Embarcadero Early Projects

Pier 24-1/2 To Pier 28-1/2 Bulkhead Wall and Wharf Substructure Earthquake Safety Retrofit Project



About the Project

The bulkheads located between Pier 24 ½ and Pier 28 ½ are some of the oldest on the	Project Phase		
waterfront. They support a portion of the Embarcadero Promenade and the remaining mission-			
style pier buildings. The Port's Multi-Hazard Risk Assessment determined the rock dike portion of	✓	Planning	
the Seawall here to be more stable in earthquakes than other areas. However, there is very high	$\mathbf{\lambda}$	Pre-Design	
ake risk to the tall bulkhead wall and wharves because of the way they are connected.		The Design	
Sea level rise flooding is an emerging risk, though the bulkheads here are somewhat higher.		Detail Design	
Simpler project alternatives focus on improving earthquake safety by retrofitting the most		Construction	
vulnerable portions of the wall and wharf substructures. Higher complexity alternatives focus on	Construction		
permanently stabilizing the seawall and constructing improvements that are adaptable to future		Closeout	
sea level rise.		Complete	

	Project Details	Responds to Community Feedback	Project Update, Q1 2023
Port PM:	Matt Bell	✓ Prioritizes life safety and emergency	Pre-Design Status
	matthew.n.bell@sfport.com	response.	Needs Assessment: Done Q4/2022
Total Cost:	TBD*	 Protects and preserves maritime resources. 	Alternatives Analysis: In-ProgressConceptual Engineer: Start Q4/2023
Duration:	TBD*	✓ Ensures public access to the	Lieblichte
Complexity:	Low	waterfront and historic places and an inviting waterfront for all.	 <u>Highlights</u> Advancing design of a range of alternatives including compatibility
*To be determ	ined at the end of Pre-Design	 Supports an adaptable and equitable waterfront. 	with adjacent pier development solutions.

