



Oakland Alameda Adaptation Committee (OAAC):

A coalition of shoreline communities, agencies and stakeholders working to coordinate the Oakland Alameda subregion flood and adaptation projects to protect and restore water quality, habitat, equity, transportation and community resilience.



OAAC: Project Partners

Agencies















Community Partners

















OAAC ADAPT Projects

- The Subregional Adaptation Plan is a long-term plan that details preliminary strategies and pathways for shoreline communities to take as the climate and shorelines change over time
- The Oakland Alameda Estuary Project is a near-term sea level rise adaptation design concept to address increased coastal, stormwater, and groundwater flooding for up to two feet of sea level rise over the coming decades
- The Bay Farm Island Adaptation
 Project is a near-term sea level rise adaptation project to address two feet of sea level rise over the coming decades.



OAAC Project: Schedule



Near-Term Oakland Alameda Estuary Adaptation



OAAC Project: Sea Level Rise Criteria

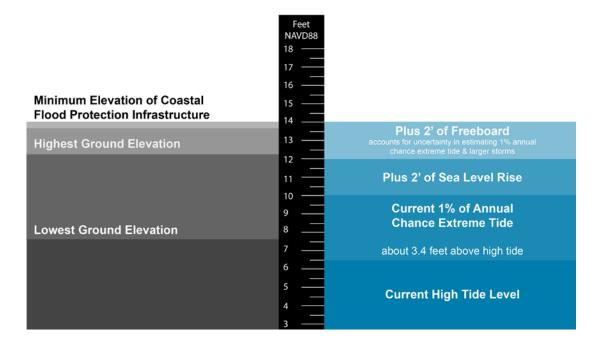
Near Term

2060 - 2080

35 to 50-year adaptation project lifespan

2' of sea level rise

Protect to elevation +14'



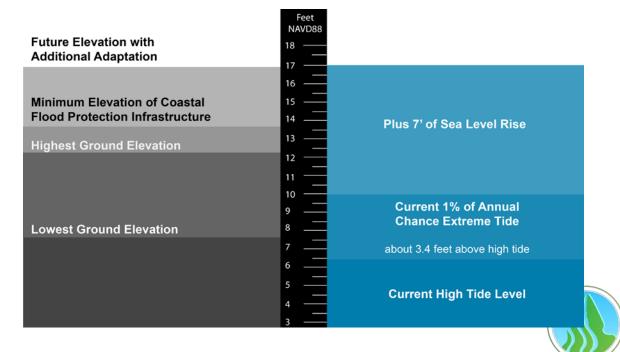
Long Term

2100+

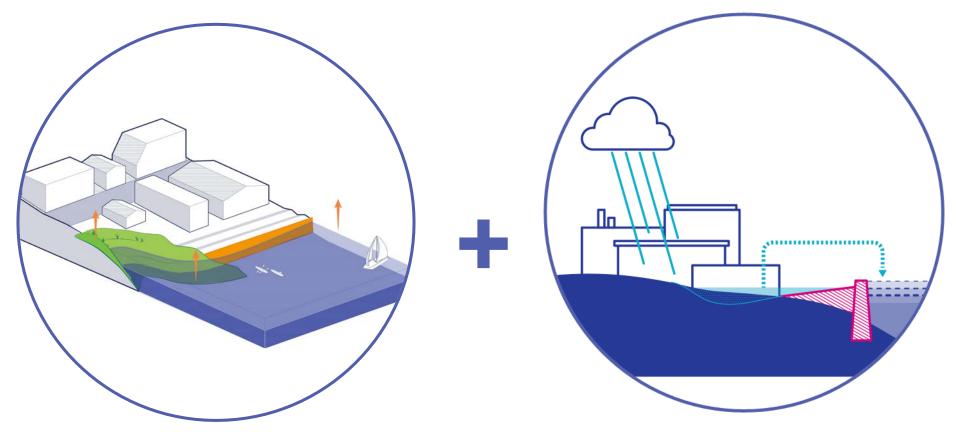
Build upon near term projects

3.5 - 7' of sea level rise

Protect to elevation +17'



OAAC Project: Combined Adaptation



Shoreline elevation to prevent coastal flooding from sea level rise and storm surges

Inland adaptation (green and grey infrastructure) to manage stormwater and groundwater









Waterfront Park with beach access and rocky intertidal habitat







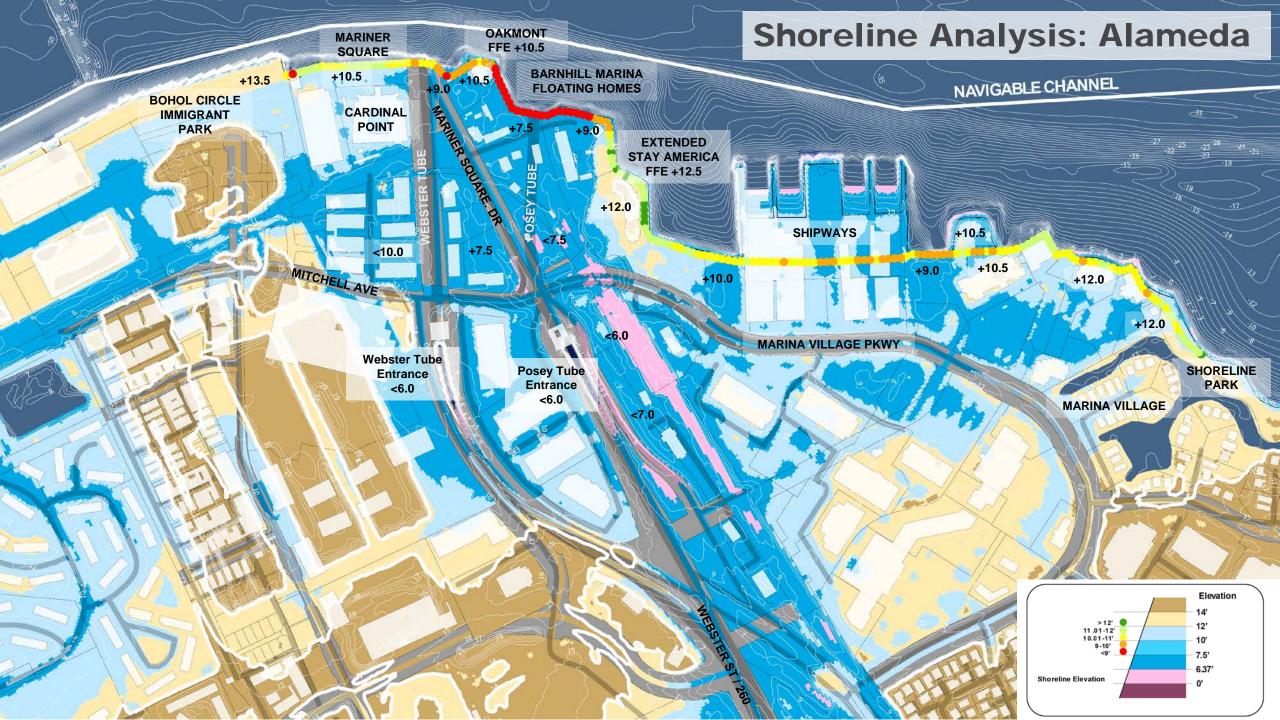


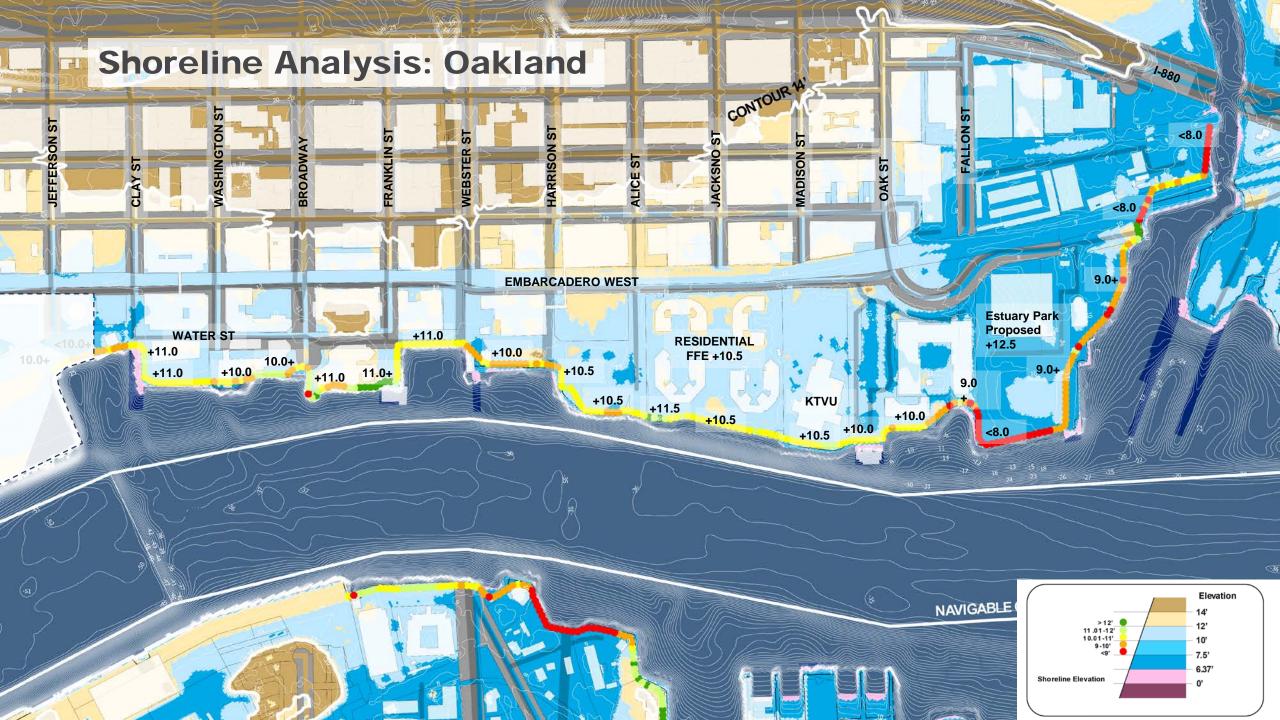
Oakland-Alameda Estuary Near-term Adaptation Project

November 2024

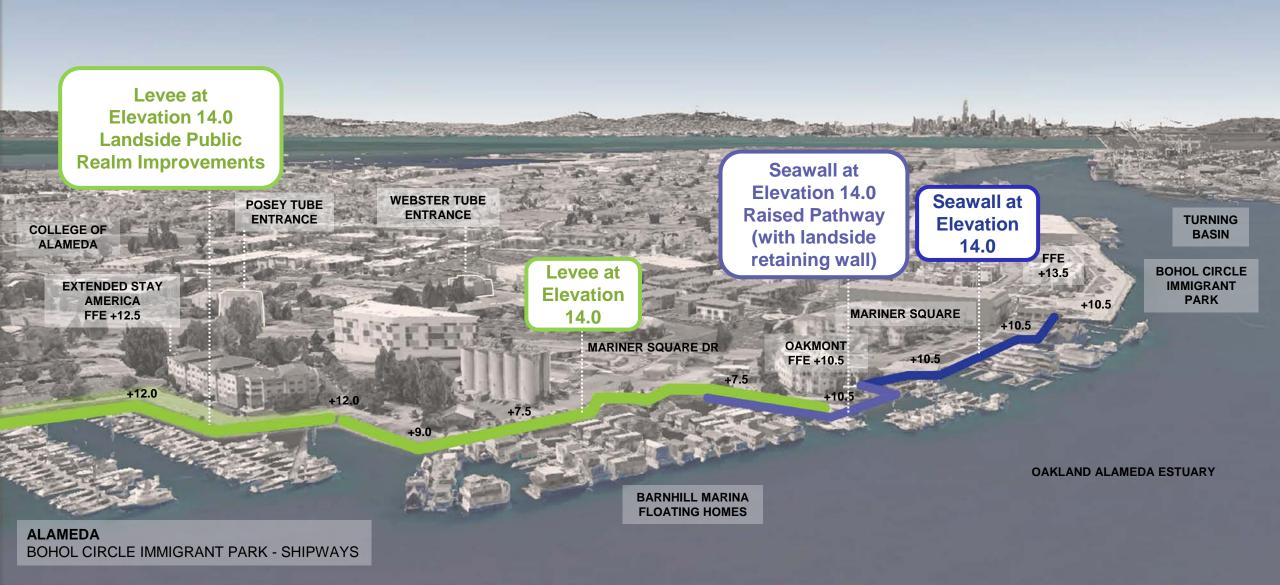








Near-term Adaptation Concept Bohol Circle Immigrant Park to Shipways



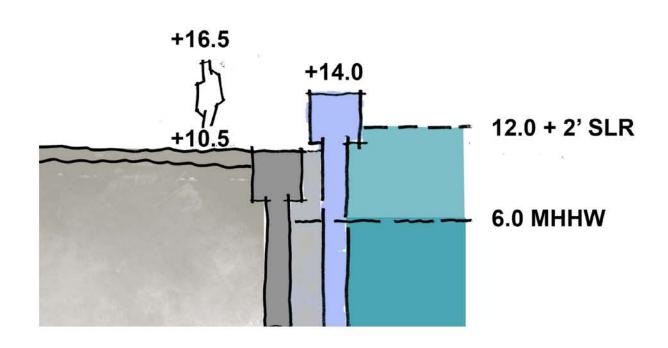
Near-term Adaptation Concept

Shipways to Marina Village



Alameda Shoreline - Near-term Adaptation

Typical Condition (Oakmont to Bohol Circle) Elevated **Seawall**





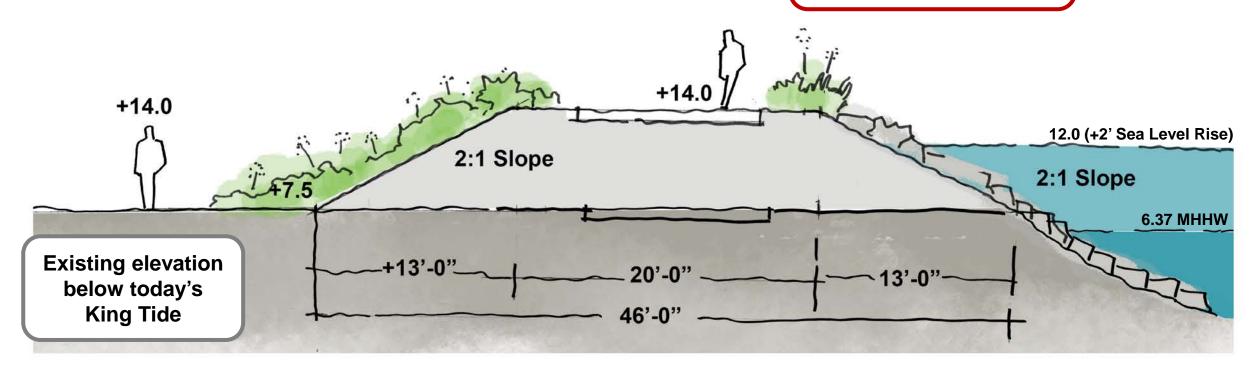


Alameda Shoreline - Near Term Adaptation

Typical Condition (Shipways to Barnhill Marina) Shoreline **Levee**

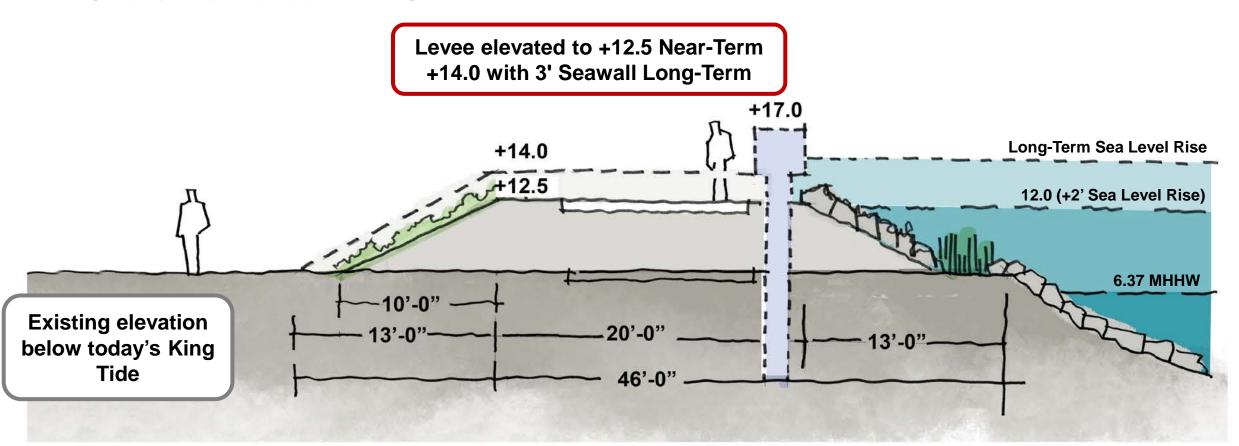
Levee elevated to +14.0.

Over 6 feet tall relative to adjacent grade.



Alameda Shoreline - Long-term Adaptation

Typical Condition (Shipways to Barnhill Marina)
Shoreline Levee with Seawall



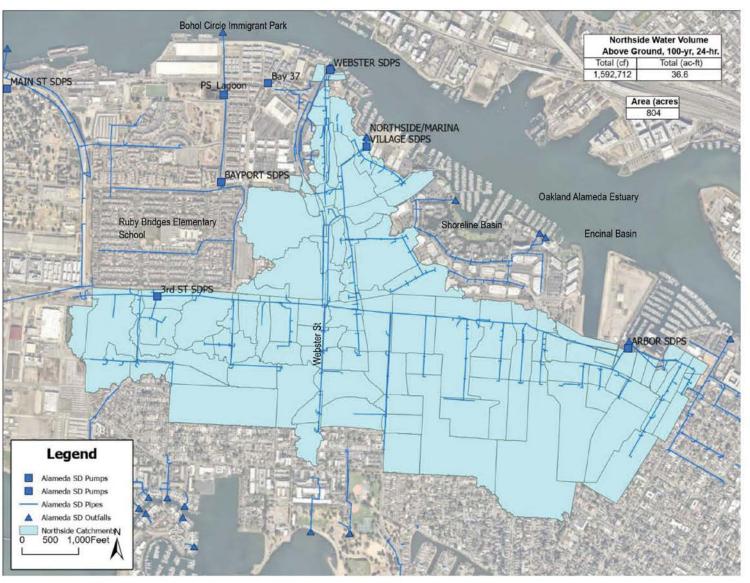
Inland Flooding Analysis Stormwater: Northside of Alameda

- Volume of water above ground (stormwater flooding) currently generated by 100-yr, 24-hr storm: 36.6 acre-feet
- This is the volume of water that does not fit in Alameda's storm drain system today.
- Analysis includes stormwater detention for today's volume with added capacity for future increases.

Estimated Future Precipitation % Increase With Climate Change

		10-yr	100-yr
2050	3-hr	21.6%	25.8%
	24-hr	17.9%	22.1%
2060	3-hr	27.8%	32.7%
	24-hr	22.2%	26.8%
2070	3-hr	33.7%	39.3%
	24-hr	25.9%	31.2%
2080	3-hr	40.7%	47.1%
	24-hr	30.7%	36.6%
2090	3-hr	49.6%	56.9%
	24-hr	37.1%	43.7%
2100	3-hr	59.0%	67.2%
	24-hr	43.6%	51.0%

San Francisco Bay Area Domain SSP5-8.5



Inland Flooding Conceptual Detention Basin Locations



Bay Farm Island Adaptation Project

November 2024



BFI Project: Current Flood Conditions





BFI Project: Near-term Project Area









BFI Project: Preferred Near-term Alternative

- Nature-based solutions
- Levee from lagoon to Veterans Court
- Lagoon management: Tide gate & pump station replacement
- Storm drain system modifications to remove penetrations
- Marsh expansion at Veterans Court

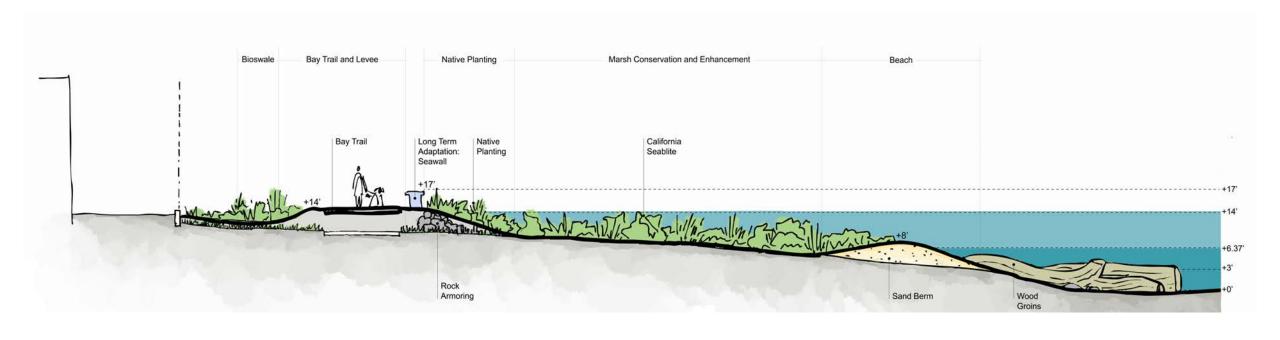
Nature-Based Solutions

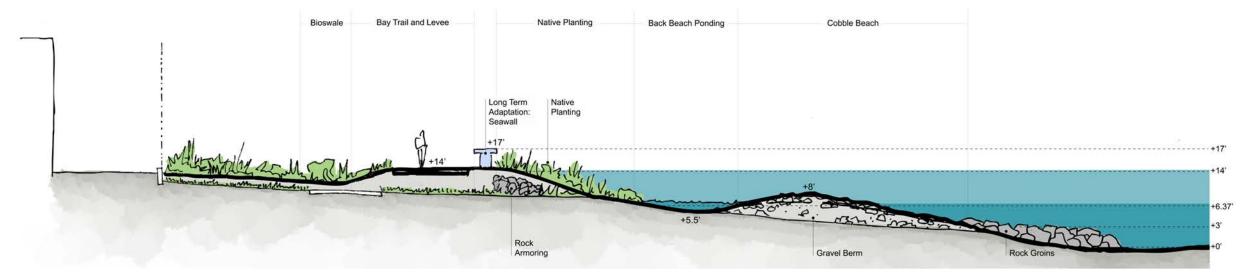
Levee & Floodwall & Nature-Based Solutions



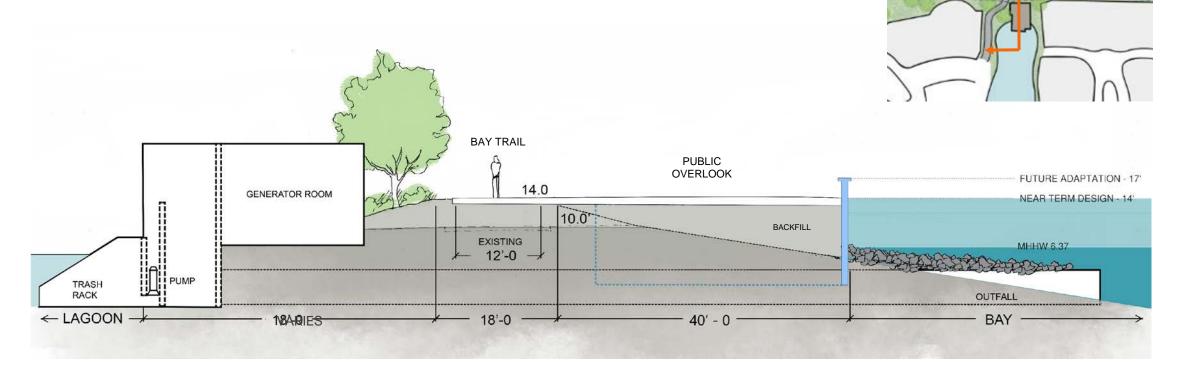


BFI Project: Levee / Bay Trail / Habitat Concepts





BFI: Pump Station & Tide Gate Replacement



- Interior drainage analysis/improvements to comply with FEMA 65.10
- Maintain existing lagoon circulation & stormwater management goals
- Clarify Operations & Maintenance responsibilities
- Obtain ROW, easements



BFI Project: Veterans Court Adaptation





- Losing public road/parking past Park
- Currently 40 parallel parking spaces
- 20-25 formal spaces maintained, including ADA spaces
- Access & maintenance of proposed levee
- Coordinating with Caltrans and EBRPD on options for future bicycle/pedestrian bridge and access



FEMA BRIC Grant: Near-term Project (Phase 1)



BRIC federal: \$50 m (90%)

Non-federal: \$5.5 m (10%)

(±0/0)

Total: \$55.5 m

Recommended for further review by FEMA

Start: 2025?

Construction: 2030

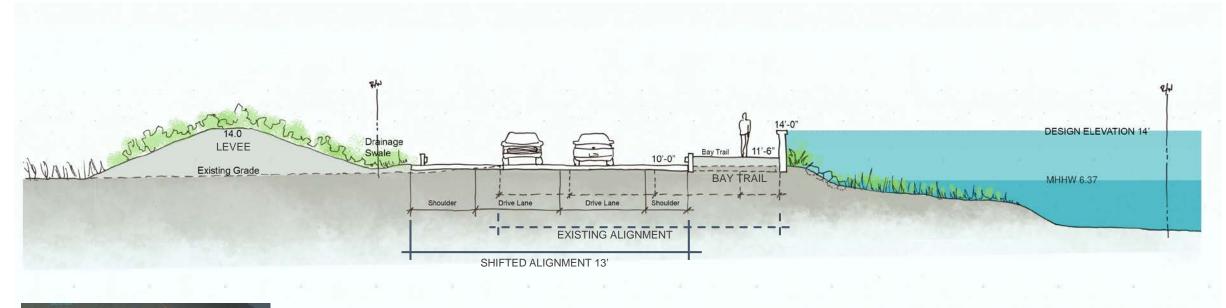


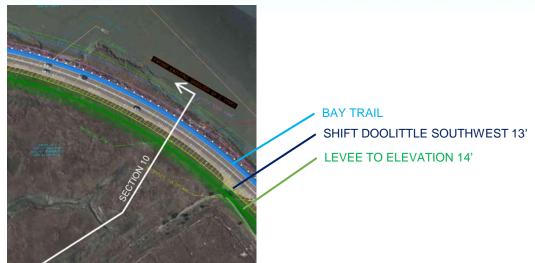
FEMA BRIC Grant: Bay Trail Gap Closure





FEMA BRIC Grant: Proposed Adaptation - Doolittle Drive







Subregional Adaptation Planning

November 2024



Subregional Adaptation Plan Process

Oct 2023 – Mar 2024

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Apr 2024 – Mar 2025

Apr – Jun 2025

Jul – Sep 2025

Charting the Course

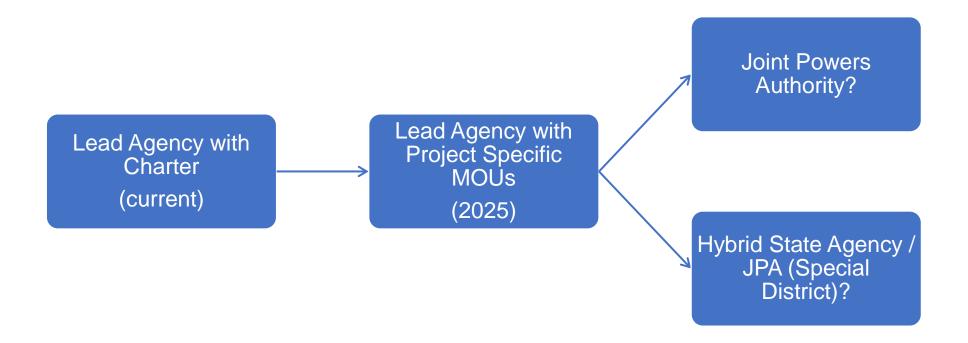
Strategy Development

Public Input & Strategy Refinement

Plan Completion & Council Hearings



Governance: Recommended Evolution





Governance: Project-specific MOUs

Project	Funding source	MOU partners	Other potential partners
Bay Farm Island/Doolittle Project	BRIC	City of AlamedaCity of OaklandPort of Oakland	CaltransEBRPDCommunityPartners
Estuary Project	WRDA	City of AlamedaCity of OaklandPort of Oakland	CaltransCommunityPartners

