Engineering, Operations, & Technology Committee

Sepulveda Feeder Pump Stations – Phase 2B

Item 8-2

September 15, 2026

Presented by: Jeannie Chu and Howard Lum

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Sepulveda Feeder Pump Stations – Phase 2B

Subject

Authorize (1) an increase of $172,849,771 to an existing design-build agreement with J.F. Shea Construction Inc. for a new not-to-exceed amount of $276,209.771 to authorize Phase 2B of the Sepulveda Pump Stations project; (2) an increase of $1.59 million to an existing agreement with Carollo Engineers Inc. for a new not-to-exceed amount of $4.89 million to serve as the owner's advisor; and (3) an increase of $857,000 to an existing agreement with Parametrix Inc. for a new not-to-exceed amount of $1.402 million for cost estimating and scheduling services

Purpose

To improve the water supply reliability for State Water Project-dependent areas

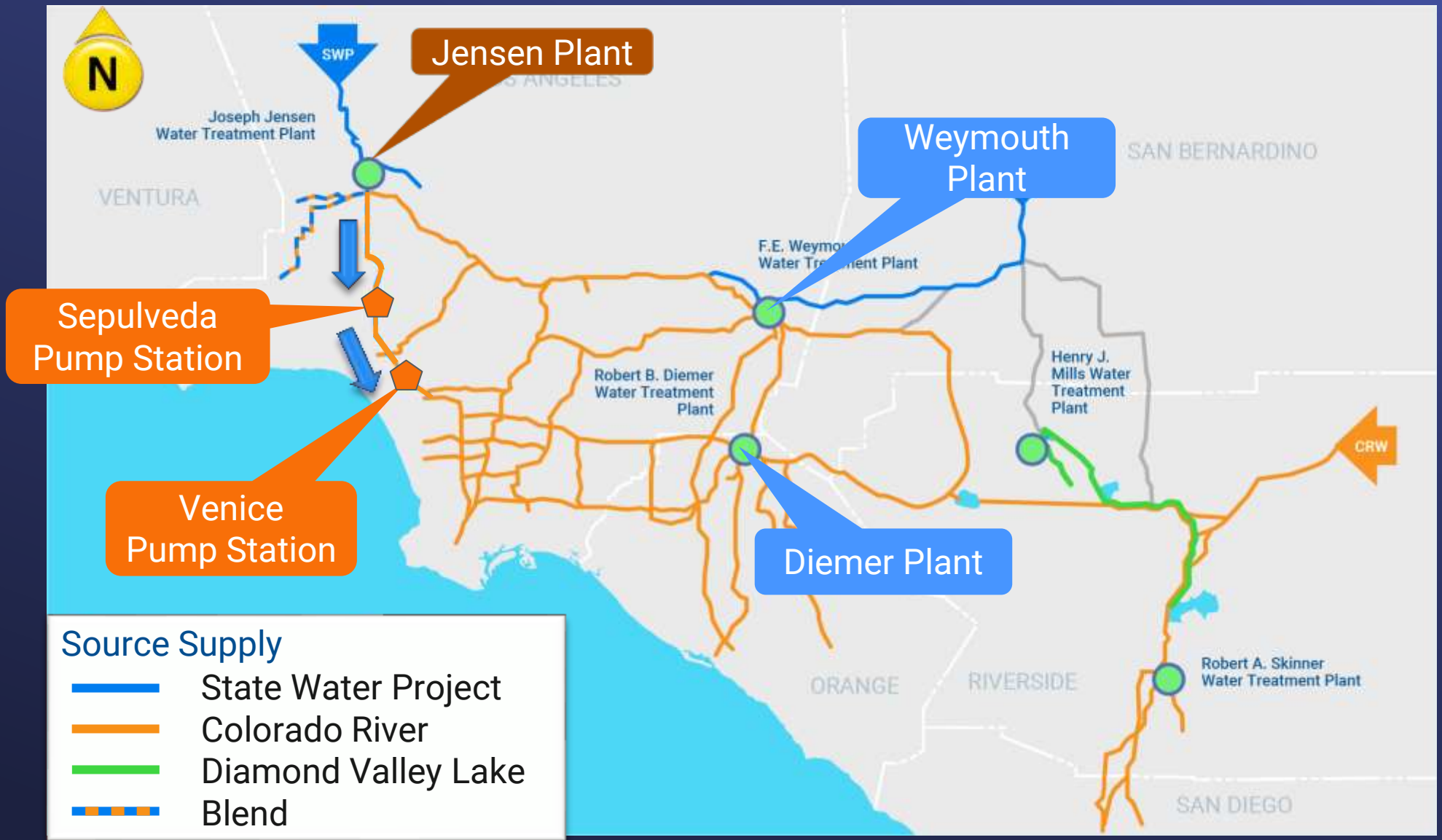
Recommendation and Fiscal Impact

Authorize construction for the Sepulveda Feeder Pump Stations project at Sepulveda Canyon

Fiscal Impact – $219.75 million

Budgeted

Current Operation



Pumping Water Up Sepulveda Feeder Enhances Drought Resiliency

Sepulveda Feeder Pump Stations (30 cfs)

Background

Two new pump stations at Sepulveda Canyon and Venice Pressure Control Structures (PCS) allow reverse flow in Sepulveda Feeder

- Provides initial hydraulic capacity at 30 cfs
- Augments treated water deliveries to westside service area
- Strengthens drought resiliency and increases overall system flexibility
- Ground improvements at the Sepulveda Canyon Pressure Control Structure site enhance seismic resiliency

Construction at Venice PCS

Key Board Actions

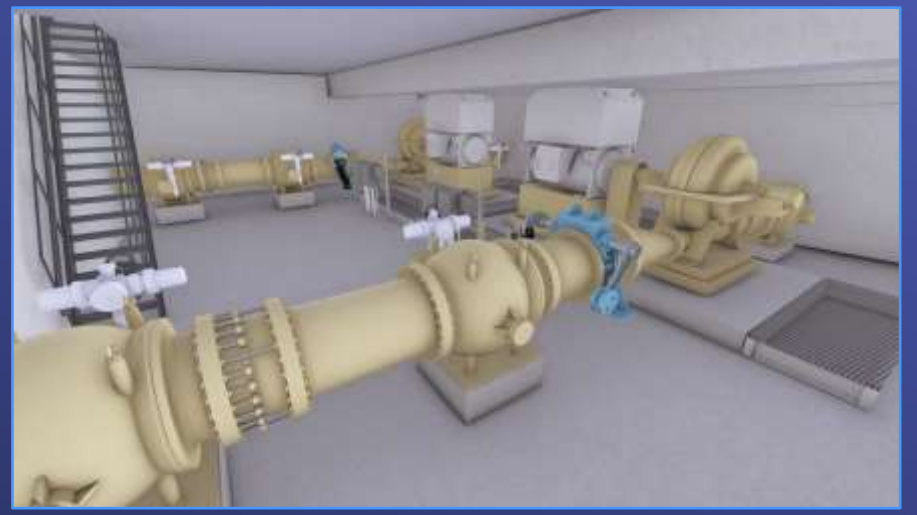
- Sept. 2023 – Phase 1 of the PDB agreement
- July & Sept. 2024 – Early procurement of mechanical and electrical equipment
- July 2025 – Phase 2A construction of Venice Pump Station and demolition of large tanks at Sepulveda PCS
- Sept. 2026 – Phase 2B construction of Sepulveda Pump Station and Sepulveda ground improvements (current action)

Excavation for Electrical Building at Venice PCS

Overall Project Scope

Two new pumping stations on Sepulveda Feeder (30 cfs at each plant)

- Pumps, motors, and interconnection piping
- Valve control structures
- Mechanical equipment for surge protection
- Electrical upgrades
  - Modifications, switchgear and control buildings
  - New power service from utilities
- Sodium hypochlorite system
- Integration with operations system for maintenance and asset management
- Sepulveda ground improvements
- Testing and commissioning of both pump stations



Sepulveda Pump Station Vault

Venice Pump Station Layout

PDB Scope of Work at Sepulveda Site

- Completion of final design
- Construction of Sepulveda pump station
- Construction of soil improvements at the Sepulveda Canyon Control Facility
- Coordination with LADWP for new electrical service
- Installation of long-lead equipment

Rendering of Sepulveda Pump Station

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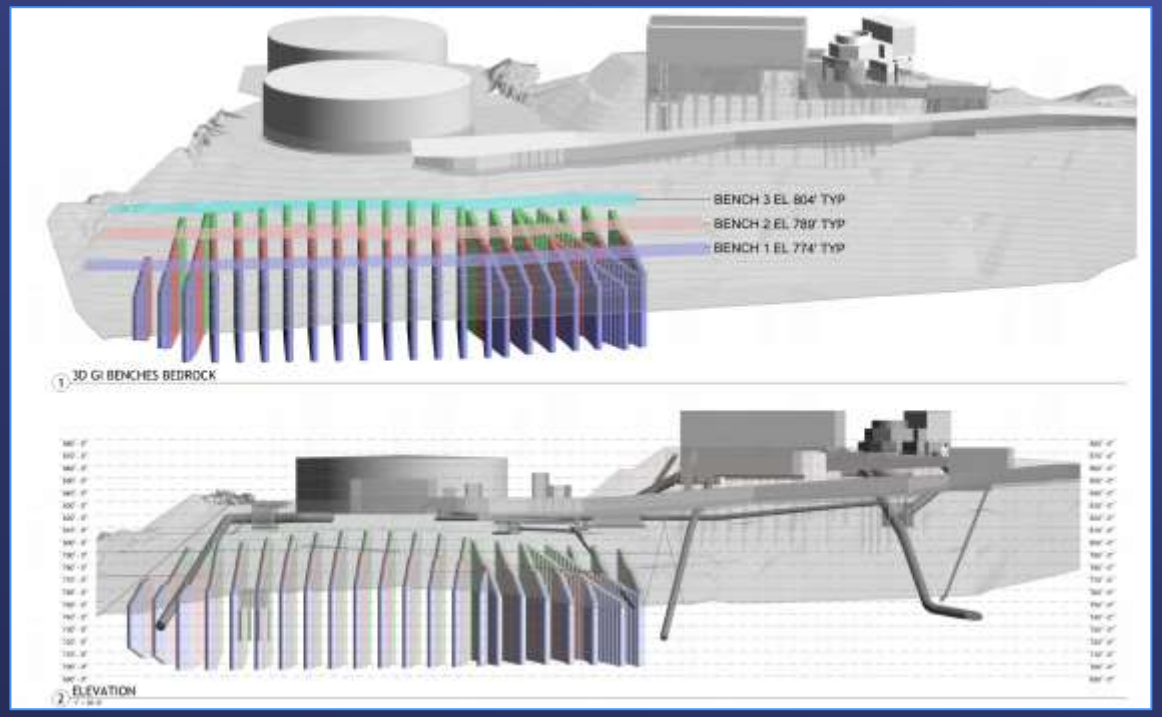
Scope of Work - Metropolitan

- Review of Design-Builder's work to complete the final design package
- Construction management and inspection
- Dewater pipeline for tie-in
- Support start up, commissioning and return to service
- Project management and contract administration

Project Scope Summary

Sepulveda Site Soil Improvements

- Sepulveda PCS site is subject to liquefaction during a major earthquake
- Separate CIP project previously developed conceptual solutions
- Installation of a grid of subterranean jet-grouted shear panels
- Soil improvements enhance the seismic resilience of the facility



3D Model of Sepulveda Soil Improvement Design

Sepulveda Feeder Pump Stations – Phase 2B

Alternatives Considered

- Considered Alternative – Address Sepulveda slope stability concerns as separate project
  - Slope stability work will need to be completed prior to beginning construction of the Sepulveda Pump Station
  - Delays project completion
- Selected Alternative – Include Sepulveda slope stabilization work in Sepulveda Pump Stations PDB agreement
  - Enhances overall resiliency and streamlines completion

Sepulveda Feeder Pump Stations – Phase 2B

Agreement Amendment – J.F. Shea Construction Inc.

- Design-Builder (DB) consists of J.F. Shea Construction Inc. & Tetra Tech Inc.
- Increase $172,849,771 to an NTE cost of $276,209,771
- SBE participation level: 4%
- Key Terms:
  - GMP open-book accounting
  - 50/50 sharing of unused GMP funds and contingencies between Metropolitan and J.F. Shea
  - Covered under Project Labor Agreement

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Agreement Amendment – Carollo Engineers Inc.

- Owner's Advisor Services
  - Provide PDB advisory support through 2030
  - Evaluate scope changes and provide technical input
  - Oversee allowance and contingency utilization by J.F. Shea
  - Review GMP transparency and invoicing accuracy
  - Participate in weekly Design-Build coordination meetings
- $1,590,000 increase to existing agreement
  - New NTE amount: $4.89 M

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Agreement Amendment – Parametrix Inc.

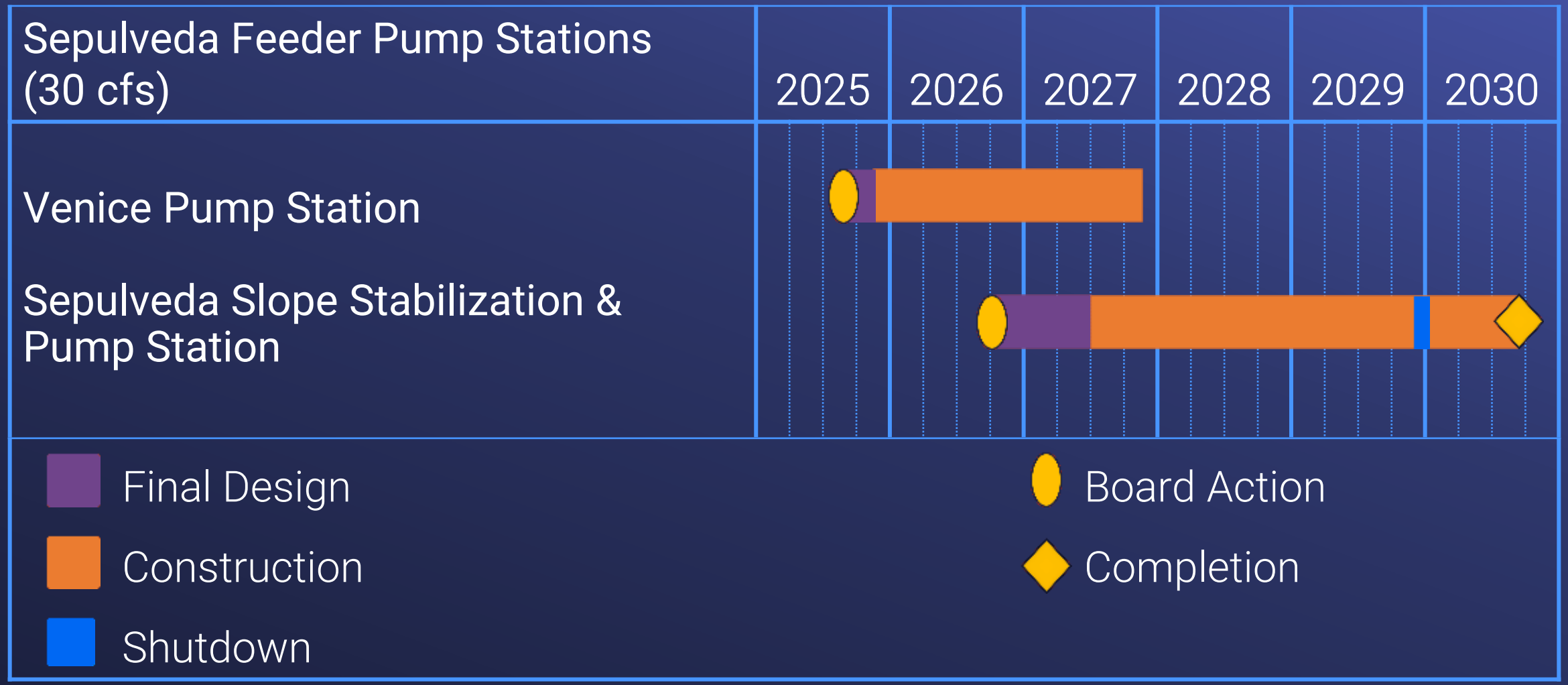
- Cost Estimating and Scheduling Services
  - Evaluate costs associated with extra work orders
  - Assist with construction disputes and formal change order resolutions
  - Assist with risk management and analysis
  - Evaluate schedule impacts, potential delays, and related project costs
  - $857,000 increase to existing agreement
    - New NTE amount: $1.402 M

Allocation of Funds

Sepulveda Feeder Pump Stations Project – Phase 2B

Metropolitan Labor		
Final Design	$	2,058,000
Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)		2,755,000
Construction Inspection & Support		19,352,500
Submittals Review, Tech. Support, Record Drwgs.		3,085,000
LADWP-Electrical Service		9,768,000
Professional/Technical Services		
Carollo Engineers Inc.		1,590,000
Parametrix Inc.		857,000
Jet Grout Consultant		500,000
Contracts		
J.F. Shea Construction Inc.		172,849,771
Remaining Budget		6,934,729
Total	$	219,750,000

Project Schedule



Board Options

- Option #1
  a. Authorize an increase of $172,849,771 to an existing design-build agreement with J.F. Shea Construction Inc. for a new not-to-exceed amount of $276,209,771 to authorize Phase 2B of the Sepulveda Pump Stations project;
  b. Authorize an increase of $1.59 million to an existing agreement with Carollo Engineers Inc. for a new not-to-exceed amount of $4.89 million to serve as the owner's advisor; and
  c. Authorize an increase of $857,000 to an existing agreement with Parametrix Inc. for a new not-to-exceed amount of $1.402 million for cost estimating and scheduling services.
- Option #2
  - Do not authorize Phase 2B of the project at this time.

Staff Recommendation

- Option #1

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