Agenda

- **Introductions**
- **Projects Overview**
  - 62nd Place Promenade Repairs
  - Belmont Pool
  - Entrance Channel Dredging/Nourishment
  - Docks (Berths 1 and 2)
  - Alamitos Bay Water Quality Enhancement
  - Marine Debris & Trash Capture
  - Peninsula Boardwalk

Charlene Angsuco

Tidelands & Parks, PMO/Division Manager, Public Works

Colin Averill, P.E.

Stormwater, Division Manager, Public Works

Stephen Figueira, P.E.

Tidelands & Parks, Sr. Civil Engineer

62nd Place Promenade Maintenance

March 23, 2026

Community Update

Alamitos Beach Yacht Club



62nd Place Promenade Maintenance

Scope:

- Remove pavers, replace aggregate, and seal cracks in walls from landside (terminus of 62nd Place and Bayshore Walk)

Status:

- Maintenance project received funding in FY2024
- Submitted Coastal Development Permit application in March 2025 and Waiver received.
- Utilizing on-call contractor to perform wall repairs and sealing.
- Anticipated completion April 2026

Budget:

- $175,000 Tidelands/Marina



Belmont Plaza Pool

March 23, 2026

Community Update

Alamitos Bay Yacht Club



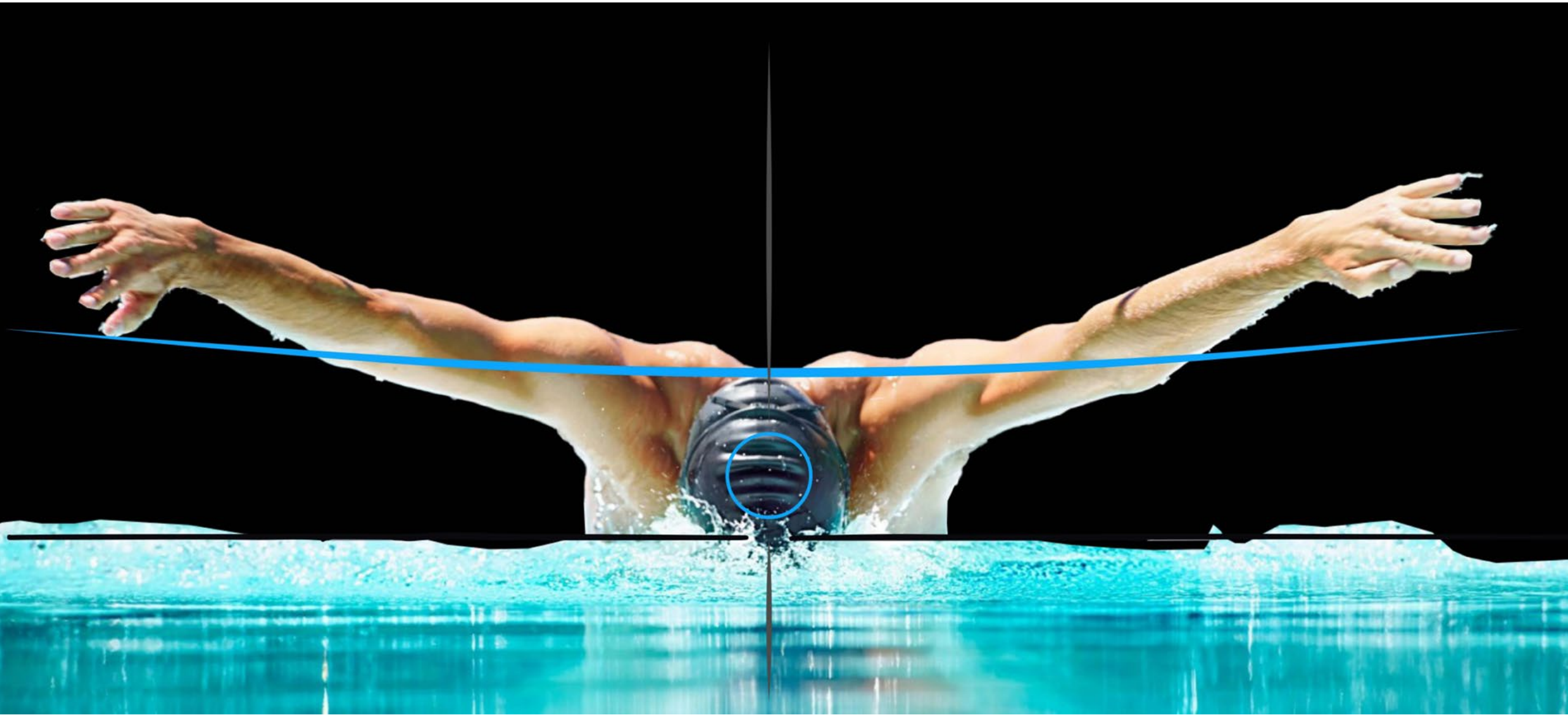
Overview

1. Project Design and Programming
2. Milestones
3. Current Project Status and Next Steps

Current Design



Design Inspiration



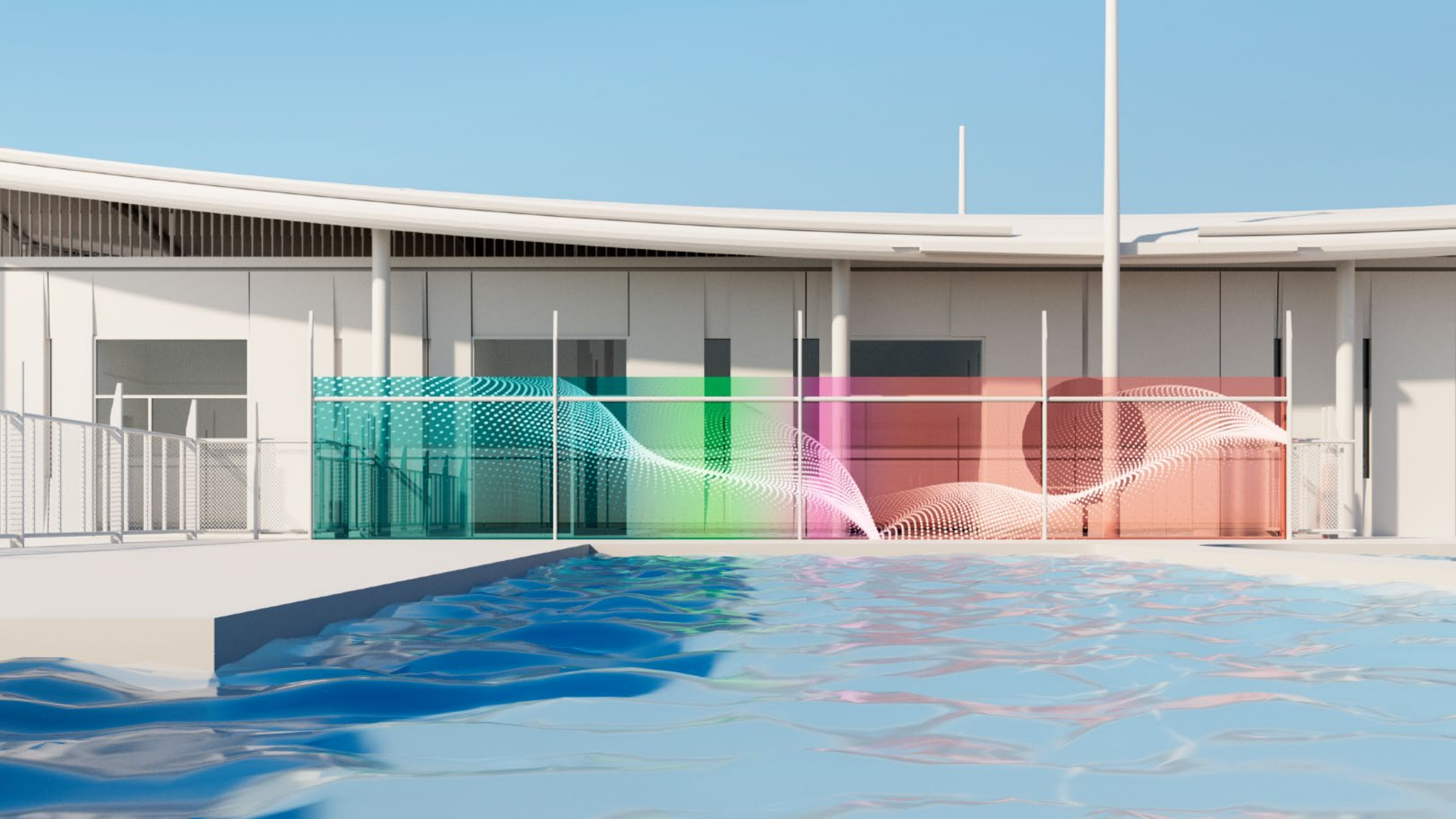

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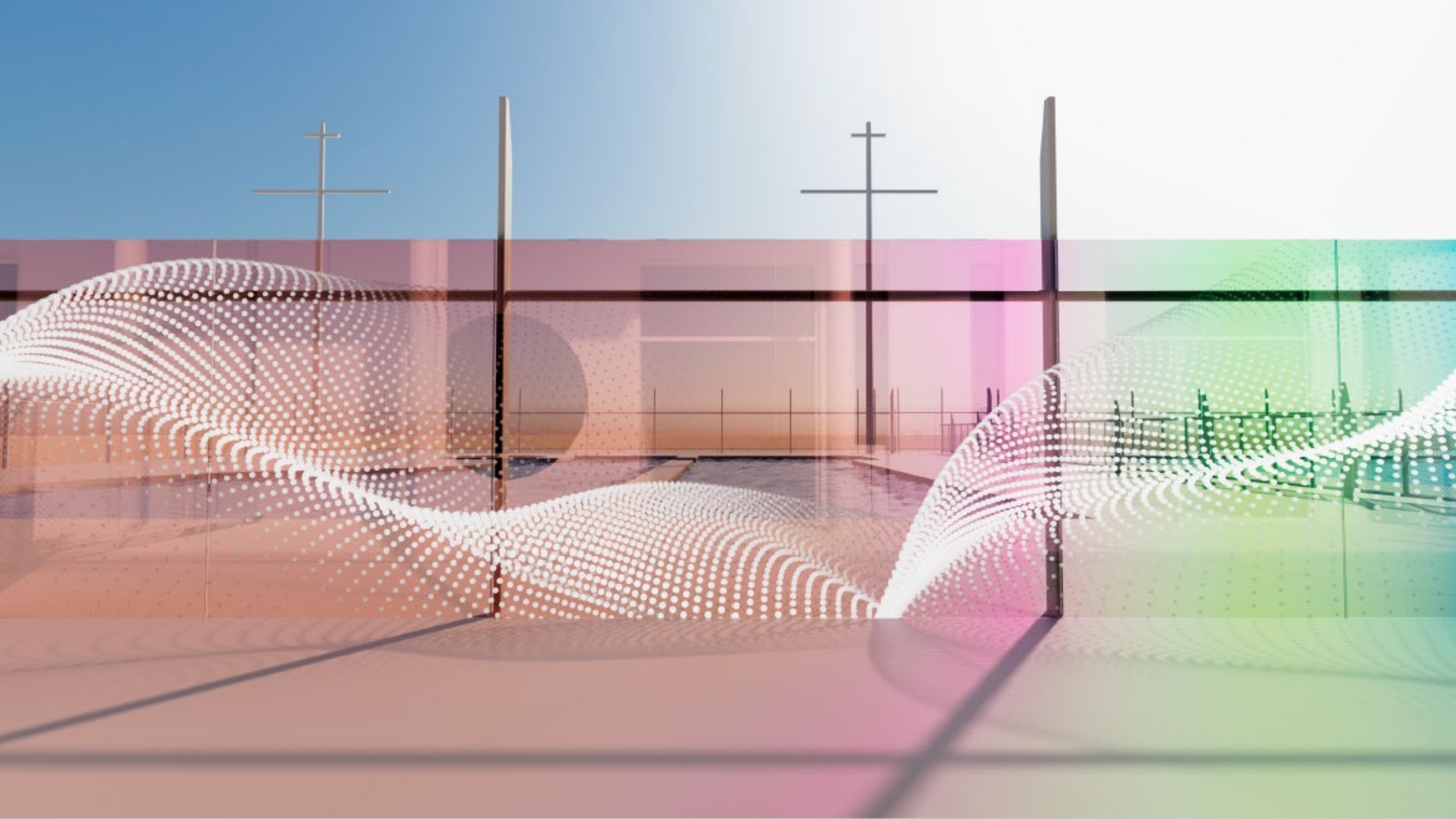


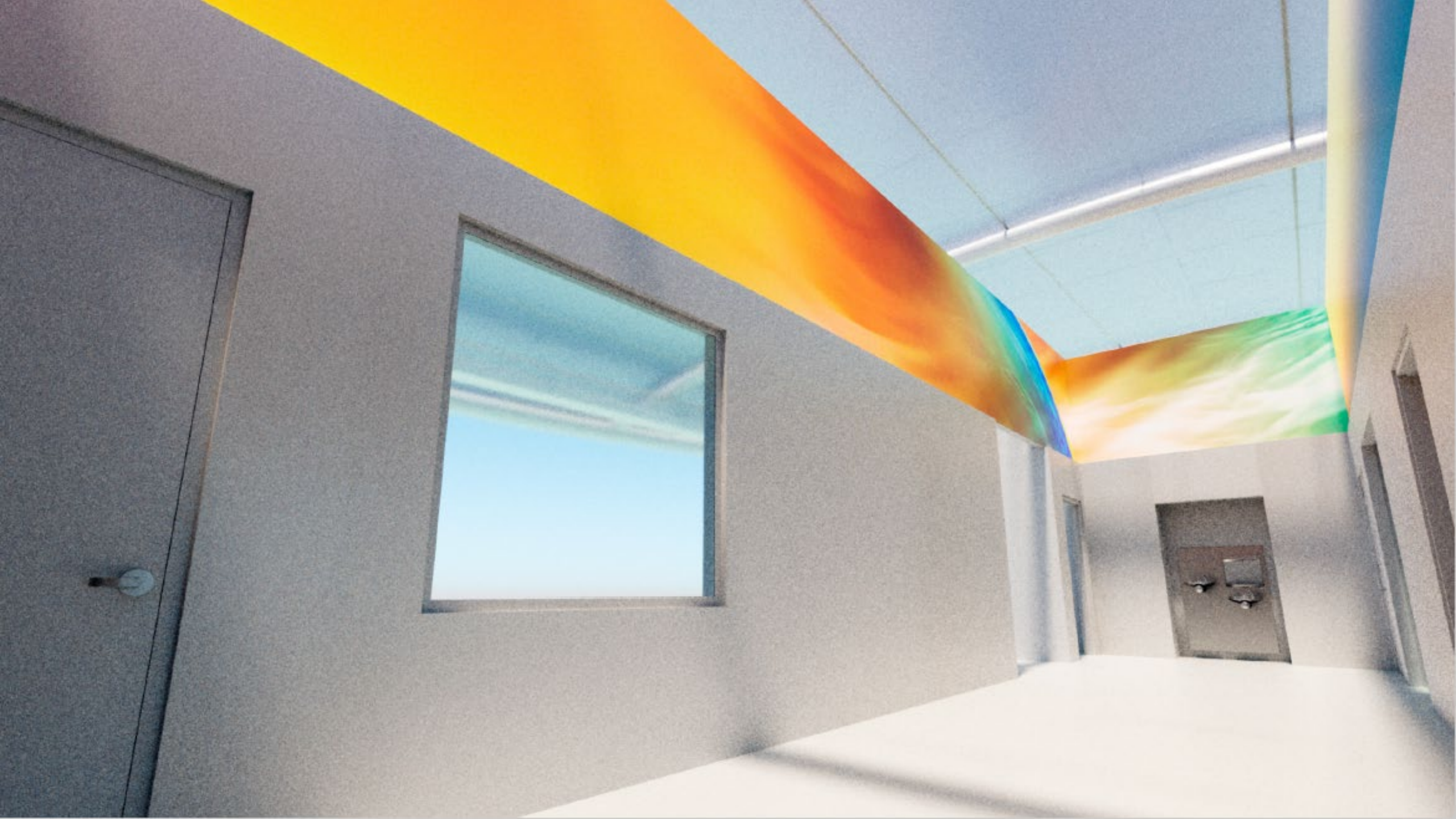

GUARD
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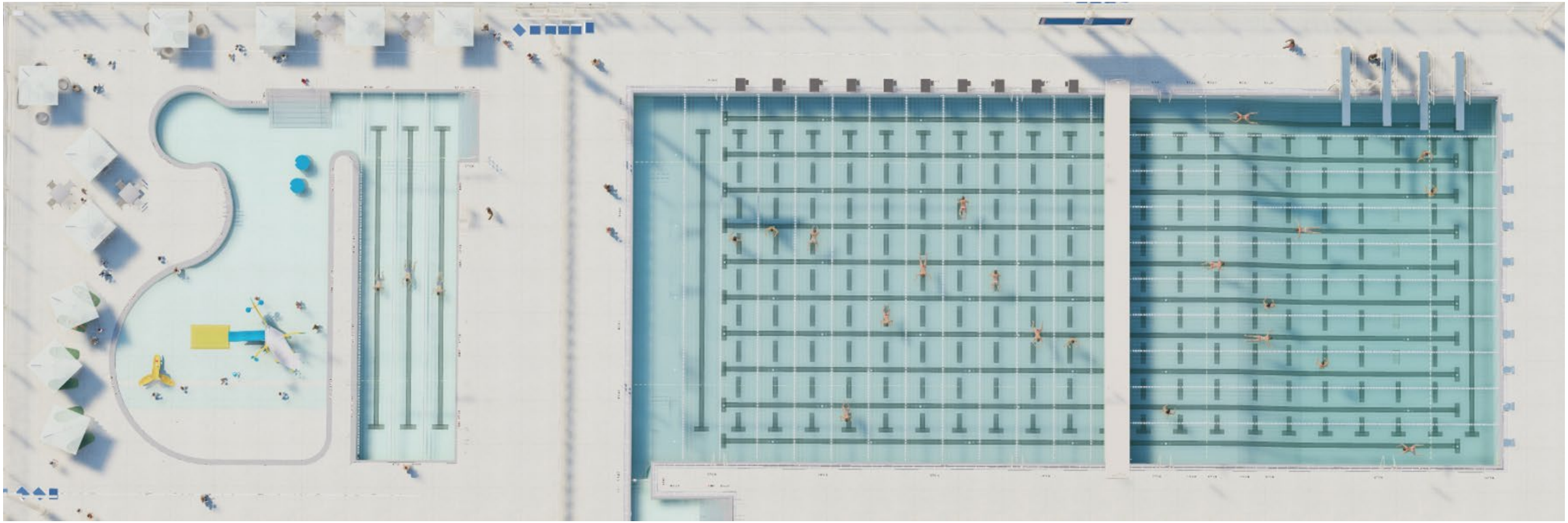






Overview of Water Bodies

- 50M pool with movable bulkhead, 4 springboards
- Combined instructional and recreational pool



50M Pool Flexible Programming

- Movable bulkhead
- (4) springboards
- Removable recreational elements such as climb walls and zip lines are part of the project. Additional work will be required to complete permitting.

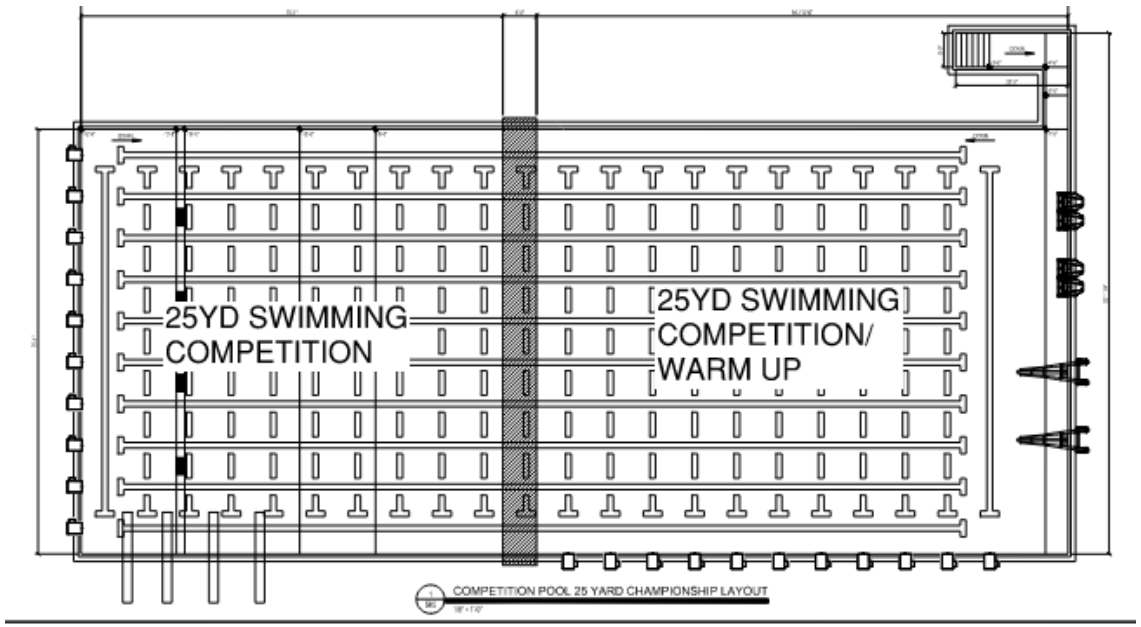


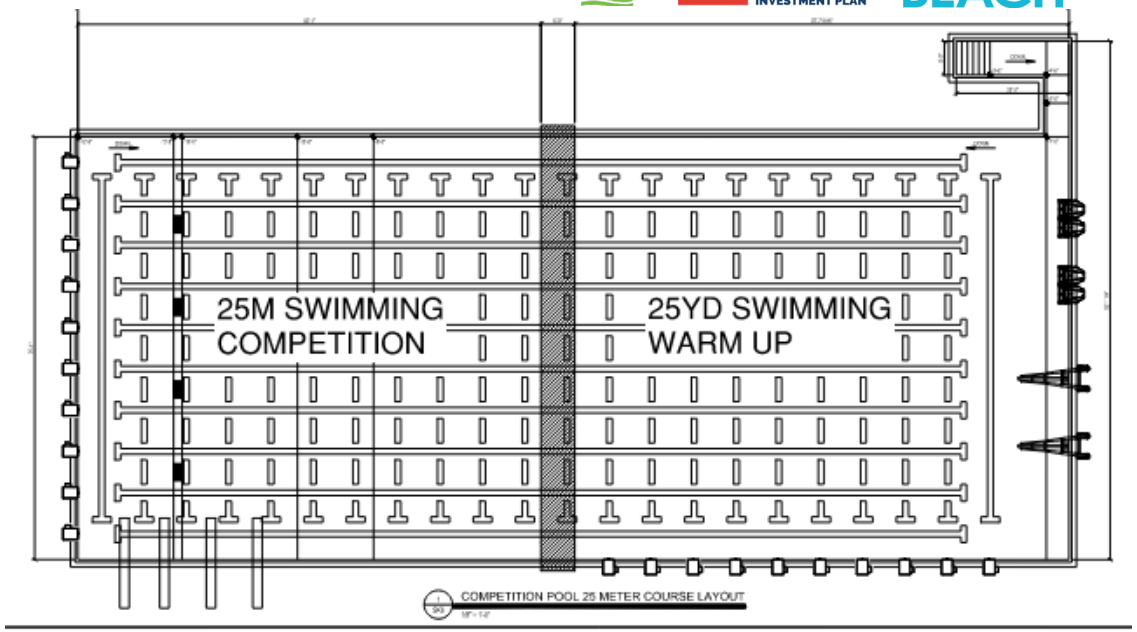
Shade Structures, Spectator Seating, and Additional Restrooms

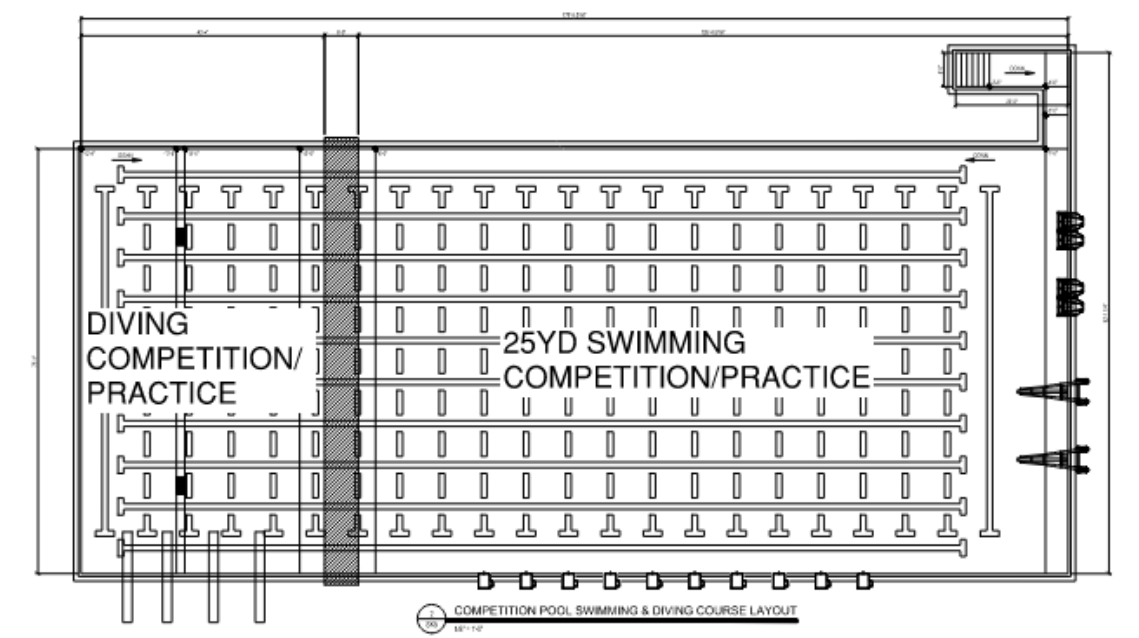
- Project includes spectator seating/ bleachers with 544 seats.
- Greater capacity than Long Beach City College's Monte Nitzkowski Aquatics Center with 474 seats.
- The City's project includes additional restrooms at the pool deck level to meet code requirements associated with additional seating.

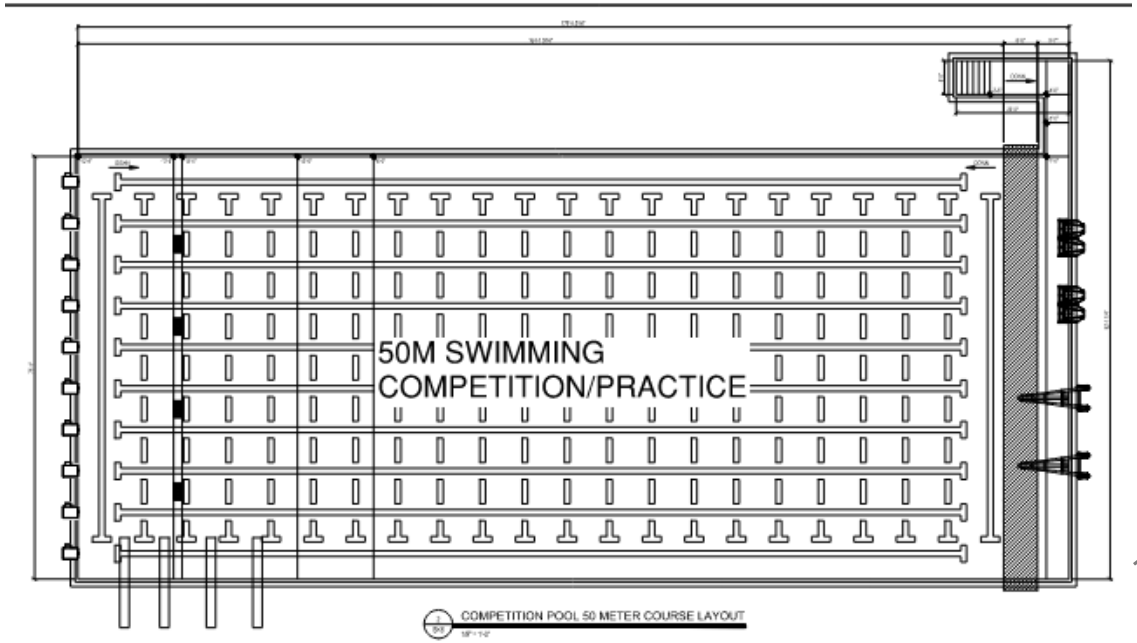


50M Flexible Programming (Swimming/ Diving)

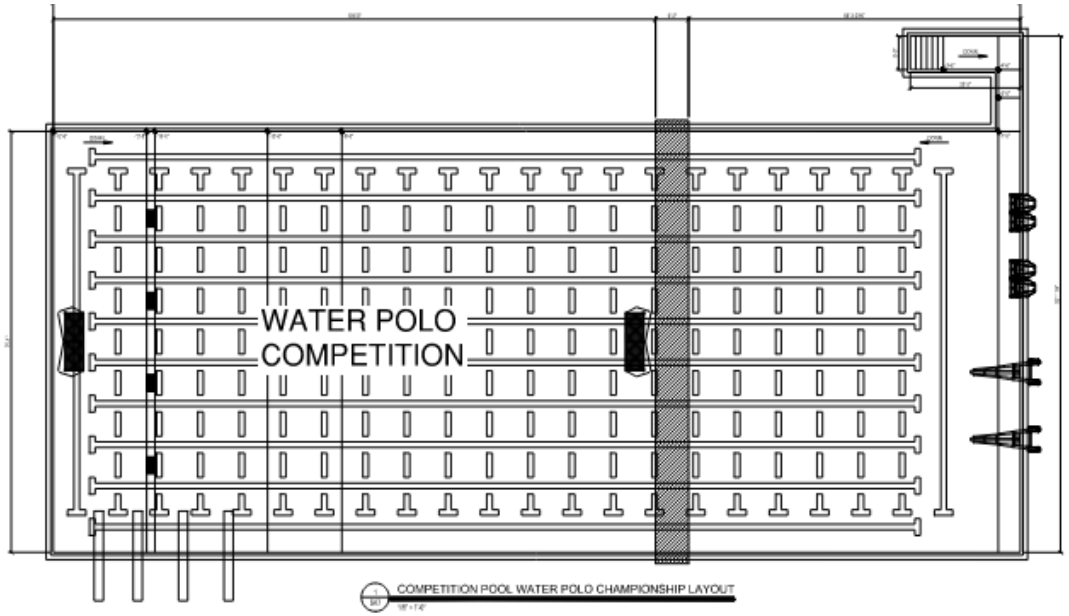


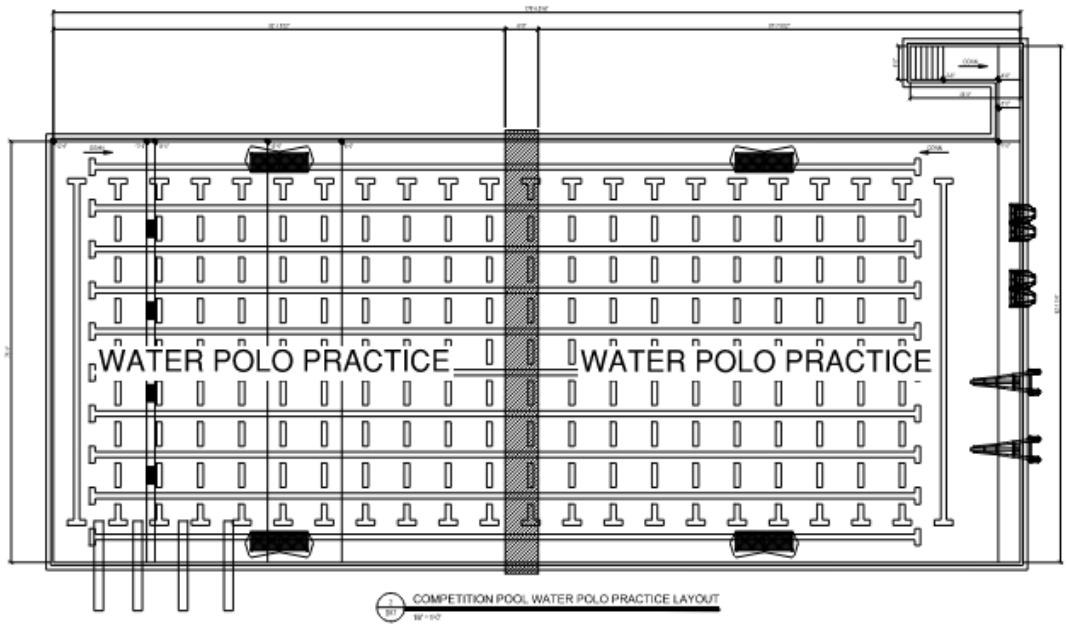


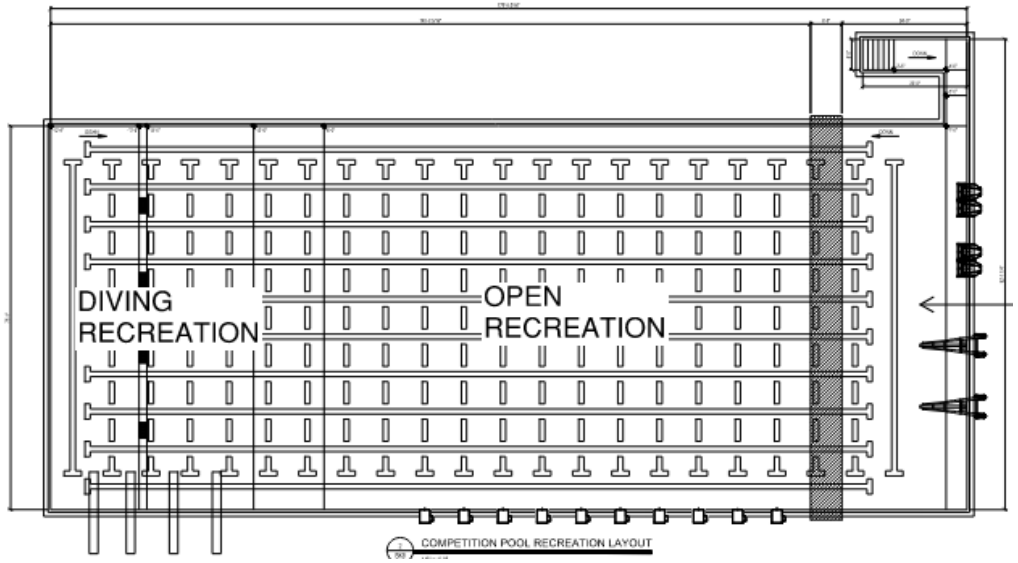




50M Flexible Programming (Water Polo & Rec)







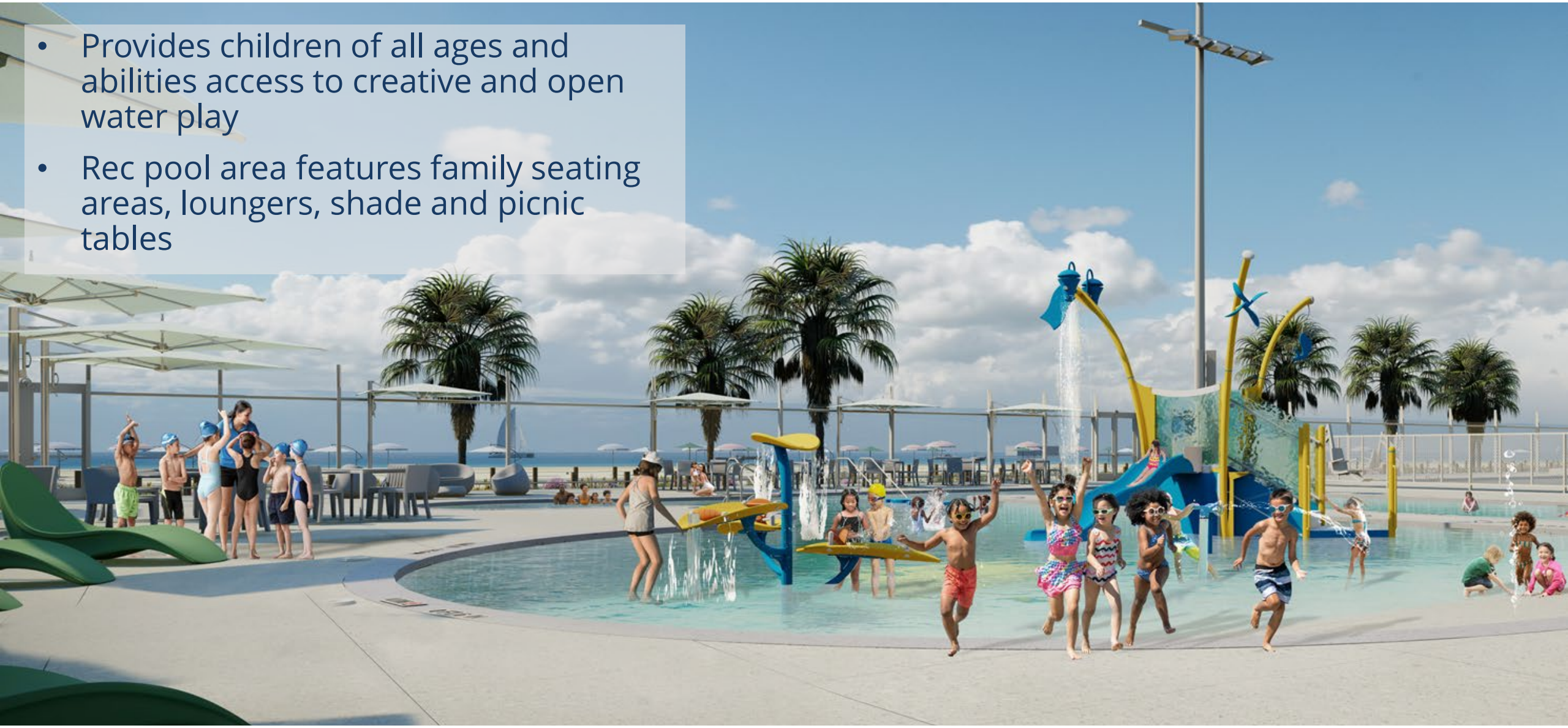
Combined Instructional & Recreational Pool

- Shallow therapy and learning pool
- Splash and spray zones and activity tower
- Vortex area
- Deployable volleyball and floatable features
- Remains open 95% of the year for recreational use and programming.



Overview – Recreational Pool

- Provides children of all ages and abilities access to creative and open water play
- Rec pool area features family seating areas, loungers, shade and picnic tables

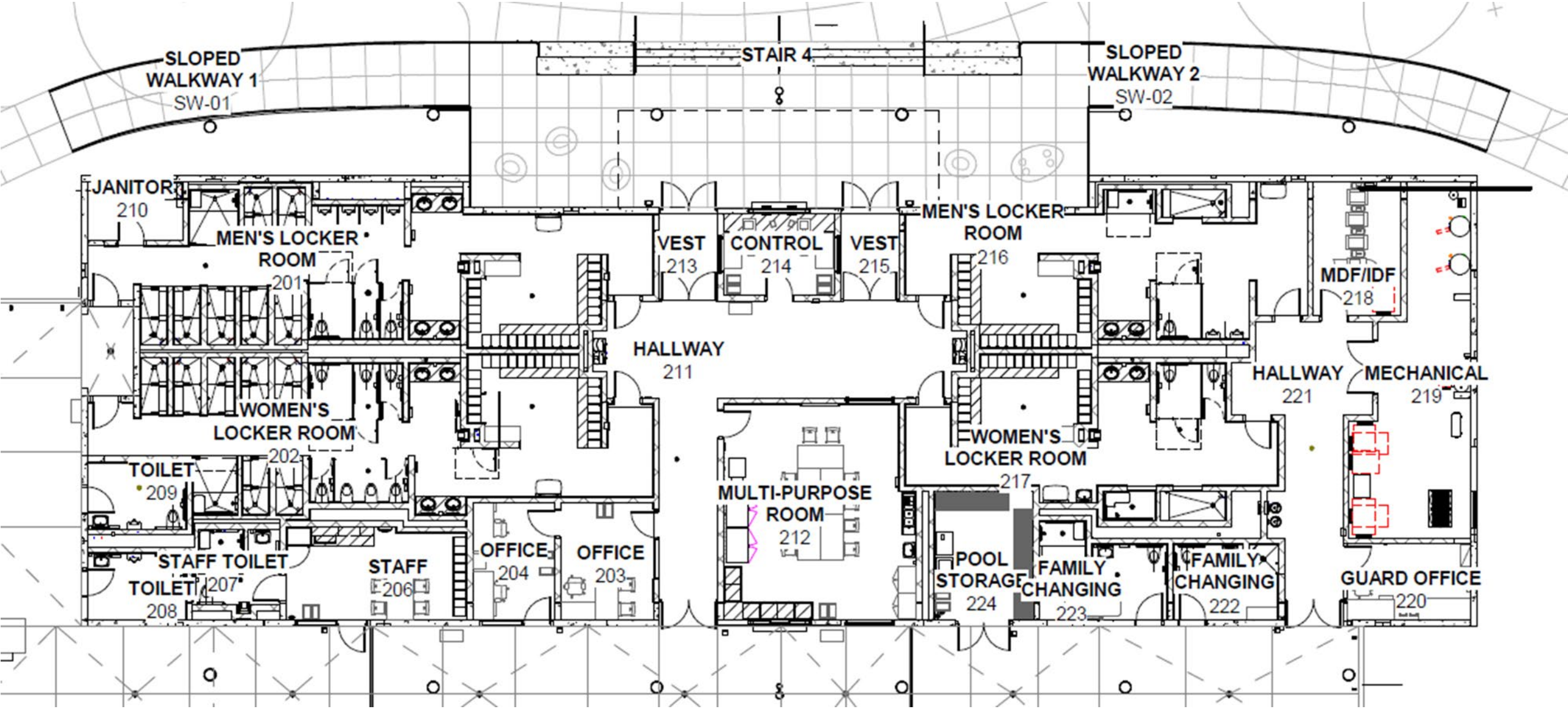


Overview – Instructional Pool



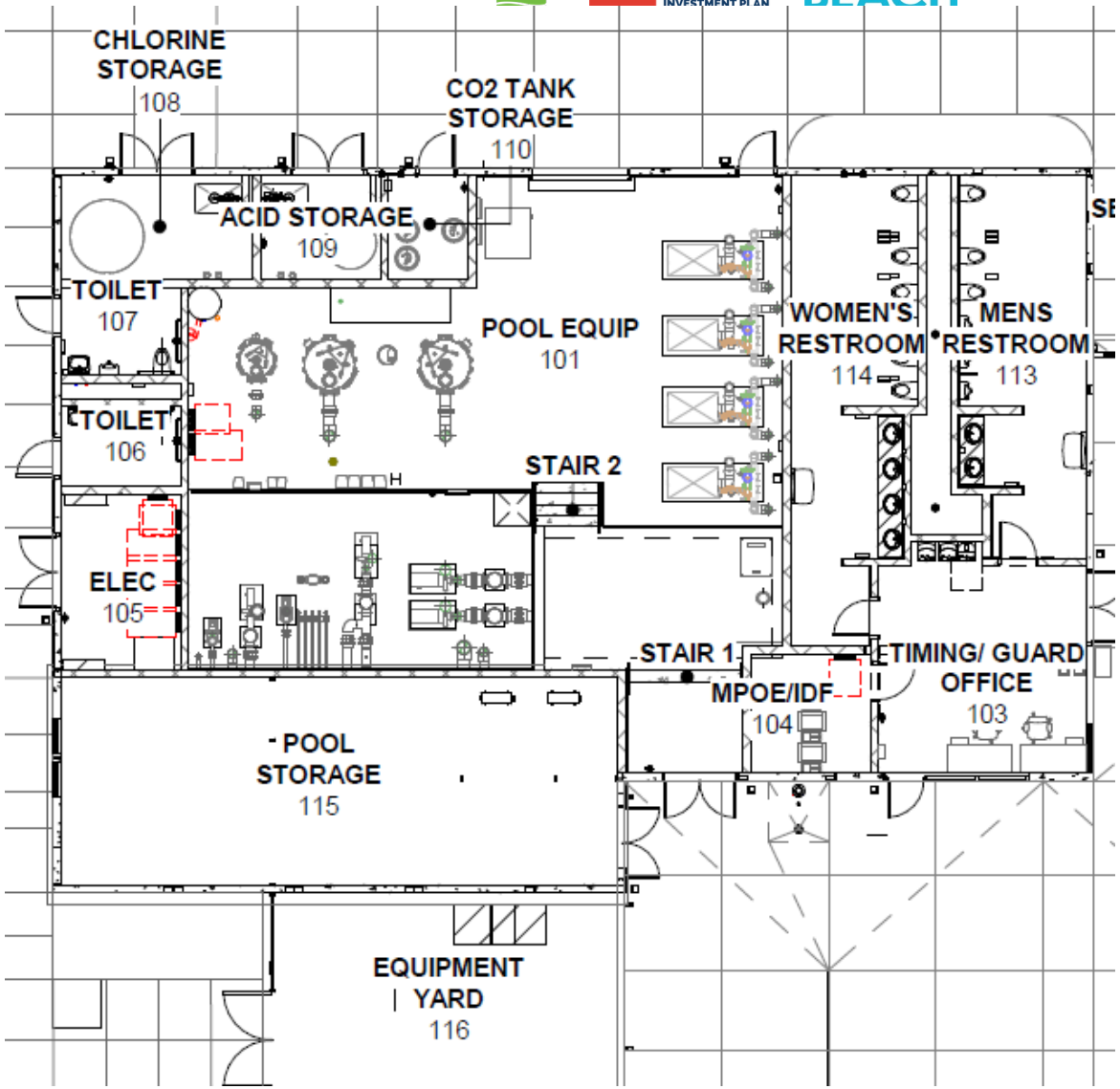
- Swim lessons, therapy, water aerobics, and other learning opportunities.
- Deployable water play elements depending on programming.

Overview Main Building



Overview – Pool Equipment Building

- Back of house features:
  - Pool mechanical and electrical equipment
  - Various chemical storage tanks and rooms (Chlorine, CO2, Acid) and safety devices
  - Pool equipment storage
  - Timing/guard office
  - Switchgear and equipment yard
  - Solar panel system
- Beach restrooms (required by CCC)
- Pool user restrooms and shade structures (Awarding Bid Alternate)



Recent Milestones

- On October 8, 2025, the California Coastal Commission approved the amended project and the Final Public Access Program.
- Completed City Building Plan Check and City Permitting
- Rebid the project and received responsive bids from pre-qualified General Contractors on October 23, 2025; through the rebid process, the City saved over $5 million.
- Long Beach City Council awarded a construction contract on January 20, 2026 to Bernards Bros, Inc.
- Council Action on January 20, 2026 confirmed a total project budget of $105.1 million (sources & uses)

Next Steps/Schedule

Major Activities	Target Dates
City Council Action	January 20, 2026
Contracting	Early 2026
Pre-Construction Activities and Regulatory Compliance Work*	Early 2026
Mobilization	Summer 2026
Construction Completion & Building Commissioning	Spring 2028

*Satisfy pre-construction requirements and obligations of the Coastal Commission and Planning Bureau prior to mobilization; certain Contractor-responsible permits and approvals for site management, health and safety, temporary utilities, etc.

Q & A



Alamitos Bay Entrance Channel Dredging & Nourishment

March 23, 2026

Community Update

Alamitos Bay Yacht Club



Project Team

Public Works, Project Management

Charlene Angsuco, Tidelands/Parks CIP Manager

Alma Wagner, Project Manager

Design & Engineering Team

Dr. Jack Malone, Anchor QEA

Parks Rec and Marine, Marine Bureau

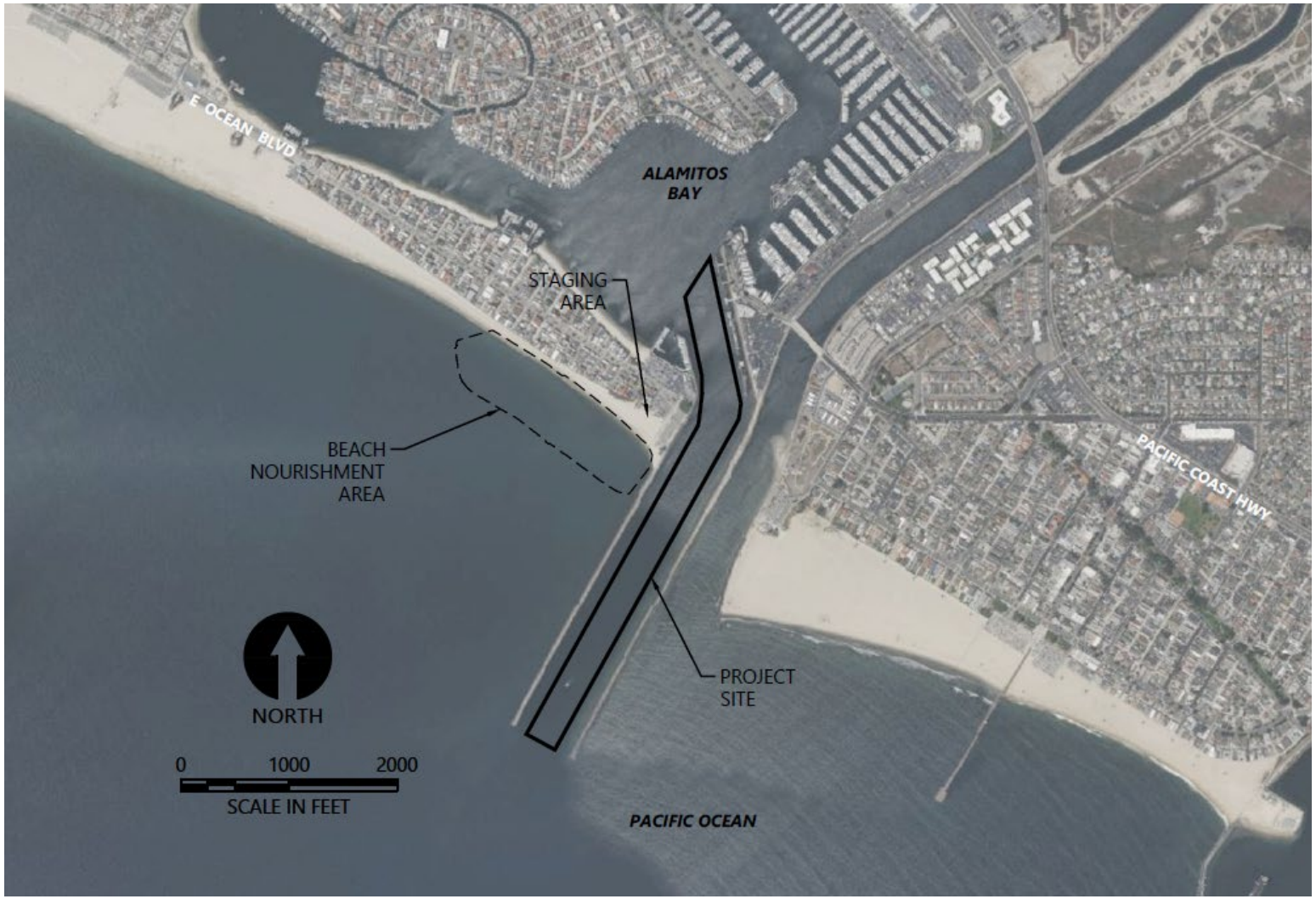
Todd Leland, Marine Bureau Manager

Kelly Armstrong, Superintendent Beach Maintenance

Background and Recap

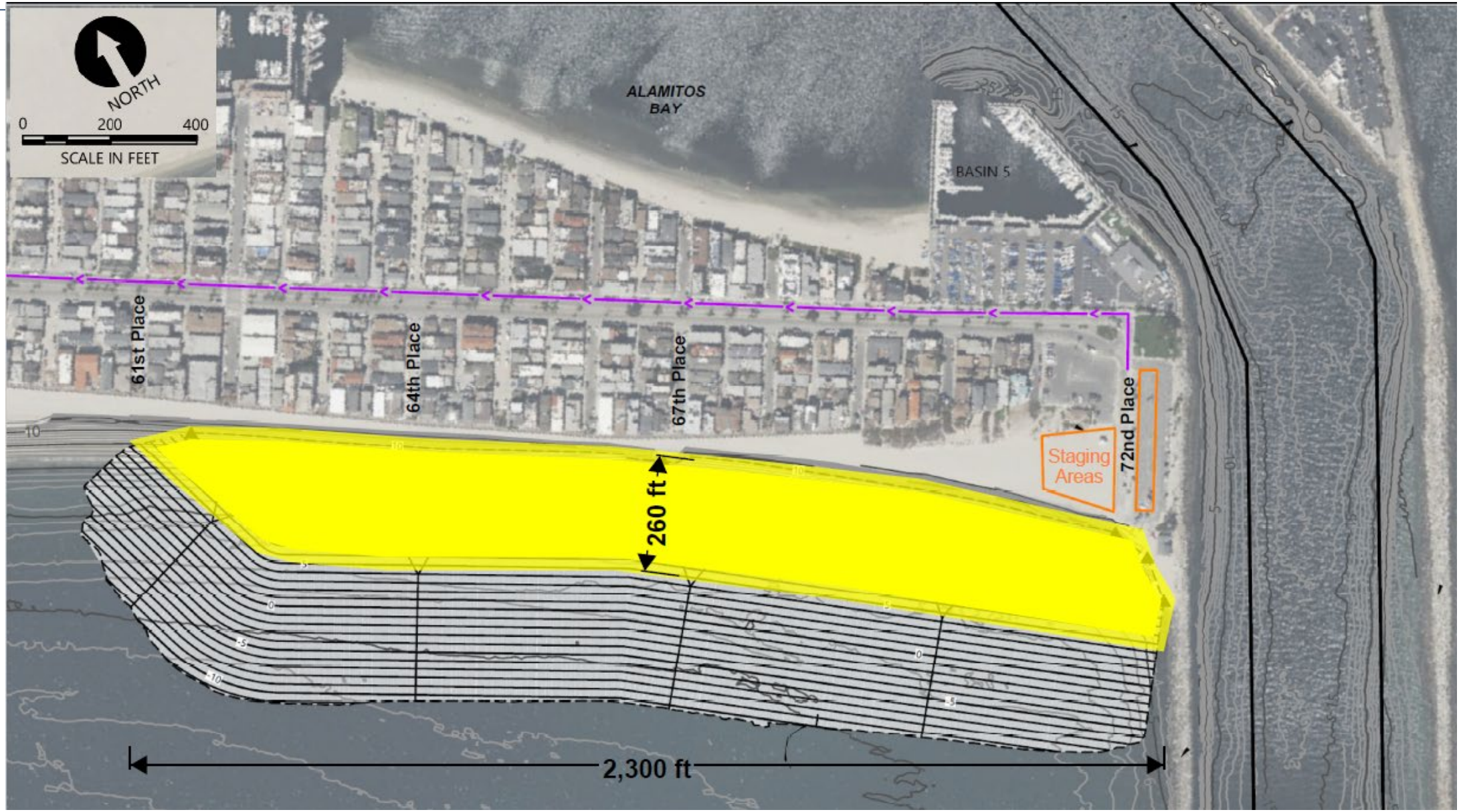
- Alamitos Bay Entrance Channel Dredging & Beach Nourishment received $600,000 Tidelands Funding in the FY2024 CIP.
- Fall 2023 throughout 2024, performed sediment characterization to satisfy pre-dredging requirements of the Southern California-Dredged Material Management Team (SC-DMMT).
    - Prepared bathymetric surveys, sediment Sampling Analysis Plan (SAP) and sediment Sampling Analysis Report (SAR) for review by the SC-DMMT
- Submitted the project's regulatory permit applications in 2024; Coastal Commission and other AHJ's approved in 2025.
- Engineering plans and specifications advanced to construction documents for public bidding and received two bids in October 2025
- Bids were $13 and $14 million respectively and exceeded budget available
- Submitted SCC Grant Pre-Application for $5 million in October 2025; invited to submit a full application in December. Staff submitted in February 2026.

Project Overview / Scope



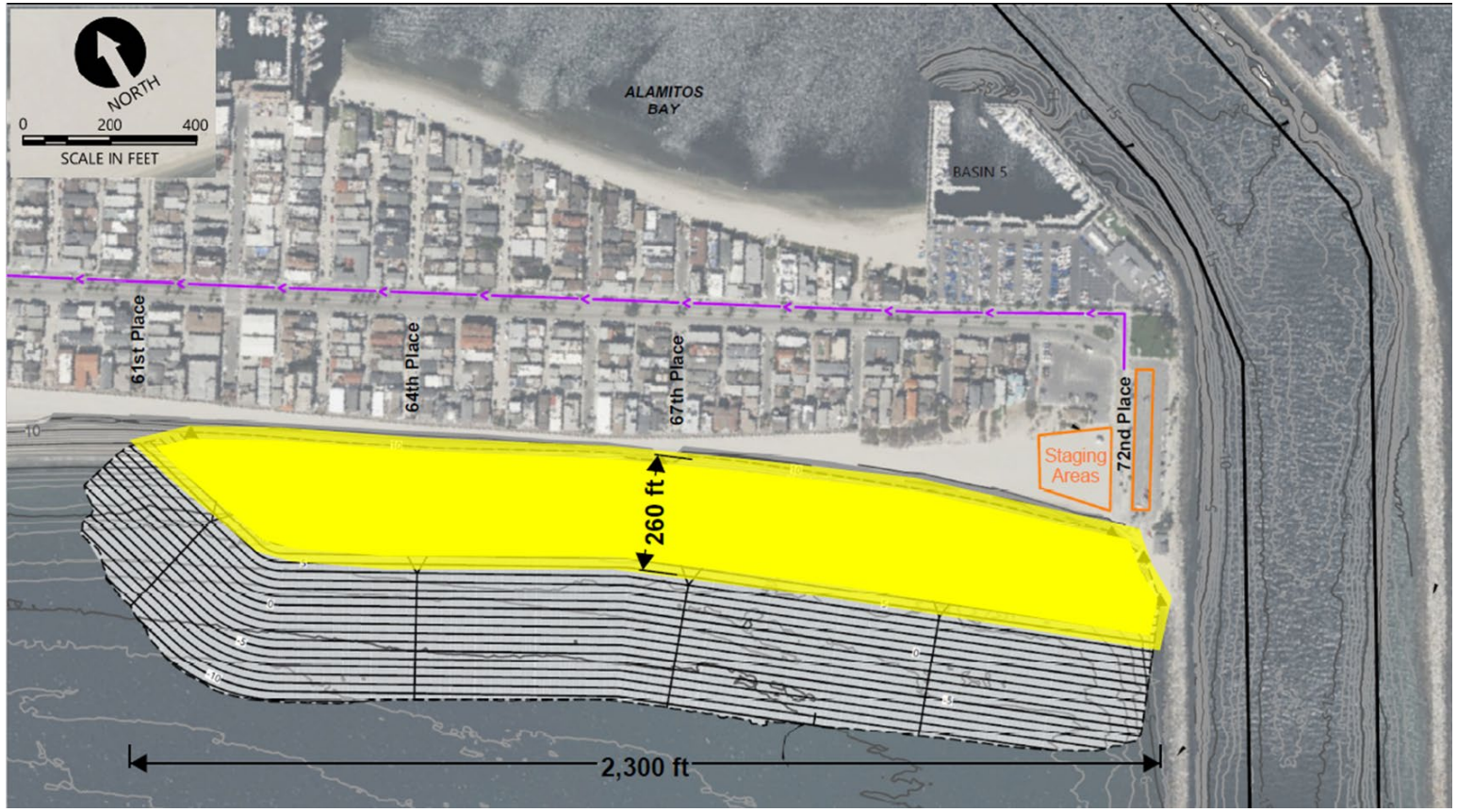
- Dredge entrance channel to design depths of -20 ft MLLW plus 2 ft overdredge allowance
- Contractor can use hydraulic or mechanical dredge (means and methods)
- Sand has been determined suitable for beneficial use to nourish Peninsula Beach
- Project requires contractor to build small berm with mechanical equipment to receive dredged material to allow it to dewater
- Mechanical, land-based equipment will spread material to build beach

Dredge and Nourishment Areas



Project Benefits

- Restores and improves navigation within the entrance channel
- Beneficially uses dredged material and retains sandy material within Long Beach limits
- Restores Peninsula Beach width by more than 200 ft in the nourishment zone, improving public beach access and pushing the active wave zone farther offshore to improve coastal resilience



What does the work look like?

- Partial closure of the 72nd Place parking lot for Contractor staging and laydown areas
- Offshore dredge barge pumping sediment to the beach (24 hr/day)
- Establish beach containment area for dredged sediment to dewater before it is spread out to nourish the beach
- Expected equipment includes dredge pipeline along the shoreline



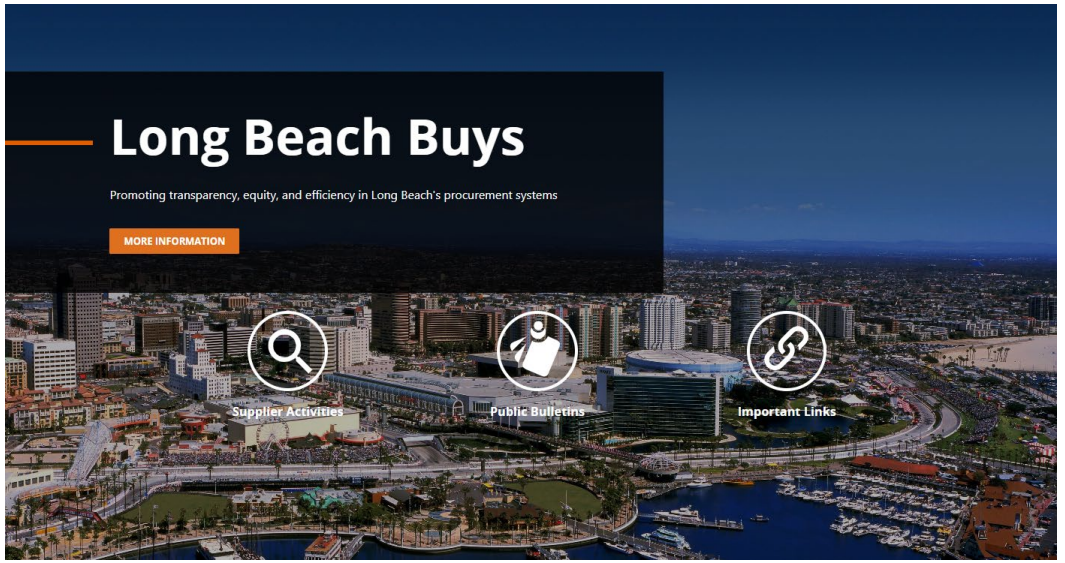
What does the work look like?

- Nourishment is proposed between 61st Place and 72nd Place because currents carry sand to the west
- Equipment including dozers and front loaders will move dredged material to rebuild the shoreline (limited to 12 hr/day)
- Contractor required to adjust construction fence on the beach to restrict access to active work areas
- Estimated duration of active work is four months



Current Status and Next Steps

- Submitted full grant application to SCC for $5 million in February 2026 to support the work. The grant proposal is currently under review.
- The project is advertised for public bidding per P.C.C. and bids are due in April 2026 in Long Beach Buys.
- Upon the City's receipt of responsive and responsible bids, PW/PRM will make a recommendation to award a contract to the Long Beach City Council.
- Based on favorable bids, the City aims to begin work in fall 2026 (allows bidders time to plan and coordinate work regionally for better pricing)
- Estimated construction start of fall 2026 to avoid additional regulatory permissions and monitoring



Milestones and Anticipated Schedule

MAJOR ACTIVITIES	TARGET SCHEDULE
Permitting	Completed
Bid/Award (Recommendation to Council)	Spring 2026
Contracting	Summer 2026
Construction Begins	Fall 2026
Completion and Close out	Early 2027

Funding

SUMMARY OF PROJECT COSTS	USES
Estimated Construction (base bid variability)	$9 - $13 million
Estimated Total Project Delivery Costs (e.g. Design/Engineering, PM-CM, Inspections, Labor Compliance, Regulatory Permitting, etc.)	$1.5 million
Estimated Total Project Costs	$10.5 - $14.5 million

AVAILABLE FUNDING SUMMARY	SOURCES
Tidelands Operating and Marina Funds	$8.6 million
Submitted Grant Application – Pending Notification	TBD
Approved Budget/Funding	$8.6 million + TBD

Thank you!

TidelandsCIP@longbeach.gov

longbeach.gov/pw

Berth 1 & 2 Dock Replacement

March 23, 2026

Community Update

Alamitos Bay Yacht Club



Project Team

Public Works, Project Management

Charlene Angsuco, Tidelands/Parks CIP Manager

Stephen Figueira, P.E., Sr. Civil Engineer

Hugo Liu, Project Manager

Parks Rec and Marine, Marine Bureau

Todd Leland, Marine Bureau Manager

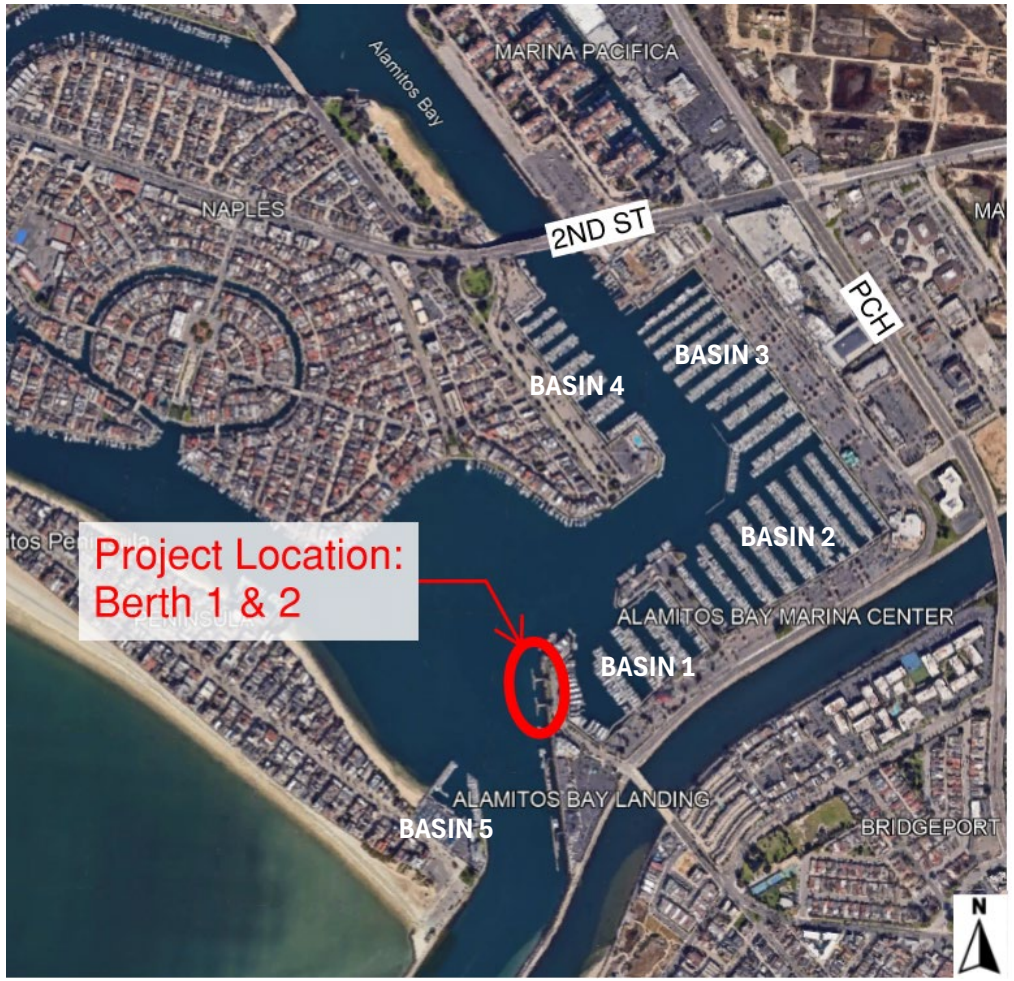
Kelly Armstrong, Superintendent Beach Maintenance

Design & Engineering Team

Rafael Holcombe, P.E. Tetra Tech

Background and Location

- Project is located in Alamitos Bay, outside of Basin 1 near the entrance channel.
- The timber docks at Berths 1, 2, and 3 were originally constructed in 1961 and have reached the end of their service life.
- Berth 3 was reconstructed in 2015
- Berth 1 and 2 have been modified and repaired over the years, but continued repairs are not cost-effective long-term due to age and cumulative deterioration.
- This project will demolish the existing docks at Berth 1 & 2 and replace with a single, combined new modern concrete dock and provide other pedestrian enhancements.



Vicinity Map

Existing Conditions



Existing damaged timber dock



Existing noncompliant gangway access

Project Features and Goals

Enhance Dock Infrastructure:

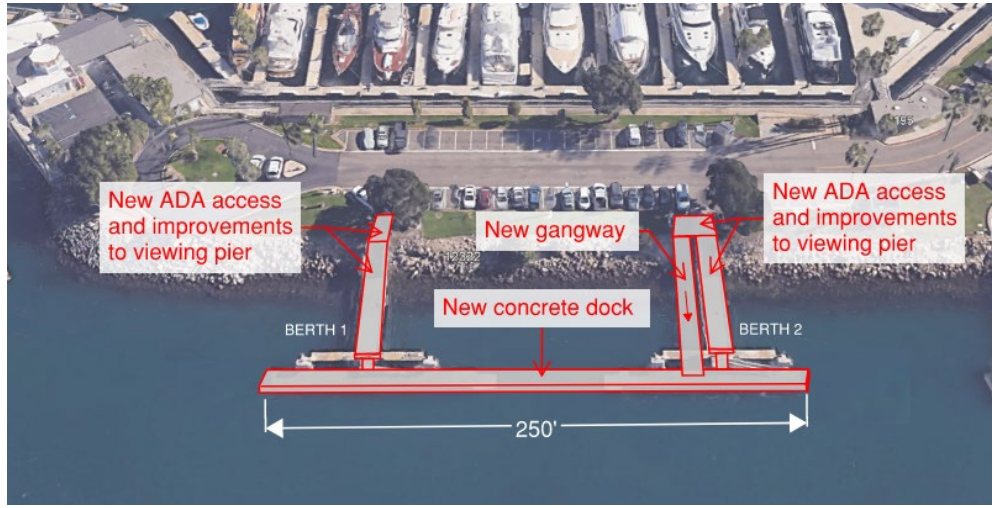
- Remove existing timber docks and gangways at Berth 1 and Berth 2 and replace with a single concrete dock 250’ long x 9’ wide.
- Continuous dock allows for more flexible use and the ability to accommodate varying vessel types.
- Provide new gangway, safety lighting and support utilities.

Provide user and pedestrian enhancements:

- Retrofit existing access piers to create public viewing pier.
- Provide ADA access to new dock and piers.

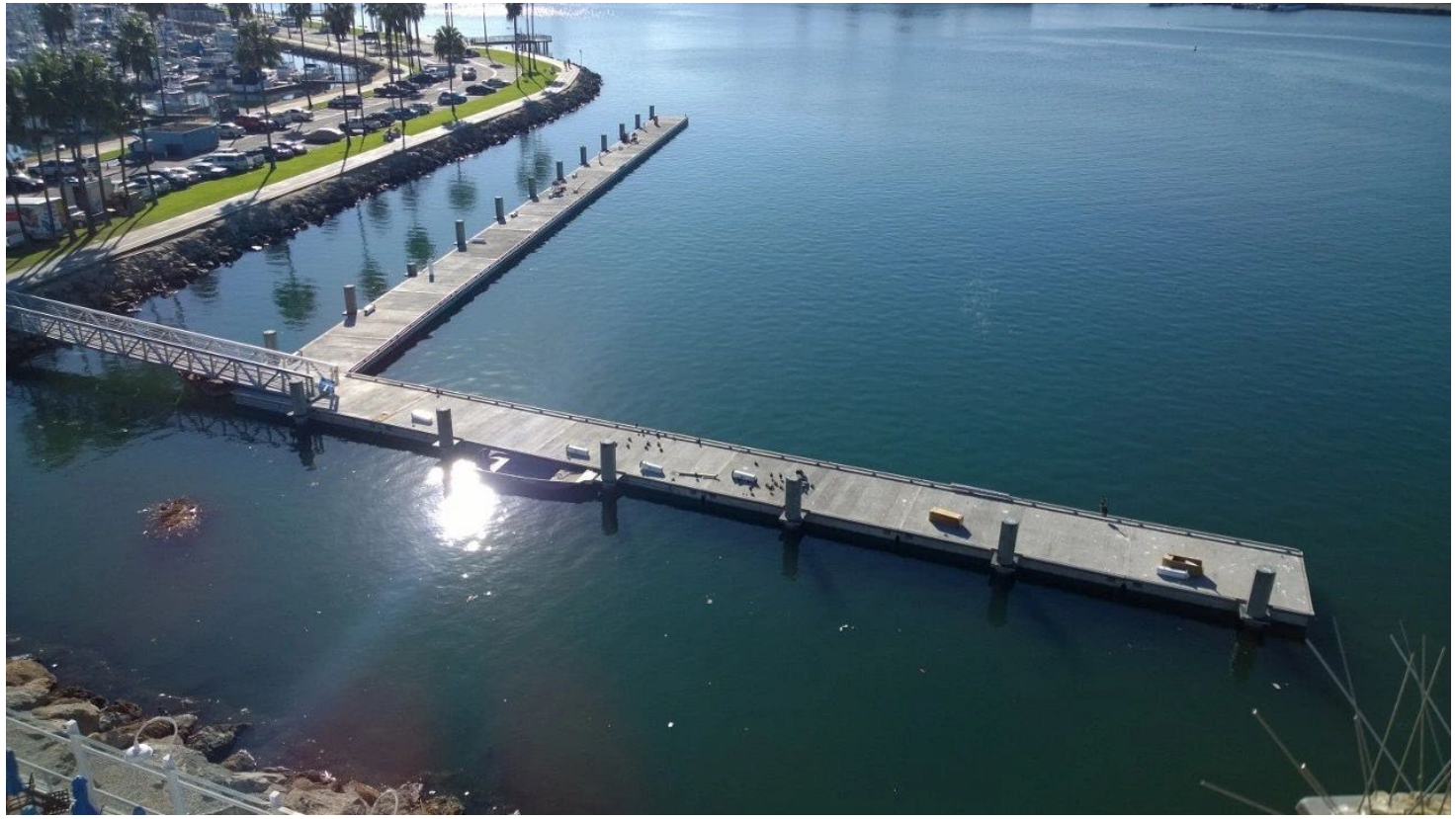


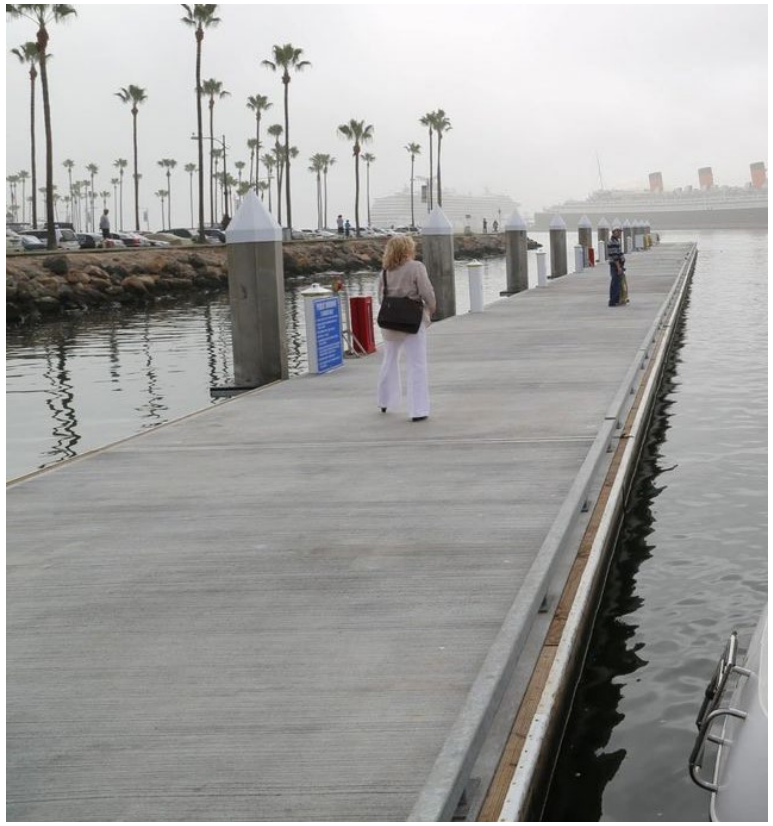
Existing Configuration



Proposed Configuration

Example Concrete Dock





Photos of the concrete dock near Parker's Lighthouse
(Similar concrete dock structure to be used at Berths 1 & 2)

Milestones and Anticipated Schedule

MAJOR ACTIVITIES	TARGET SCHEDULE
Permitting	Through Summer 2026
Complete Design	Spring 2026
Bid/Award and Contracting	Summer 2026
Contract Execution	Fall 2026
Construction Begins	Early 2027
Completion and Close out	Fall 2027

Funding

SUMMARY OF PROJECT COSTS	USES
Estimated Construction	$3,500,000
Estimated Total Project Delivery Costs (e.g. Design/Engineering, PM-CM, Inspections, Labor Compliance, Regulatory Permitting, etc)	$1,500,000
Estimated Total Project Costs	$5,000,000

AVAILABLE FUNDING SUMMARY	SOURCES
Tidelands Marina Funds	$5,000,000
Approved Budget/Funding	$5,000,000

Thank you!

TidelandsCIP@longbeach.gov

longbeach.gov/pw

Alamitos Bay Water Quality Enhancement Project

March 23, 2026

Community Update

Alamitos Beach Yacht Club

PW LONG BEACH

CITY OF LONG BEACH



Alamitos Bay Water Quality Enhancement Project

Scope:

- The proposed project would maintain existing water circulation patterns in Alamitos Bay by replacing the existing once-through-cooling (OTC) pumps at AES Alamitos for power generating operations with a new pump system that is separate from power generating operations.

Status & Next Steps:

- Draft EIR Public Comment Period closed on November 17, 2025
- Planning Bureau preparing Final EIR.
- Final EIR Public Hearing and Staff Report at City Council anticipated Summer 2026.



This slide is for information purposes only and is not part of the CEQA process.

The Community Development Department is leading the California Environmental Quality Act (CEQA) as lead agency for this project in accordance with State regulations.

To receive a notification, please sign up at the bottom of the website: https://www.longbeach.gov/pw/projects/abwqe/

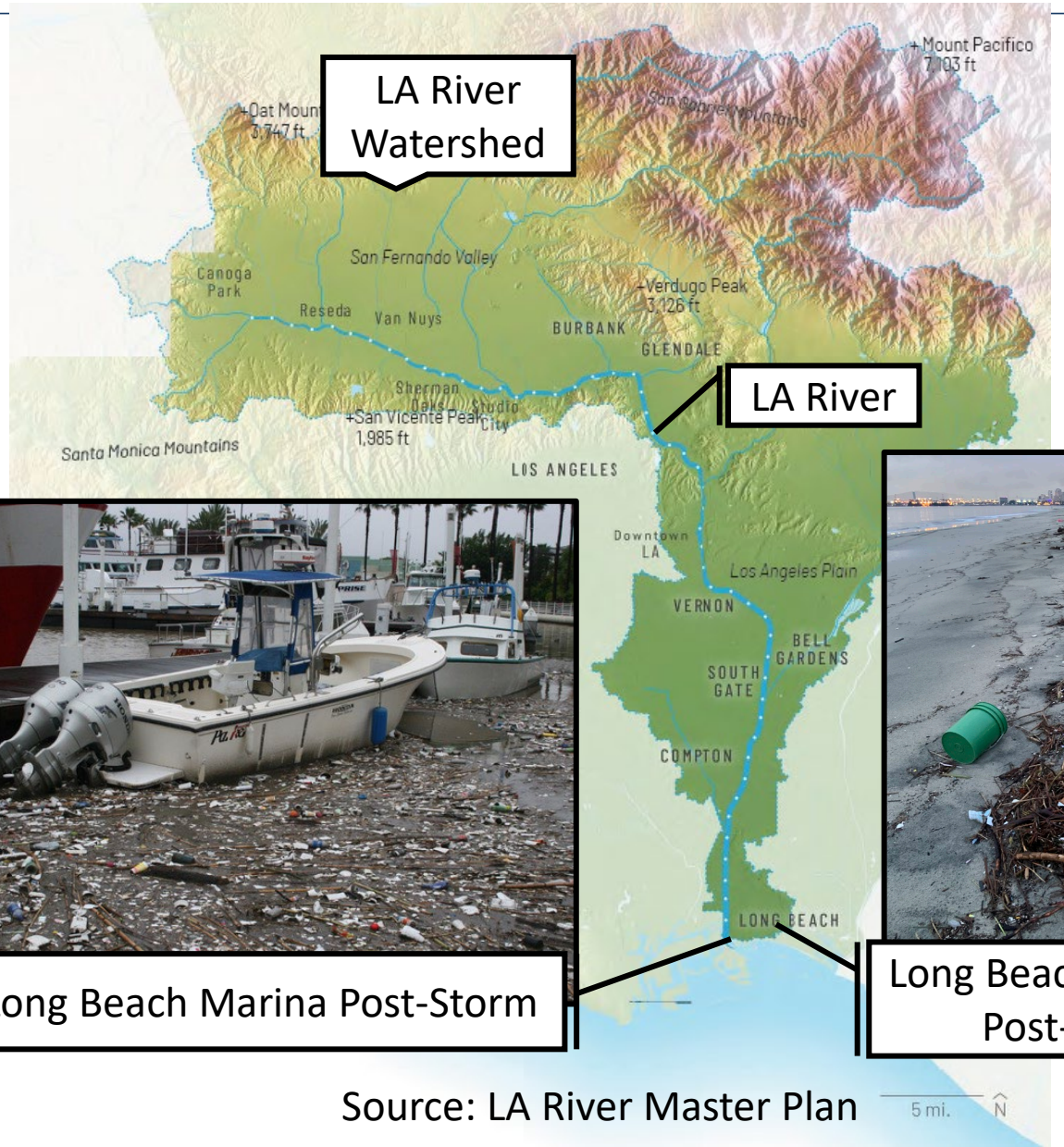
Marine Trash & Debris Capture Project

City Council Presentation
March 17, 2026

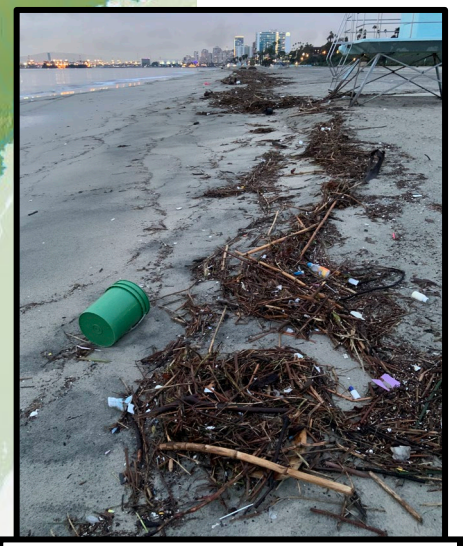


Background

- The Los Angeles River watershed is the largest source of trash & debris for City waterways and beaches
  - 834-square mile watershed
  - 44 cities, unincorporated LA County, Caltrans
  - ~ 5 million people
- Existing City practices in place to collect debris upstream in jurisdictional areas
  - Storm Drain Screens
  - Street Sweeping
  - Clean Team
  - Trash Collection



Long Beach Marina Post-Storm



Long Beach Shoreline Post-Storm

Source: LA River Master Plan

Project Need

Despite existing efforts, about 4,000 tons of trash & debris are collected and removed from waterways and beaches in Long Beach annually through clean-up efforts by the City and LA County



City crews remove about 2,000 tons of trash & debris from City waterways and beaches



County crews remove about 2,000 tons of trash & debris from a boom at the Los Angeles River Mouth

Goals

Near term pilot project to capture trash & debris that bypass current practices

- Expedite an in-river pilot project within City jurisdictional limits
- Reduce waste and pollution in local waterways, beaches, and coastal environments
- Enhance water quality, aquatic habitat, and recreational activities through trash and debris removal
- Collect data and measure pilot performance to inform future decision making



Long term collaboration with watershed partners

- Collaborate with upstream jurisdictions, regulators, Non-Governmental and Community-Based Organizations on watershed scale solutions
- Address sources of trash throughout the Los Angeles River watershed
- Continue to evaluate needs for downstream collection



Coordination, Outreach, and Engagement

Completed and ongoing engagement

- Non-government and community organizations
- Upstream jurisdictions
- Jurisdictions with similar projects
- Regulatory stakeholders
- Elected Officials
- Businesses
- Community Meeting: November 12, 2025
- Website https://www.longbeach.gov/pw/projects/marine-debris-and-trash-capture-system/

Trash Capture and Removal Technology

Reference Projects



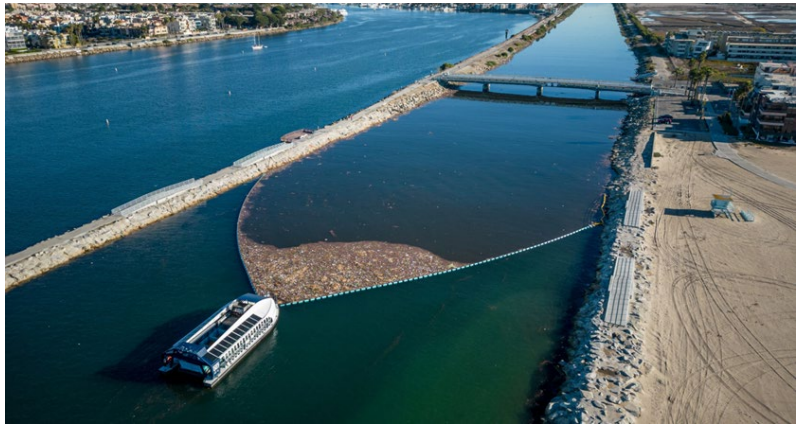
Ballona Creek Trash Interceptor
collected 156 tons since 2022



Newport Beach Trash Wheel
100-500 tons/year expected



LA County Trash Boom
2,000 tons/year collected







Trash Capture and Removal Technologies

Examples



Long Beach Trash Debris Skimming Vessel



Boom with Outrigger Arm



Crane with Clam Shell Bucket



Mechanical Bar Screen

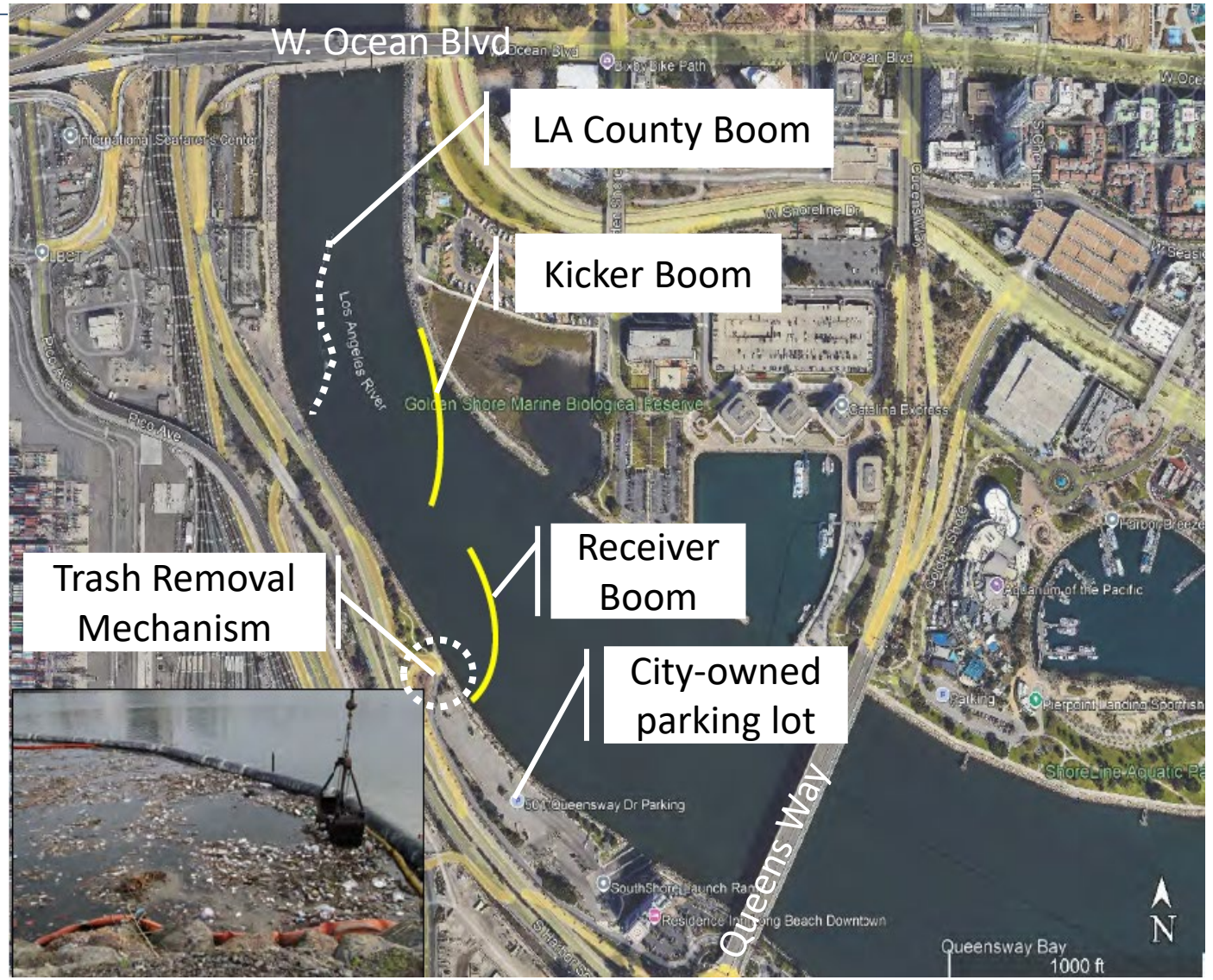


Pilot Project Concept

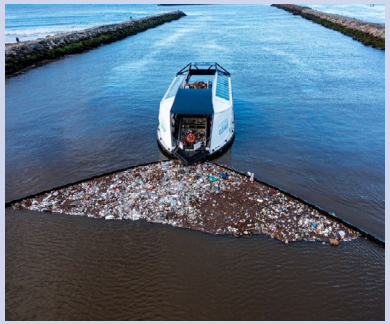
Feasibility Study Findings:

Favorable conditions between W. Ocean Blvd. and Queens Way

- **Kicker Boom:** shifts trash and debris to right bank
- **Receiving Boom:** captures trash & debris
- **Trash removal area:** City-owned parking lot
- **Mechanism:** Crane with clam shell bucket, tender, wheel/conveyor, or mechanical bar screen



Estimated Capital Costs

Interceptor Barge	Boom & Crane	Boom & Mechanical Screen	Boom & Conveyor	Boom & Skimmer
				
				
Not Feasible • **River hydraulics** • **Trash volume**	**$4,390,000**	**$7,720,000**	**$5,950,000**	**$4,890,000**

Note: Feasibility Level Estimates (-15% to +30%)

Costs & Budget

Anticipated Costs:

- $1.5M Engineering/Permitting
- $4.4M - $7.7M Capital Costs

Total $5.9M - $9.2M

+ Annual $1.9M - $3.1M Operations & Maintenance

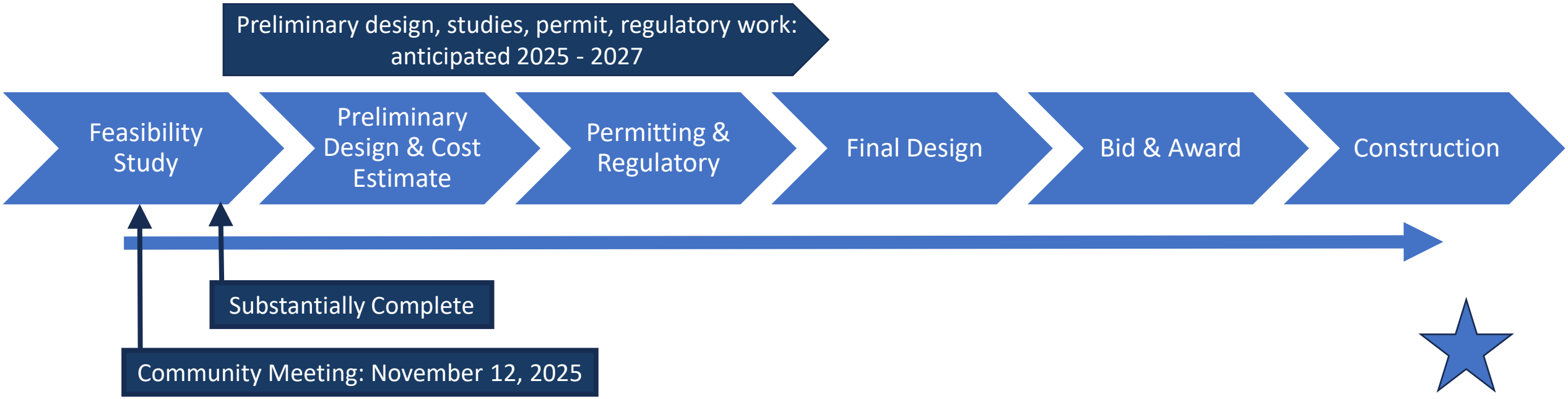
Project Budget:

- $2.5M General Fund (Monsanto settlement)
- $1.8M Construction & Demolition Fund

Total $4.3M

Note: Feasibility Level Estimates (-15% to +30%)

Project Schedule and Key Milestones



Implementation of Solution(s)

Early 2028

Memorandum of Understanding

- Framework for the City, County, and The Ocean Cleanup to continue to participate in data sharing and coordination efforts.
- The Ocean Cleanup is a Dutch non-profit organization that develops and deploys advanced technologies to rid the world's oceans of plastic pollution through trash inception devices.
- Further develop potential trash and debris capture solutions consistent with feasibility study, with the intent of progressing the City's Marine Debris and Trash Capture Project.
- Any future agreement to design, construct, implement, operate, or maintain any trash interception system would require separate City Council authorization and identification of funding.

Marine Trash & Debris Capture Project

Next Steps

- Continue Permitting & Regulatory Tasks
- Execute MOU to further advance partnership with LA County and The Ocean Cleanup to support Design, Installation, and Operations & Maintenance
- Collaborate with upstream jurisdictions on trash capture initiatives
- Secure additional funding for the project



Current Practices

- City installed trash capture screens at storm drain inlets prevent trash from entering the Los Angeles River
- City Maintenance and Clean Team crews routinely remove trash and debris from City jurisdictional areas
- City trash bins are deployed citywide in public spaces and refuse service ensures proper disposal









Catch basin connector pipe screen (CPS)

Marine Trash & Debris Capture Project

Feasibility Study

- Collect and analyze data
  - Existing mitigation efforts
  - Identify sources
  - Estimate trash & debris volumes and types
  - Understand River characteristics
- Study range of locations and technology types
- Identify potential environmental and design constraints
- Estimate costs and evaluate funding

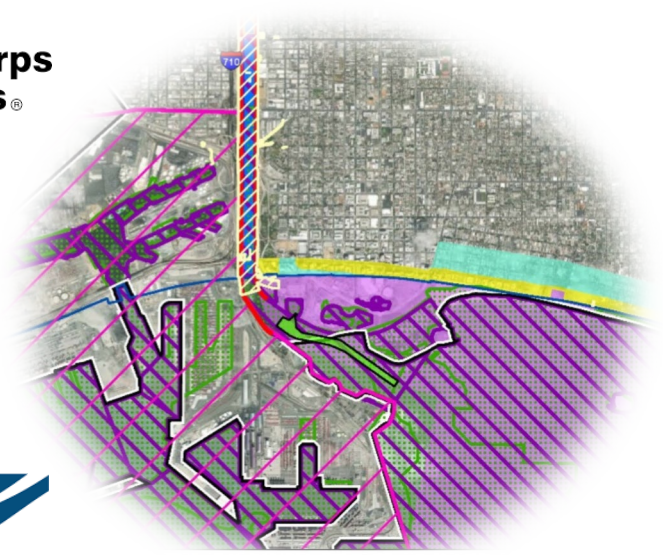


Los Angeles River at Willow Street

Marine Trash & Debris Capture Project

Permitting

- Permitting is a critical part of the project schedule
- Many Local, State, and Federal agencies are part of the permitting process
- City has met with all identified regulatory agencies
- Environmental studies are being conducted to support ongoing permitting and regulatory efforts



Thank You!

For further questions, please reach out to:

stormwater@longbeach.gov

Stormwater Division

City of Long Beach Public Works Department

For the latest Project updates, visit: https://lbcity.info/marinedebrisproject

longbeach.gov/pw

Peninsula Boardwalk

March 23, 2026

Community Update

Alamitos Beach Yacht Club



Background

- Investigations, studies and preliminary design funded as part of FY2023 CIP Appropriation
- City engaged TetraTech Engineers to perform general condition, safety hazards, and accessibility assessment of the boardwalk and provide repair recommendations, including evaluation of decking materials
- Site investigations were performed in August 2023 to document condition of the decking, as well as the boardwalk substructure
- Tetra Tech recommended multiple materials to support the work as part of the study and investigation
- Submitted Local CDP to Planning Bureau to complete entitlement process
- Currently, the boardwalk deck replacement is an unfunded project beyond preliminary design and planning
- Additional engagement will occur and City will collect feedback on material selection and pros/cons of options, as project proceeds





Funding & Next Steps

SUMMARY OF PROJECT COSTS	USES
Estimated Construction Costs w/ escalation	$3.5 million
Estimated Total Project Delivery Costs (e.g. Design/Engineering, PM-CM, Inspections, Labor Compliance, environmental monitoring, etc.)	$750K
Estimated Total Project Costs	$4.25 million

AVAILABLE FUNDING SUMMARY	SOURCES
Tidelands Operating	$200K
Approved Budget/Funding	$200K

NEXT STEPS

1. Assign Project Manager
2. Update Conditions Assessment Report