

SAN FRANCISCO INTERNATIONAL AIRPORT SHORELINE PROTECTION PROGRAM

The scope of the program is to plan, permit, design, and construct a comprehensive shoreline protection system and associated storm drainage improvements. The goal is to mitigate against flooding and provide protection and adaptability against future sea level rise along the Airport's 8-miles of bay front shoreline.

Area Map



Timeline

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Feasibility and Joint Creek Study	[Bar]												
Conceptual Design				[Bar]									
Environmental Review and Permitting						Phase I				Phase II			
Final Design								Phase I		Phase II			
Construction (Phase I)										Phase I			
Construction (Phase II)												Phase II	

Partners

- Planning/Design: AECOM, AGS, ESA, LEAN Engineering, LSA, Moffat & Nichol, Mott MacDonald, Ricondo, Schaaf & Wheeler, and Telamon
- Engagement: California Coastal Conservancy, County of San Mateo, U.S. Coast Guard, U.S. Army Corps of Engineers, Bay Conservation & Development Commission, National Maritime Fisheries, State Historic Preservation Office, U.S. Fish & Wildlife Service, California Department of Fish & Wildlife, Federal Aviation Administration, Regional Water Quality Control Board, City of Burlingame, City of South San Francisco, SamTrans, City of Millbrae, and City of San Bruno
- Funding: California Coastal Conservancy – Joint Creek Study (San Bruno Creek/Colma Creek Resiliency Study)

Funding

The program is funded by Airport Revenue Bonds.

Phase I: \$58 million from current Capital Budget

Phase II: \$325 million anticipated funding by Revenue Bonds

Results

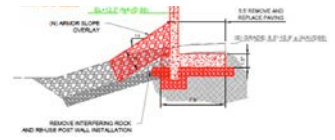
SFO completed a Feasibility Study and Joint Creek Study in 2015 that provided an assessment of system deficiencies in respect to flooding and climate change and recommended remedial solutions. In 2016, SFO started to develop a Conceptual Design report that took these solutions and explored additional alternatives based on 2012 science from the National Research Council. With the release of the new State of California Sea Level Rise Guidance 2018 document, SFO is scheduled to complete the final Conceptual Design report and start the environmental permitting process in June 2018.

Website

<https://www.flysfo.com/community/floodplain>



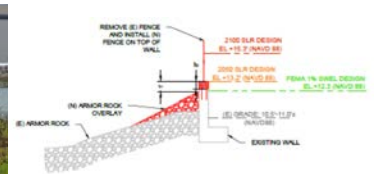
EXISTING GAP AT REACH 2-TREATMENT PLANT



CONCEPTUAL DESIGN ALTERNATIVE: UPGRADE EXISTING WALL WITH CONCRETE CAP EXTENSION AND ARMOR ROCK REVETMENT



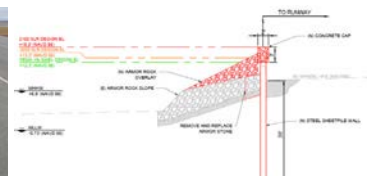
EXISTING DIKE AND VINYL SHEET PILE PROTECTION AT R7-19 ENDS



CONCEPTUAL DESIGN ALTERNATIVE: UPGRADE EXISTING WALL WITH CONCRETE CAP EXTENSION AND ARMOR ROCK REVETMENT



EXISTING CONCRETE WALL WITH RIPRAP PROTECTION AT R11-28R



CONCEPTUAL DESIGN ALTERNATIVE: NEW SHEET PILE WALL WITH ARMOR ROCK REVETMENT