



# Colorado Lagoon Restoration Project Update

Community Meeting  
Wednesday, February 19, 2025 6:30 PM



# Colorado Lagoon Restoration Project Update

## Agenda

- Introductions
- Presentation
  - Overview & Background
  - Project Delays/Challenges
  - Review Scope of Project
  - Abatement
  - Progress To Date
  - Timeline
- FAQ
- Q&A

# Colorado Lagoon Restoration Project Update

## City of Long Beach

- Councilwoman Kristina Duggan (District 3)
- Public Works

## Project Consultants

- Harati Solutions (Project/Construction Management)
- Anchor QEA (Engineering Consultant)
- Tidal Influence (Biological Consultant)
- Ninyo & Moore (Environmental Consultant)



# Project Overview and Project Challenges

- Implement final phase of the Colorado Lagoon Master Restoration Plan established in 2005
  - Overall, the plan was to restore degraded conditions, remove contamination & comply with regulatory orders
  - This work is significant and challenging; reconnect the ocean with an inland lagoon (first time in nearly a century) while keeping tidal connection and utility services
  - Create 3.5 acres of new habitat and restore 18.0+ acres of habitat
  - Improve public park, trails, learning opportunities, and create new natural areas
- We acknowledge the hardship for the neighbors. Construction is impactful– and the community has experienced schedule impacts and delays in re-opening roadways





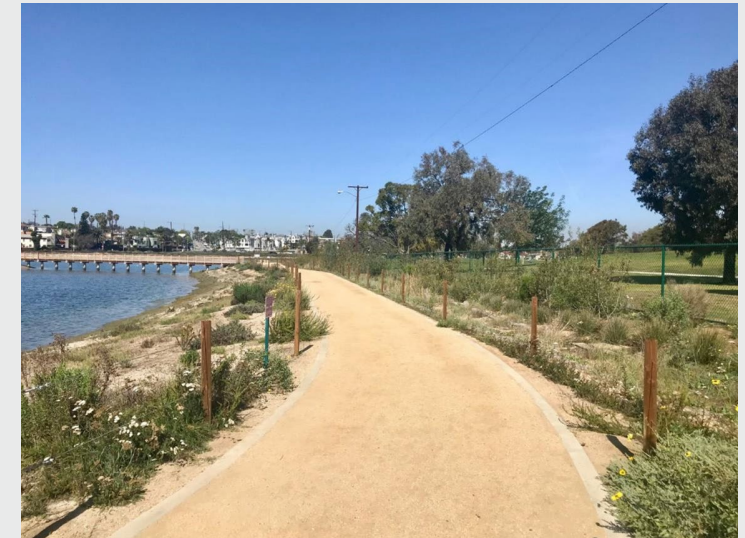
# Project Delays and Challenges

- We are attempting to mitigate delays and return to normalcy:
  - Re-opening of park anticipated summer/fall 2025
  - Re-opening of roads/bridges fall 2025-early 2026
  - Restore municipal band concerts this season, summer 2025
- Implementation challenges with complex project
  - Rain/weather impacts
  - Unmapped utilities and asbestos
  - Managing groundwater water on site and dewatering challenges
  - Age of existing underground assets such as sewer systems and tie-ins
  - Deviations and changes to early agreements for handling major utilities with agencies (approach on temporary systems & permanent systems) or conditions unearthed prompting alternate approach
- Continuous negotiations with contractor on work sequence, durations of activities, and submittals. On-going disagreements, tension, and strained contractual relationships.

# Our Commitments

- Accountability, resiliency, quality and communications
- We are committed to high standards of working from all involved in the project (e.g. contractors, inspectors, engineers/designers, biologists and construction managers)
- We will steward our sensitive ecological areas and will continue to be protective of coastal and aquatic resources during and after work (e.g. we monitor for water quality, biological resources, and ensure we do things at the right time and seasons)
- Carry forward the past successes of the prior Colorado Lagoon Restoration efforts into this final phase of the Colorado Lagoon Master Restoration Plan
- Provide safe paths of travel and access to important community resources
- Continue to communicate with the community, our partners, and stakeholders

# Colorado Lagoon Restoration Project History





# Colorado Lagoon Restoration Project Update

## Questions and Answers (Q&A)

- Please use QR Code.
- Frequently Asked Questions will be answered prior to additional Q&A.
- Presentation will be made available on City's project web page.
- Unanswered questions are encouraged to be sent to: [TidelandsCIP@LongBeach.gov](mailto:TidelandsCIP@LongBeach.gov)

Colorado Lagoon Community  
Meeting #04 (Q&A)





# Completed Work

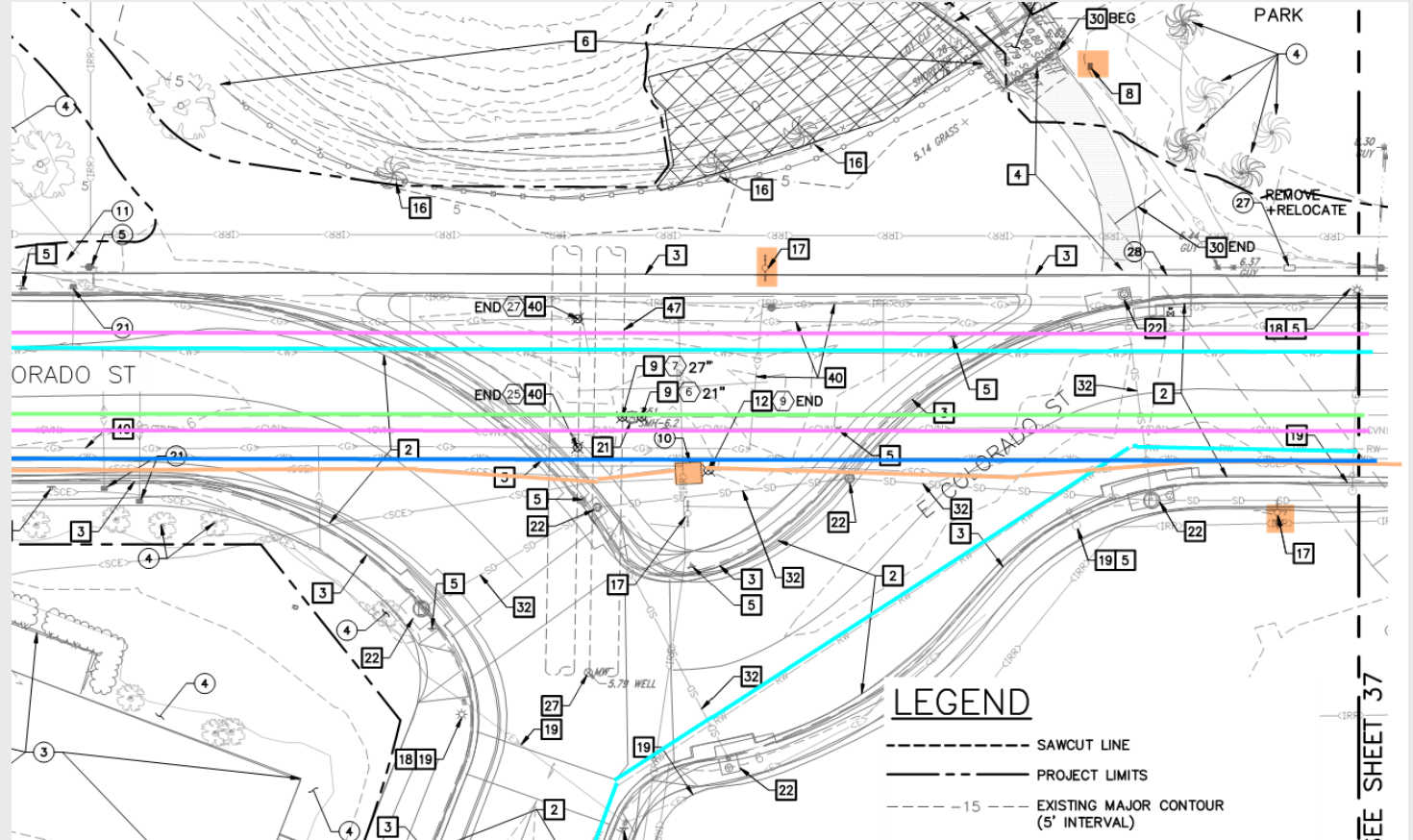




# Utility Work in Colorado Street

# Utilities must be removed or relocated prior to bridge work

- Chevron Removed Oil line
- LA DWP Removed Idle Oil Line
- SCE Relocated Power Poles
- SCE Relocated Ductbank
- 21in VCP Sewer
- 12in Potable Water Line
- 6in Reclaimed Waterline
- 12in Abandoned Steel Water Line





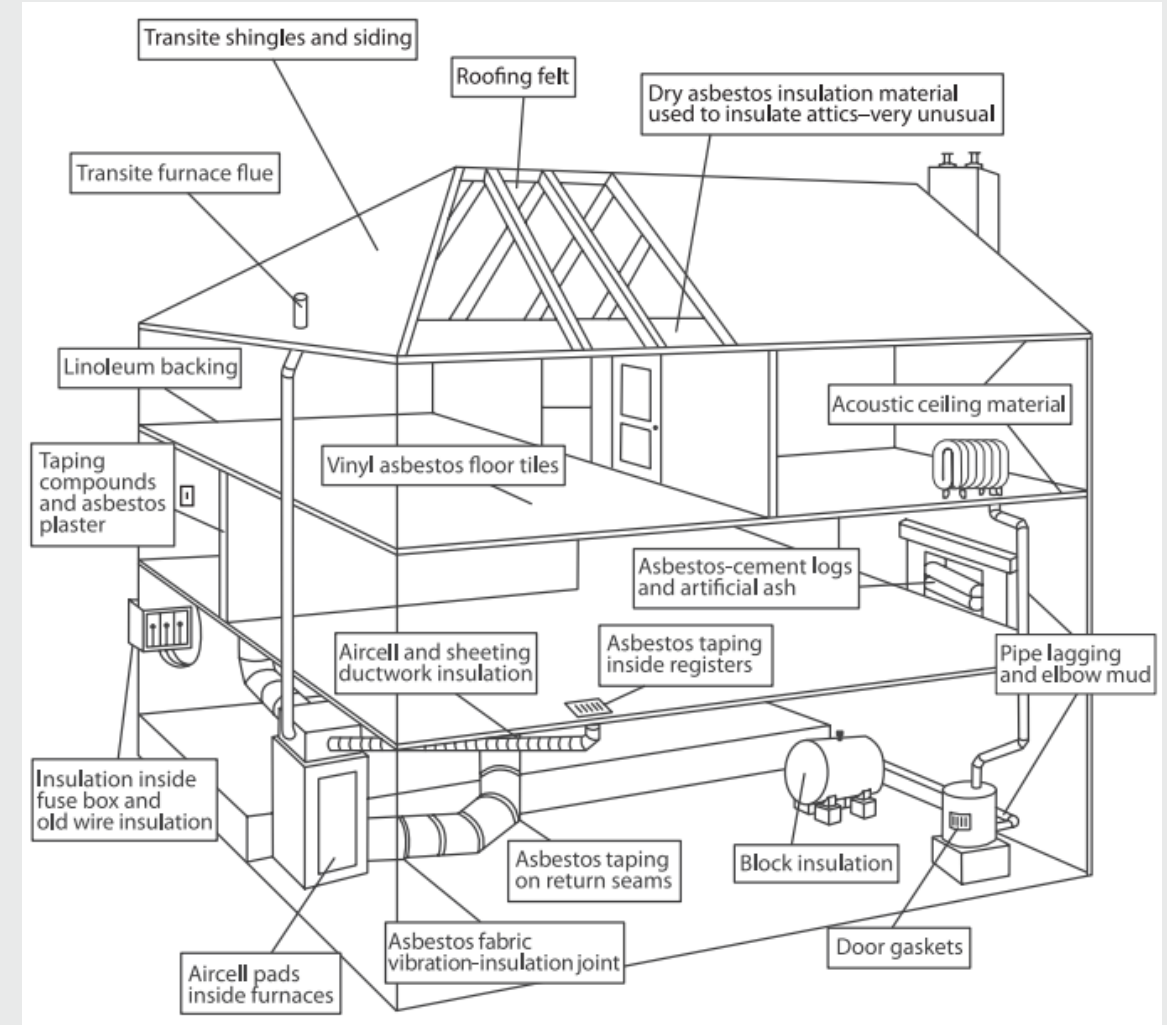
# Unanticipated Utility Work & Abatement

- Over 17 Unmapped Utility Lines
  - 12" AC Water Pipe
  - 12" Sewer
  - 12" Gas Line (Steel)
  - 8" Gas Line (Steel)
  - Multiple Sewer (VCP)
  - Electrical Ductbank(s)
  - Electrical Line(s)
  - 6" Water
  - 3" Water (ACP)
- Abated two Stockpiles
  - Fragments of building materials from historic fill activities



# What is Asbestos?

- A naturally occurring fibrous mineral (long thin crystals) found throughout the world.
- California state rock is serpentine and is known to contain asbestos chrysotile.
- Chrysotile asbestos was commonly used in building materials due to strength, heat resistance, and insulating properties.
- Asbestos-containing material (ACM), means any material containing more than one percent asbestos.
- ACMs are routinely encountered in utility and building construction work.
- Established regulations are followed for abatement work.

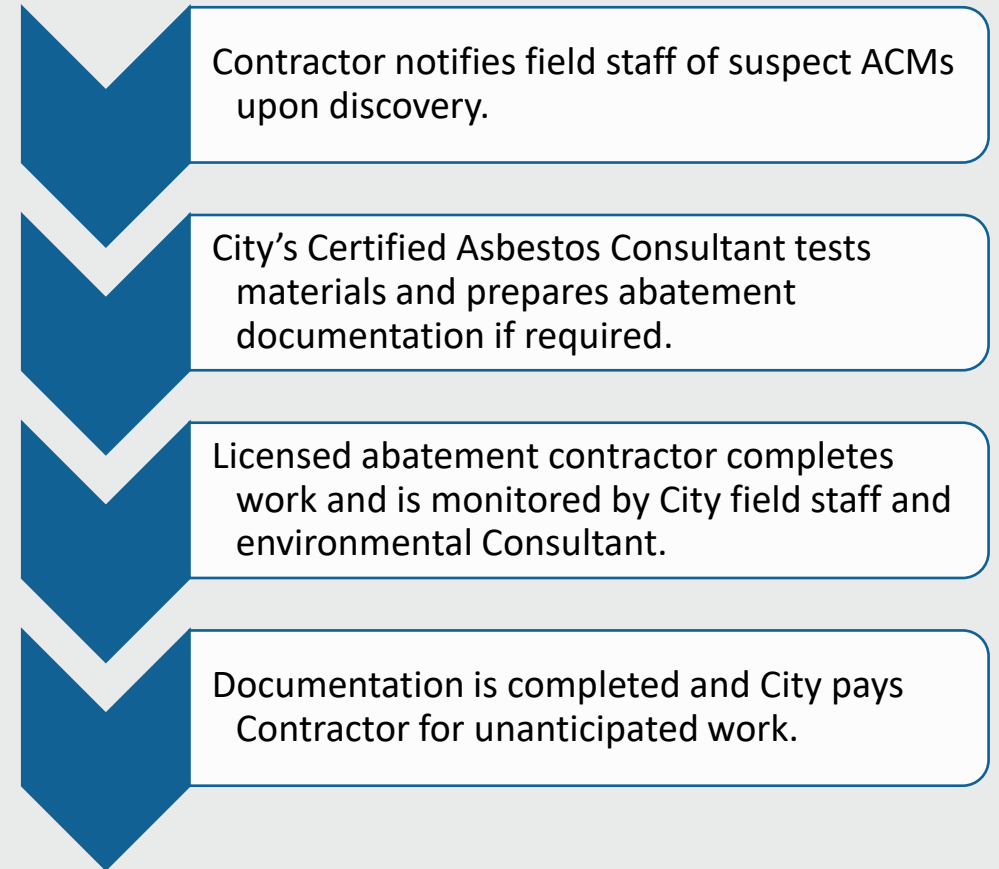


# Regulatory Requirements

## AQMD Rule 1403 Asbestos Emissions From Demolition and Renovation Activities

- Survey
- Notification to Agency
  - Asbestos Removal Schedule
  - Removal Procedures
  - Handling Operations
- On Site Representative
- Disposal
- Chain of Custody Recordkeeping

## City Project





# ACMs Encountered During Construction

- Abatement is done in-place
- Materials are stabilized to prevent release of asbestos fibers
- Large sections of pipe are cut into more manageable pieces
- Each piece, small to large, was wrapped/bagged and disposed of at an approved landfill
- No open investigations by AQMD.

FAQs: <http://bit.ly/2025CLFAQ>



# Eliot Street

## Work Completed

- Relocate 5kV high-voltage ductbank
- Demo & abate unmapped utilities
- Construct RCB (bridge) structure
- Performed 2 culvert reroutes
- New storm drain and catch basins
- Initial pavement

## Work Remaining

- Final Pavement
- Striping and signage of vehicular and pedestrian pathways
- New connecting path
- Landscaping and fencing/guardrails





# Colorado Lagoon Restoration Project Update – Eliot Street





# Colorado Lagoon Restoration Project Update – Eliot Street





# Colorado Street

## Work Completed

- Utility bypasses: 12in Potable Water, 6in Reclaimed Water, 21in Sewer
- 3rd Party Utility Work: SCE, LBU (Gas & Water), Chevron Oil, LA DWP Oil
- Discovered/still discovering unmapped utilities requiring demo and/or abatement
- Installed utility bridge & apron/wing walls



## Work Remaining

- Sewer and utility work
- Construction of reinforced concrete box bridge
- Complete utilities and roadway
- Landscaping, fencing/guard rails, and plant establishment





# Colorado Lagoon Restoration Project Update – Colorado Street





# Colorado Lagoon Restoration Project Update – Colorado Street





# Marina Vista Park

## Work Completed

- Excavated & backfilled Prisms 1 & 2
- Removal of buried debris, abatement of unmapped utilities and soil stockpiles
- Rough grading for field preparation
- Concrete for new picnic tables, benches, dugout, fitness equipment, electrical pedestal
- Installed ballfield backstop and fence posts

## Work Remaining

- Irrigation installation
- Place topsoil and perform soil amendments
- Sod installation & establishment



# Open Channel

## Work Completed

- Demo & abatement of oil line
- Abatement of unmapped utilities in vicinity
- Excavated channel area

## Work Remaining

- Dewatering channel
- Excavate to Colorado Street bridge
- Finish channel grading
- Temporarily close channel and remove existing (now exposed) box culvert
- Release tidal flow through Open Channel
- Complete irrigation & planting of habitat





# Colorado Lagoon Restoration Project Update

## Remaining Schedule

Major Activities	Target Completion
Colorado St Utilities Installations and Relocations	Current - Summer 2025
Construct Colorado Street Reinforced Concrete Box (RCB) Bridge	Spring - Summer 2025
Sod Establishment at Marina Vista Park	Summer - Fall 2025
Open Colorado & Eliot Streets**	Fall 2025 to Winter 2026 (early 2026)
Open Channel Planting Habitat Restoration	Winter 2026 (early 2026)

*\*\*Timeframes are subject to contract negotiations and Recovery Schedule agreements*

# Fire Station 14 Workforce Privacy Project

- Fire Station 14 is reopening February 20, 2025
- Similar to the start of the project, there will be a detour for the fire trucks in lieu of traveling on Colorado and Eliot Streets
- For inquiries, please call: (562)570-2500



# Colorado Lagoon Restoration Project Update

Colorado Lagoon Community  
Meeting #04 (Q&A)



**Previously issued FAQ's can  
be found on the project  
website:**

[https://www.longbeach.gov/pw/  
projects/colorado-lagoon-  
project/](https://www.longbeach.gov/pw/projects/colorado-lagoon-project/)



## FAQ: What types of hazardous materials were encountered that required abatement?

- Some utilities that must be removed and relocated for this project contained asbestos materials.
- Abatement activities are in compliance with all regulatory requirements including material and soil testing, use of personal protective equipment, and specific procedures for handling materials that contain asbestos to prevent release into the environment.

## FAQ: Were ACMs anticipated for this work?

- Confirmed and known ACMs were associated with restroom building and water pipeline.
- Numerous soil boring samples were conducted prior to construction across the site and in Marina Vista Park.
- None of the samples indicated the presence of ACMs.





## FAQ: How is Abatement work completed?

- Contractor requirements for handling ACMs and abatement remain in place since the project began.
- Abatement work is completed by a licensed abatement subcontractor.
- Contractor is required to notify the City immediately if suspicious material is discovered on-site.
- There is a full time onsite Public Works inspector monitoring progress.
- Construction activities are monitored by a Construction Management Team, Engineers, and Scientists.
- Abatement is monitored by a licensed Certified Asbestos Consultant (CAC).
- Given the progress of the project, additional ACMs are not anticipated.

## FAQ: What is the Environmental Consultant role?

### What other types of monitoring occurs?

- The City's Environmental Consultant and Certified Asbestos Consultant provides monitoring and reporting for environmental services including asbestos and abatement work.
- The Contract Documents and regulatory requirements require soil, water, and other environmental testing for a wide range of constituents by the environmental consultant and others to ensure construction work does not impact the environment and that the work is completed in accordance with project requirements to achieve restoration goals.
- City Field Staff: Construction Manager, Inspectors, Engineers and Scientists.



## FAQ: Has the water at Colorado Lagoon been tested?

### Can asbestos contaminate water for swimmers?

- Asbestos is not reactive, does not dissolve in water, and does not present an exposure risk for recreational swimming.
- The Colorado Lagoon is tested frequently:
  - The Health Department tests for recreational water quality.
  - Additional water quality monitoring and testing is conducted during construction in accordance with contract document and regulatory requirements.
- The lagoon is regularly tested and monitored for various water quality parameters as part of State Water Board Requirements for the Colorado Lagoon issued in 2011.

## FAQ: Is construction impacting the Lagoon?

- The project goal is to improve the health of the Lagoon.
- Environmental controls, phasing, and monitoring have been implemented to avoid and minimize impacts during restoration activities.
- The Lagoon continues to benefit from earlier phases of restoration and the existing tidal connection to Marine Stadium will be maintained throughout construction with limited and short duration interruption that is carefully monitored.



## FAQ: What about Marine Life at the Lagoon?

- Marine life (including marine mammals like sea lions) may travel between Marine Stadium and Colorado Lagoon through the existing culvert and the construction diversion channel.
- Marine mammal activity was previously evaluated during project monitoring. Any closures are subject to project environmental monitoring procedures which include specific measures for marine mammals.

## FAQ: Is there going to be a path for pedestrians or bicycles?

- A pedestrian path has been provided during the course of construction.
- Existing pedestrian and bike facilities serving Colorado and Eliot street are being maintained and improved.
- Sidewalks, cross walks, and separated bikeways are maintained.
- Improvements include a new trail, wider sidewalks, and shorter crossing distances for pedestrians.





## FAQ: Can paddlers, boats, and swimmers use the channel?

- No. Swimmers, paddlers, and boaters may not use the channel.
- Swimming is allowed in the Lagoon designated swim area.
- Paddling and Boating is allowed in Marine Stadium subject to City regulations.

## FAQ: Is grading completed for the project?

- No. Earthwork and grading is ongoing and will continue for several months.
- Current field elevations are not representative of final elevations for the project.



## FAQ: Why does rain impact the schedule?

- Rain impacts many construction activities, especially earthwork.
- Some of these activities include excavation for utilities, bridge work, and the channel.
- Saturated soils require time to dry before earthwork can resume.
- Concrete formwork and pours are impacted by rain.
- Work rescheduling and crew availability may not be immediate.

## FAQ: When will roadway access reopen?

- Roadway access is anticipated to reopen in Fall 2025 – Winter 2026.
- Construction schedules are subject to unforeseen delays and weather impacts.



## FAQ: When will the project be open to the Public?

- Park spaces require an establishment period to ensure sod and other landscaping is ready for use.
- Sod and landscape establishment Summer - Fall 2025. Longer sod establishment period will ensure longevity of grassy field.
- Construction schedules are subject to unforeseen delays and weather delays.

## FAQ: What are the impacts of Fire Station 14?

- Fire Station 14 is opening soon and LBFD is currently staging their equipment and re-establishing operations.
- Operations have been relocated to peripheral Fire Stations, specifically Belmont Shore Station 8, Station 4, and Station 19.
- The Fire Station project is separate from the Lagoon/Open Channel restoration with separate funding sources.

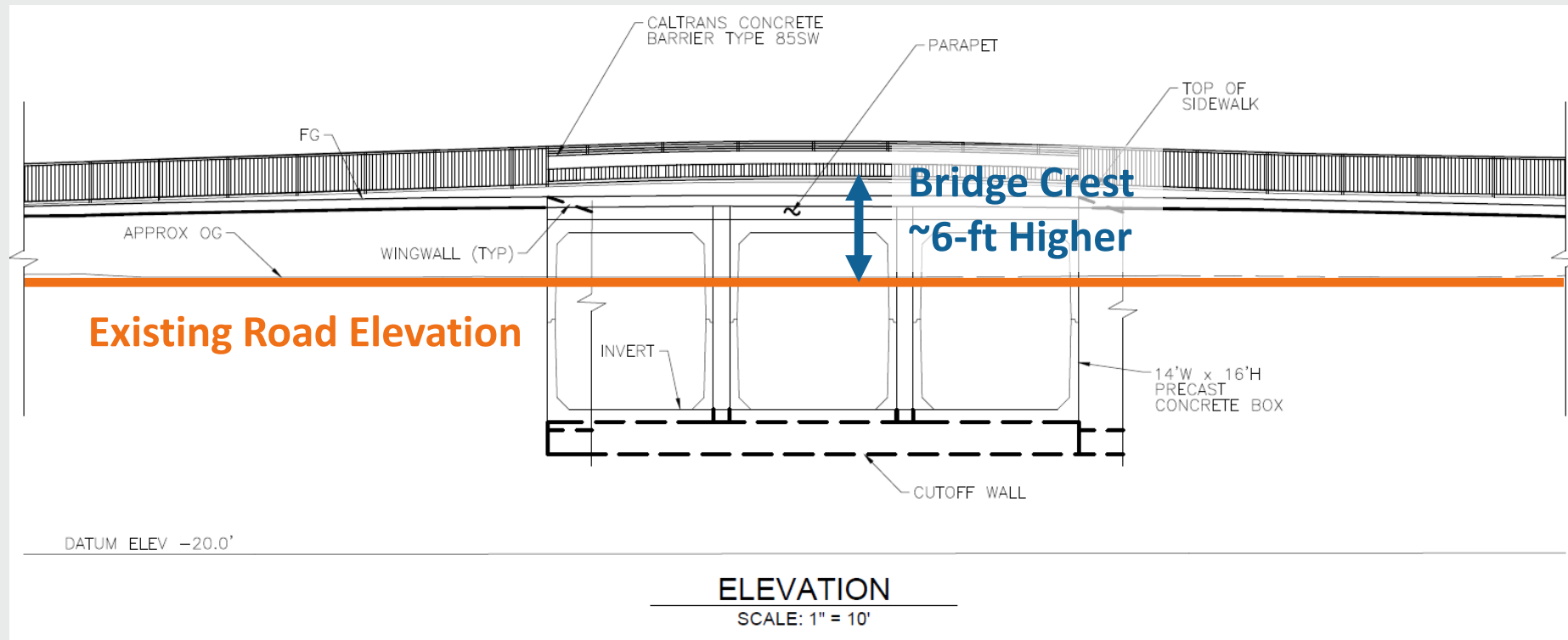


## FAQ: How high are the bridges?

- The bridges will accommodate full tidal range including king tides.
- The roads slope gently up to the bridges with slopes less than 3.5%.
- The bridges are approximately 6-ft higher than the existing road at the highest point.
- Refer to prior [Community Meeting presentation](#) and [June](#)
- [FAQ](#) related to bridge aesthetics

## FAQ: What type of bridges are being constructed?

- Reinforced Concrete Box Bridges





## FAQ: How will Marina Vista Park Fields be used?

- Fields in Marina Vista Park will be programmed by Parks, Recreation, and Marine.
- Permanent field striping is not planned as part of this work

## FAQ: What Portions of Colorado and Eliot are being repaved?

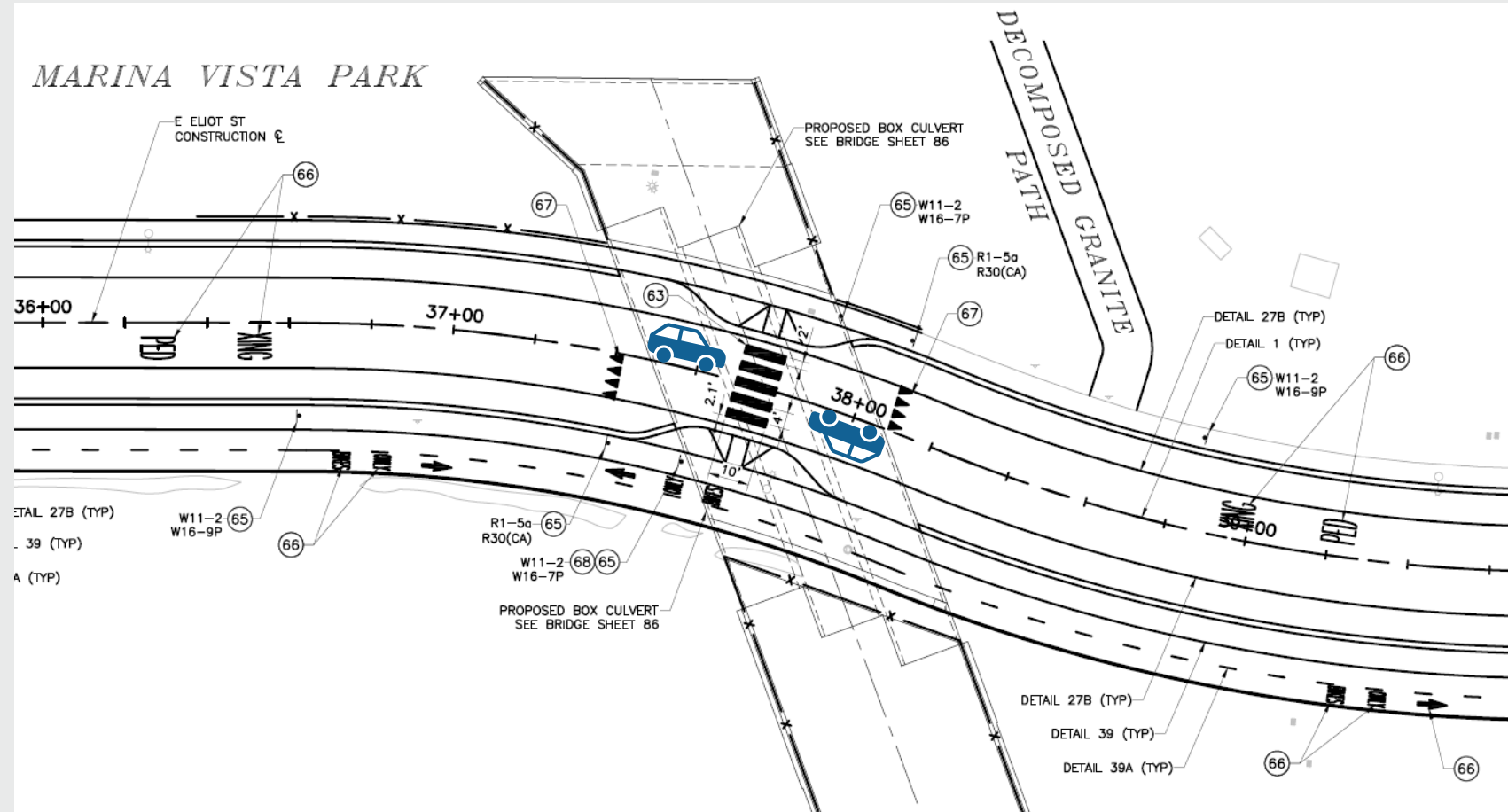
- Areas highlighted in green are part of the Contractor's scope for repaving.
- The project team is in discussion with streets maintenance for potential slurry seal improvements outside the project limits.



# Colorado Lagoon Restoration Project Update

## FAQ: Will Eliot Street have two-way traffic?

- Yes, there is one vehicle travel lane in each direction on the Eliot St bridge.





## FAQ: When will the Municipal Band Return to Marine Stadium Park (Larry Curtis Park)?

- The Municipal Band is anticipated to return for the summer 2025 season.
- The Municipal Band will utilize the space in Larry Curtis Park outside of construction limits.



# Colorado Lagoon Restoration Project Update

## QUESTIONS & ANSWERS



Colorado Lagoon Community  
Meeting #04 (Q&A)



# Colorado Lagoon Restoration Project Update

**For more information and to stay connected:**

**Email:**

[TidelandsCIP@longbeach.gov](mailto:TidelandsCIP@longbeach.gov)

**Project Web Page:**

<https://www.longbeach.gov/pw/projects/colorado-lagoon-project/>

**Social Media:**

@LBPublicWorks on Facebook, Twitter, and Instagram





Thank you