



Engineering & Operations Committee

PCCP Inspections, Sepulveda and Calabasas Feeders Rehabilitation

Item 7-3

August 15, 2022

PCCP Inspections Calabasas and Sepulveda Feeders Rehabilitation

Current Action

- Project 1 – Authorize an agreement with Pure Technologies U.S. Inc., in an amount not to exceed \$7 million for inspection & monitoring services for prestressed concrete cylinder pipe
- Project 2 – Authorize an agreement with Brown and Caldwell in an amount not to exceed \$900,000 for preliminary design to rehabilitate PCCP portions of Calabasas Feeder
- Project 3 – Authorize an increase of \$6 million to an existing agreement with HDR Engineering, Inc. to rehabilitate the Sepulveda Feeder
 - Part of a series of projects to improve supply reliability for SWP dependent member agencies

Distribution System



Background

PCCP Reliability Management Strategy

- Regular inspections & monitoring
 - All PCCP / 5 to 7-year cycles
- Perform individual segment repairs as needed
 - No urgent repairs needed at this time
- Plan & execute long-term rehabilitation
 - Calabasas Feeder – Preliminary Design
 - Sepulveda Feeder – Preliminary Design

PCCP Pipeline Inspections

1. Background

- Electromagnetic & visual inspections conducted annually
- 5 to 7-year inspection cycle
- 4 PCCP inspection cycles completed

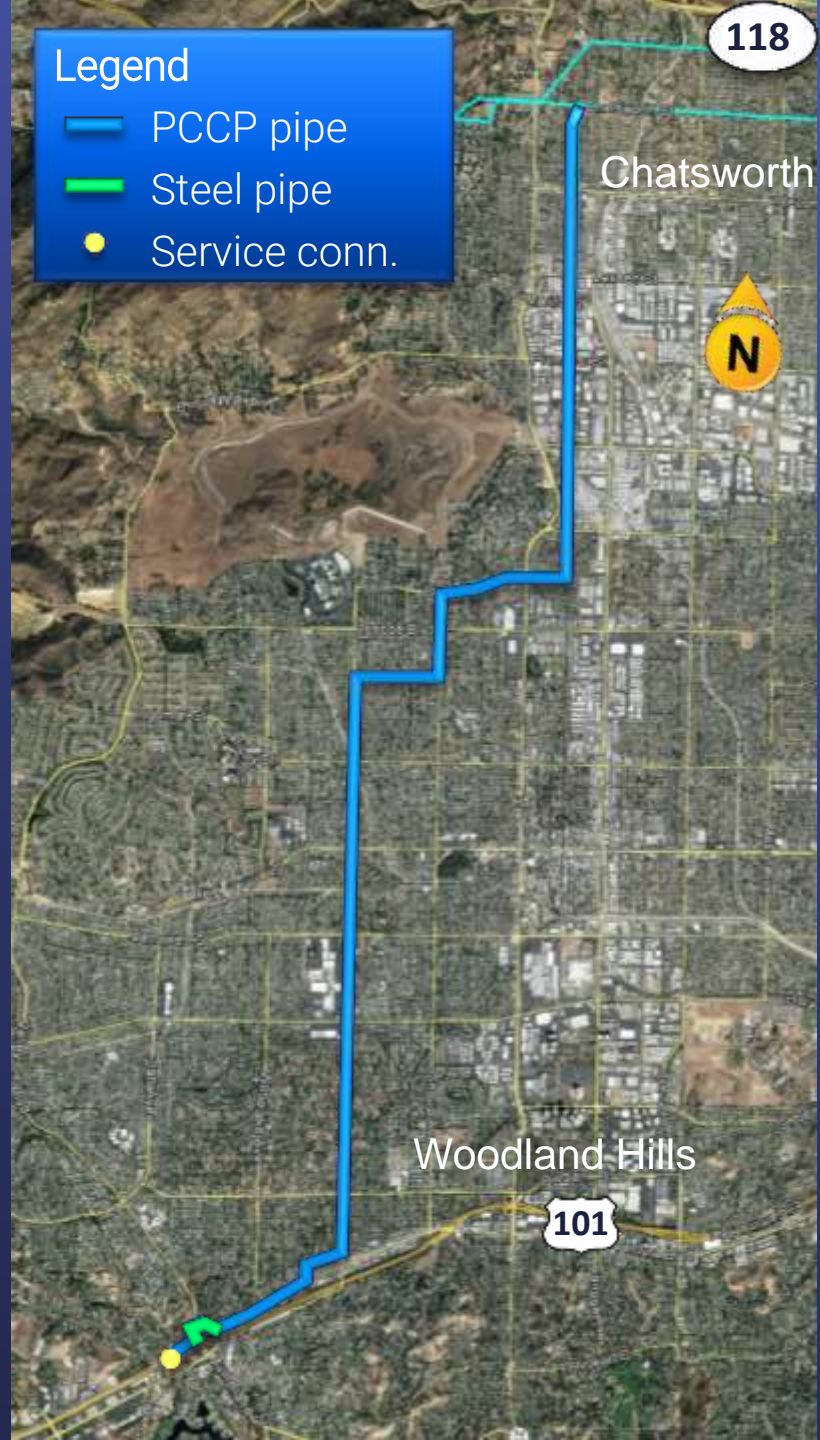


Calabasas Feeder

Preliminary Design

2. Background

- 54-inch diam., 9.3 miles long
- Constructed in 1975
- Delivers treated water to the cities of Agoura Hills, Calabasas, Hidden Hills, Westlake Village, & areas of unincorporated western Los Angeles County

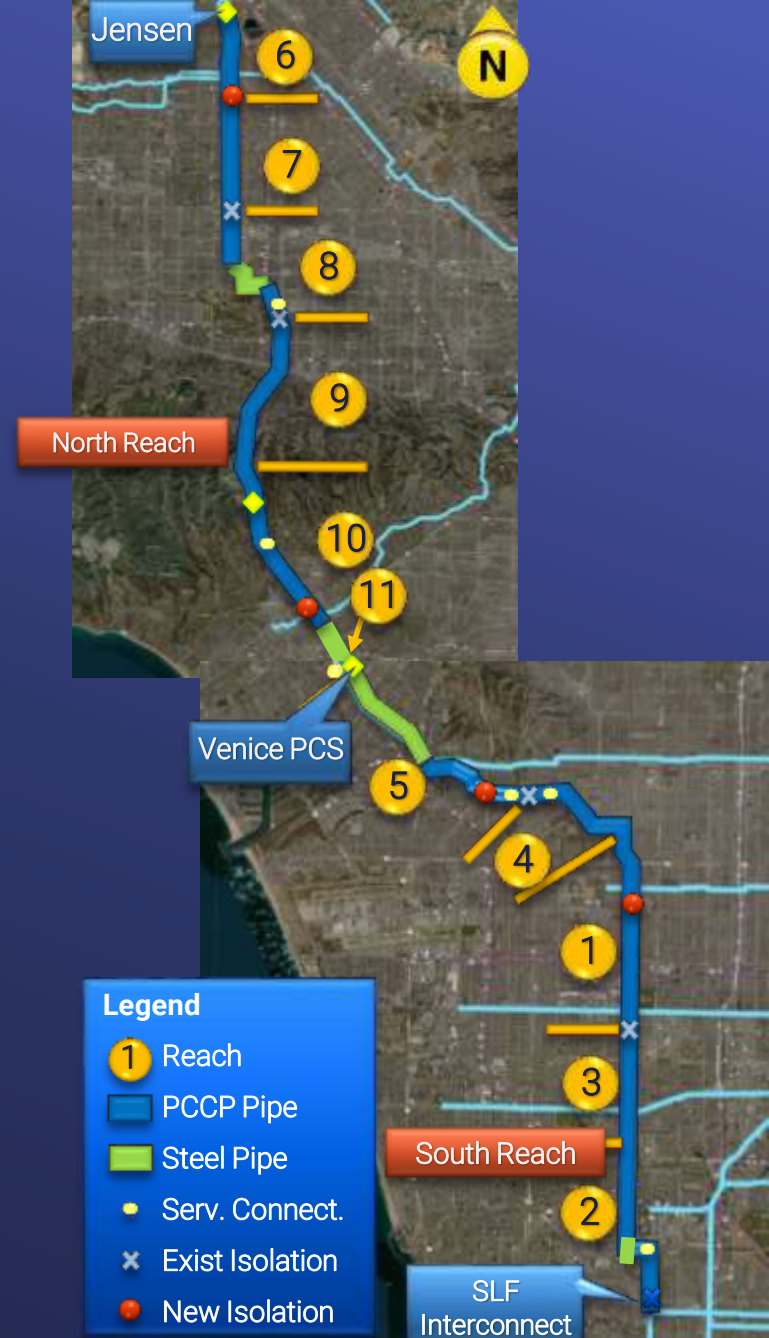


Sepulveda Feeder - North Reach

Preliminary Design

3. Background

- 84 to 150-inch diam. PCCP & welded steel pipe
- 42 miles long constructed in 1970s
- Crosses several freeways through urban areas
- Detailed Preliminary Design (PDR) for the more at-risk South Reach completed in 2021



3. Background – Sepulveda Feeder PCCP North Reach

- West Area Water Reliability Improvements studies authorized in Feb 2022
 - Deliver CRA Water to the west service area from the central pool
- Accelerate lining schedule to ensure feeder can sustain potential pressure increase from the Sepulveda Pump Stations
- Detailed PDR for the northern 19.5 miles required



PCCP
Inspections

1. New Agreement – Pure Technologies U.S. Inc.

- Prequalified under RFQ No. 1313
- Scope of work
 - Inspect 4 to 6 PCCP pipelines per year (averaging 25 miles per year)
 - Prepare reports
- NTE amount: \$7,000,000
- No SBE required

Calabasas Feeder

Preliminary Design

2. New Agreement – Brown and Caldwell

- Selected under RFP No. 1312
- Scope of work
 - Evaluate information provided by Metropolitan staff, perform calculations, initiate permitting with local agencies, develop construction cost estimates
 - Conduct preliminary design
 - Complete preliminary design drawings
- SBE participation level: 25%
- NTE amount: \$900,000

Sepulveda Feeder - North Reach

Preliminary Design

3. Agreement Amendment – HDR Engineering, Inc.

- Selected under RFP No. 1168
- Performed preliminary design for the South Reach
- Scope of Work
 - Preliminary design report & drawings
 - Evaluate previously lined PCCP & steel sections to accommodate higher pressure
 - Develop construction cost estimates
- SBE participation level: 25%
- Recommended increase to agreement: \$6 M
- New NTE amount: \$12.5 M

Calabasas & Sepulveda

Preliminary Design

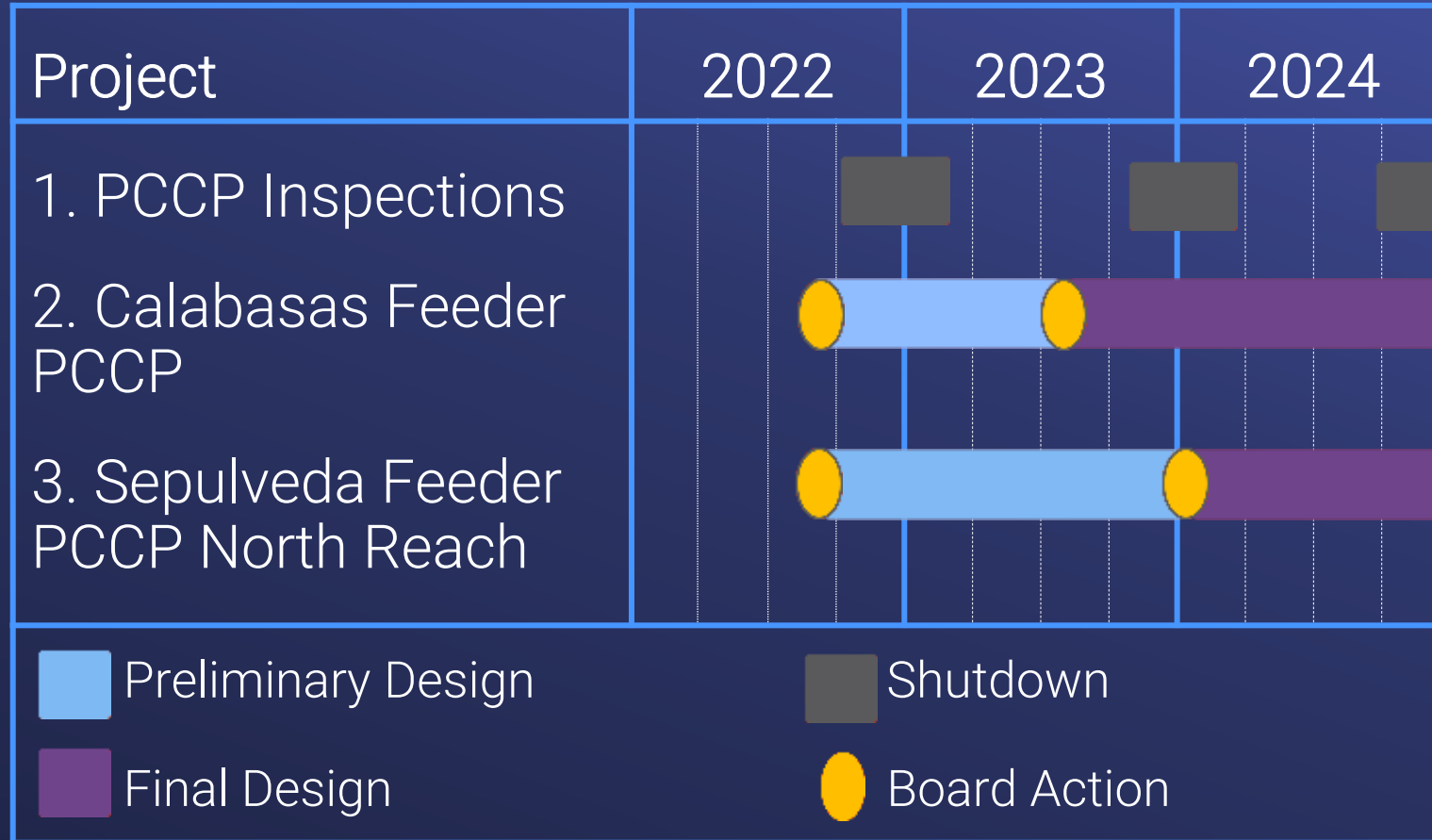
2. & 3. Metropolitan Scope

- Oversee consultant work
- Provide technical review
- Support environmental
- Permitting & PM

Allocation of Funds

	<u>1. EM Inspections</u>	<u>2. Calabasas Feeder</u>	<u>3. Sepulveda Feeder</u>
Metropolitan Labor			
Studies & Investigations	\$1,247,000	\$ 263,000	\$ 930,000
Program mgmt. & Envir. Support	310,000	254,000	523,000
Construction Support			150,000
Materials and Supplies	100,000		120,000
Professional Services			
Pure Technologies US, Inc.	7,000,000		
Traffic Controls Consultant	200,000		
Brown and Caldwell		900,000	
VE Consultant		50,000	
HDR Engineering, Inc.			6,000,000
Remaining Budget	243,000	33,000	777,000
	Total	\$9,100,000	\$1,500,000
			\$8,500,000

Project Schedule



Board Options

- Option #1

Adopt the CEQA determination that the Calabasas Feeder and Sepulveda Feeder rehabilitation projects were previously addressed in the certified 2017 Prestressed Concrete Cylinder Pipe Rehabilitation Program Final Programmatic Environmental Impact Report, and:

- a. Authorize an agreement with Pure Technologies U.S. Inc. in an amount not to exceed \$7 million to perform PCCP pipeline inspections.
- b. Authorize an agreement with Brown and Caldwell in an amount not to exceed \$900,000 to provide preliminary design engineering services to rehabilitate PCCP portions of Calabasas Feeder.
- c. Authorize a \$6 million increase to an agreement with HDR Engineering, Inc. for a new not-to-exceed amount of \$12.5 million to rehabilitate PCCP and steel portions of the Sepulveda Feeder.

Board Options

- Option #2

Adopt the CEQA determination that the Calabasas Feeder and Sepulveda Feeder rehabilitation projects were previously addressed in the certified 2017 Prestressed Concrete Cylinder Pipe Rehabilitation Program Final Programmatic Environmental Impact Report, and:

- a. Authorize an agreement with Pure Technologies U.S. Inc. in an amount not to exceed \$7 million to perform PCCP pipeline inspections.
- b. Do not authorize an agreement with Brown and Caldwell to provide engineering services to rehabilitate PCCP portions of Calabasas Feeder.
- c. Do not authorize an agreement with HDR Engineering, Inc. to rehabilitate PCCP and steel portions of Sepulveda Feeder.

Board Options

- Option #3

Do not proceed with PCCP inspections or engineering work to rehabilitate Calabasas Feeder or Sepulveda Feeder at this time.

Staff Recommendation

- Option #1

