



Engineering & Operations Committee

Weymouth Basins Nos. 5-8 and Filter Building No. 2 Rehabilitation

Item #7-5

May 10, 2022

Weymouth Basins Nos. 5-8 and Filter Building No. 2 Rehabilitation

Current Action

- Review and consider Addendum No. 1 to the certified 2015 Final Environmental Impact Report for the Weymouth Plant Improvements
- Award a \$93,840,000 contract to J. F. Shea Construction, Inc. to rehabilitate Basins Nos. 5-8 and Filter Building No. 2
- Authorize an agreement with Carollo Engineers, Inc. for a not-to-exceed amount of \$495,000

Distribution System

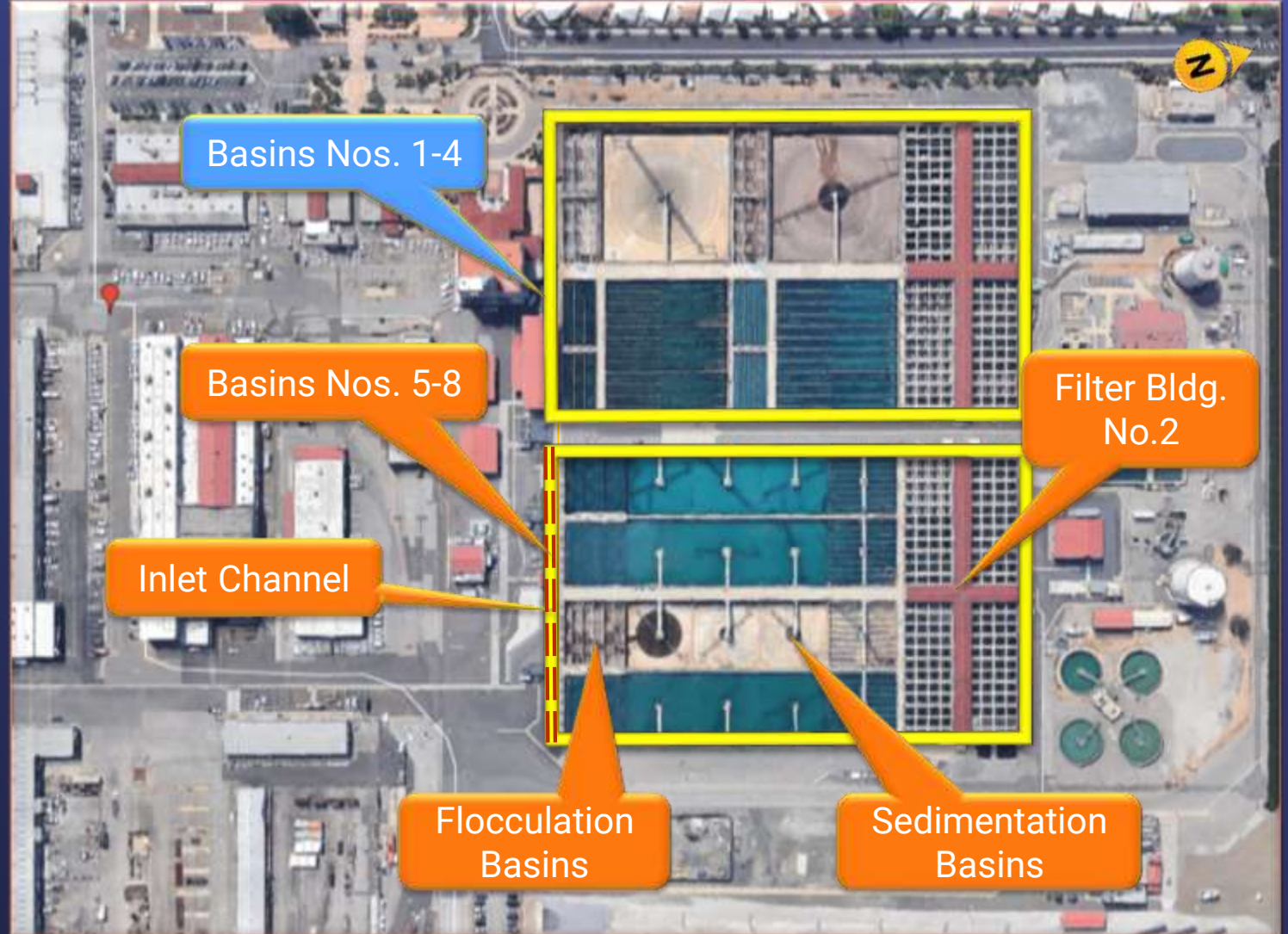


Weymouth Basins Nos. 5-8 and Filter Building No. 2 Rehabilitation



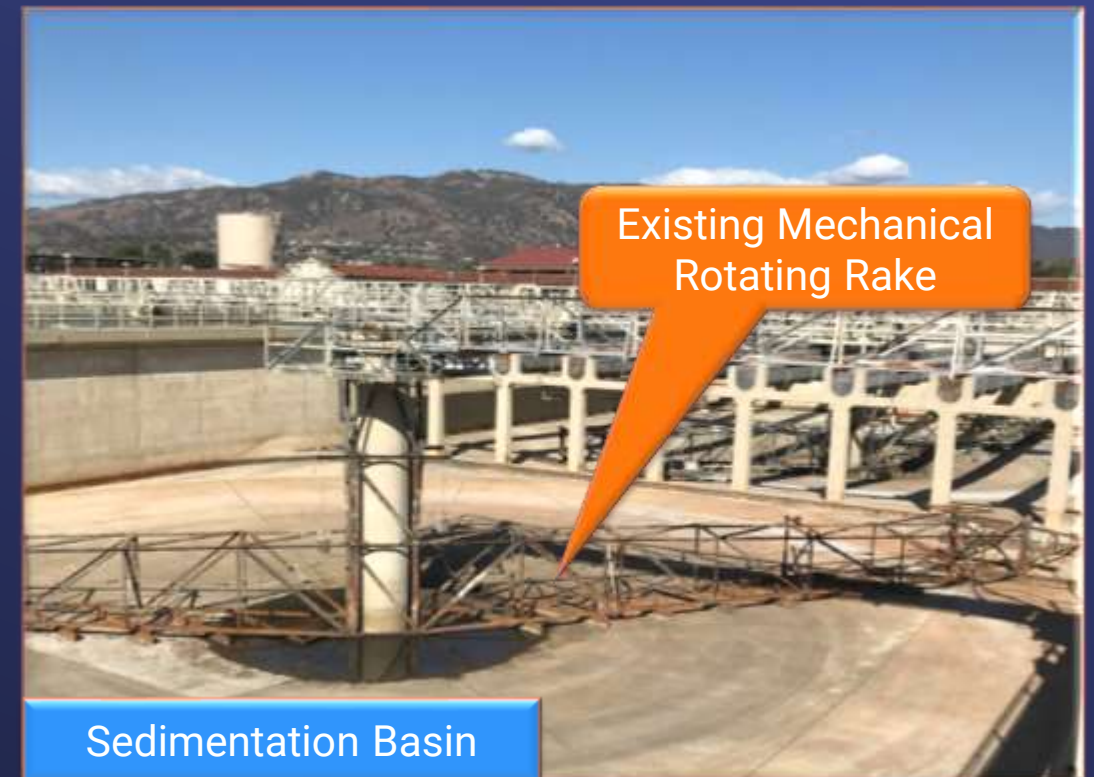
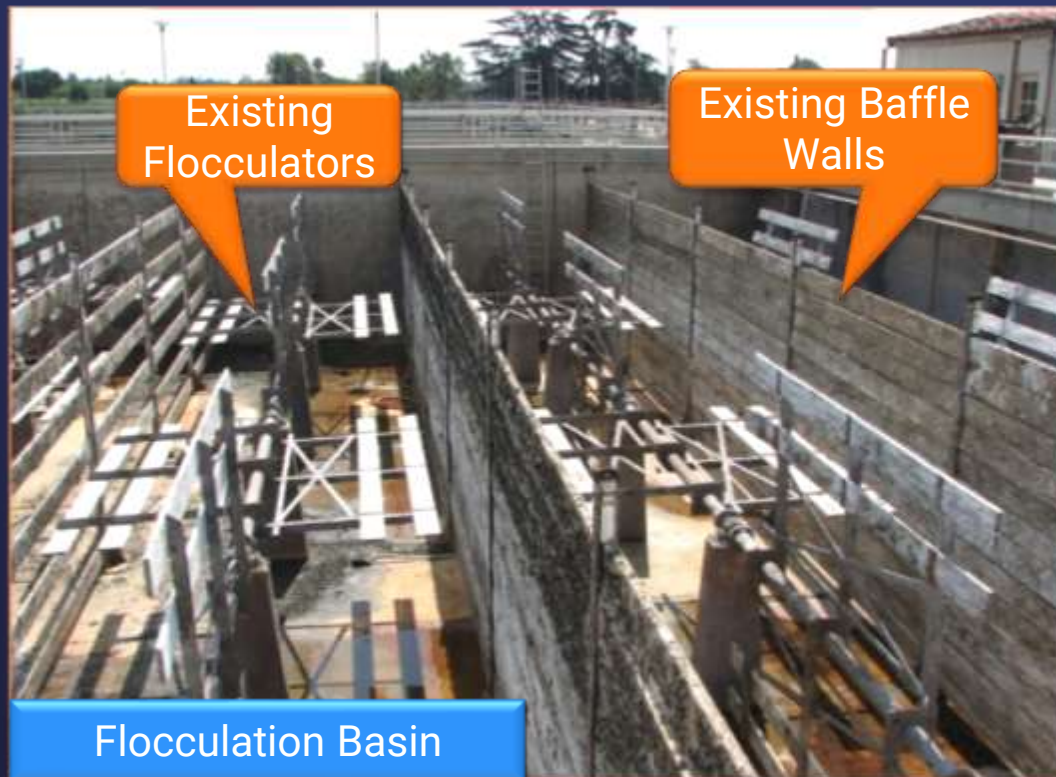
Background

- 1941 - Basins Nos. 1&2
- 1949 - Basins Nos. 3&4
- 1962 - Basins Nos. 5-8 and Filter Building No. 2



Background (Cont.)

- Basins Nos. 5-8
 - Basin mechanical and electrical components have deteriorated
 - Inlet channel gates are leaking
- Seismic Retrofit
 - Risk assessment identified deficiencies
 - Strengthen inlet channel and basin walls



Weymouth Basins Nos. 5-8 and Filter Building No. 2 Rehabilitation

Alternatives Considered

- Rehabilitate basins and valves under separate contracts
 - Disruptive to Weymouth Operations
 - Prolongs construction duration
- Single construction contract approach
 - Reduces plant shutdowns
 - Reduces contract administration and project costs
 - Improves construction efficiency

Contractor Scope

- Replace treatment basin equipment
- Install electrical and control equipment
- Strengthen the basin and inlet channel walls



Recent Diemer West Basin Rehabilitation Work

Contractor Scope (Cont.)

- Hazardous material abatement
 - \$3M O&M funded
- Replace 127 filter valves and actuators in Filter Building No. 2
- Replace basin launders and basin inlet gates



Weymouth Plant Filters and Basins Nos. 5-8

Metropolitan Scope

- Perform construction management/inspection and survey control
- Provide project management and contract administration
- Force Construction
 - Provide plant shutdown and outage support



Weymouth
Basins Nos. 5-8
and Filter
Building No. 2
Rehabilitation

New Agreement – Carollo Engineers, Inc.

- Engineer of record - Filter Building No. 2
 - Mechanical and electrical disciplines
- Scope of work
 - Technical support during construction
 - Submittal review
 - Respond to RFIs
 - Prepare record drawings
- NTE amount: \$495,000

Bid Results

Specifications No. 1982

Bids Received	April 7, 2022
No. of Bidders*	3
Low Bidder	J. F. Shea Construction, Inc.
Low Bid	\$93,840,000
Higher Bid	\$95.2 million
Engineer's estimate	\$107.4 million
SBE Participation**	21%

*Apparent low bidder was released from its bid in accordance with the Public Contract Code.

**SBE (Small Business Enterprise) participation level set at 20%

Allocation of Funds

Contract

J. F. Shea Construction, Inc. ¹	\$90,840,000
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Metropolitan Labor

Program mgmt. & contract administration	2,047,000
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Force Construction	2,478,000
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Construction management/inspection	9,638,000
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Submittal review, technical support & record drawings	2,655,000
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Materials & Supplies	925,000
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Professional Services

Carollo Engineers, Inc.	495,000
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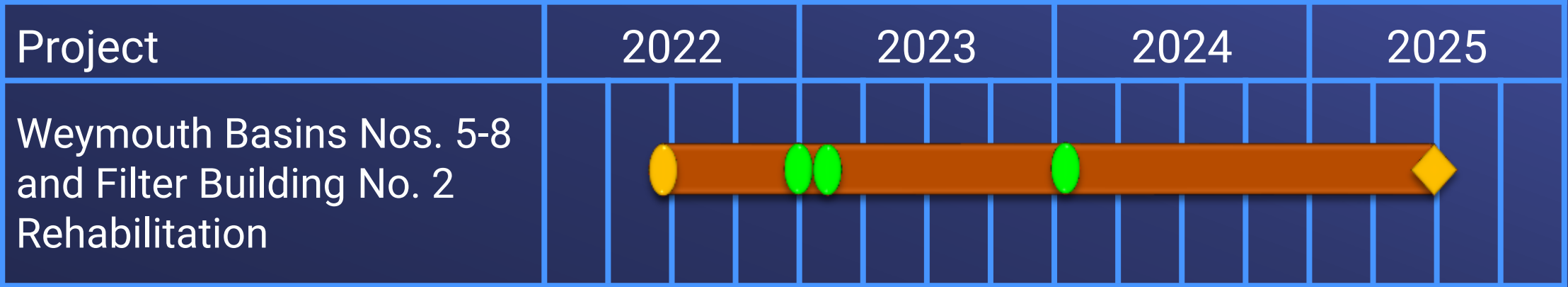
Consultant Inspection	75,000
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Remaining Budget	4,747,000
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Total	\$114,000,000
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¹ The total contract amount is \$93,840,000, of which \$3 million will be paid from O&M funds.

Project Schedule



 Board Action

 Construction

 Completion of Construction

 Planned Outages

Board Options

- Option #1
 - a) Review and consider Addendum No. 1 to the certified 2015 Final Environmental Impact Report for the Weymouth Plant Improvements.
 - b) Award a \$93,840,000 contract to J. F. Shea Construction, Inc. to rehabilitate Basins Nos. 5-8 and Filter Building No. 2 at the Weymouth plant.
 - c) Authorize an agreement with Carollo Engineers, Inc. for a new not-to-exceed total of \$495,000 to provide engineering support.
- Option #2
 - Do not proceed with the project at this time.

Staff Recommendation

- Option #1

