

Bay Bridge Pump Station Replacement, Project No. 5-67

Presented by Mike Dorman,
Director of Engineering

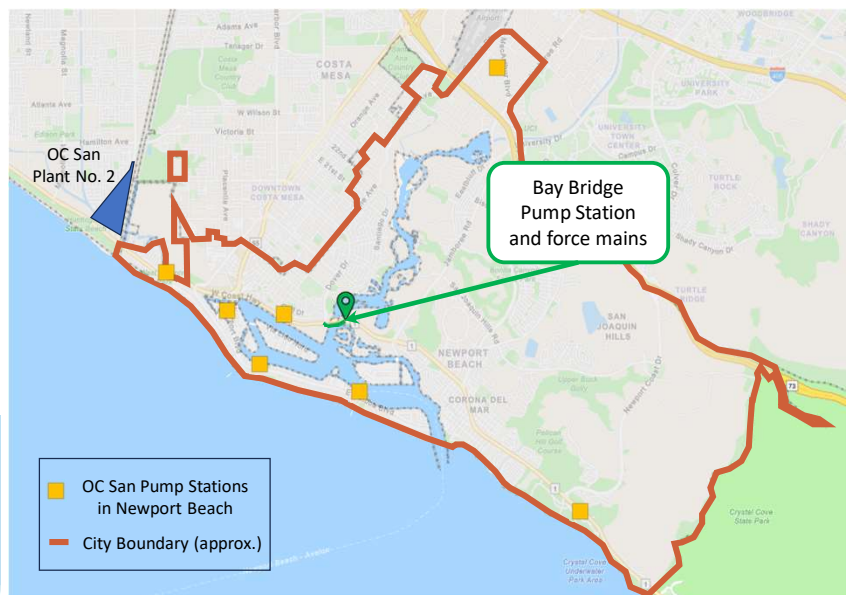
Construction Contract Award

Steering Committee
February 26, 2025



1

Project Location: City of Newport Beach



2

2

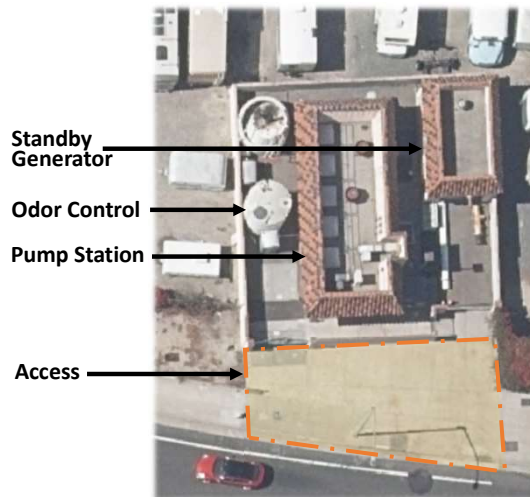
Project Overview



3

Bay Bridge Pump Station

- Constructed in 1966
- Average flow: 4 million gallons per day
- Peak flow: 18 million gallons per day
- Handles 50% of the City's flow



The Bay Bridge Pump Station and force mains are critical to ensure the continuous collection, treatment, and recycling of the wastewater flow from the City of Newport Beach.

4

Reasons for Project

- Moderate to severe concrete corrosion
- Aging equipment
- Space constraints
- Access from East Coast Hwy poses safety concerns



2021 Emergency Repairs



Mechanical Equipment at End of Life

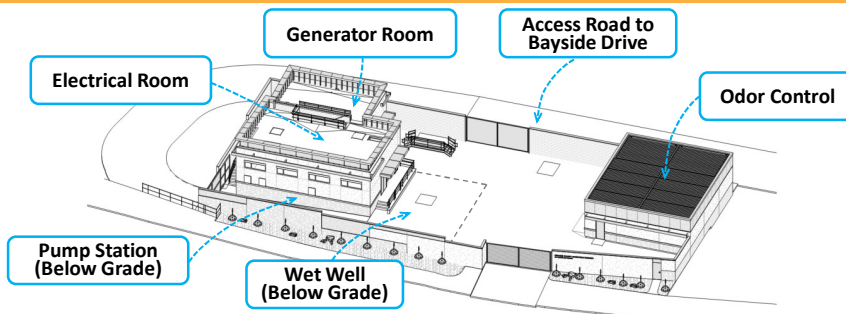


Electrical Equipment at End of Life

5

5

New Pump Station Design

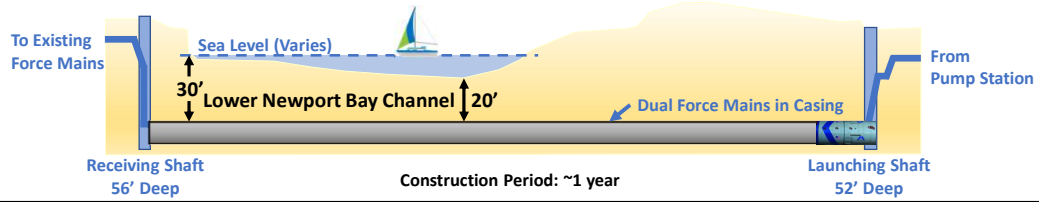
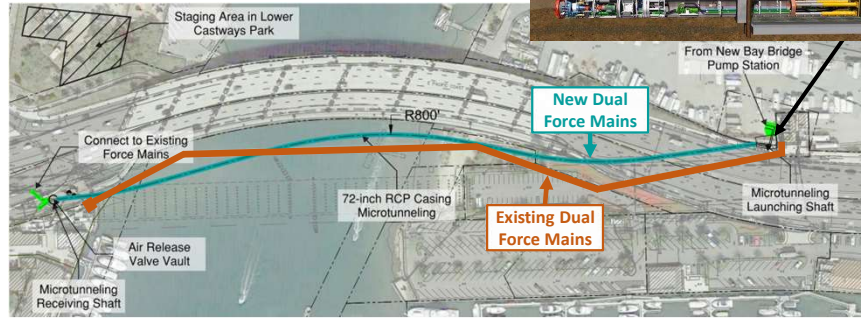


6

6

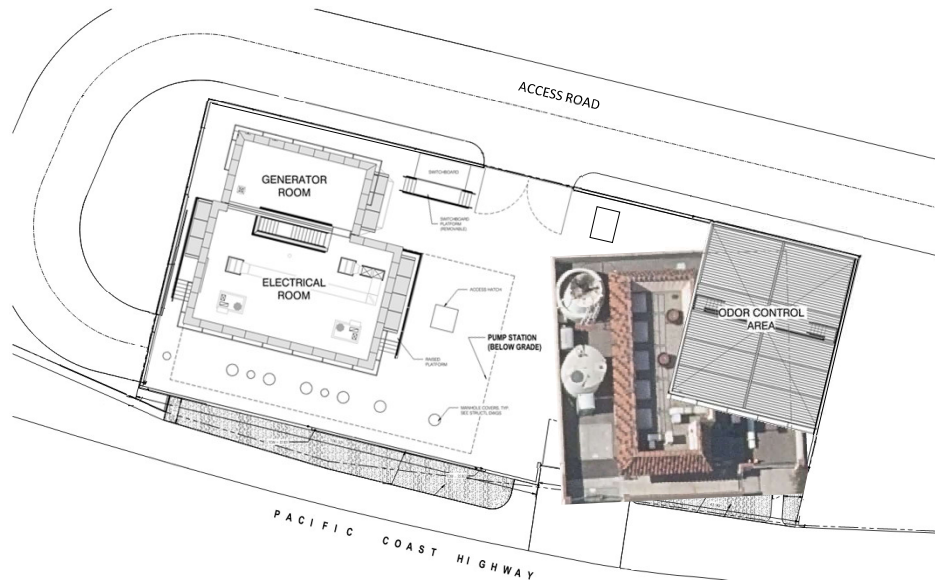
Microtunneling Section

Microtunneling is a trenchless construction method used to install pipelines beneath waterways.



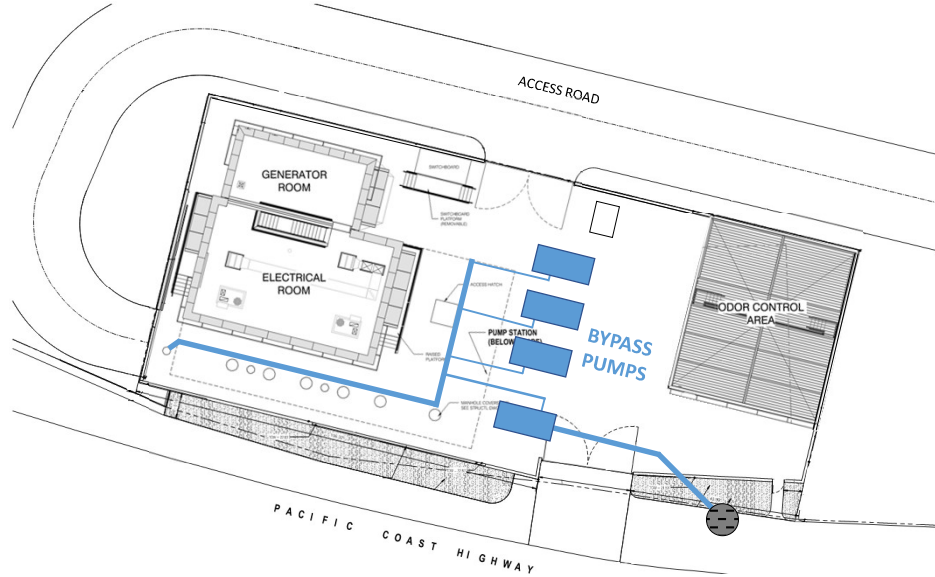
7

Pump Station Site



8

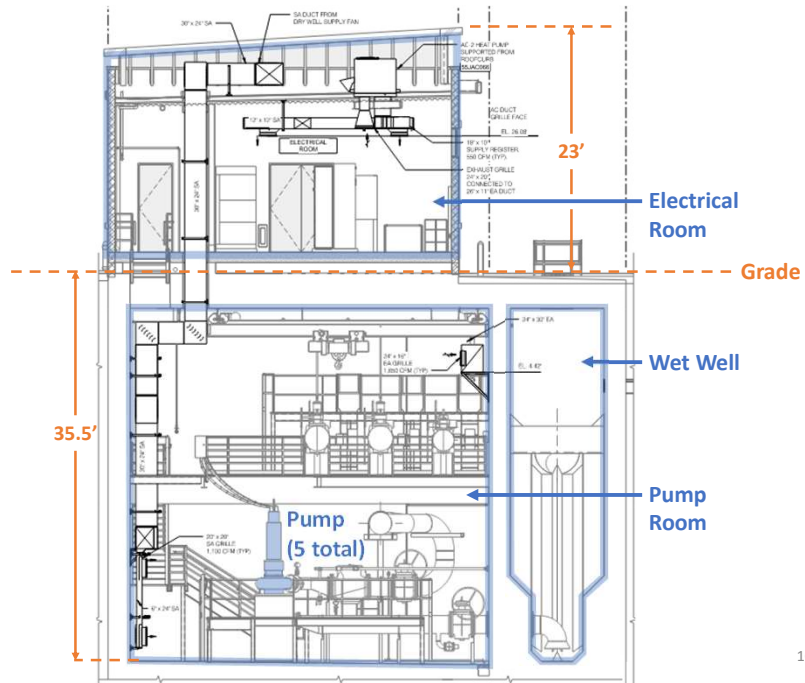
Pump Station Site



9

9

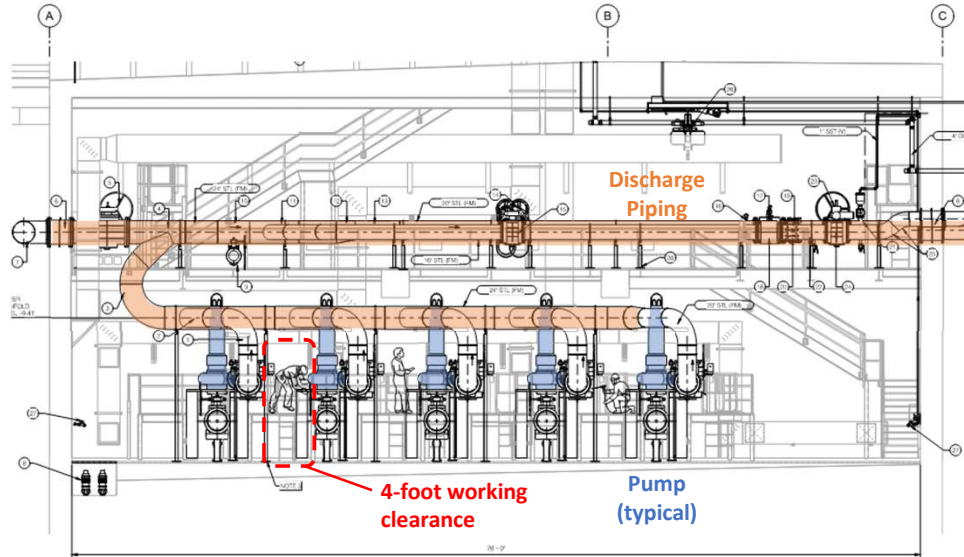
Pump Station Section



10

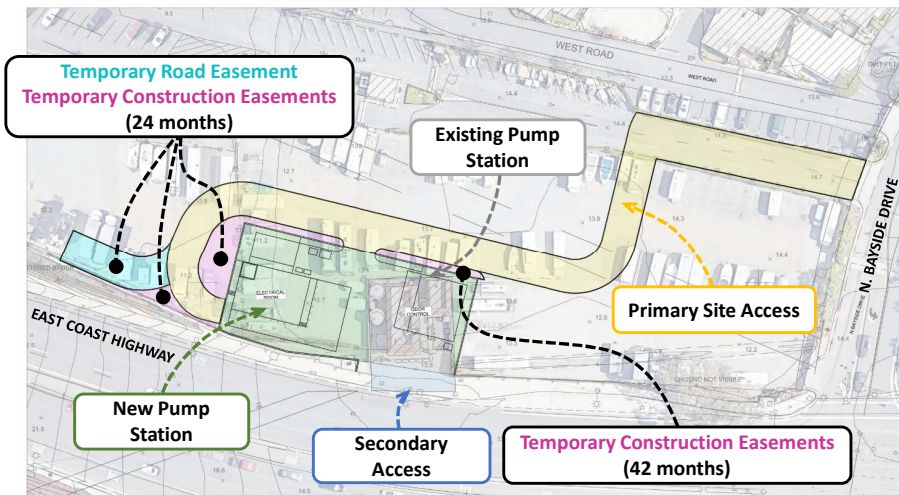
10

Pump Station Section



11

Construction Access



12

Recommendation

Recommend to the Board of Directors to:

- A. Approve a project budget increase of \$26,000,000 for Bay Bridge Pump Station Replacement, Project No. 5-67, for a new total budget of \$172,000,000;
- B. Receive and file Bid Tabulation and Recommendation for Bay Bridge Pump Station Replacement, Project No. 5-67;
- C. Award a Construction Contract Agreement to J.F. Shea Construction, Inc. for Bay Bridge Pump Station Replacement, Project No. 5-67, for a total amount not to exceed \$87,321,000; and
- D. Approve a contingency of \$8,732,100 (10%).

15

15

Questions?

16

16