



Aerial View of Central Reservoir – Google Earth

# Central Reservoir Replacement Project Update

Planning Committee

February 11, 2025

Roya Yazdani, Associate Civil Engineer

# Agenda

- Overview and Background
- Project Purpose, Need, and History
- Project Description
- Approach to Design and Project Status
- Next Steps

# Central Reservoir Background & History

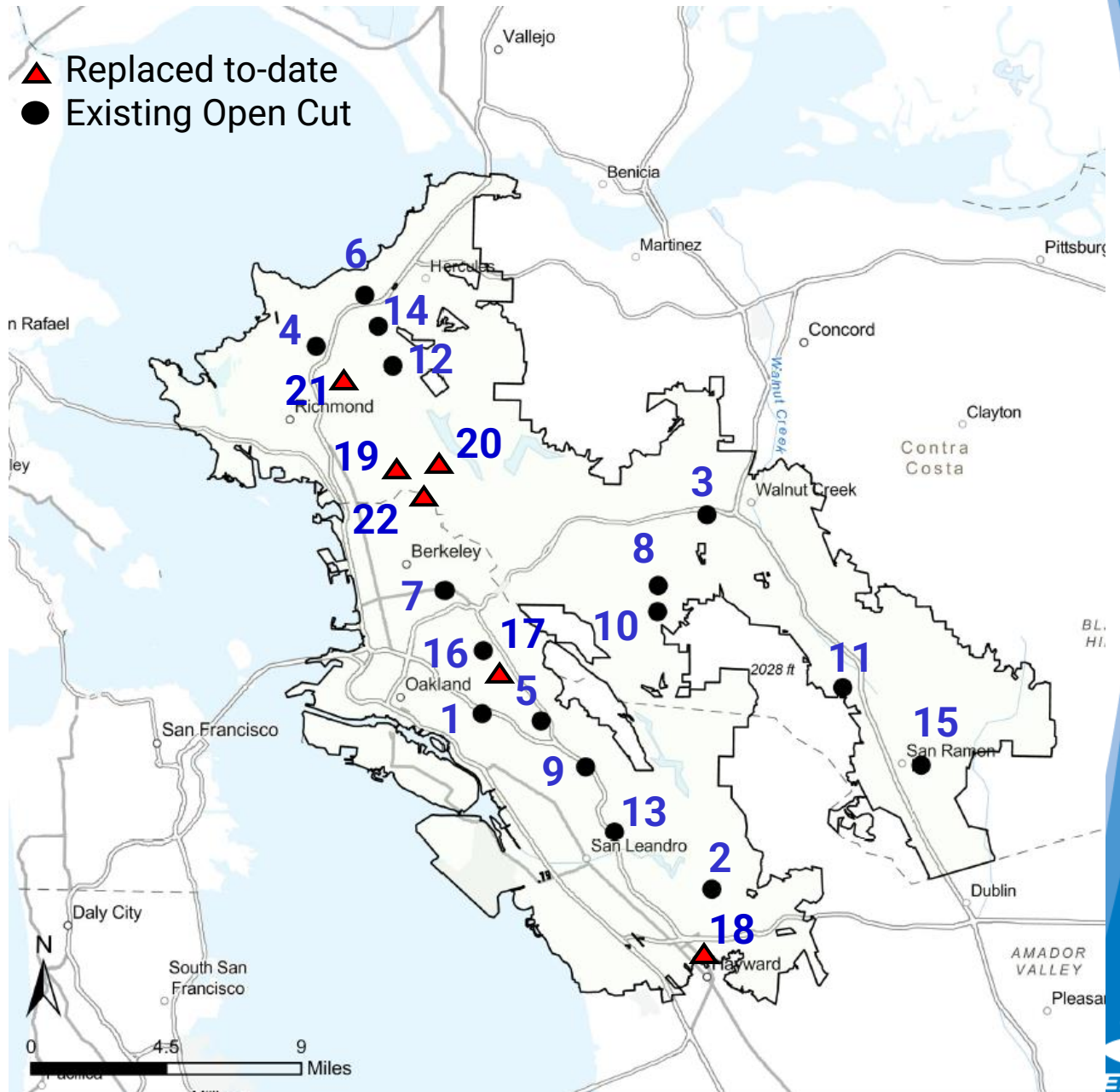


Aerial view of Central Reservoir and surrounding neighborhoods, with Interstate 580 running through the center

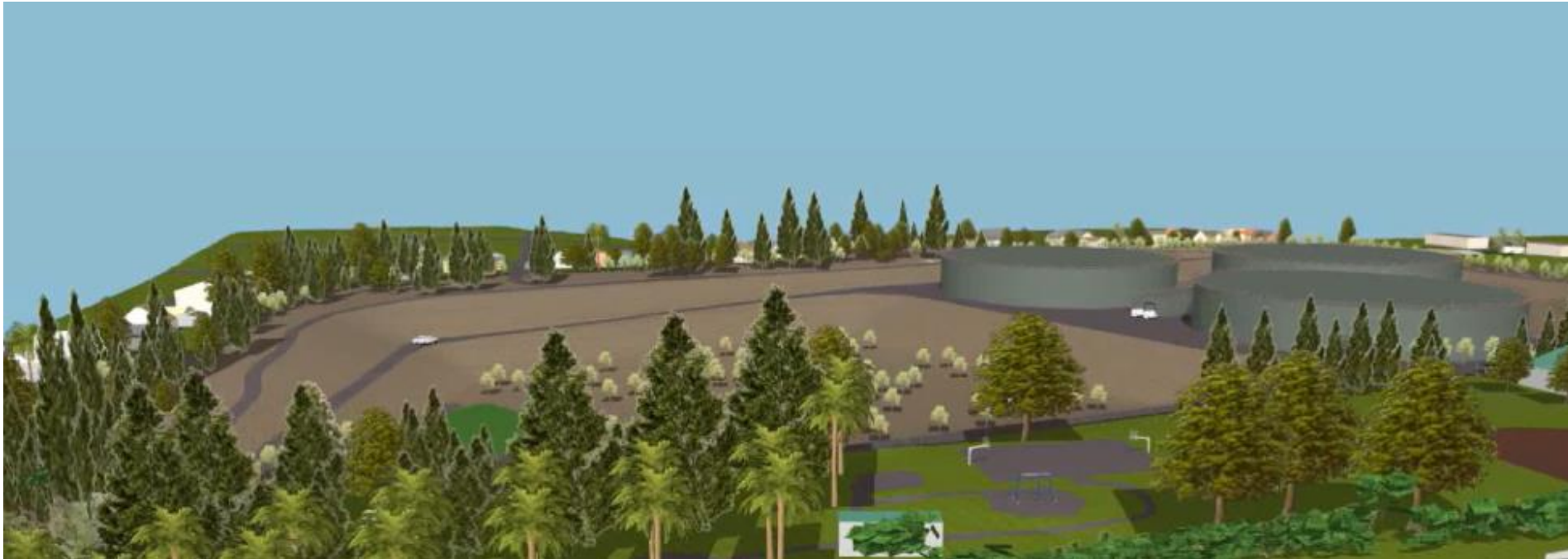
- EBMUD's largest distribution reservoir located in Oakland
  - 154 million gallons (MG)
  - 27-acre site
  - 52,000 customer services
- Originally built in 1910 by the People's Water Company to distribute water to Lake Chabot, the open-cut reservoir will be replaced with three 14-MG pre-stressed concrete tanks
- Board of Directors adopted CEQA EIR on April 13, 2021
- Board of Directors authorized Design Services Agreement on September 10, 2024

# Open Cut Reservoirs

No.	Reservoir Name	No.	Reservoir Name
1	Central	16	Piedmont
2	Almond	17	Estates ▲
3	Leland	18	South ▲
4	North	19	Summit ▲
5	39th Ave	20	San Pablo Clear Well ▲
6	Maloney	21	Schapiro ▲
7	Claremont	22	Berryman ▲
8	Fay Hill		
9	USL Clearwell		
10	Moraga		
11	Danville		
12	Sobrante Clearwell		
13	Dunsmuir		
14	Argyle (No. 2)		
15	Watson		



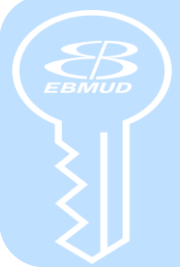
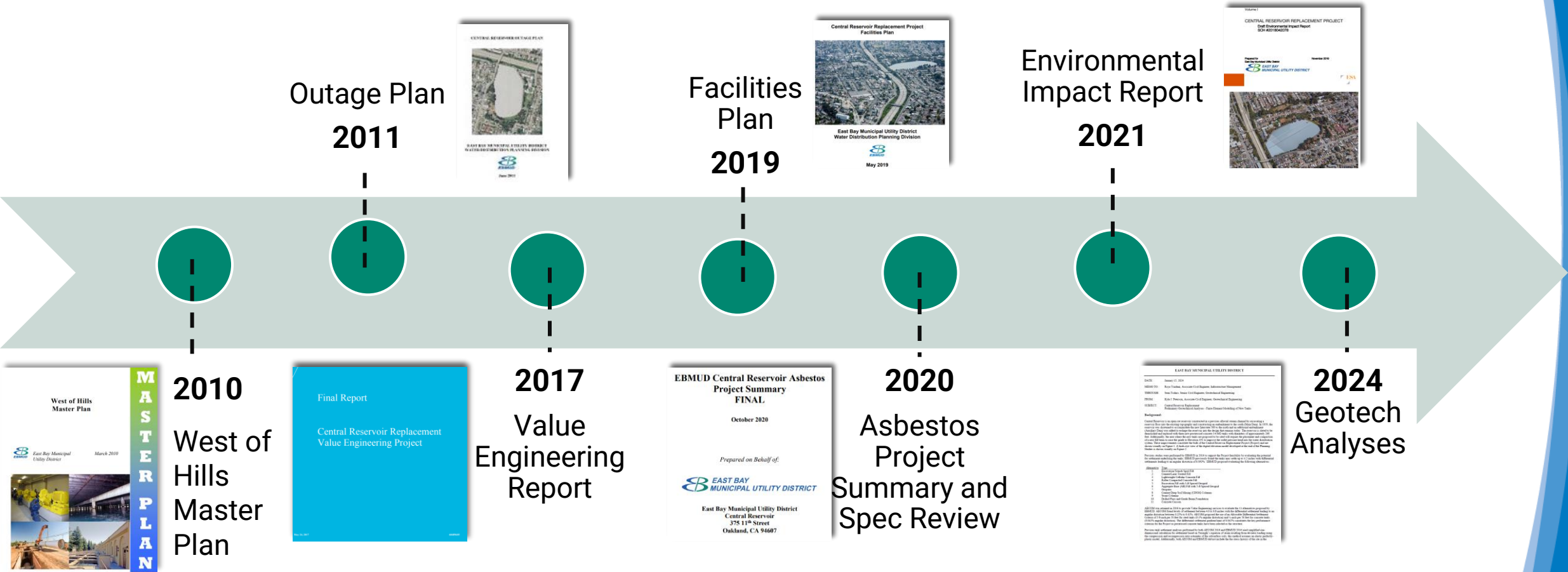
# Project Purpose and Need



- Replace the reservoir at the end of its useful life
- Improve operational flexibility
- Resize to address challenging water quality conditions
- Raise elevation to improve water distribution system operations
- Eliminate hazardous materials

Rendering of Central Reservoirs from 2021  
Environmental Impact Report

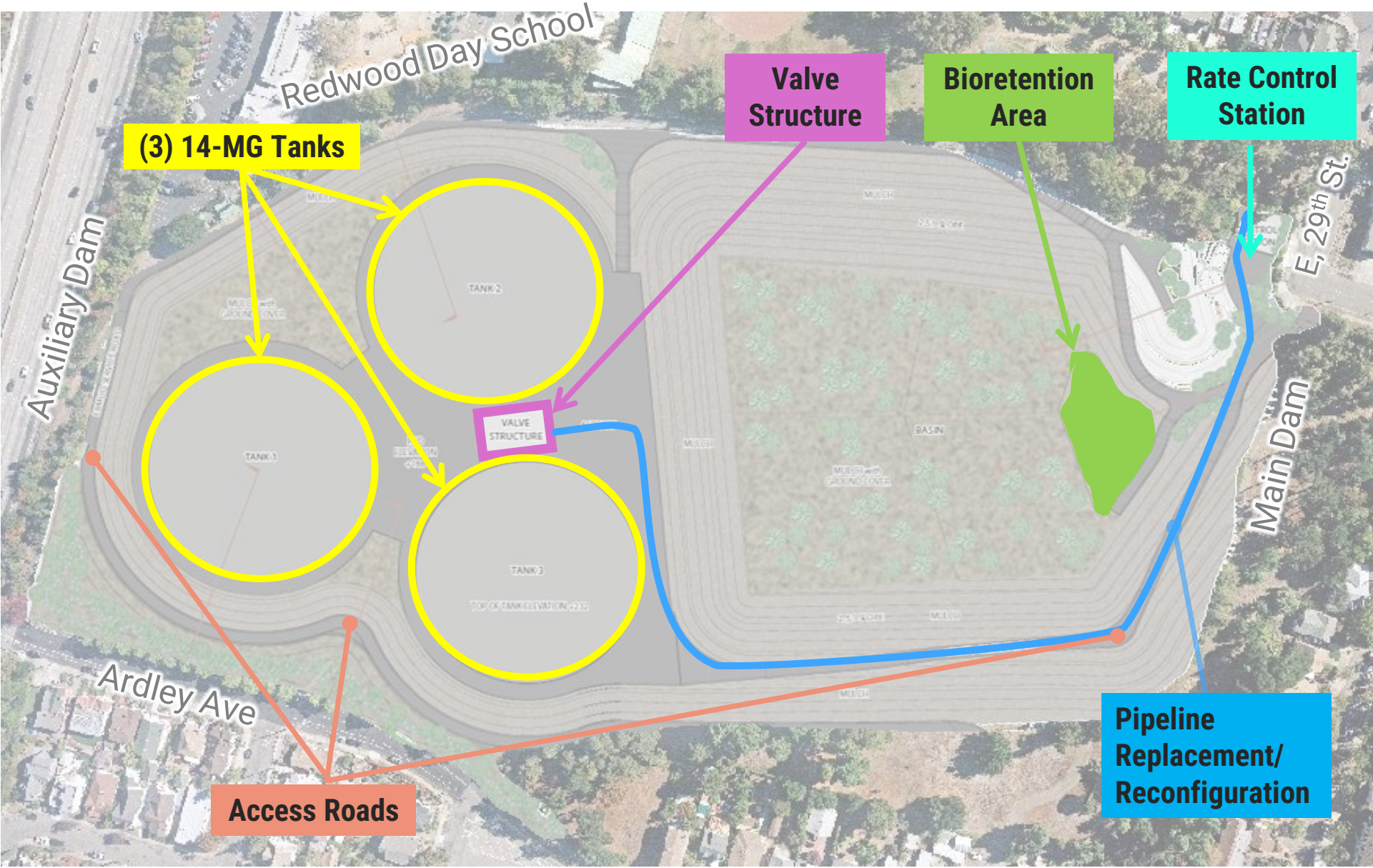
# Project History



## Key Takeaway

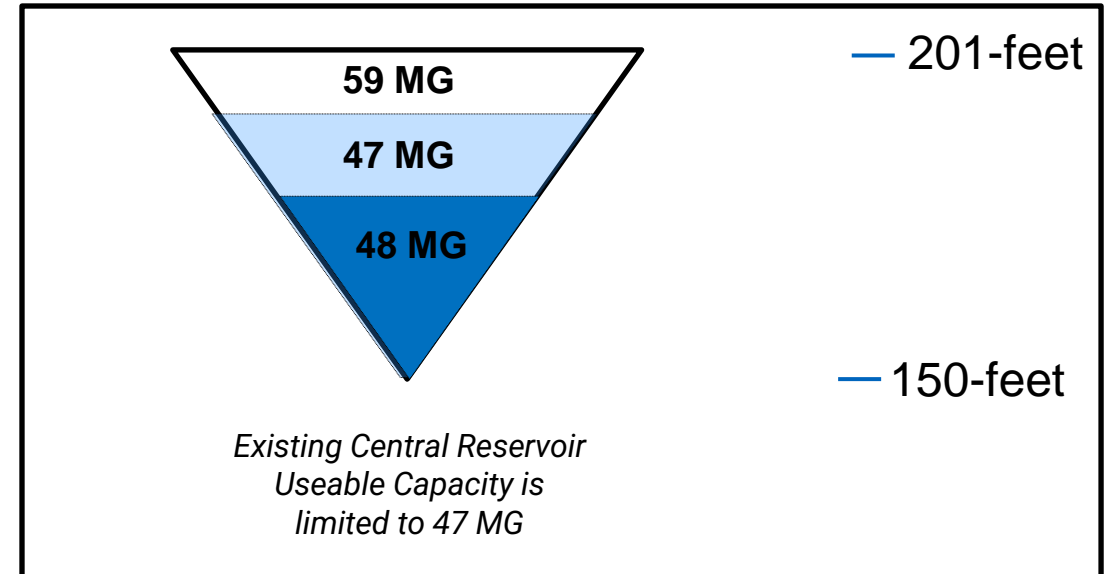
Need for this project has been extensively studied.

# Site Plan



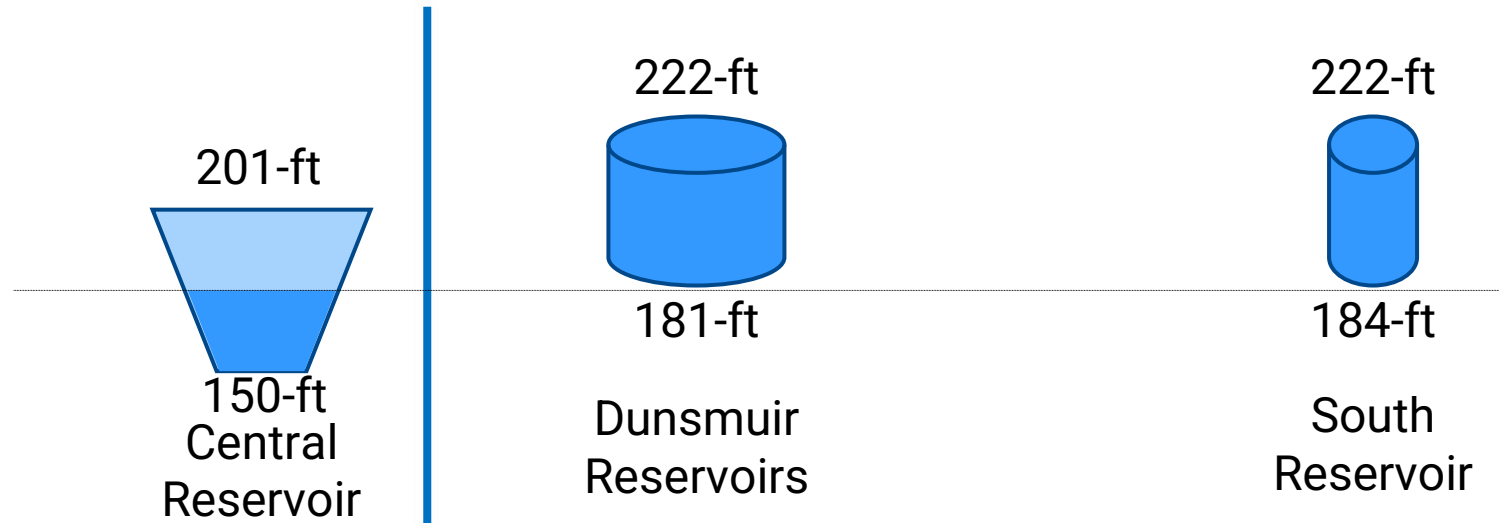
# Reservoir Sizing

- Sized to meet existing and future demands
- Approximately 70% reserved for emergencies including fire flow
- Meets water quality goals through improved turnover
- Existing useable capacity is limited due to leaking liner and low elevation of reservoir



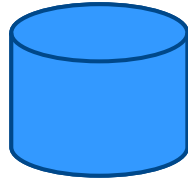
# Central Pressure Zone

- Raising reservoir elevation allows supply from Dunsmuir and South Reservoirs



# Central Pressure Zone

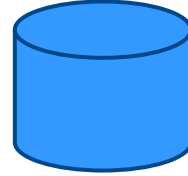
222-ft



184-ft

Central Reservoir

222-ft



181-ft

Dunsmuir Reservoirs

222-ft



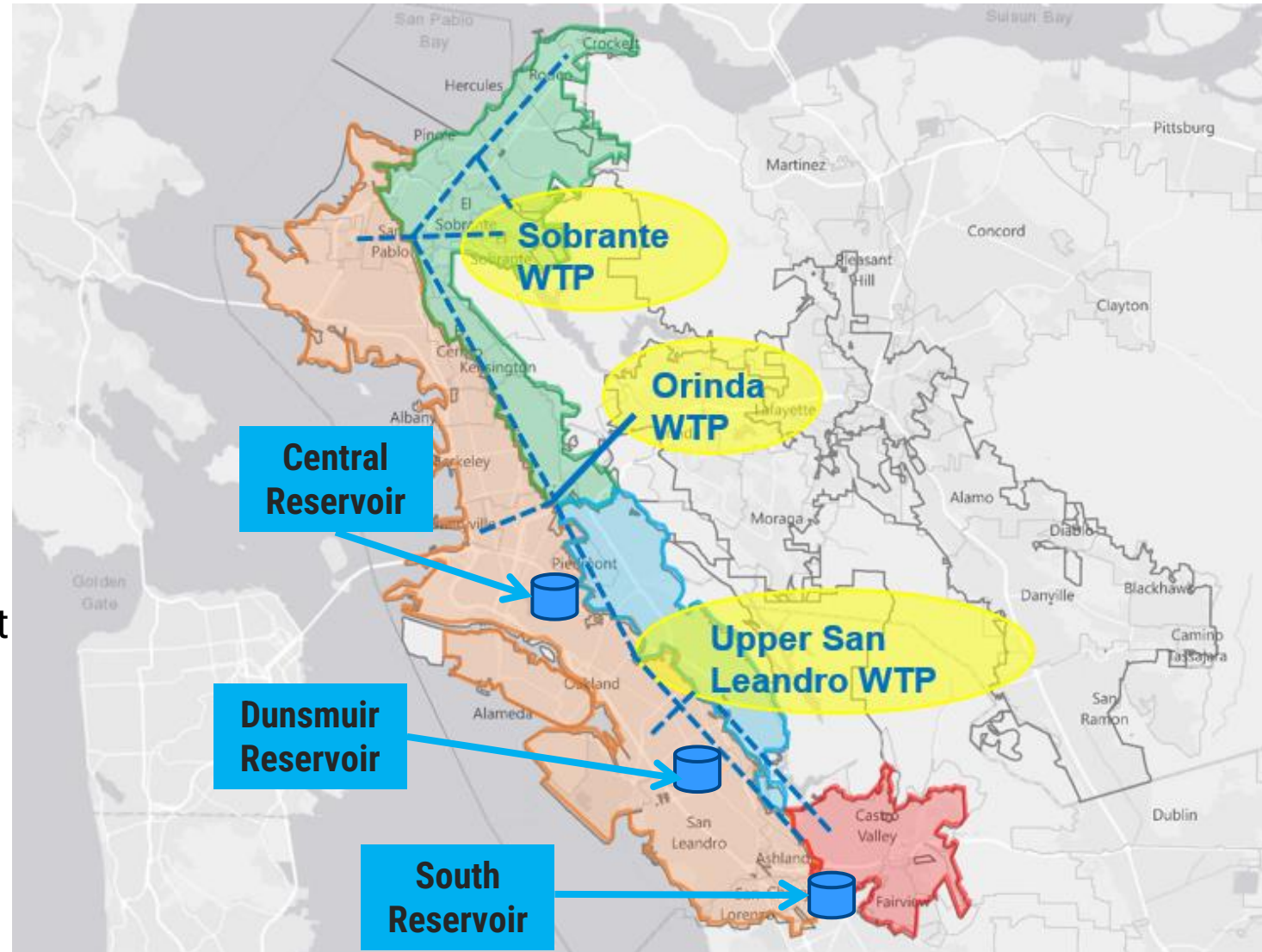
184-ft

South Reservoir



# Reservoir Outage Plan

- **Construction:** Approx. 6.5-year outage.
- **Supply and Pressure:** Maintained for existing demands, including fire flow.
- **Operational Risk Mitigation:**
  - **Risk:** Reduced storage with Central Reservoir out of service.
  - **Mitigation Measures:**
    - Place the second basin at Dunsmuir Reservoir in service.
    - Open a large valve to connect Central Reservoir and Dunsmuir and South Reservoirs service areas.
  - **Operating Guidelines:** Sobrante, Upper San Leandro, and Orinda WTPs to operate as needed.

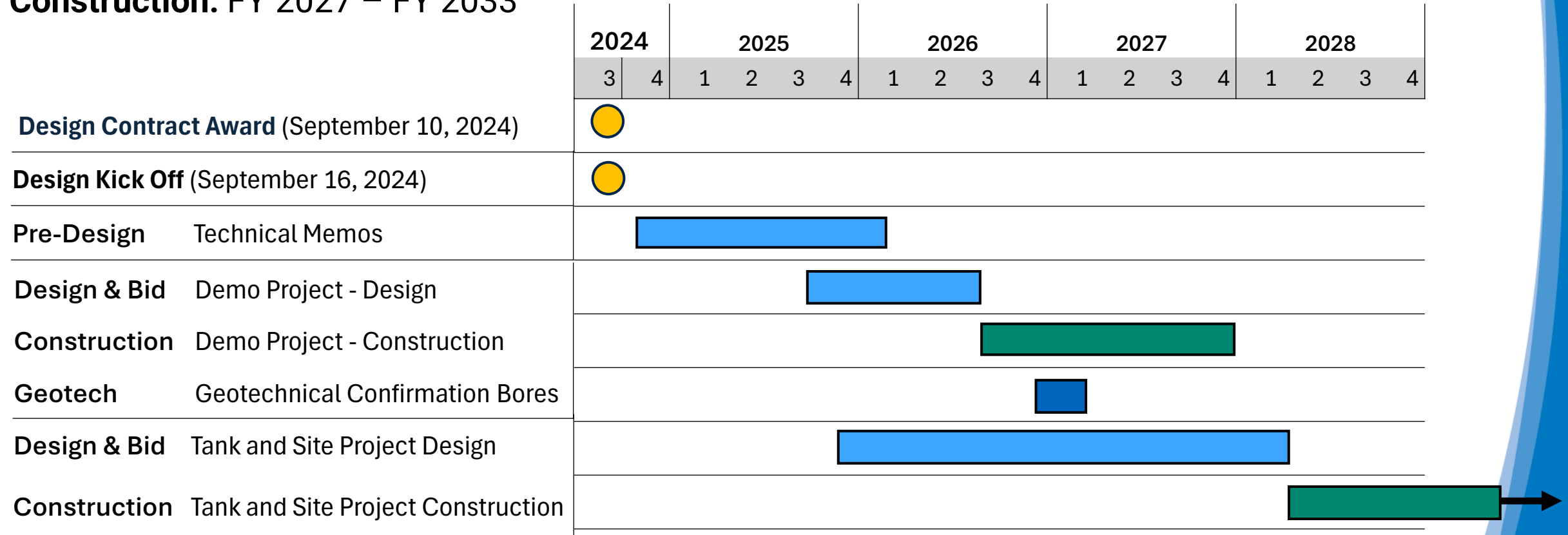


# Project Status Update

- Authorized Design contract on September 10, 2024
- Kicked off Design on September 16, 2024
- Held three workshops with District stakeholders to collaborate on key decisions, including project delivery alternatives
- Planning 15 internal workshops to continue stakeholder collaboration on topics such as early feasibility of earthen berms and landscaping for visual mitigation

# Project Schedule

- **Design:** FY 2025 – FY 2027
- **Construction:** FY 2027 – FY 2033



Construction Completed Early 2033



# Mitigation Measures and Requirements in EIR

- Install 6-ft noise barrier around perimeter
- Control Nighttime lighting
- Provide lodging for residents affected by night work
- Implement hazardous material handling plans
- Install 16-ft noise barrier near Redwood Day School (RDS)
- Schedule noisy work adjacent to RDS during school breaks, if feasible



Workers removing roof tiles with hazardous materials



Typical 16-foot high sound barrier



Typical-fence mounted 6-foot high sound barrier

# Ongoing Community Outreach

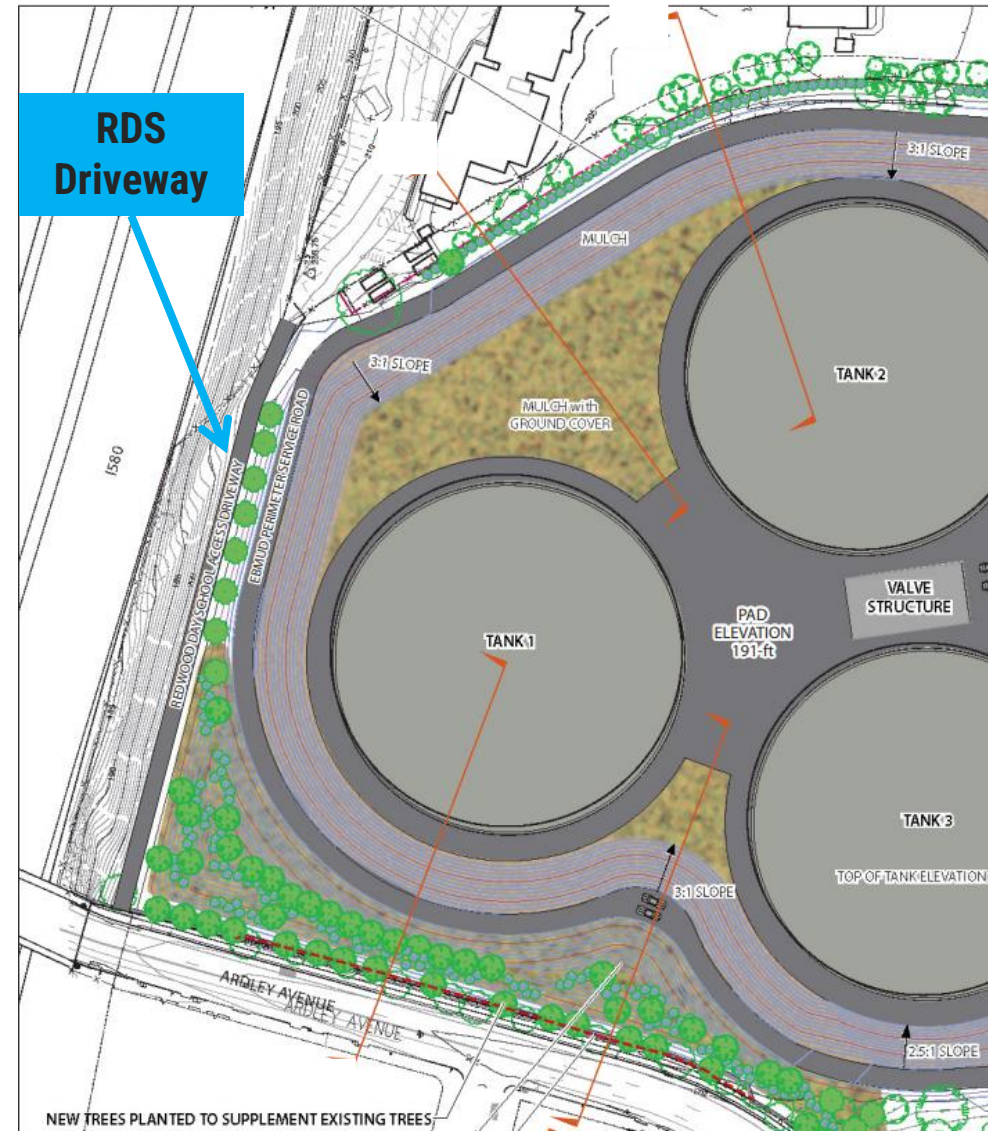
- Extensive community outreach completed during environmental impact report
- Hold a pre-construction meeting with neighbors to present and obtain input on the contractor's plans (such as for hazardous materials handling)
- Consider public input when reviewing the draft plans
- Ongoing project website updates and community notification



Rendering of Central Reservoir from 2021 Environmental Impact Report

# Redwood Day School (RDS) Driveway

- Obtain permits and city approval
- Address school's conditional use permit.
- Design driveway-Ardley intersection (e.g., right-turn-only sign).
- Conduct operational and safety analysis, including:
  - Stop-control type.
  - Sight distance for safe turns
  - Signage or flashing beacons on Ardley.
  - Traffic calming measures
- Finalize MOU and execute lease agreement with District
  - RDS collaboration on community notifications.



Driveway Shown after Reservoir Replacement - from 2021 Environmental Impact Report

# Next Steps

- Finalize the MOU with RDS by June 2025.
- Complete Technical Memos and design for the demolition contract by early FY 2027.
- Conduct pre-construction community outreach
- Complete reservoir demolition, geotechnical investigation, and final design contract for new tanks by FY 2027–FY 2028.
- Construct new tanks and complete site grading by FY 2029–FY 2033.

Questions?



**FLOWING  
INTO  
THE  
FUTURE**

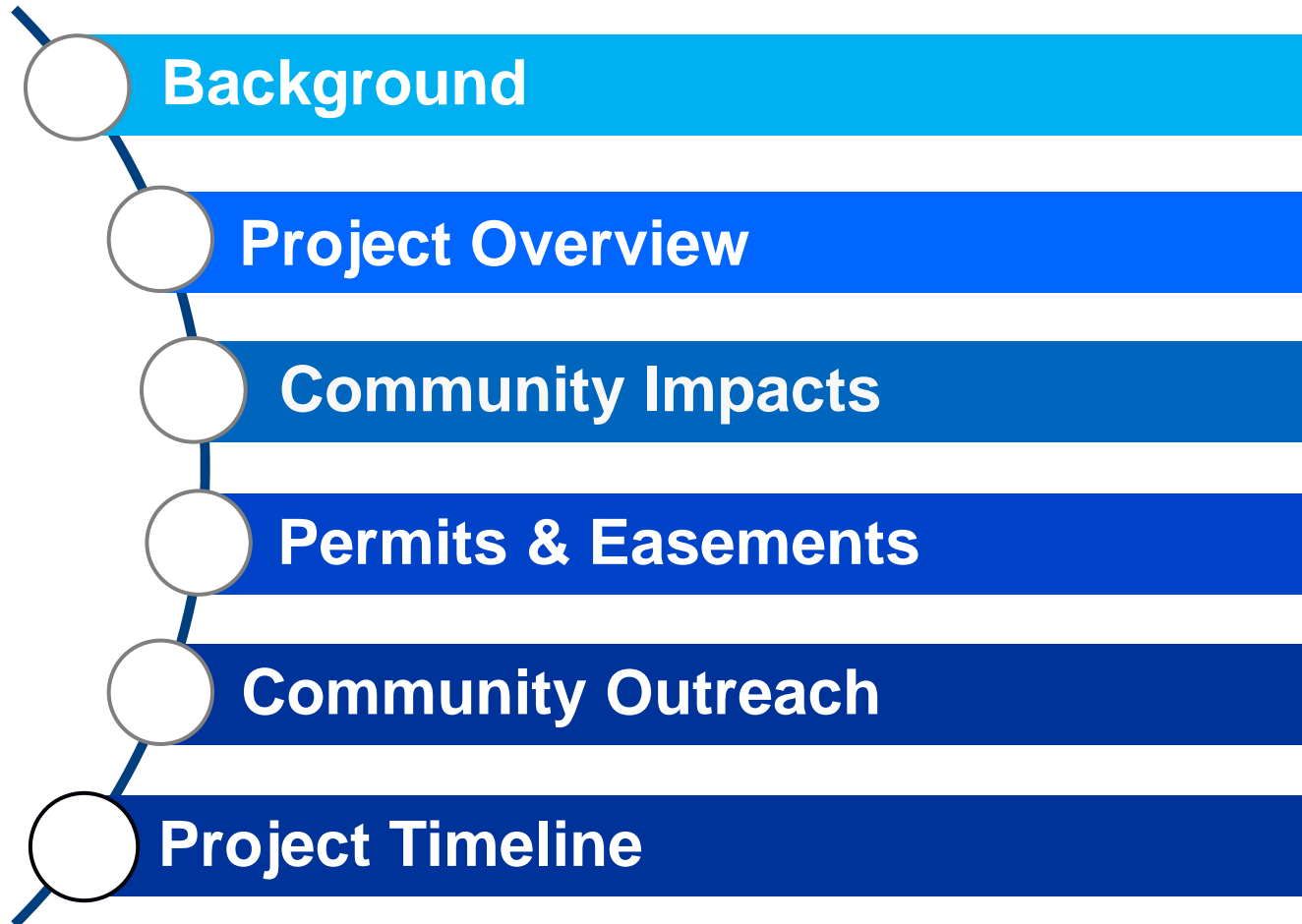


# North Interceptor Rehabilitation, Emeryville

Planning Committee  
February 11, 2025

Adam Mansour, Associate Civil Engineer

# Agenda



# Background



# Background



# Project Overview



# Project Overview



# Project Overview



# Project Overview



# Community Impacts – Noise

- Obtained City of Emeryville waiver for Noise Ordinance
- Noise monitoring before and during construction
- Most work will be at the Caltrans fence line
- Sound attenuated equipment
  - Add noise dampening enclosures where necessary

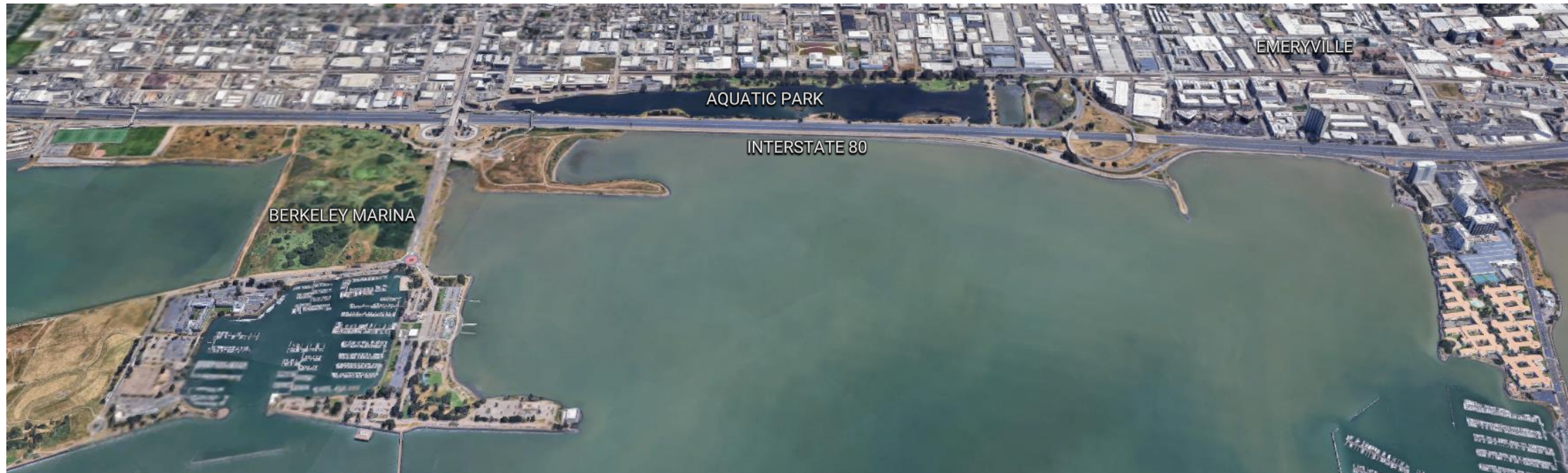


*Sound attenuated pump*



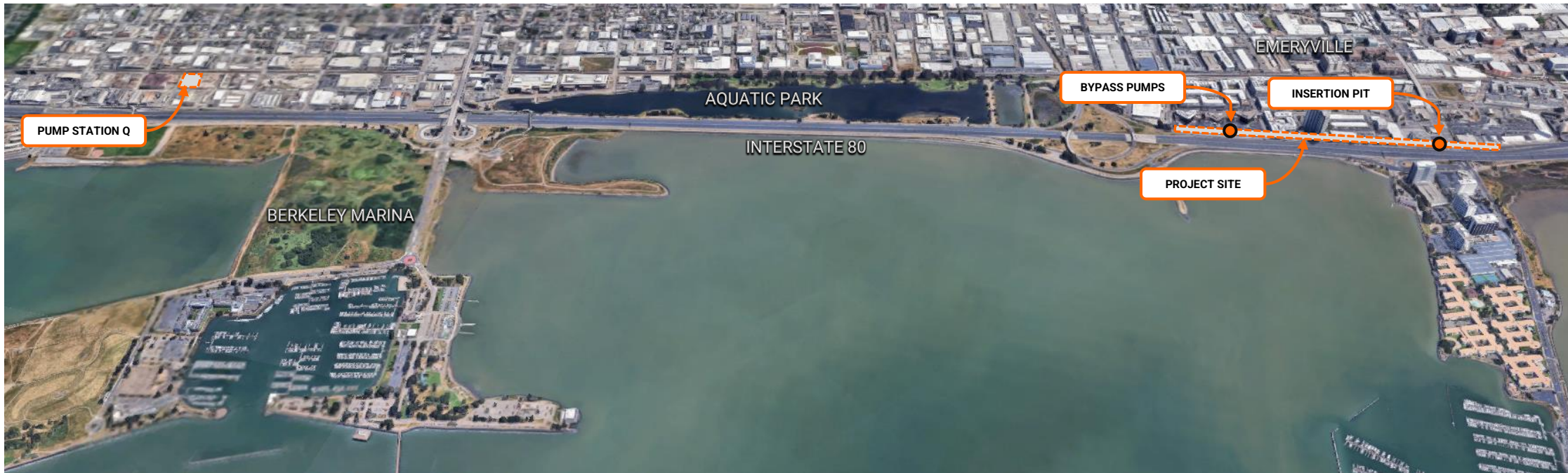
*Noise dampening enclosure*

# Community Impacts – Odor



# Community Impacts – Odor

- Odors expected for short durations at project site
- Odor sources located away from public as much as possible
- Chemical treatment system installed at Pump Station Q to reduce odors

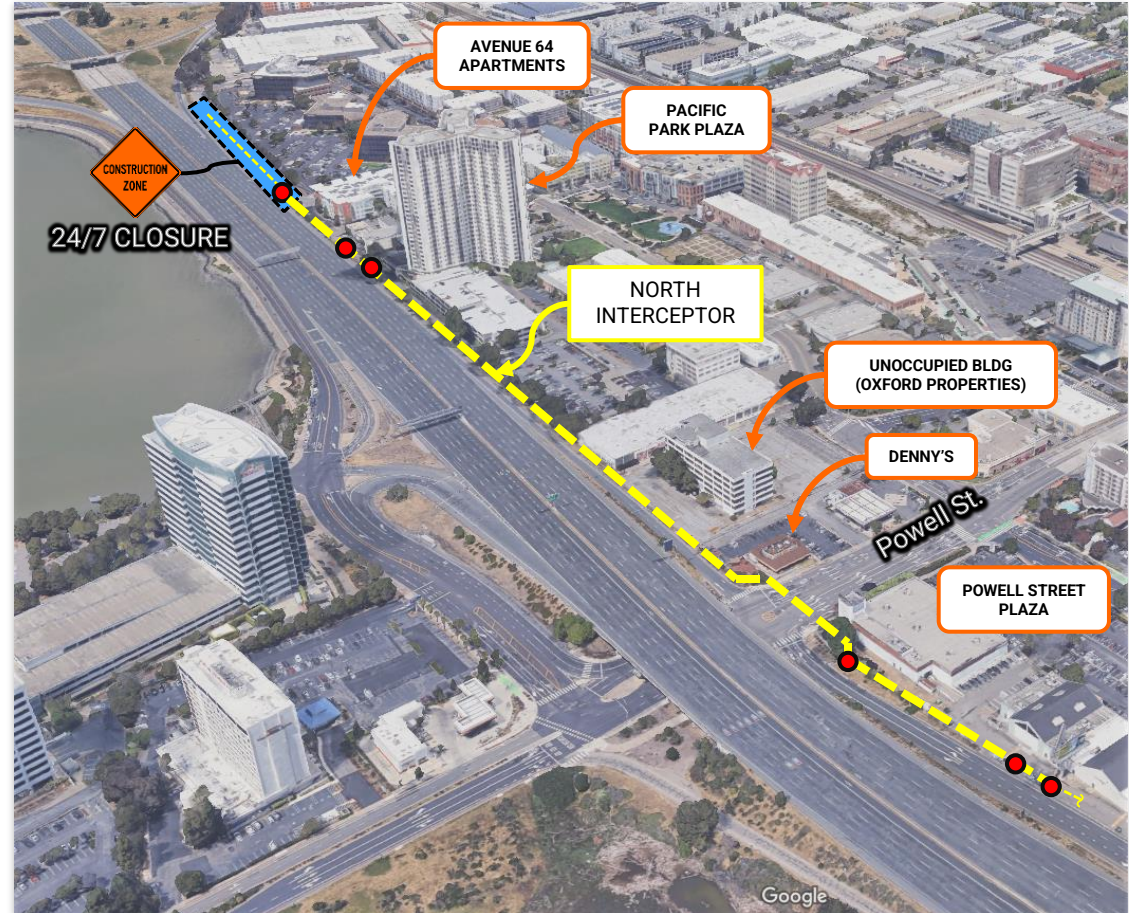


# Community Impacts – Traffic



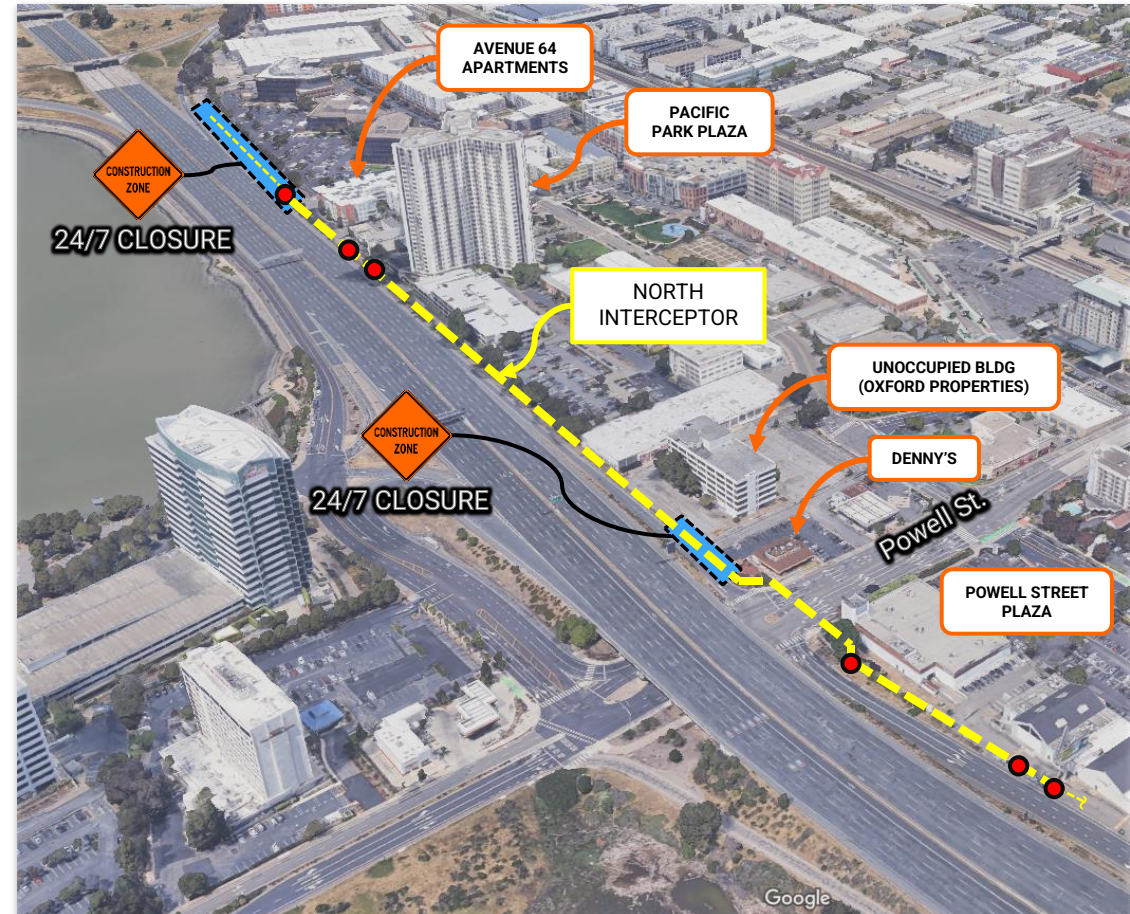
# Community Impacts – Traffic

- Full La Coste St. Closure
  - Estimated throughout May - September



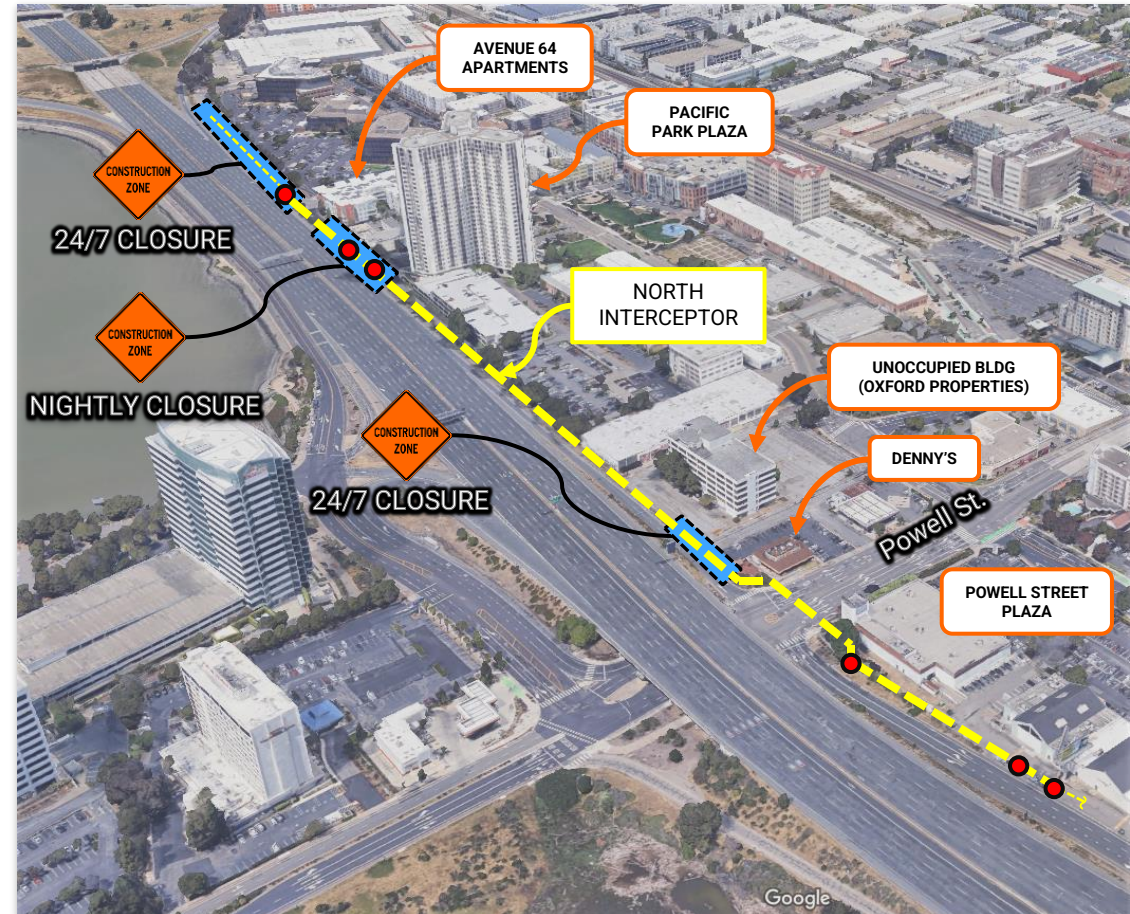
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- I-80 Powell St. on-ramp single lane closure
  - Estimated throughout June - September



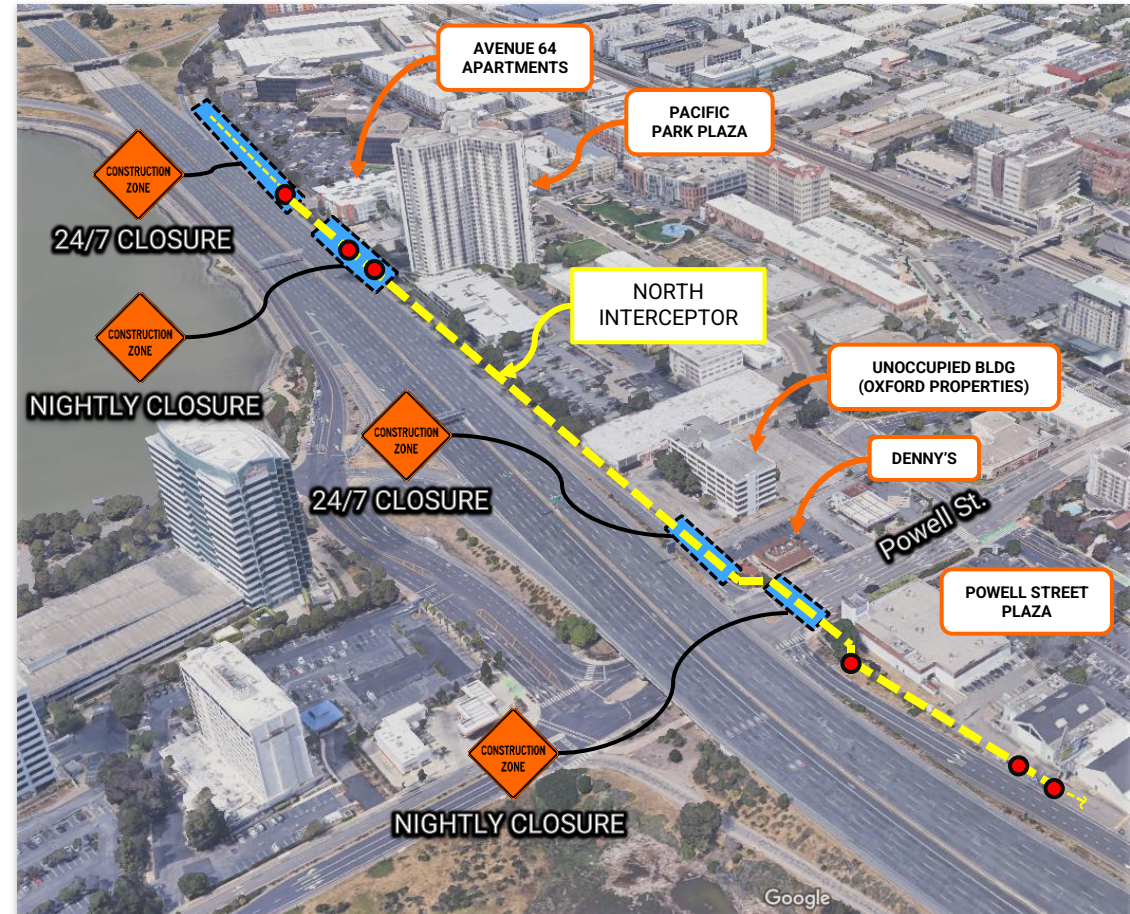
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  - Estimated a couple weeks in July - August



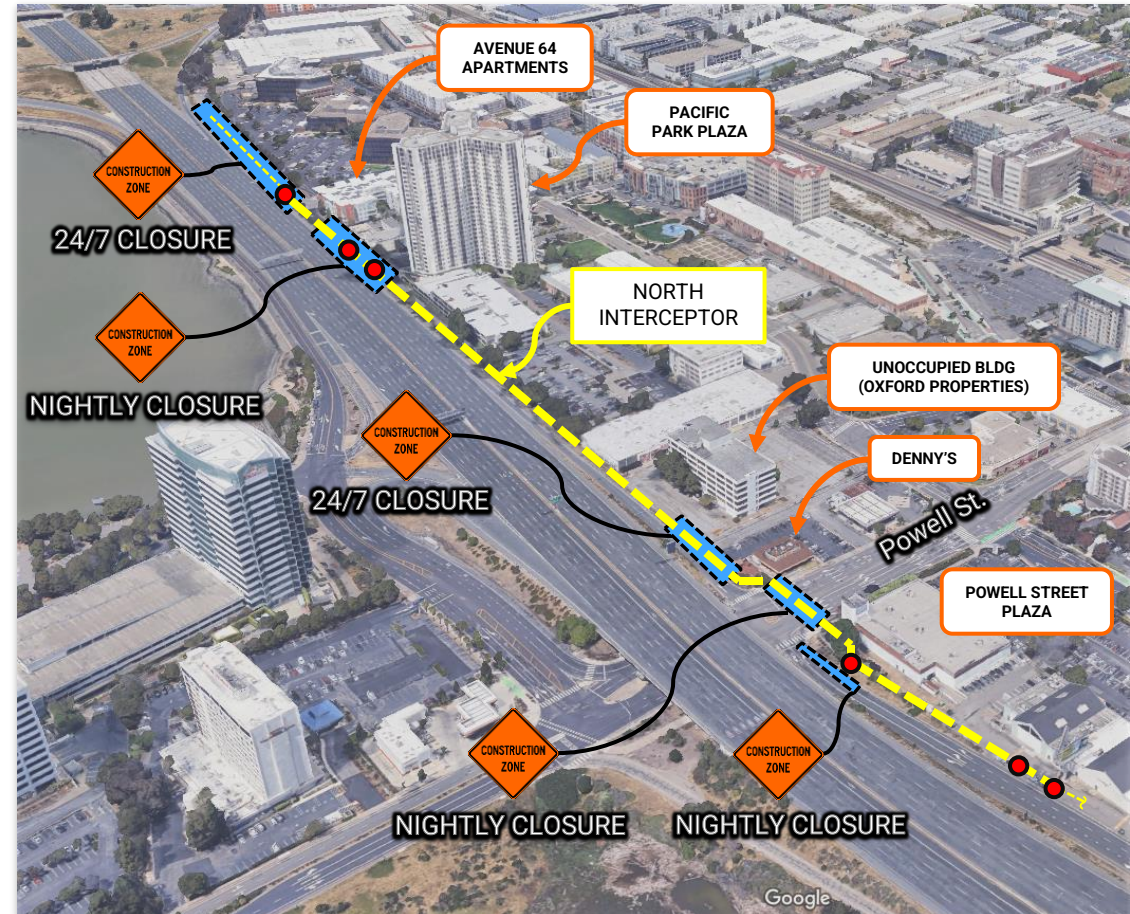
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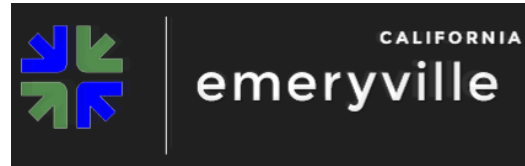
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- Occasional nightly I-80 lane closures
  - Estimated a couple weeks in July - August
- Short term Powell St. lane closures
  - Estimated a few days in May
- Potential nightly off-ramp closure
  - Estimated a few days in May



# Permits & Temp. Construction Easements

## 1 Permits

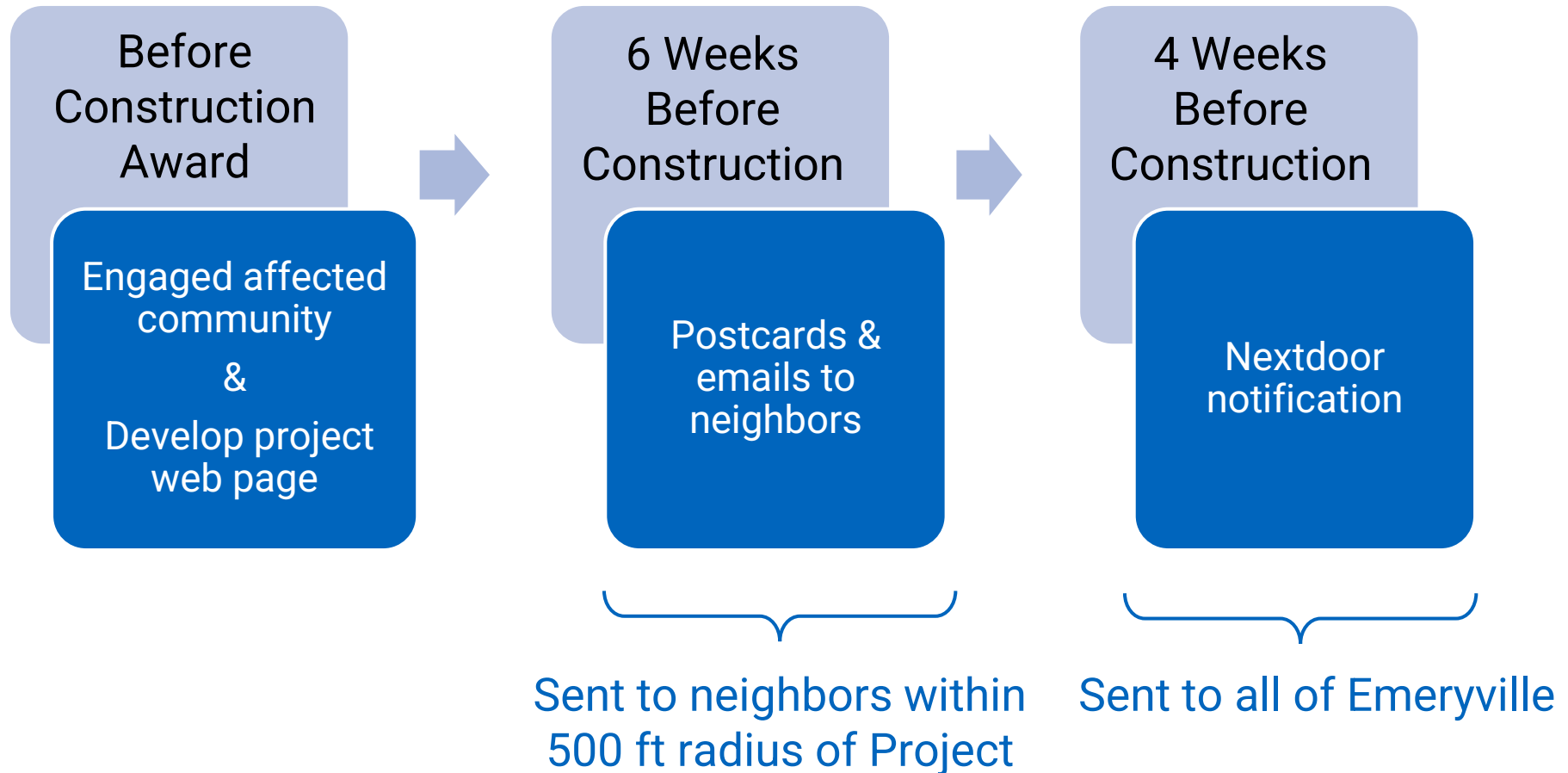


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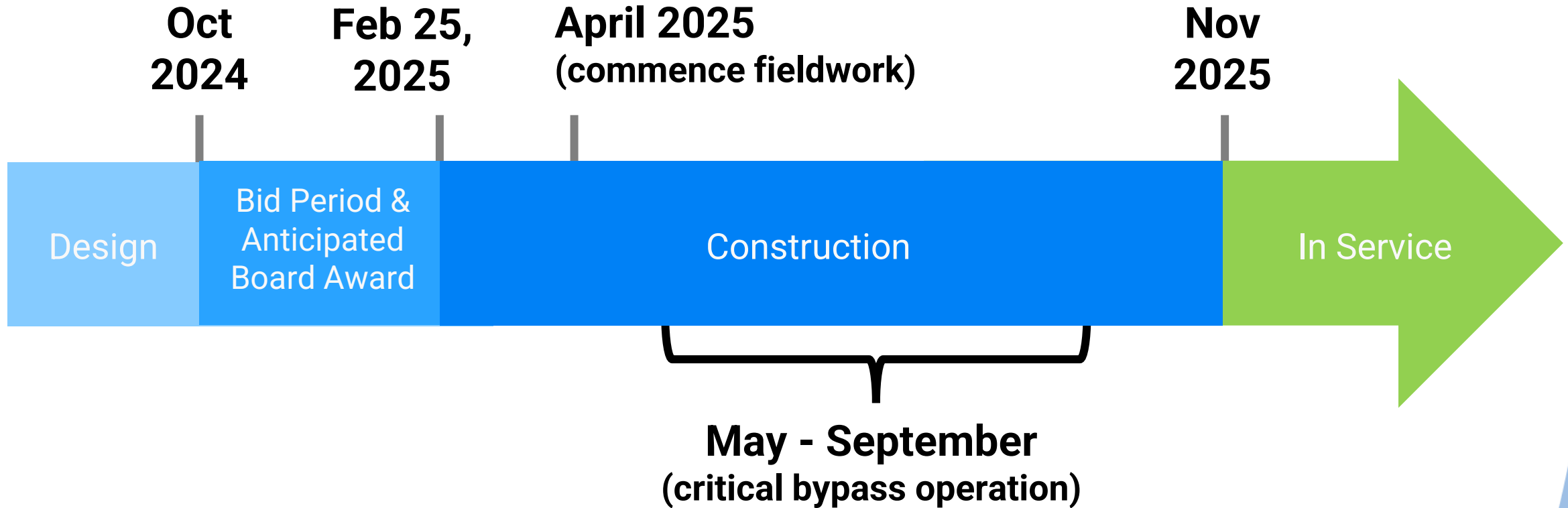
## 2 Construction Easements



# Community Outreach



# Project Timeline





# Questions?





# Mokelumne River Fish Hatchery Operations and Maintenance Agreement

Planning Committee

February 11, 2025

Michelle Workman, Manager of Fisheries & Wildlife

# Agenda

- Historical Context
  - Why does EBMUD own a Hatchery, and why does the State operate it?
  - Agreement History
- Specifics of the Current Agreement
  - Roles and Responsibilities
  - Funding
- Next Steps
  - Authorize the agreement
  - Continue our successful long-term partnership

# History of Camanche Reservoir and Hatchery

- 1956 EBMUD granted Permit 10478 (Camanche Permit)
  - Terms & Conditions included Fisheries Protections
    - Bypass Flows
    - Construction of Hatchery
- 1961 – First Agreement
  - Hatchery must be operable first fall after filling Camanche
  - Amended 6 times
    - Downstream flows
    - Fish trapping/hauling
    - Payment for operations
    - Mitigation obligations
- 1964 (May) – Camanche Completed
  - First salmon at Hatchery October 1964
    - Run size was 362 fish!



Construction of Camanche Dam (top) and installation of generators (bottom)



# History of Agreements

- 1998 – Joint Settlement Agreement
  - Hatchery Upgrade completed 2002
    - Substantially increased raceway capacity
    - Added Ultraviolet light treatment for disinfection
    - Added chillers to manage temperatures
    - New visitor amenities
- 2004 Agreement
  - Needed to better describe the needs of the new facility.
    - Annual reports/Operation Plans
    - defined the hatchery water supply
    - facility operation and maintenance
    - hatchery budget planning process was identified
  - Contained a 20-year term



Aerial Photo of Camanche Dam and Hatchery

# Need for 2025 Agreement with California Department of Fish and Game (CDFW)

- Previous agreement expiring.
- Changing Regulatory Environment
  - New Hazardous Materials Business Plan (HBMP) reporting requirements
  - Air Resources Board Reporting
  - Continued discharge Permit Requirement
  - Total production has doubled
- Changes in Hatchery Production
  - State mandated Marking/tagging rates
  - Production of both mitigation and enhancement fish
- Clarify Responsibilities of each Agency

# Fish Production Goals of the Hatchery

- Mitigation Goals - EBMUD
  - 3.4 million juvenile chinook salmon
  - 250,000 yearling steelhead
- Ocean Enhancement Goals – CDFW
  - 3 million juvenile chinook salmon
- Climate Resilience Goals - CDFW
  - 2-3 million juvenile chinook salmon



Mokelumne River Hatchery Egg Hatching Jars



Spawning chinook salmon



Mokelumne River Hatchery Steelhead

# Key Responsibilities/Terms

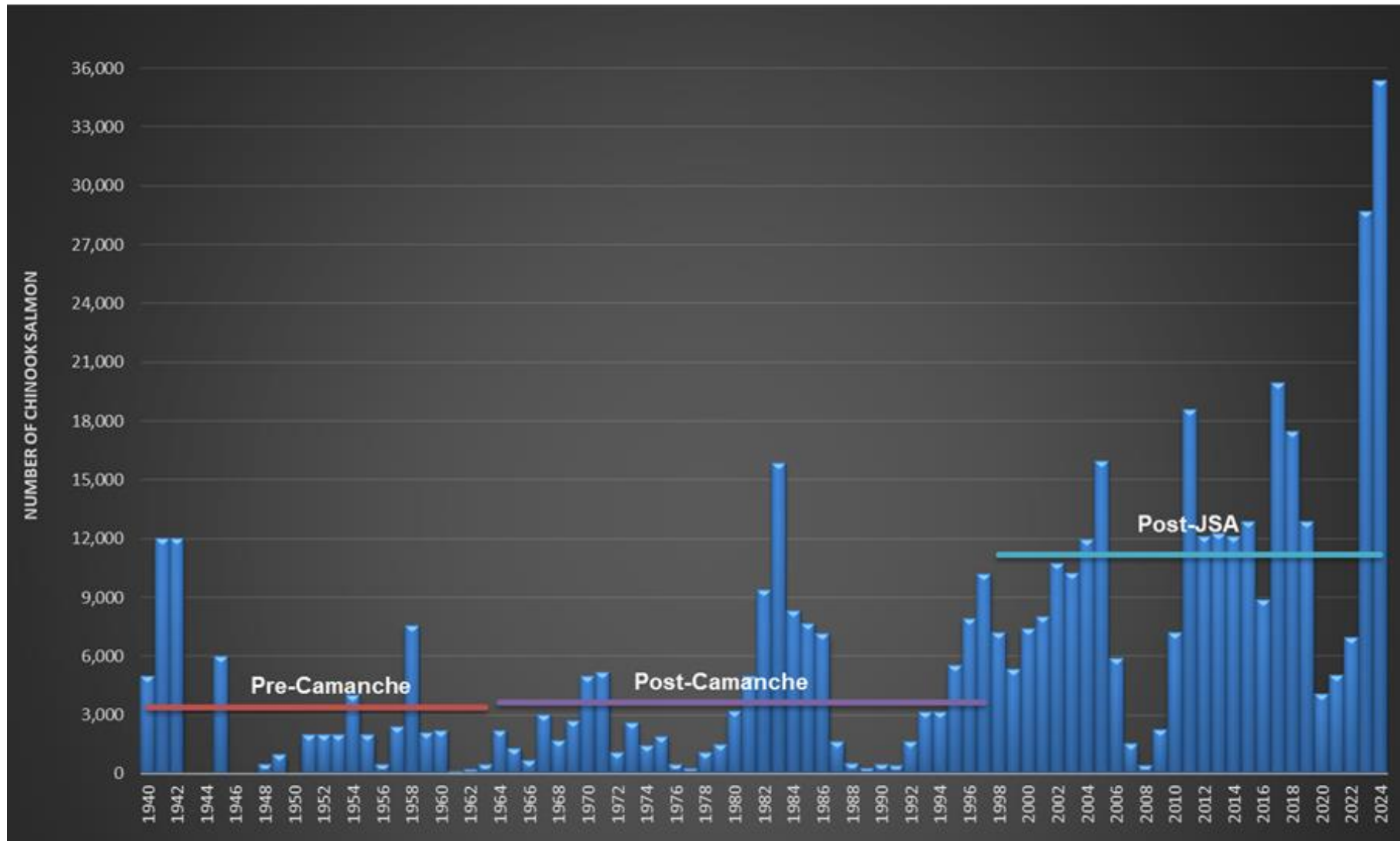
## EBMUD

- Operating and Capital Funding Proportionate with Fish Production Goals – Mitigation only
- Shared Science and Management Decision Making
- Upkeep of 4 residences
- Responsible for Raw Water, Sanitary Sewer and major Electrical

## CDFW

- Funds staff and infrastructure for Enhancement and other State Programs
- Responsible for regular maintenance and upkeep of facility infrastructure (EBMUD pays)
- Annual Reporting to EBMUD
- Provide 24/7 oversight, security of Hatchery in exchange for housing

# Mokelumne River Salmon Monitoring Data



# Next Steps

- February 25, 2025: Board considers the new 20-year agreement
- Start date of May 1, 2025
- Continue Successful Partnership

# Questions?





# Termination of California Shakespeare Theater Operations

Planning Committee

February 11, 2025

Michael Tognolini, Director of Water and Natural Resources

# Cal Shakes Venue

- Theater constructed by Cal Shakes in 1991 on Orinda watershed land leased from District
- Operations ceased in November 2024 due to financial insolvency
- Unable to fulfill lease agreement to return the site to its original natural state
- Site returned to District in January 2025 with substantial structures and facilities
- Cost of removing facilities exceeds \$1M



Bruns Amphitheater

# Remaining Facilities

- Bruns Amphitheater
- Bruns Plaza
- Green Room
- Picnic Groves
- Parking
- Permanent restrooms
- 51,000-gallon fire water tank
- 32,000-gallon potable water tank
- Septic/wastewater tank



Site Plan

# Next Steps

- Solicit feedback from the Planning Committee
- Prepare request for proposals to identify parties able to secure, operate, and maintain facilities
- Update Finance/Administration Committee
- Receive input from community liaisons, including local elected officials
- Negotiate lease with new tenant by summer 2025
- Lease terms will include potential use of the facility by the District for education, meetings, and events



Bruns Amphitheater Entryway



# Questions?