



West Trail Living Shoreline Project Update

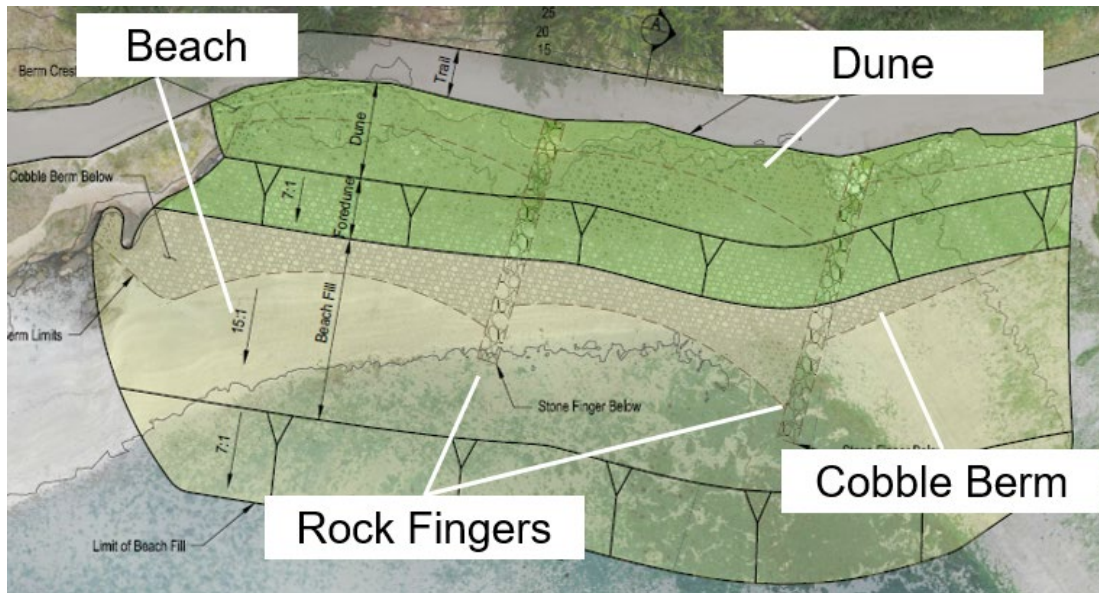
**San Mateo County Harbor District
Board of Harbor Commissioners Meeting**

November 2020



Project Overview

1. Shoreline Protection: Protect the trail from chronic erosion using multi-benefit, nature-based design technique.
2. Storm water Improvements: Improve the aesthetics, function and maintenance needs of the existing storm drain system.



PROJECT NEED

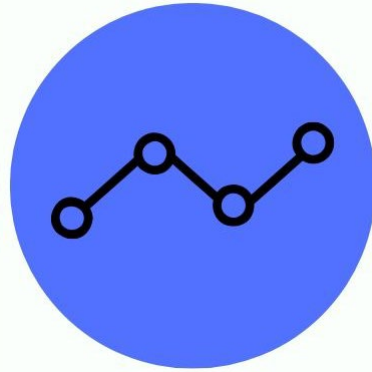


(Photo: www.coastsidebuzz.com)



(Photo: SMCHD 2020)

PROJECT STATUS



Engineering

Permitting

Construction

**Monitoring
&
Reporting**



DRAFT FINAL
PLANS, SPEC EST.
(August 2020)

SUBMITTED
(July 2020)

Winter 2020/21

5 Year Period
2021- 2026

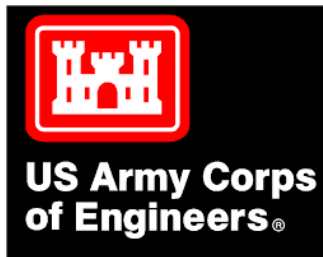


PERMITTING UPDATE

Permit Applications (Submitted July 2020):

- *U.S. Army Corps of Engineers*—Individual Permit CWA Section 404; RHA Section 10.
- *Regional Water Quality Control Board*—Section 401 Water Quality Certification/Waste Discharge Requirement.
- *Coastal Commission/County*—Consolidated Coastal Development Permit.

Consultations: U.S. EPA; NOAA Fisheries; U.S. Fish and Wildlife Service; Cal Department of Fish and Wildlife.



PERMITTING & APPROVALS UPDATE

- Held site visits and multiple meetings with agencies.
- Completed analyses and surveys required by permit applications.
- Completed additional analyses/research in response to agency requests.
- Addressed agency comments/concerns by modifying Project design plans.
- Expecting permits finalized by early winter 2021.
- CEQA – Received 2 comments on Draft MND, need to finalize



PROJECT PRE-CONSTRUCTION NEEDS

1. Surveys, Engineering & Monitoring Plans:
 - Eelgrass Survey
 - Finalize CEQA Document (MND)
 - Adaptive Management & Monitoring Plan
 - Habitat Restoration & Monitoring Plan
 - Develop Final Engineering Bid Set
 - Contractor Bid Period Support
2. Continued Permitting Coordination & Support
3. Native Plants for Dune & Biofiltration Basin



STUDIES COMPLETED

- CEQA:
 - ✓ Draft Initial Study/MND
 - ✓ Section 106 study
- Sediment Quality
 - ✓ Sampling and Analysis Plan Results Report
- Geomorphology/Hydrology/Hydraulics:
 - ✓ Geomorphic Assessment and Conceptual Design of Beach and Dunes
 - ✓ H&H study of Stormwater Improvements
 - ✓ Projections of Future Rainfall Estimates to Support Design of Drainage Improvements
- Biology:
 - ✓ Avian Rookery Survey
 - ✓ Beach and foredune vegetation establishment and related environmental enhancement options
 - ✓ Eelgrass Survey and Essential Fish Habitat Assessment Report
 - ✓ Wetland/Waters of U.S. and State Delineation Report
 - ✓ Biological Assessment Report



REMAINING PROJECT COSTS (ANTICIPATED)

Hard costs: ~\$2.0M with 20% Contingency

- Construction of Shoreline & Stormwater Improvements
- Native Planting & Maintenance

Soft costs: ~\$500k

- Construction management
- 5 year Physical & Biological monitoring



Next Steps

- CEQA & Permits (Anticipated Early 2021)
- Bidding Process – 40 days (January 2021)
- Construction – 120 days (March - June 2021)
- Native Planting - Dune and Biofiltration Basin (Fall 2021)





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