

Surfer's Beach Shoreline Protection and Coastal Access Enhancement Project





Project Partners

- **County of San Mateo**
- **California Department of Transportation**
- **City of Half Moon Bay**

Consultant

- **WRECO**

Project Funders

- **National Fish and Wildlife Foundation**
 - \$180,000 in Cosco Busan Oil Spill Mitigation Funds
 - \$20,000 local match from County Parks
- **County of San Mateo**
 - \$100,000
- **City of Half Moon Bay**
 - \$100,000
- **California Coastal Commission**
 - \$15,000 in mitigation funds
- **Caltrans**
 - \$1.48 Million

Objective

- **The Surfer's Beach project objectives are to:**
 - **Provide interim protection of Highway 1 and Coastal Trail from further coastal erosion**
 - **Provide safe pedestrian beach access via staircase**
 - **Construct Coastal Trail segment to connect existing trails and eliminate the gap that exists today**

Priorities

- **Interim measure to protect the Coastal Trail and roadway while long-term solution is identified**
- **Enhance coastal access and recreation**
- **Design to State standards**
- **Should be easily removable**
- **Will have minimal amount of beach take**
- **Avoid or minimize adverse impact to local wetlands**

An aerial photograph of a coastal area. At the top, a paved road runs horizontally with a dark car driving on it. Below the road is a sandy beach with some sparse vegetation and a few people. The ocean waves are breaking onto the shore, creating white foam. The overall scene is a typical coastal landscape.

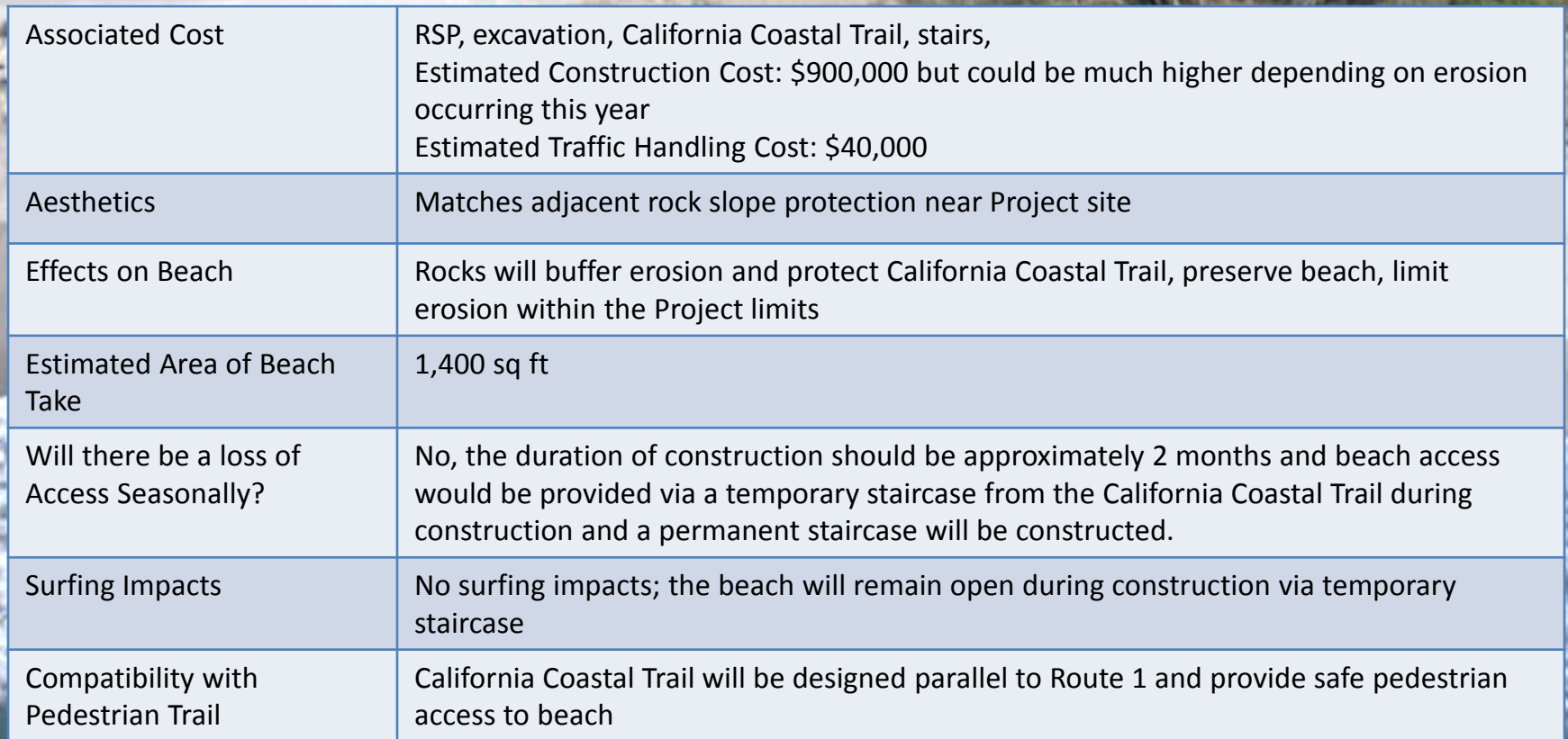
Process

- **Environmental Studies for NEPA and CEQA**
 - Natural Environmental Study
 - Location Hydraulic Study
 - Water Quality Report
 - Hazardous Waste Assessment
 - Geotechnical / Paleo Study
 - Cultural Resources
 - Sand Supply Study
 - Wave Runup Analysis
 - Sea Level Rise

Process

An aerial photograph of a coastal area. At the top, a paved road runs horizontally with a dark car visible. Below the road is a sandy beach with some sparse vegetation and a few people. The ocean waves are breaking onto the shore, creating white foam. The sky is not visible.

- **Permitting**
 - **California Coastal Commission**
- **Consultations**
 - **CDFW Marine Region**
 - **RWQCB**
 - **NOAA**



Associated Cost	RSP, excavation, California Coastal Trail, stairs, Estimated Construction Cost: \$900,000 but could be much higher depending on erosion occurring this year Estimated Traffic Handling Cost: \$40,000
Aesthetics	Matches adjacent rock slope protection near Project site
Effects on Beach	Rocks will buffer erosion and protect California Coastal Trail, preserve beach, limit erosion within the Project limits
Estimated Area of Beach Take	1,400 sq ft
Will there be a loss of Access Seasonally?	No, the duration of construction should be approximately 2 months and beach access would be provided via a temporary staircase from the California Coastal Trail during construction and a permanent staircase will be constructed.
Surfing Impacts	No surfing impacts; the beach will remain open during construction via temporary staircase
Compatibility with Pedestrian Trail	California Coastal Trail will be designed parallel to Route 1 and provide safe pedestrian access to beach

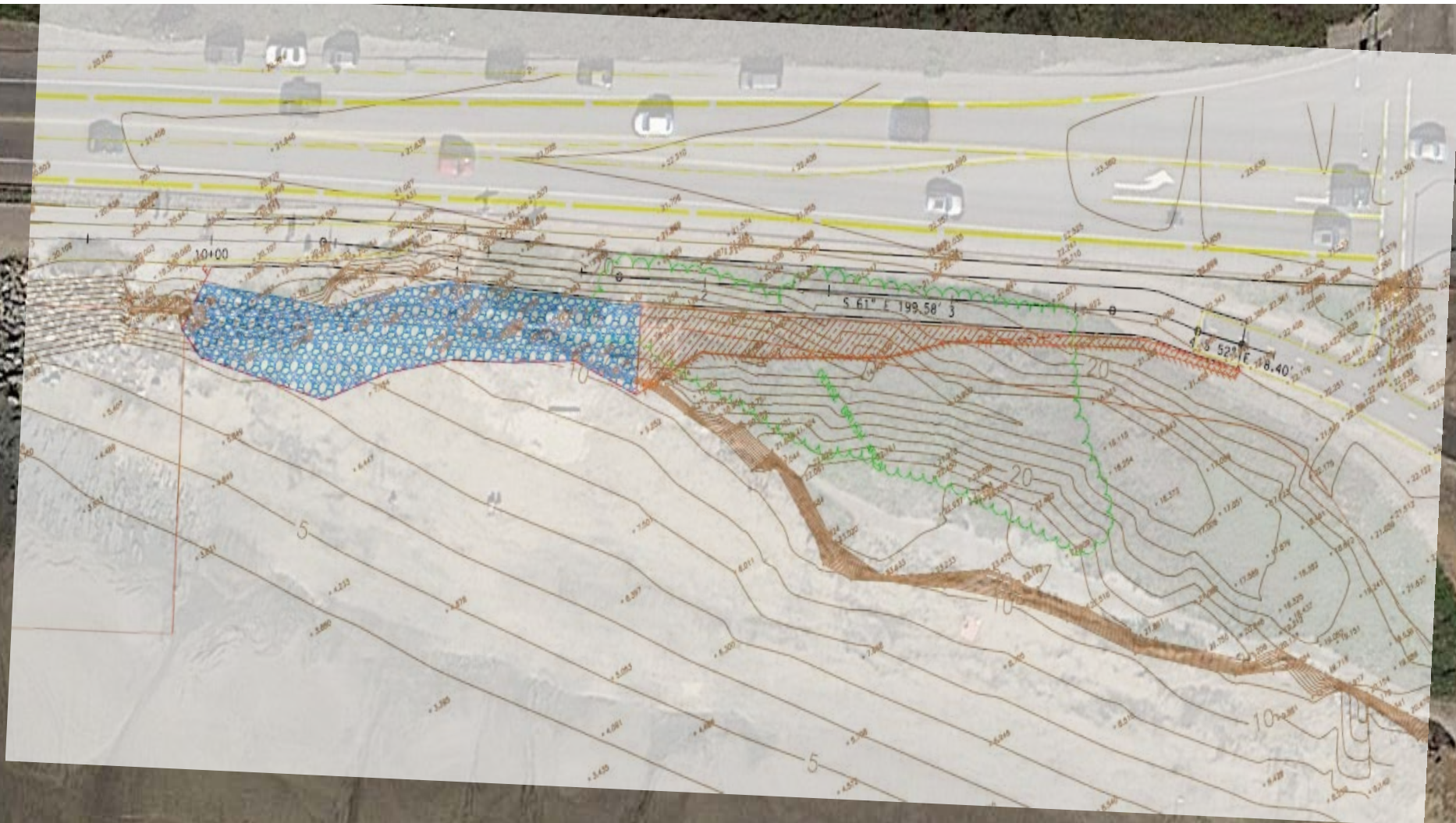
Timeline

- **Submittal of CDP Application- Early March 2015**
- **Coastal Commission hearing- May 13-15, 2015**
- **California Transportation Commission approval of construction funds- June 24-25, 2015**
- **Anticipated commencement of construction- September 2015**
- **Anticipated completion of construction- October/November 2015**

Plan View



Plan View



Beach Cross Section



Beach Cross Section



Project Plan



Project Plan



Visual Simulation

