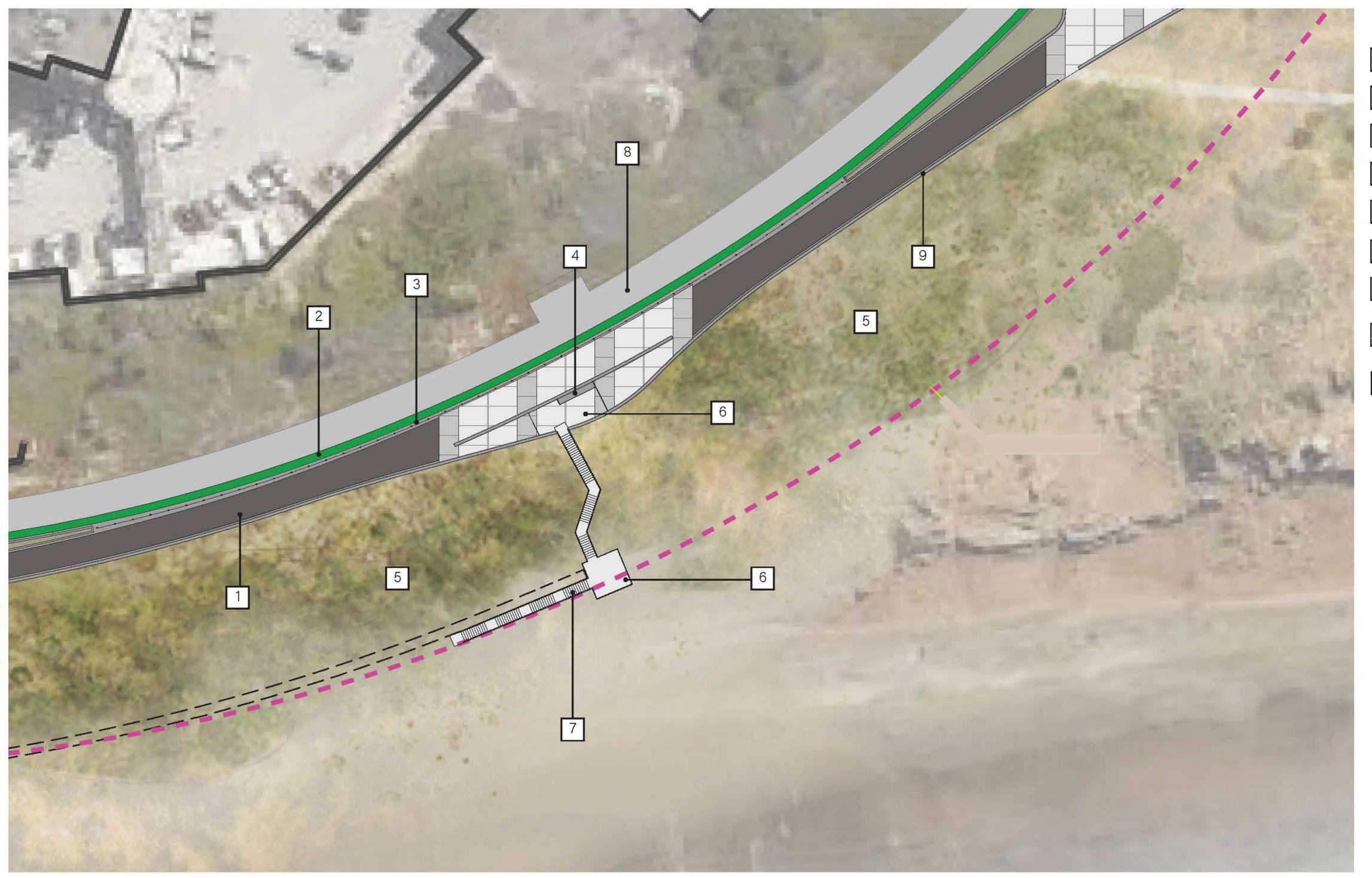








Southern Beach Access





- 1 SHARED USE TRAIL
- 2 BIKE TRAIL
- 3 PINCH-POINT BARRIER
- 4 BENCH SEATING
- 5 STABILIZATION | REVEGETATION
- 6 OVERLOOK
- 7 BEACH ACCESS
- SERVICE ROAD (ONE-WAY) & COMMUTER BIKE LANE (TWO-WAY)
- 9 SEATWALL









Southern Beach Access - Below 30' Elevation



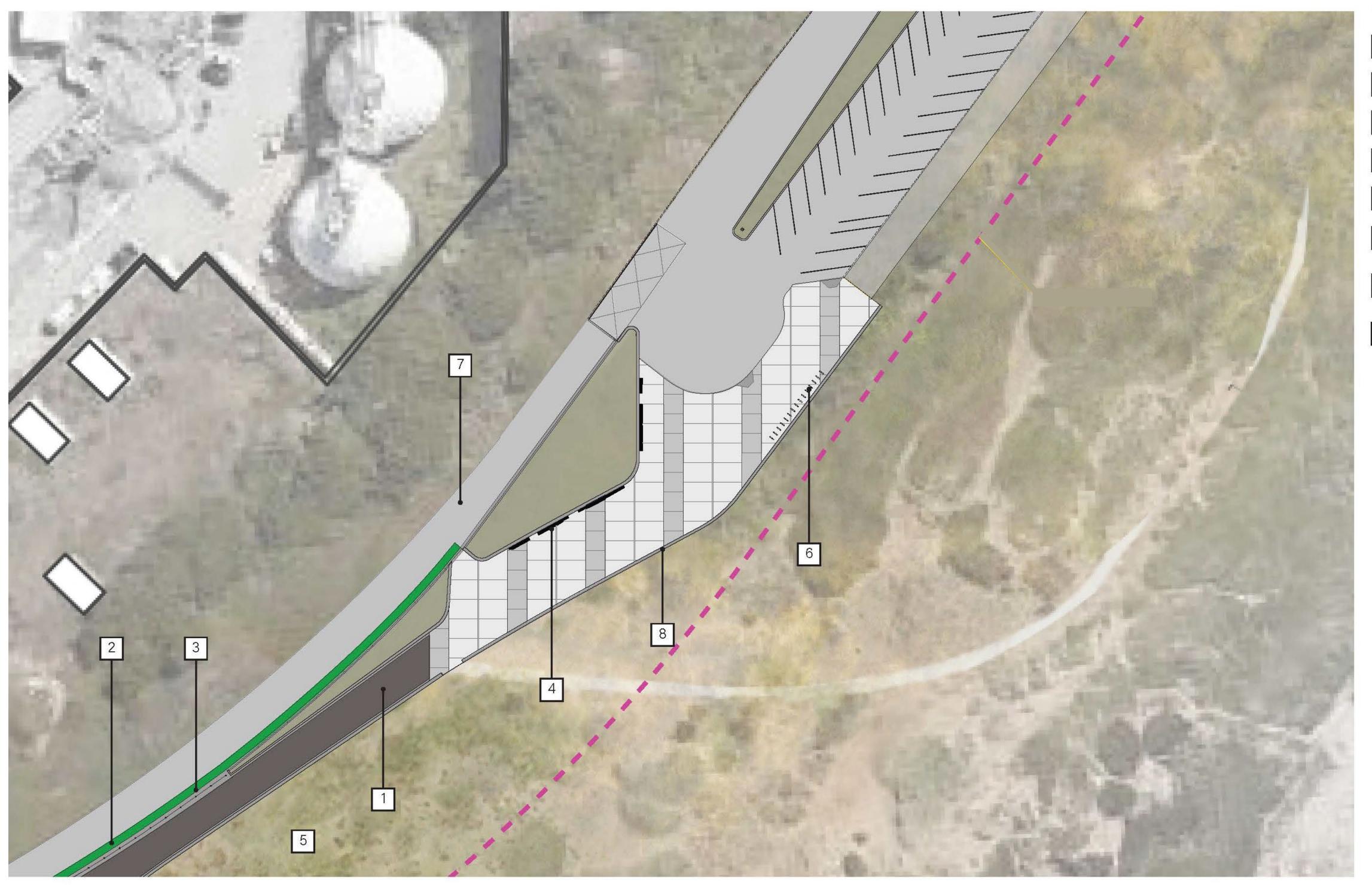








Skyline Drop Off





- 1 SHARED USE TRAIL
- 2 BIKE TRAIL
- 3 PINCH-POINT BARRIER
- 4 BENCH SEATING
- 5 STABILIZATION | REVEGETATION
- 6 BIKE PARKING
- SERVICE ROAD (ONE-WAY) & COMMUTER BIKE LANE (TWO-WAY)
- 8 SEATWALL



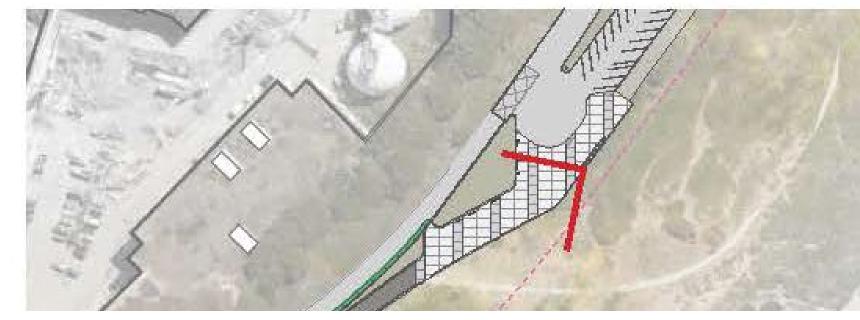






Trail – Skyline Entrance



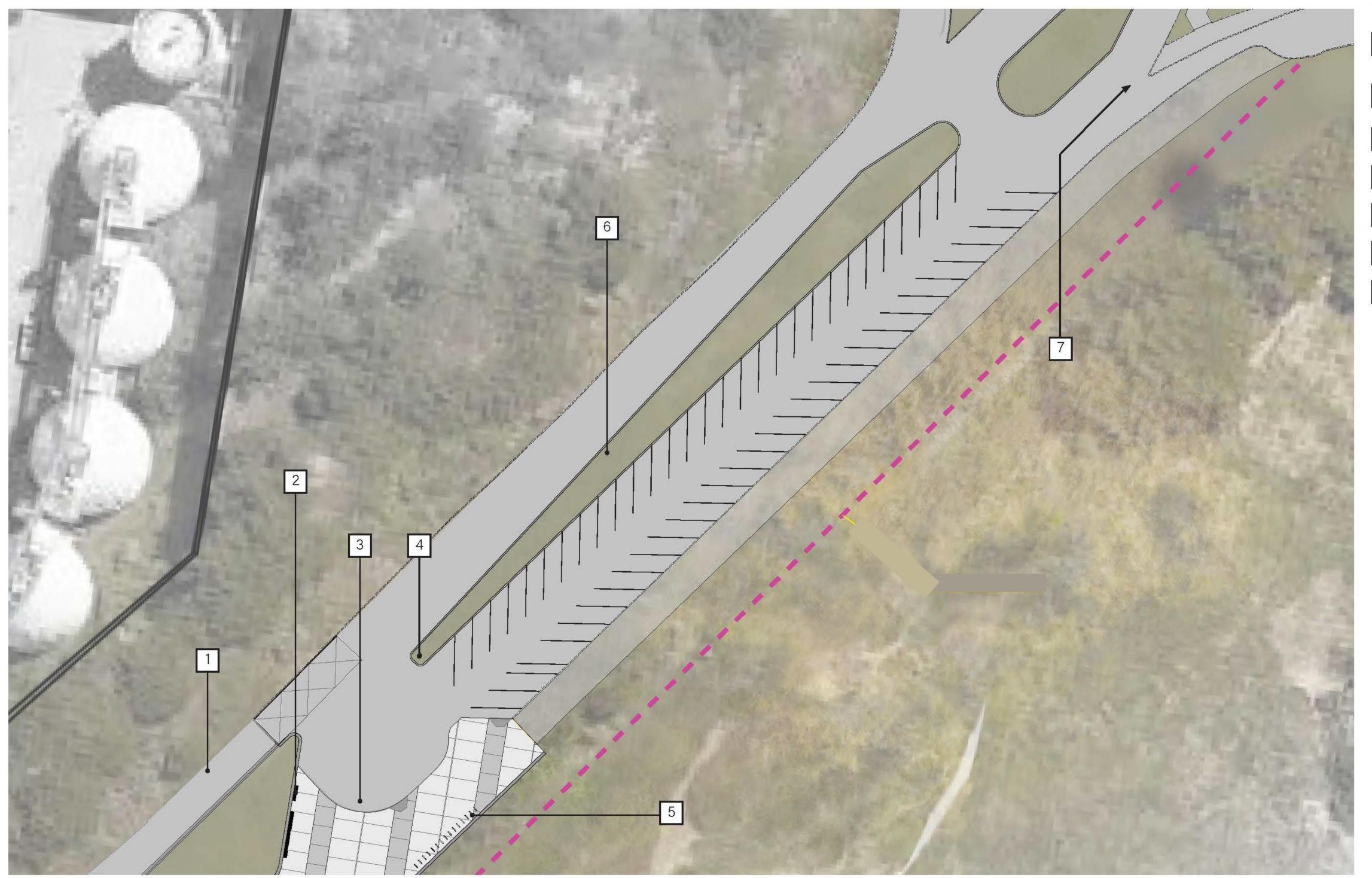








Skyline Coastal Parking Lot





- 1 SERVICE ROAD (ONE-WAY) & COMMUTER BIKE LAND (TWO-WAY)
- 2 BENCH SEATING
- 3 DROP-OFF ZONE
- 4 POLE LIGHT
- 5 BIKE PARKING
- 6 PLANTED MEDIAN
- 7 ACCESS TO SKYLINE BLVD









Public Art Opportunity - San Francisco Arts Commission

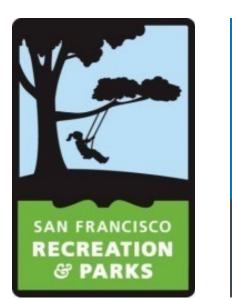
Current Status:

- RFQ closed March 25th
- 91 applications submitted
- Qualification Panel will be held
 Monday, April 25th
- Now scheduling Artist Review
 Panel 1 (slated for mid-May)

Ways to get involved!

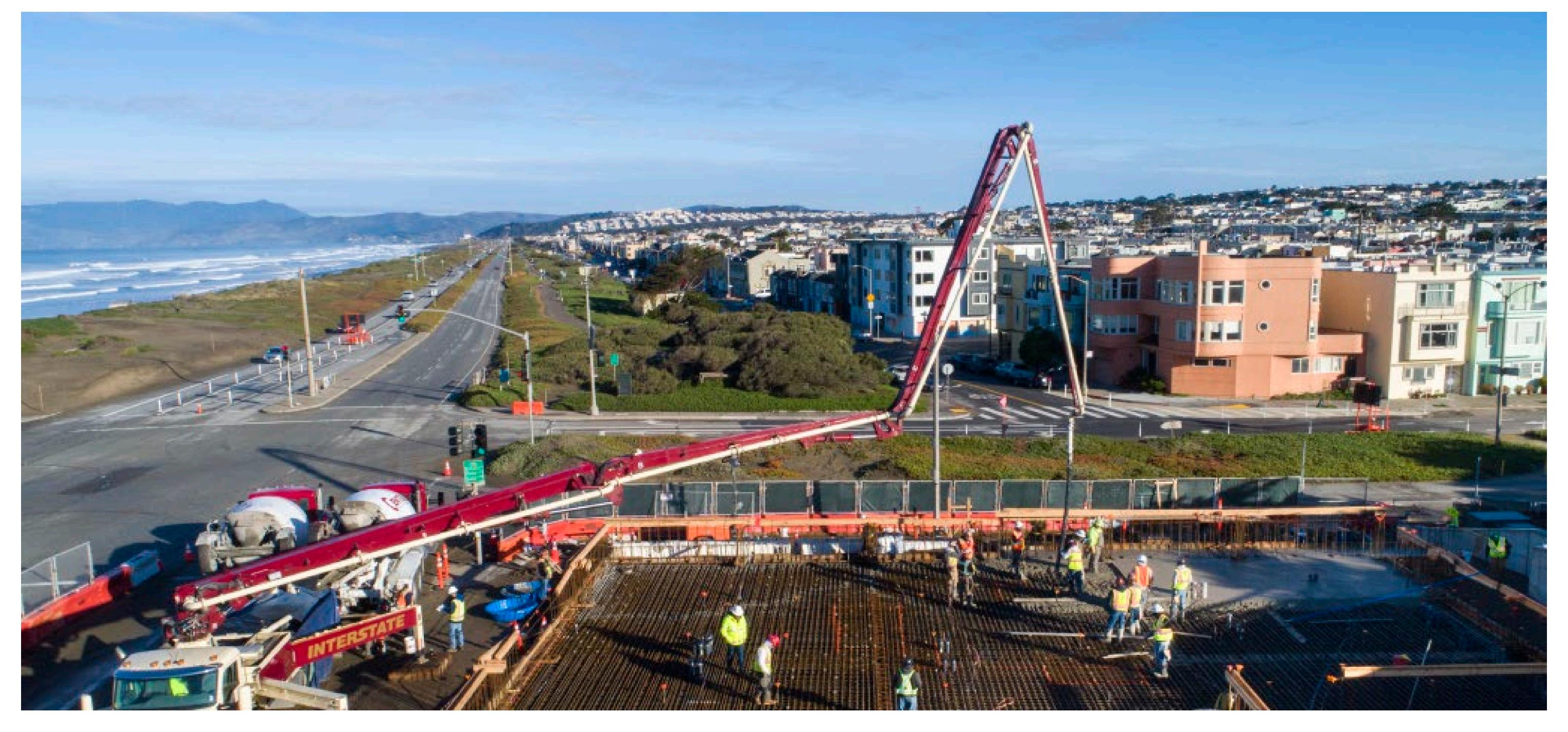
- Attend artist review panels to observe selection process
- Attend SFAC public meetings to provide public comment related to the Ocean Beach Climate Change Adaptation Public Art Opportunity
- Review finalists' proposals and provide feedback

If you have questions or would like more information, please contact Project Manager, Aleta Lee (aleta.lee@sfgov.org).









Westside Pump Station Reliability Improvements Project

Vince Mazzaferro, SFPUC Communications







Facility Improvements

Main Wet Weather Pumps

- Lack of redundancy, reduced efficiency

Bar Screens

- Lack of redundancy, frequent repair, inefficient screenings disposal process

Discharge Force Main Improvements

- Lack of flow capacity / reliability / redundancy

Electrical Power

- Single feed from PG&E is prone to outages, and has limited power capacity

Ventilation System Improvements

Odor control system is unused, ventilation fans require frequent repair

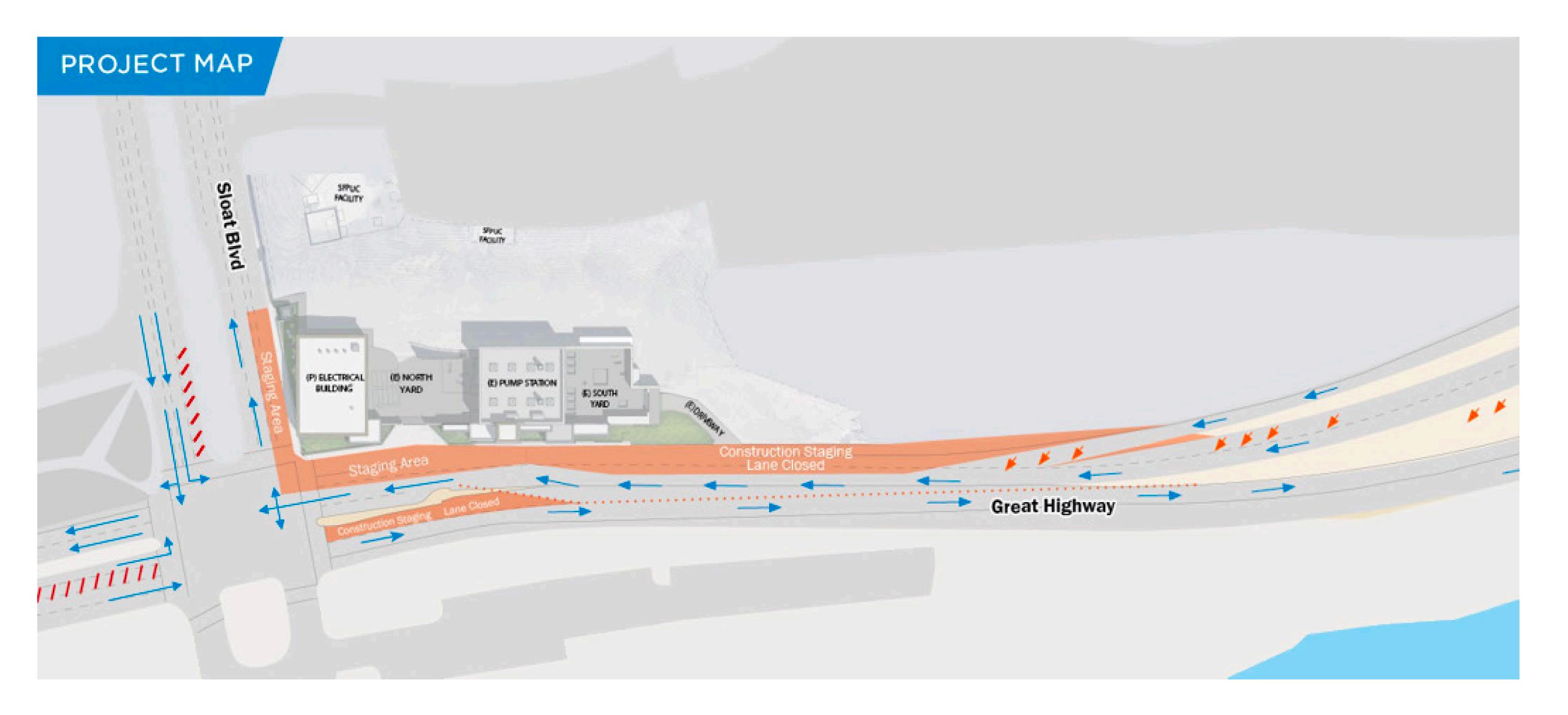








Traffic Control Measures









Construction Schedule

Estimated Construction Schedule

2021

2022

2023

2024

TARGET START SPRING 2021 – WINTER 2024 (SUBJECT TO CHANGE)







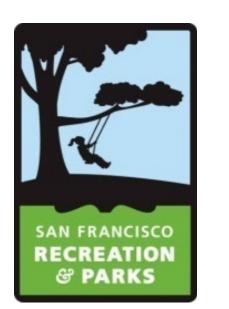






Westside Transportation System Updates









Westside Transportation Projects

Golden Gate Park Access & Safety Program

Co-lead: SFMTA, Rec Park

Great Highway

Lead: Rec Park Partner: SFMTA

Wawona & Vicente Stormwater & Water Main Replacement

Lead: PUC

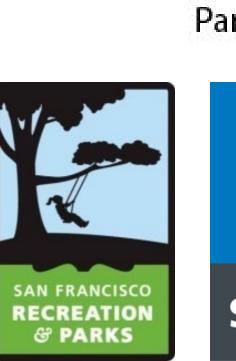
Westside Pump Station Lead: PUC

Ocean Beach Climate Adaptation Project

Lead: PUC Partners: Rec Park, SFMTA, Public Works

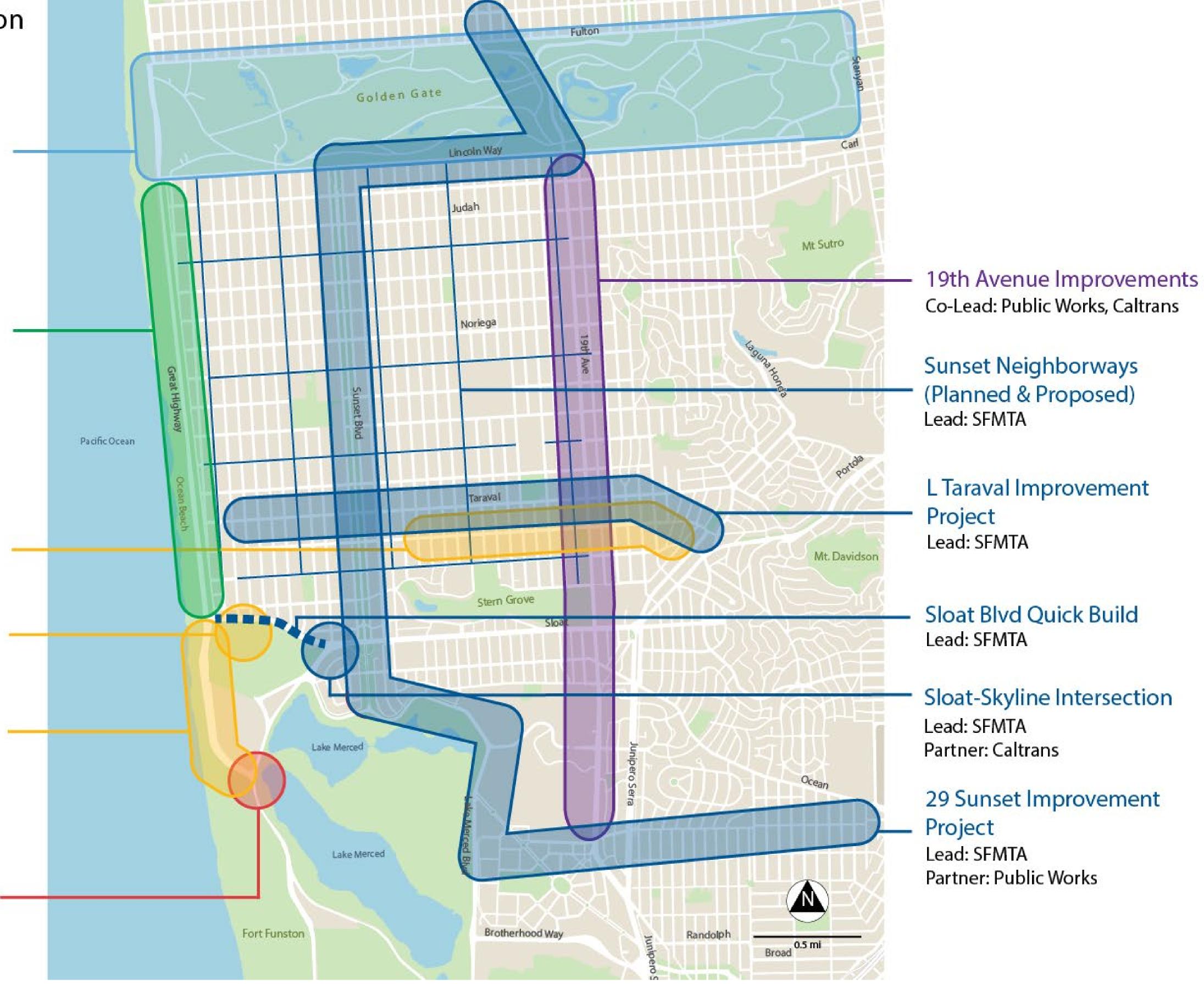
Skyline Blvd - Great Hwy Signalization Project

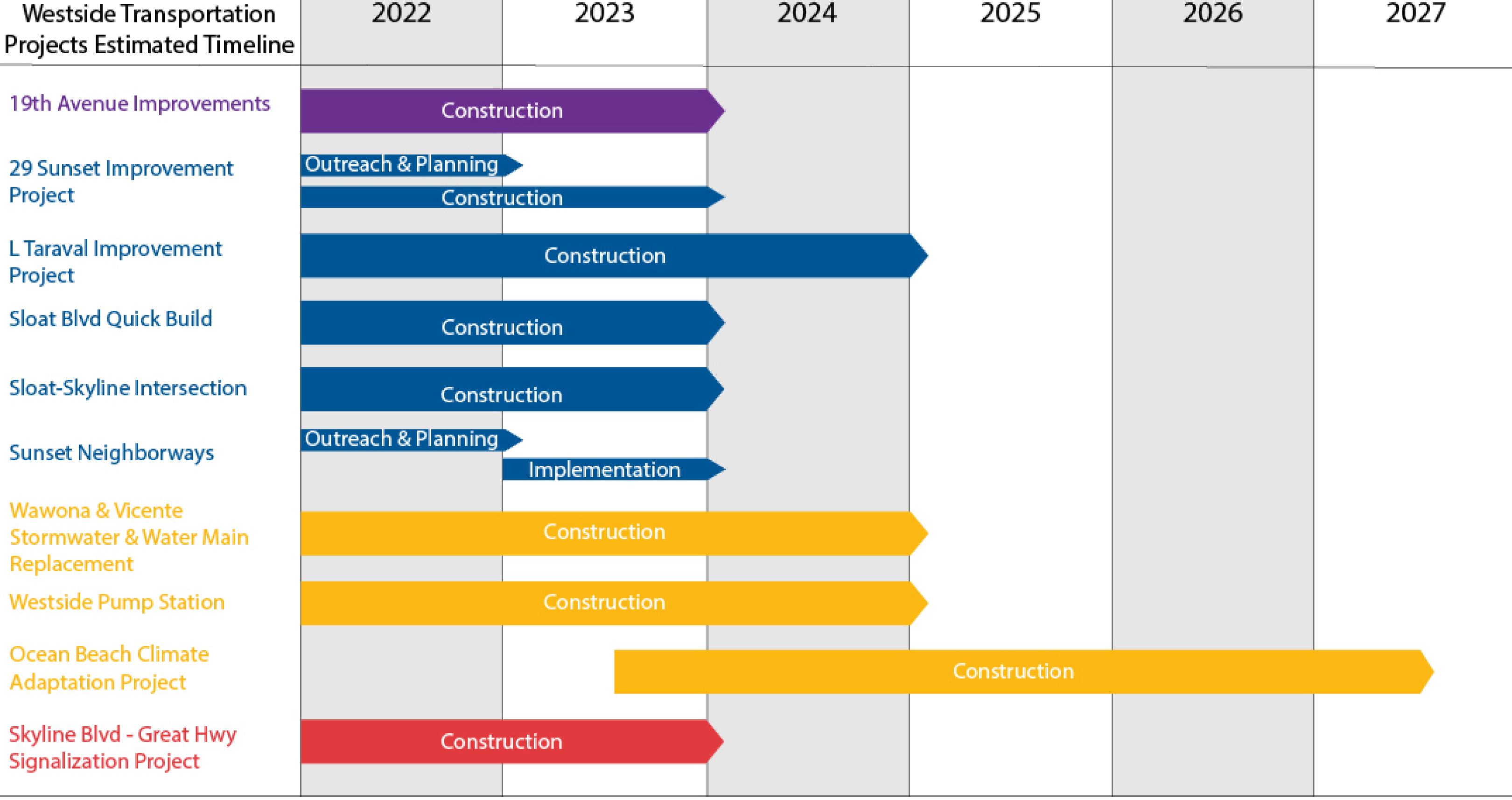
Lead: Caltrans
Partners: SFMTA, Public Works

















Q&A and Next Steps



Q&A Located at Bottom of Your Screen

Please enter all questions, comments, or feedback into the Q&A. Panelists will read and answer questions verbally as time permits.

If you are calling in by telephone:

- Press *9 to raise your hand if you have a question or comment.
- The moderator will call on you to unmute.
- You will be prompted to Press *6 to confirm unmute. Please limit questions to 2 minutes.

A summary of the Q&A, including questions that we are not able to answer this evening, will be posted on the SFPUC and Rec Park Ocean Beach Climate Change Adaptation Project websites.

Connect With Us

To receive updates on projects, or leave additional comments, connect with us at info@sfwater.org or (415) 554-3233

Information about the Climate Change Adaptation Project can be found at: sfpuc.org/oceanbeach

Information about the recreational and open space elements can be found at: bit.ly/soobproject

Information about the coordinated City effort to address erosion and climate change at Ocean Beach can be found at: sfplanning.org/ocean-beach

