



# Caulfield Bridge Crosstown Connector Update

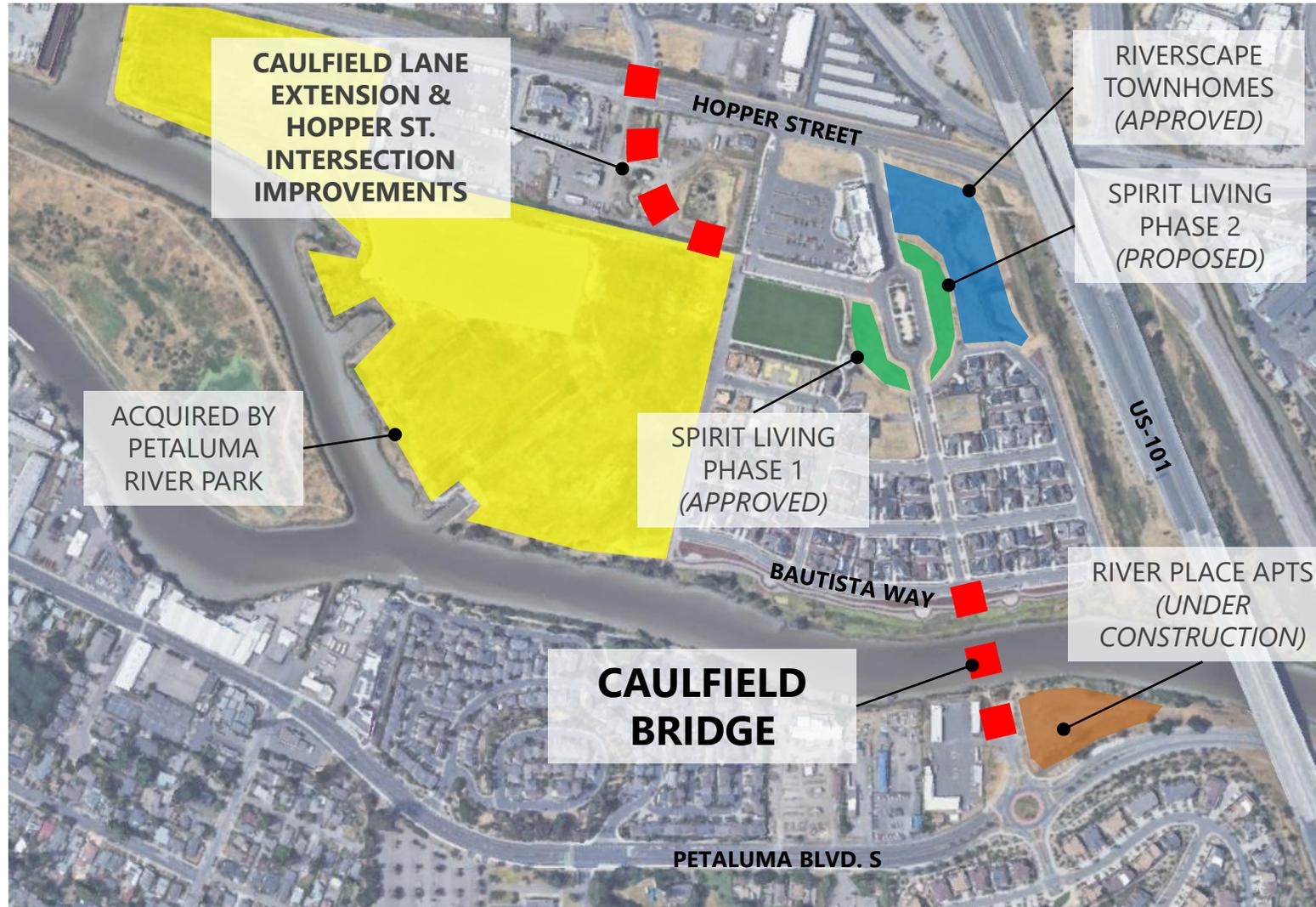
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JUNE 17, 2024

# Overview

- Project Background
- Scope, Schedule, & Budget
- What We've Heard
- Key Topics
  - Circulation & Roadway Improvements
  - Bridge Type & Design
  - Amenities
- Community Engagement Plan





## Background

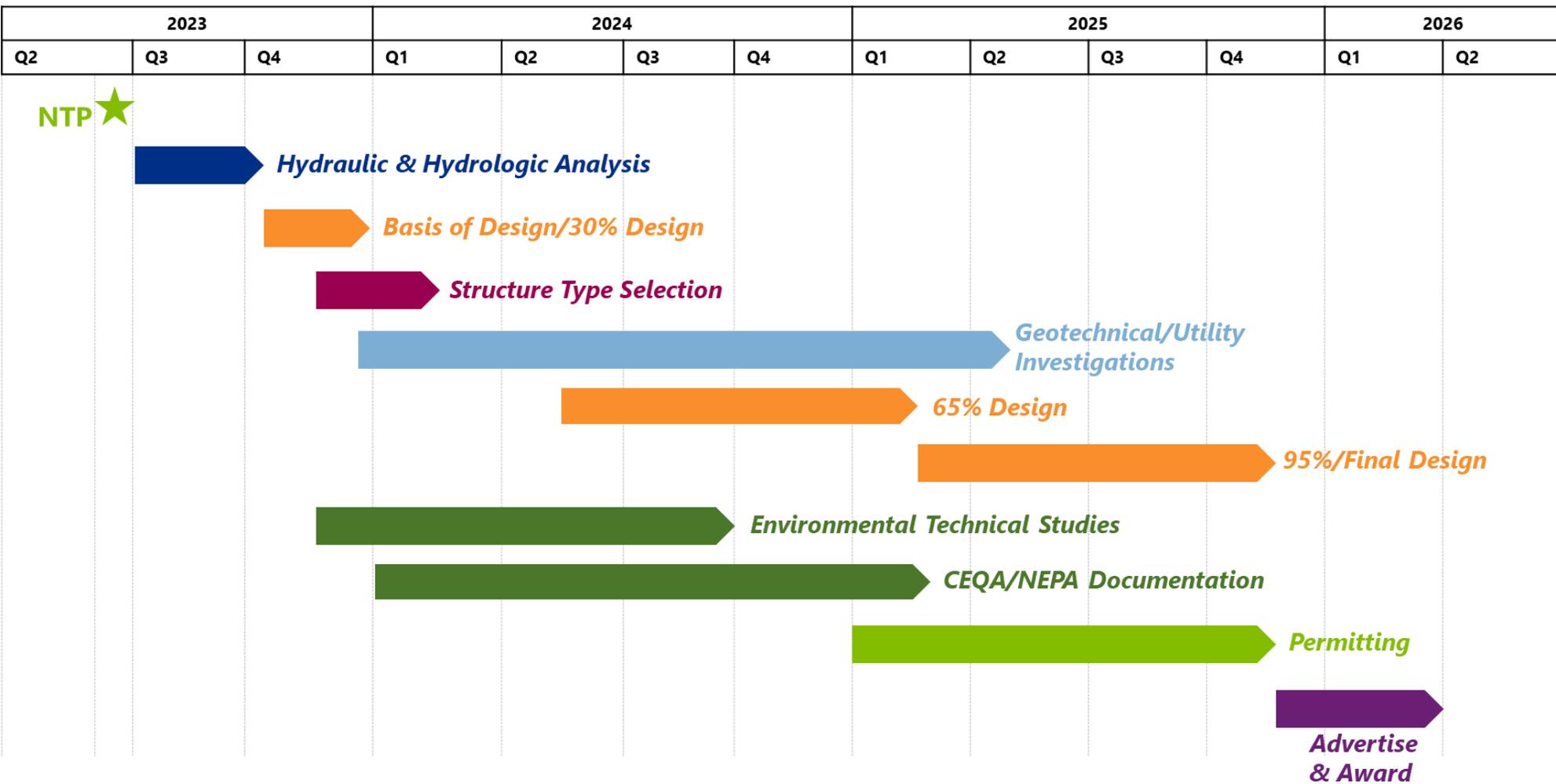
- Identified as preferred “southern crossing” alignment and included in *General Plan 2025 (2008)*
- Eligible for Traffic Impact Fees
- Anticipated in Riverfront Master Plan (2010)



# Background

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- Included in adopted Capital Improvement budgets since FY17/18
- Feasibility study completed 2021
- Crosstown Connector Workshop with City Council in October 2022
- Resolution No. 2023-070 N.C.S.: Proceed with design and permitting



# Scope & Schedule

C16401824

	Actual Life to Date thru FY 23	Estimate FY 23-24	Estimate Life to Date thru FY 24	Budget FY 24-25	Projected Budgets				Total Project Estimate
					FY 25-26	FY 26-27	FY 27-28	FY 28-29	
<b>USES (dollars in \$000)</b>									
Design/ Planning/ Environmental/ Land Administration / Legal	398	3,334	3,732	3,334					7,066
Construction Contracts		10	10	10	15	15			50
Construction Mgmt	18		18		17,028	39,732			56,760
Contingency			-		1,703	3,973			5,694
CIP Overheads	7	57	64	57	5,108	11,920			17,028
<b>TOTAL USES</b>	<b>\$ 423</b>	<b>\$ 3,401</b>	<b>\$ 3,824</b>	<b>\$ 3,401</b>	<b>\$ 24,195</b>	<b>\$ 56,435</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 87,855</b>

**SOURCES (dollars in \$000)**

Traffic Mitigation Impact Fees		2,498	2,498	3,401	24,195	428			30,522
Developer Contributions	1,326		1,326						1,326
Undetermined <sup>A</sup>			-			56,007			56,007
<b>TOTAL FUNDS</b>	<b>\$ 1,326</b>	<b>\$ 2,498</b>	<b>\$ 3,824</b>	<b>\$ 3,401</b>	<b>\$ 24,195</b>	<b>\$ 56,435</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 87,855</b>

<sup>A</sup> Undetermined sources could utilize future Impact fees based on the Impact Fee Nexus study. Other sources such as future grants, fed/state programs or donations could also be utilized. As funding becomes available and is sufficient to cover project cost, funding Sources will be updated and identified.

# Current Cost Estimates & Proposed FY24/25 Budget



CONCERNS ABOUT  
INCREASED TRAFFIC &  
SPEEDING IN RIVERFRONT  
NEIGHBORHOOD



CONCERNS ABOUT VISUAL  
IMPACTS IN RIVERFRONT  
NEIGHBORHOOD



COORDINATE BRIDGE  
OPERATIONS



INCORPORATE ART



INCORPORATE RIVER  
ACCESS



PROVIDE WIDE MULTI-USE  
PATHWAYS SEPARATED  
FROM TRAFFIC



PROVIDE CLEAR  
SIGHTLINES & LIGHTING  
ON & UNDER BRIDGE



PREFERENCE FOR RUSTIC  
AESTHETIC SIMILAR TO D  
STREET



MINIMIZE & MITIGATE  
ENVIRONMENTAL IMPACTS

# What We've Heard



# Circulation & Roadway Improvements

Circulation &  
Roadway  
Improvements  
Initial  
Findings

Traffic model forecasts growth to 2040, including pending projects and *General Plan 2025* buildout estimates

Project will reduce citywide vehicle miles traveled

Most significant reduction in traffic expected on D Street drawbridge

No adverse impact to Level of Service except at Lakeville Hwy./Caulfield Ln.

Emergency response times reduced by up to 50%

New crosstown transit service planned



# Circulation & Roadway Improvements

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- 1) Modify Caulfield Ln./Lakeville Hwy. intersection
- 2) Install detection on Caulfield Lane north of SMART tracks to ensure cars don't queue onto tracks
- 3) Install signal or roundabout at Caulfield Ln./Hopper St. intersection (subject to California Public Utilities Commission approval)
- 4) Construct Caulfield Ln. extension



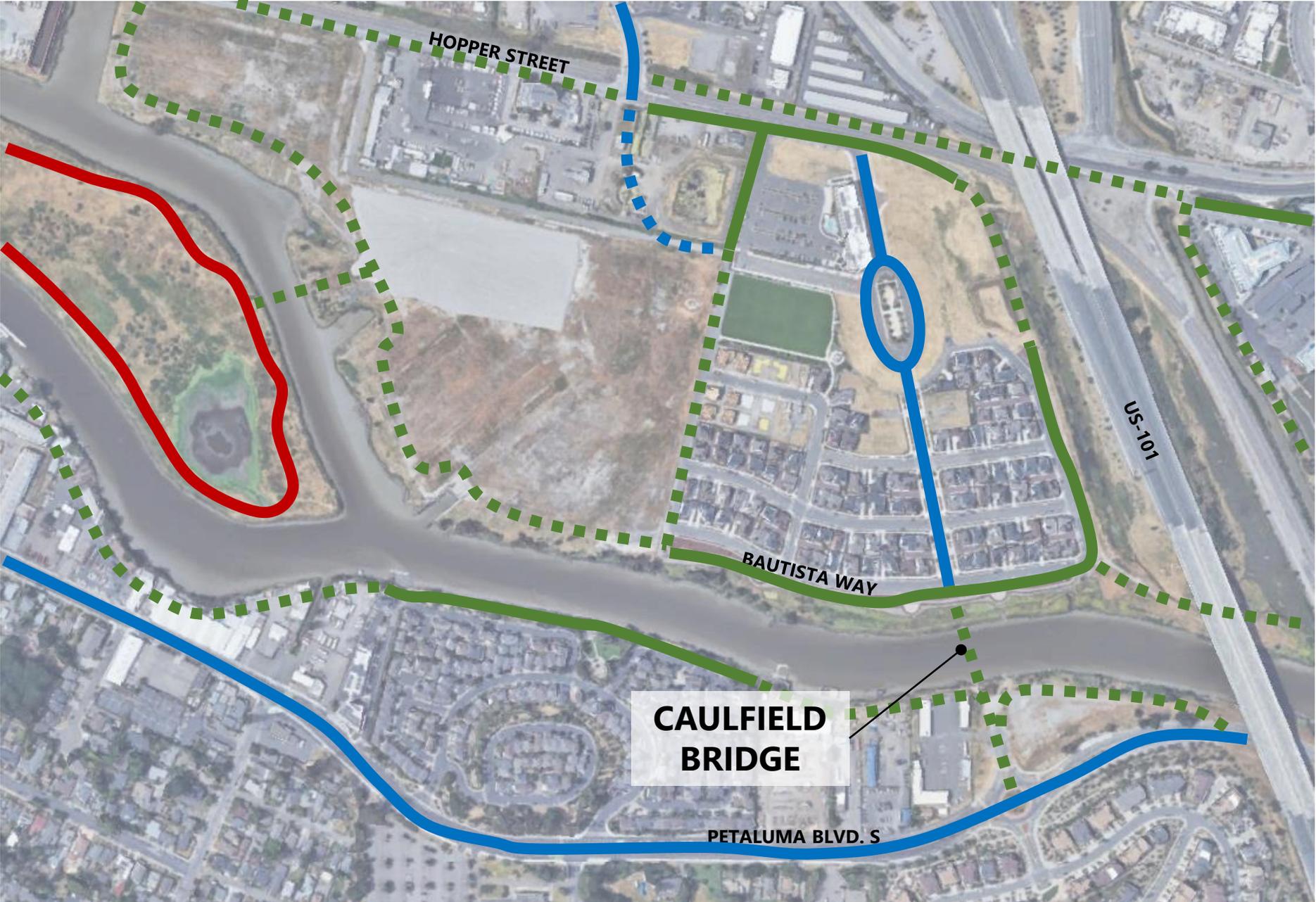
## Circulation & Roadway Improvements

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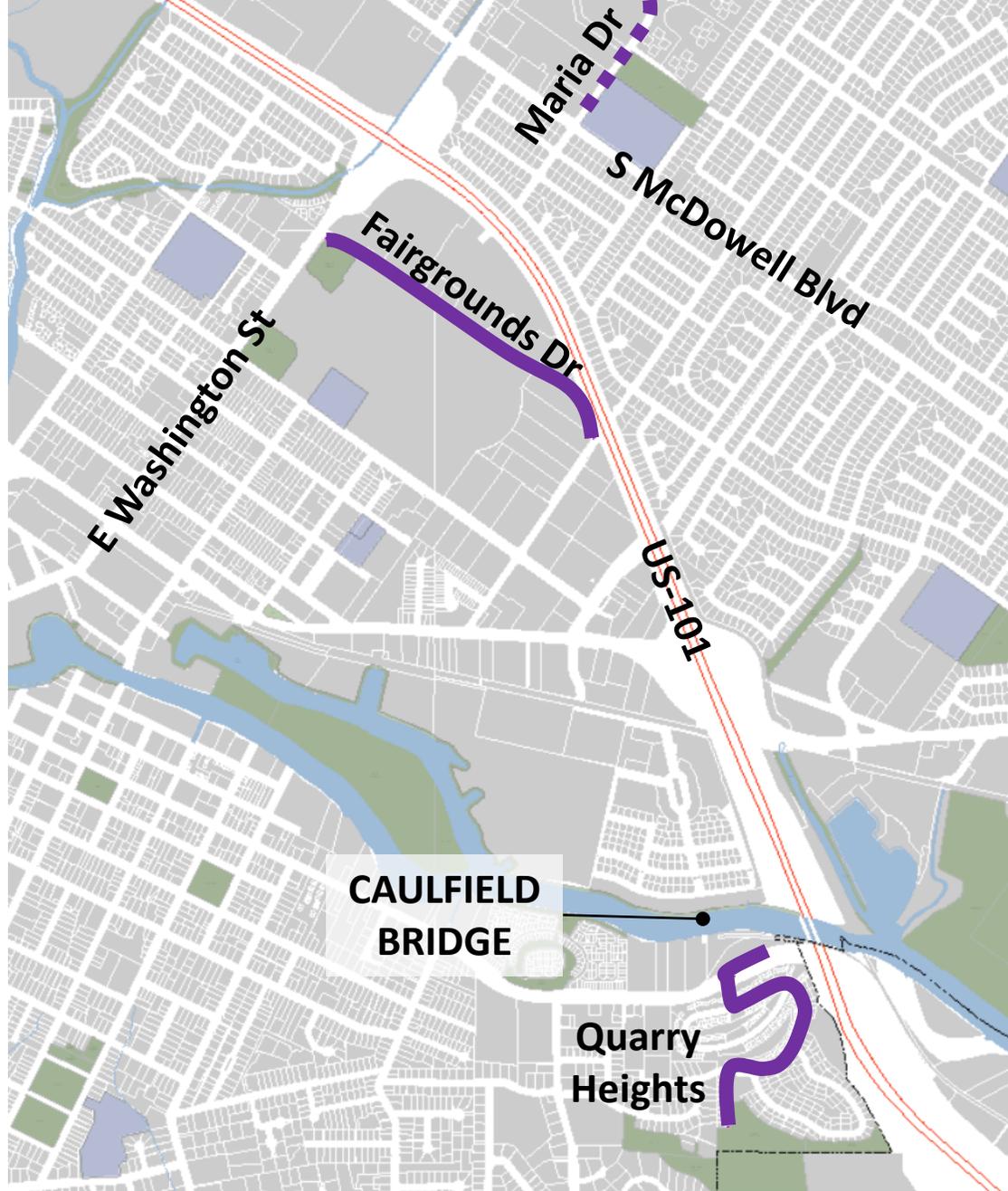
- 5) Explore improvements to Central Green
- 6) Analyze intersection operations for Riverfront neighborhood streets
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- 7) Coordinate with Petaluma River Place to ensure compatibility with roadway improvements

# ACTIVE TRANSPORTATION CONNECTIONS

- EXISTING/  
PROPOSED MULTI-  
USE TRAIL (PAVED)
- EXISTING/  
PROPOSED BIKE  
LANES (CLASS  
II/IIB/IV)
- EXISTING MULTI-  
USE TRAIL  
(UNPAVED)



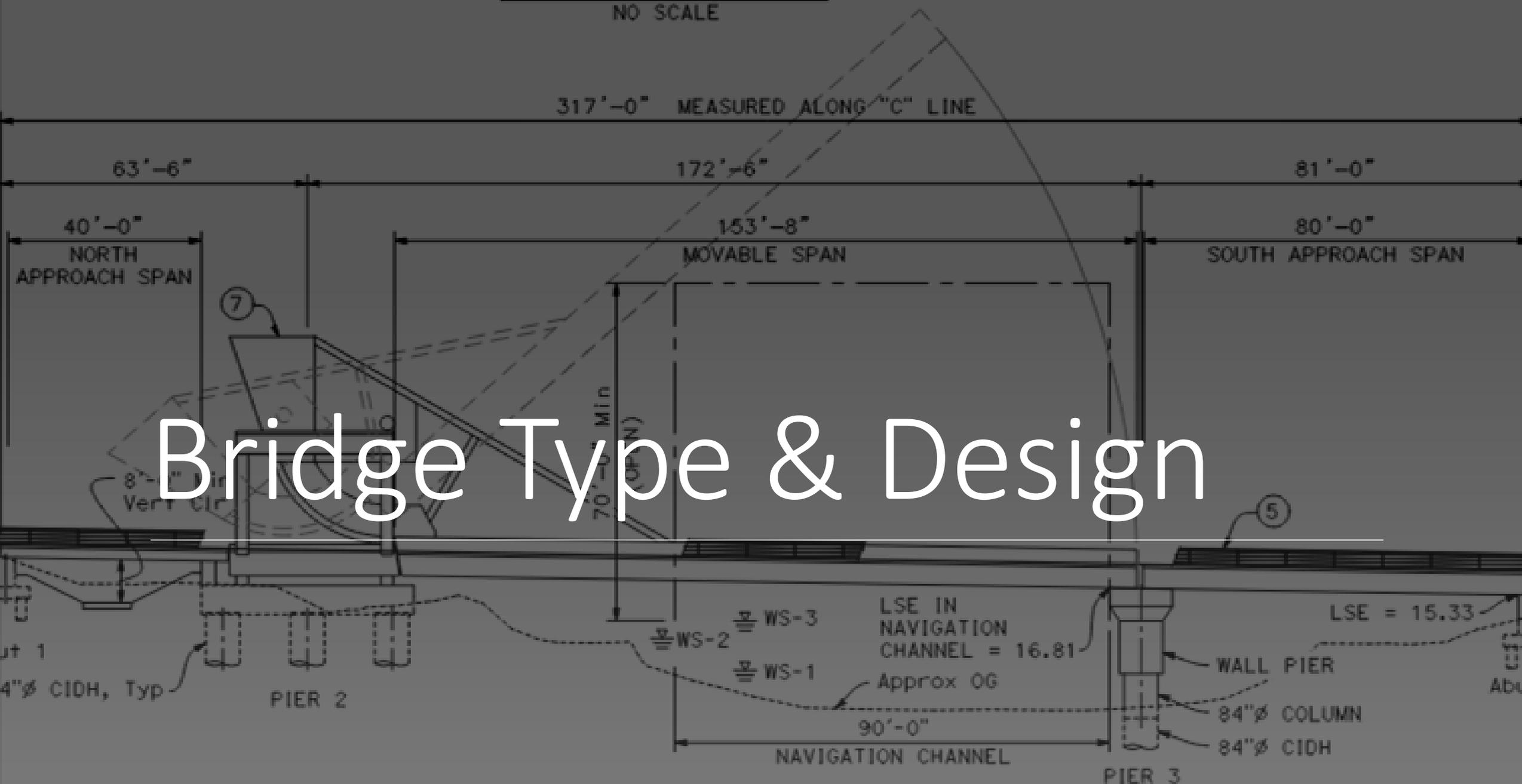
- Existing inactive recycled water mains
- Recycled water main under construction (to be activated upon completion)



# Recycled Water

- Exploring potential to include recycled water connection under river leveraging bridge construction
- Would connect existing inactive mains at Fairgrounds Drive and Quarry Heights

NO SCALE



# Bridge Type & Design

# Bridge Type & Design Design Criteria

Provide 90 foot horizontal and 70 foot vertical clearances for navigable waterway (US Coast Guard requirement)

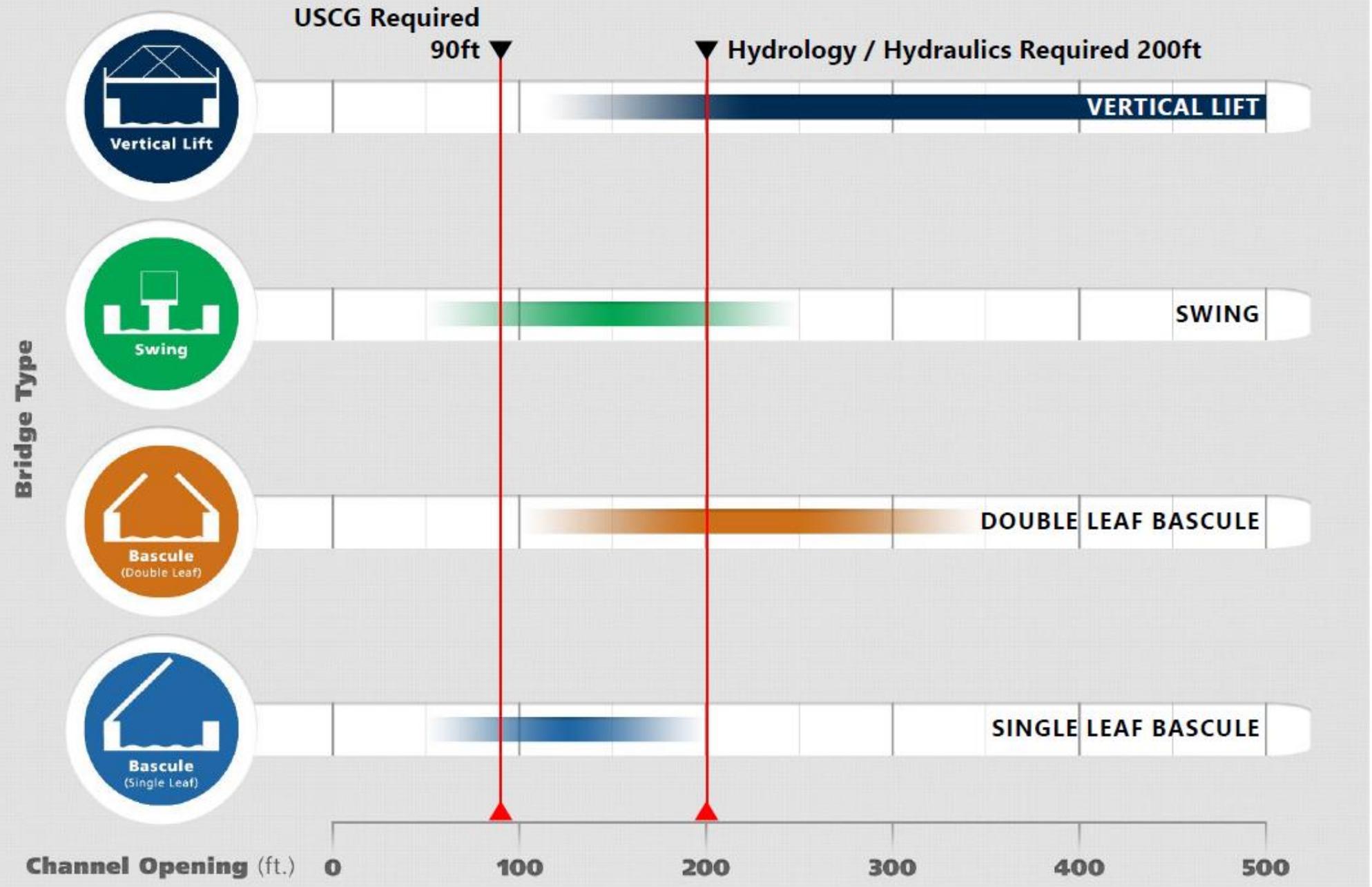
Minimize impacts on water surface elevation/flooding

Ensure traffic queue does not block Petaluma Blvd. S/Crystal Lane roundabout when bridge is open

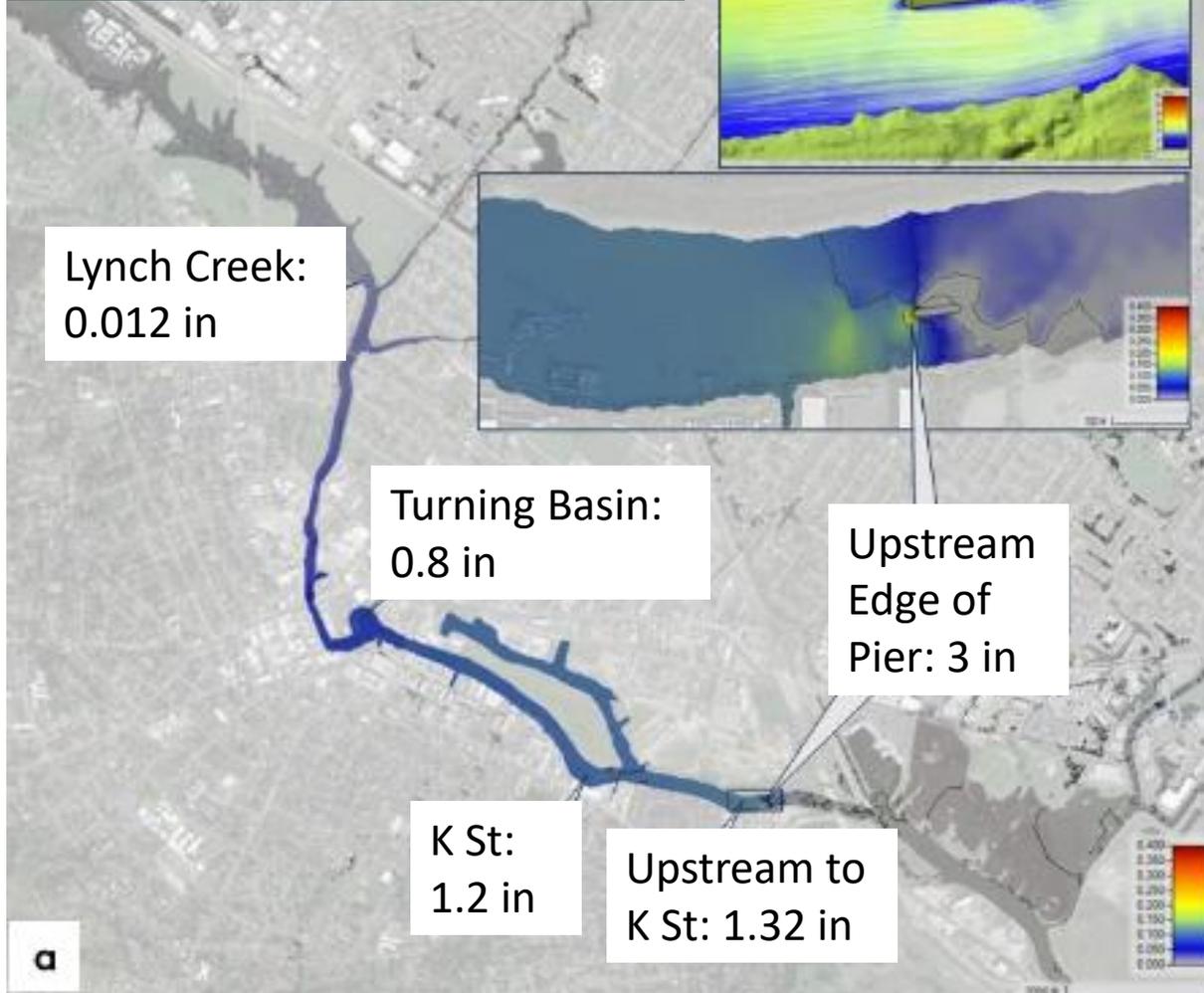
Provide undercrossing for River Trail along north bank

Identify most cost-effective moveable bridge type that meets above criteria

# OPTIMAL BRIDGE TYPE BY CHANNEL WIDTH

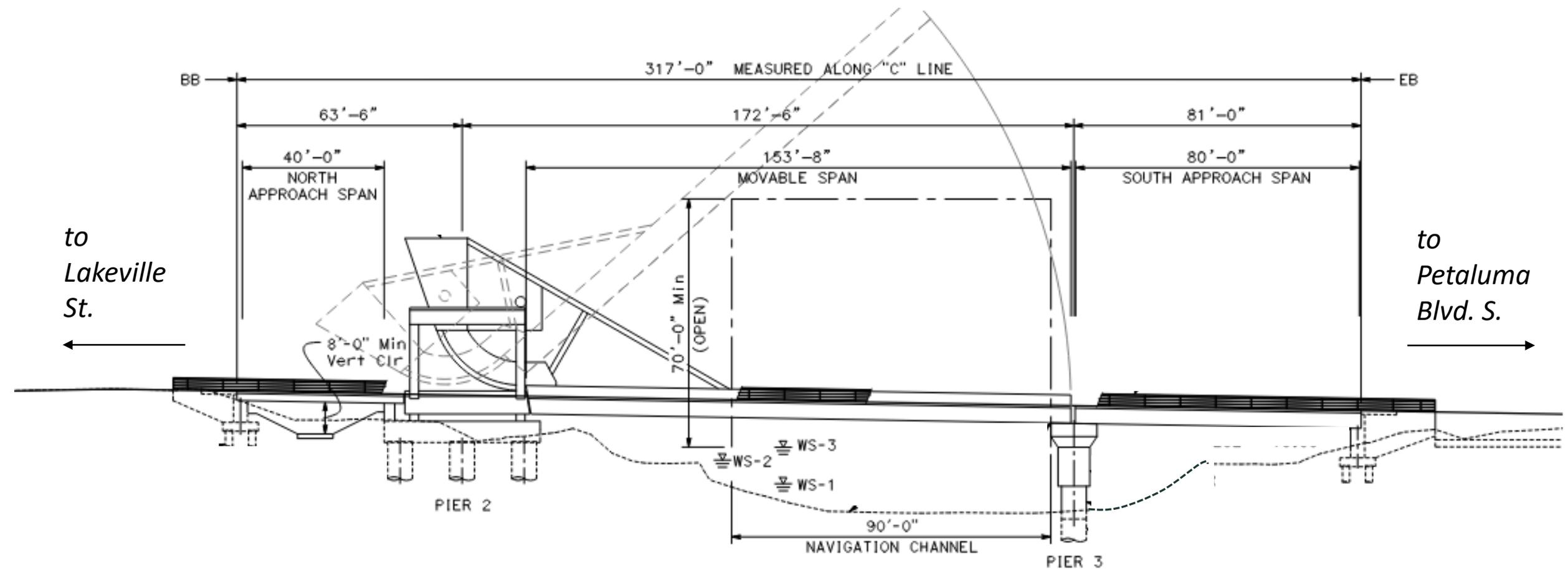


# UPSTREAM WATER SURFACE INCREASE RELATED TO PIER

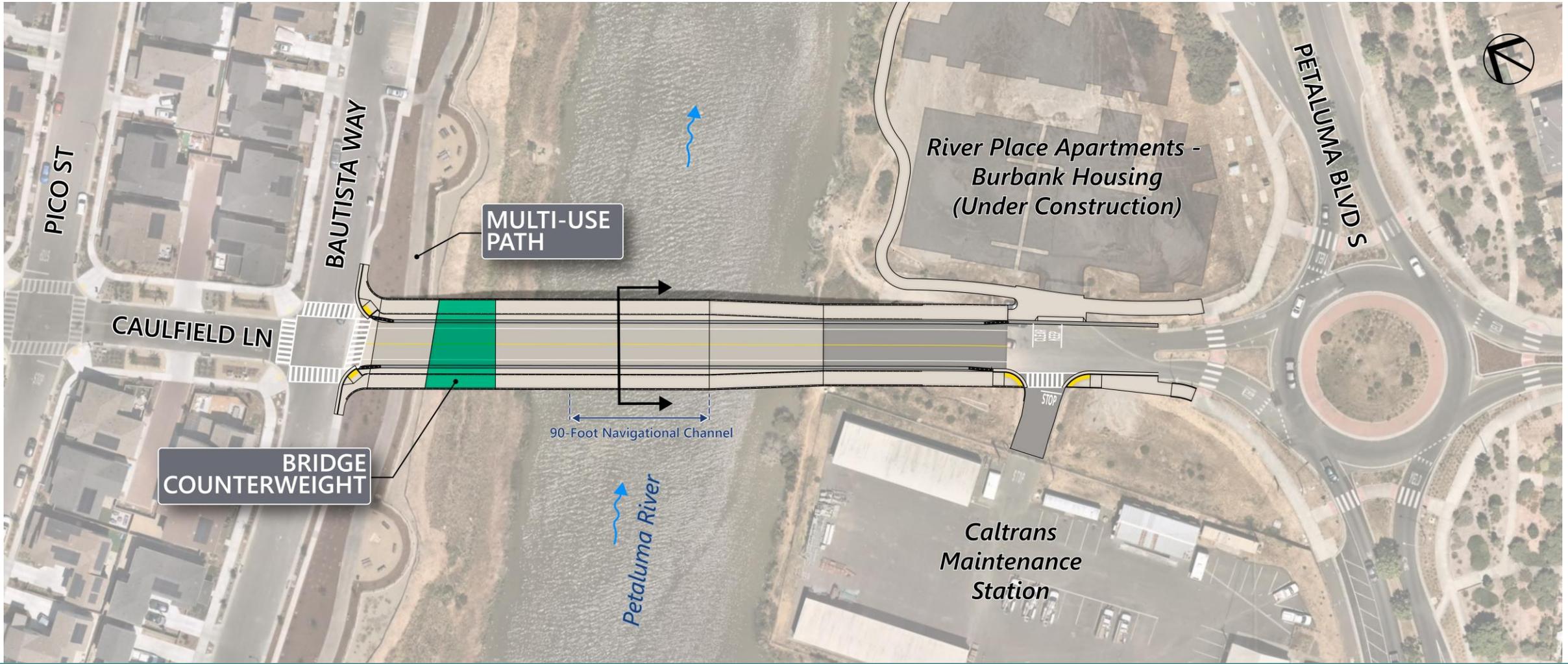


## Hydraulic Modeling

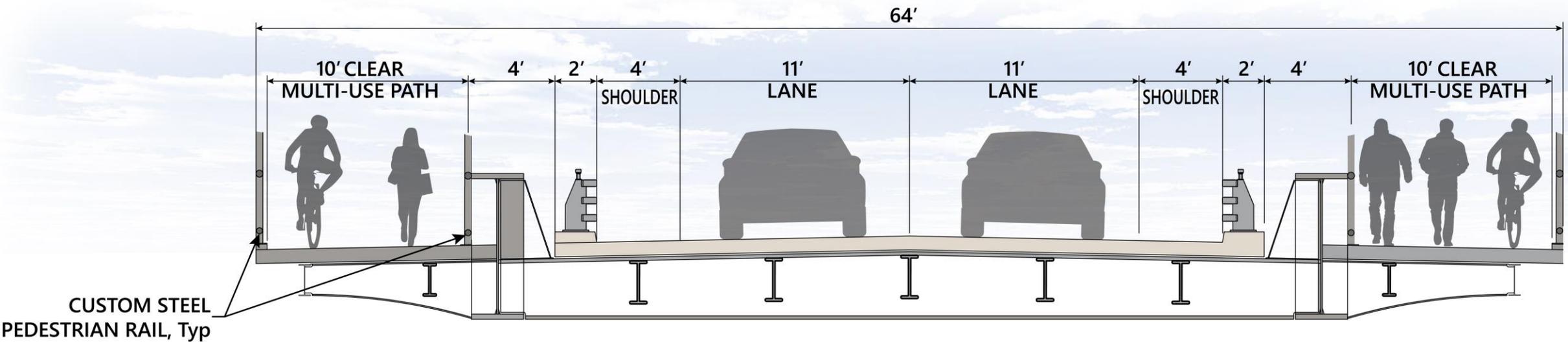
- Optimized pier orientation, shape, and footprint
- Minimal upstream impacts related to addition of pier
- Evaluating using end-of-century flood model with sea level rise (6.9 feet)



Bridge Elevation (facing south on river)



# Bridge Layout



**MOVABLE BRIDGE CROSS SECTION**

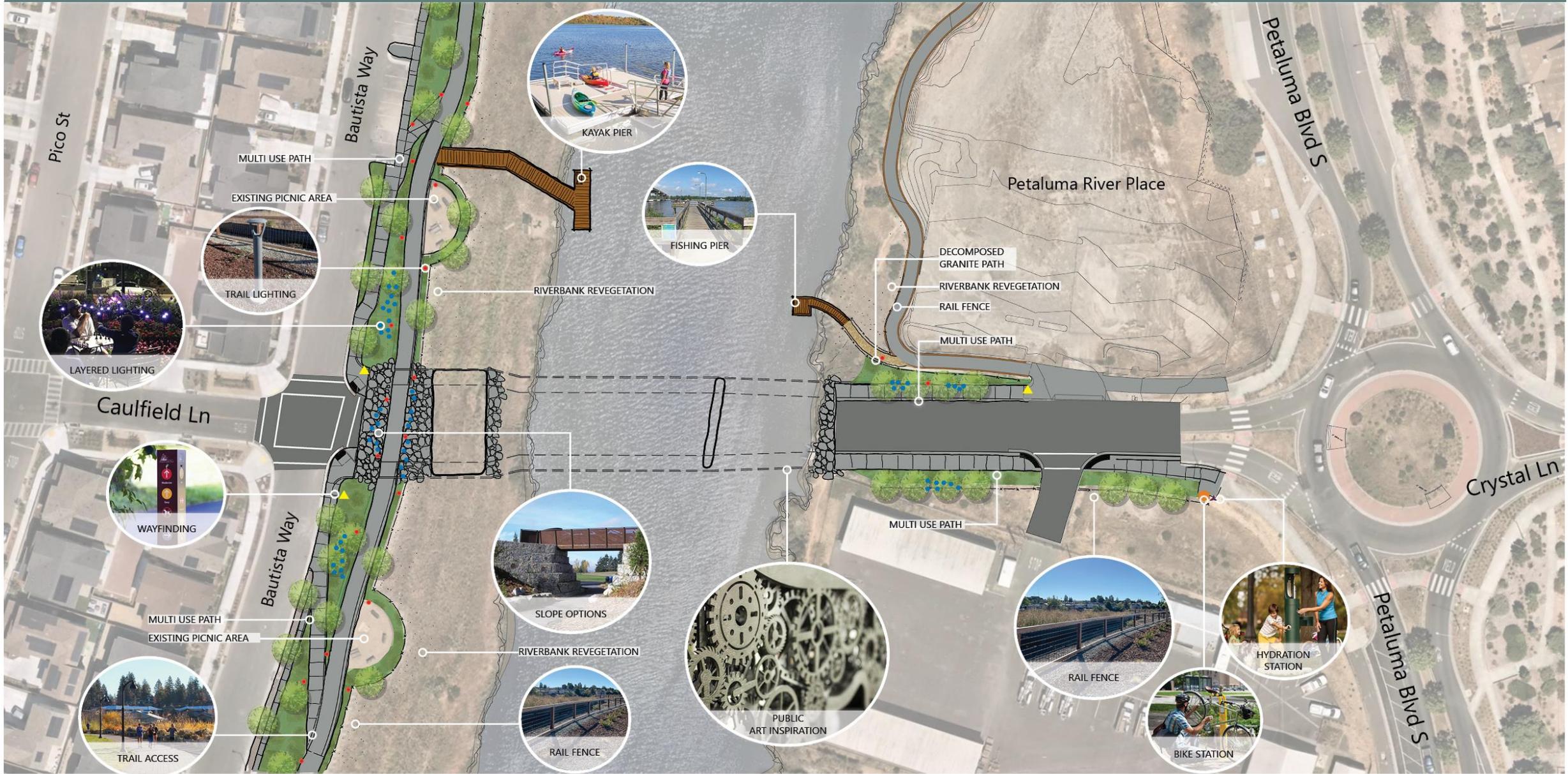
Bridge Layout

# Amenities

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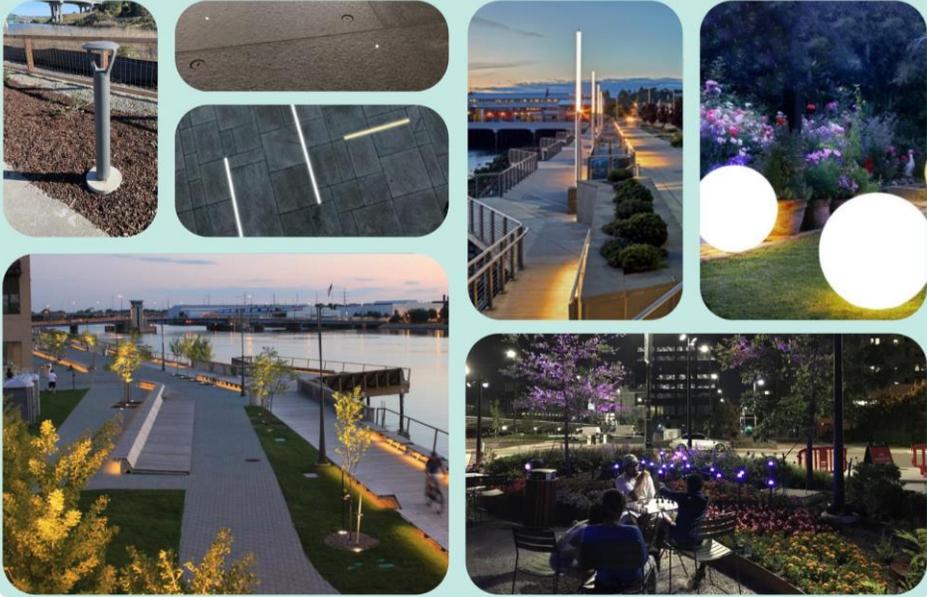


# POTENTIAL AMENITIES & DESIGN ELEMENTS



# INSPIRATIONAL IMAGES

## LANDSCAPE LIGHTING OPTIONS



## BRIDGE SLOPE OPTIONS



## LANDSCAPE PLANTING FEATURES



## PEDESTRIAN/BIKE AMENITIES



## RAIL FENCE OPTIONS



## WAYFINDING AND SIGNAGE

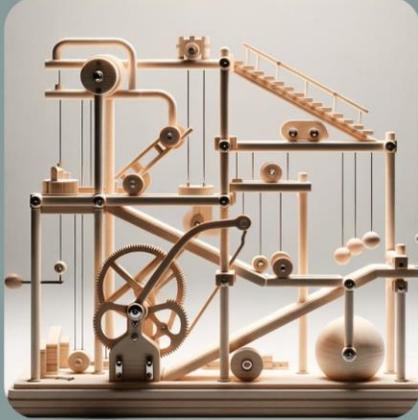


## ACTIVITY OPTIONS



# INSPIRATIONAL IMAGES

PUBLIC ART INSPIRATION



BRIDGE LIGHTING OPTIONS



BRIDGE COLOR OPTIONS



A photograph of a community meeting with people gathered around a table. The text 'Community Engagement Plan' is overlaid in white on a dark background. The background shows a woman in a green shirt talking to a woman in a grey jacket at a table with papers and pens. Other people are visible in the background.

# Community Engagement Plan

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# Community Engagement Plan

## Design Development

- **October 2023:** Community Open House & Survey
- **March 2024:** Pedestrian & Bicycle Advisory Committee
- **May 2024:** Riverfront Neighborhood Meeting
- **June 2024:** City Council Update
- **July 2024:** Public Comment Notice to Mariners (by US Coast Guard)

## Environmental Review

- **Fall 2024:** Draft Environmental Document released for public comment
- **Spring 2025:** Adoption and Certification of Final Environmental Document

## Design Refinement

- **Fall 2024:** Community Open House & Survey for first round of bridge renderings and proposed circulation improvements and amenities
- **Winter 2024/25:** City Council Workshop for second round of bridge renderings and proposed circulation improvements and amenities

# Questions?

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