

Santa Margarita Treatment Facility Bid Results

Board of Directors Meeting

21 October 2019

Design and Cost History

Event	Date	Team	Estimate
Basis of Design	12/21/2018	MPWMD Operations MPWMD Engineering MPWMD Designer Cal Am Operations Cal Am Maintenance Cal Am Engineering Cal Am Design Consultants	\$1.2M to \$1.4M Class 5 (-50% to +100%)
Budget	April, 2019	Insufficient schedule and project budget for interim engineers estimate	\$2M Staff increased to allow for potential scope changes
60% Design Review	5/30/2019	Basis of Design Team + Cal Am Corrosion Inhibitor Consultant	
95% Design Review	7/23/2019	60% Design Review Team + MPWMD Constructability Review Consultant, Civil + MPWMD Constructability Review Consultant, Electrical	
Bid Design	8/6/2019		\$3.64M Class 3 (-20% to +30%)

Bid Results

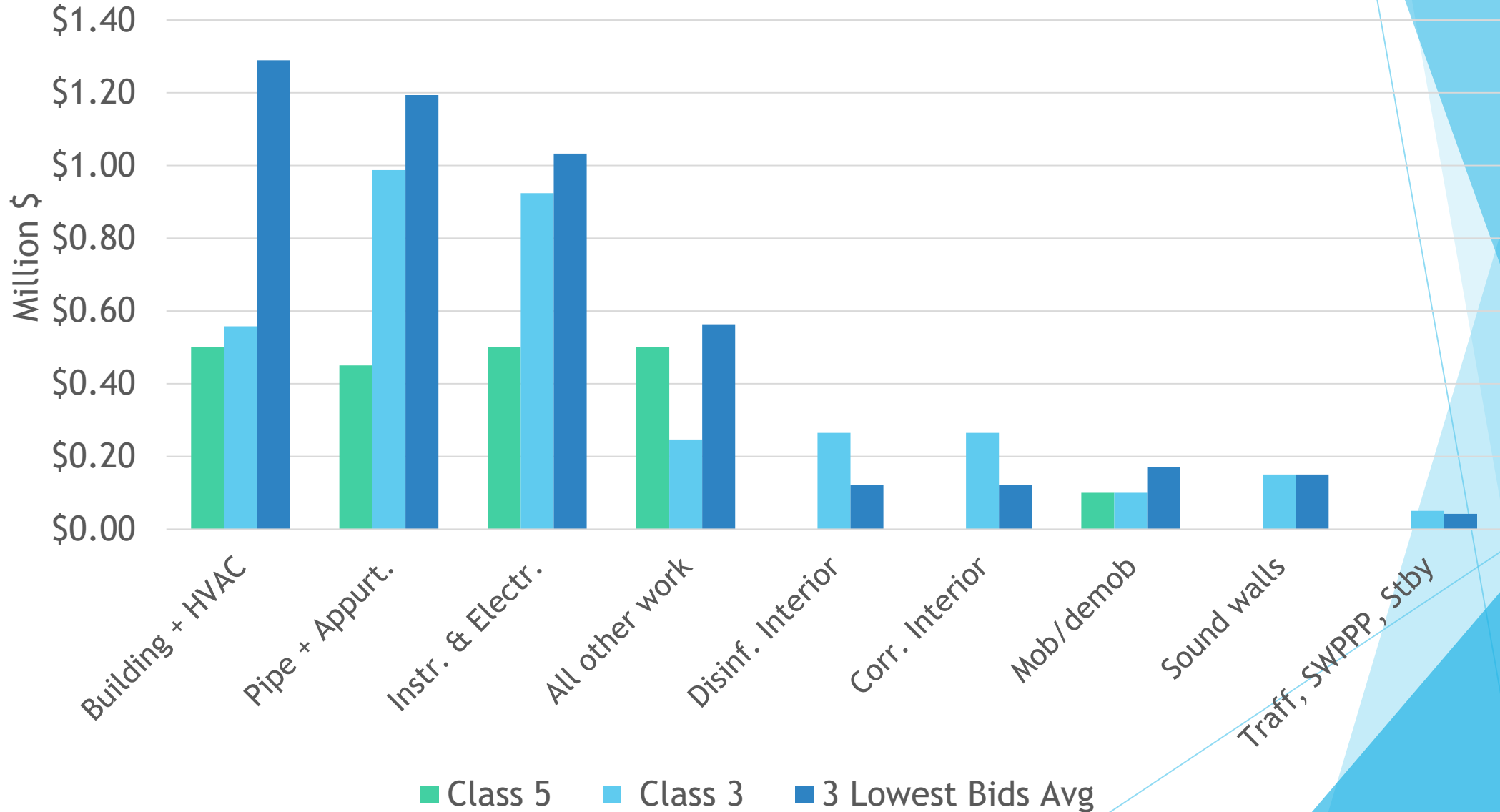
Bidder	Total
Specialty Construction	\$4,649,400
MPE	\$4,678,000
Anderson Pacific	\$4,724,400
Mercer-Fraser	\$5,558,600

3 lowest bids within 1% of their mean
Fitch Park Design-Bid proposals were \$6M and \$6.6M

Budget Information

Item	Budget
FY 2019-2020 Budget for the project	\$2,450,000
Total project cost including contingencies	\$5,592,635
Unbudgeted portion of the project	\$3,142,635
District's fund balance current estimate	\$12,324,065
Reserve balance after funding of this project	\$9,181,430

Bid Results and Estimates Analysis



Major Costs (1)

- ▶ Construction cost increase since recession
 - ▶ Existing, land constrained, operating facility on a former munitions range
- ▶ Useful life
 - ▶ Centrally located @ new storage as we transition off Carmel River
 - ▶ Ductile iron transmission and distribution pipe - 100 years
 - ▶ Concrete masonry buildings - 40 years (re-grout)
 - ▶ Treatment plants with concrete structures - 60 to 70 years (ASCE 2011)
- ▶ Capacity
 - ▶ Recover Pure Water Monterey water
 - ▶ Consistent with transmission capacity
 - ▶ Future production wells, Fitch Park treatment under review

Major Costs (2)

▶ Building Materials

- ▶ Design standard in existing buildings, pledged to jurisdictions in 2011
 - ▶ Standard for PWM and Desal in Seaside
- ▶ Fire authority approved
- ▶ First development in land slated for residential development
- ▶ Cellar
 - ▶ double containment of spills and leaks,
 - ▶ consistent with Ord Grove treatment facility,
 - ▶ reduces building height - esthetics and seismic response,
 - ▶ maintainability,
 - ▶ safety

Major Costs (3)

▶ Dechlorination (building space)

- ▶ Lose 2 months of capacity waiting for disinfection byproducts decay.
 - ▶ Production of least expensive replacement waters vs. stop ASR injection early (wet/late year).
- ▶ Dechlorination reduces wait time, increases production capacity up to 900 af/year.
 - ▶ This option was found to be the cheapest additional production capacity from the Seaside well field.

▶ Corrosion Inhibitor

- ▶ Required in advance of new water introduction (Flint, New Jersey).
- ▶ Will be a DDW permit condition for ASR production.

Scope Control (1)

▶ Deletions

- ▶ SCADA (Cal Am) (\$250k+)
- ▶ Operations manual (Cal Am) (\$50k)
- ▶ Road paving for upper site (\$150k)
- ▶ Mixer/stabilizer for injection mode (\$140k)
- ▶ Cal Am hired liaison, former Construction Mgr for previous Santa Margarita projects

▶ Revisions

- ▶ Asphalt in place of cement for lower site (\$48k)
- ▶ Electrical on existing PG&E service in place of new PG&E service
- ▶ Telemetry shed and foundation (\$52k)
- ▶ Compressor housing and foundation (\$52k)
- ▶ Abandon replaced underground pipes in place of removal

Scope Control (2)

- ▶ Delayed
 - ▶ Landscaping on 20-21 contract, City approved
 - ▶ Dechlorination, future
 - Future
 - Administrative approval for more cost effective gates and doors
 - Less expensive LID per City
 - ▶ Formal value engineering
- ⇒ There is no magic bullet without deleting functionality (capacity, treatment capability)
- ⇒ Cost to retrofit is higher

Rationale

- ▶ Require works now for new water supply
 - ▶ Need production capacity for Pure Water Monterey water
 - ▶ Region's main storage
 - ▶ Corrosion inhibitor will be a permit condition for ASR wells production
 - ▶ Experience in other locations introducing and mixing new waters in old pipes
- ▶ Dechlorination space - ensure maximum production capacity of the least expensive replacement waters
- ▶ Lowest bidder positive experience at PWM, same builder that constructed the existing buildings

Vs.

Can we afford it?

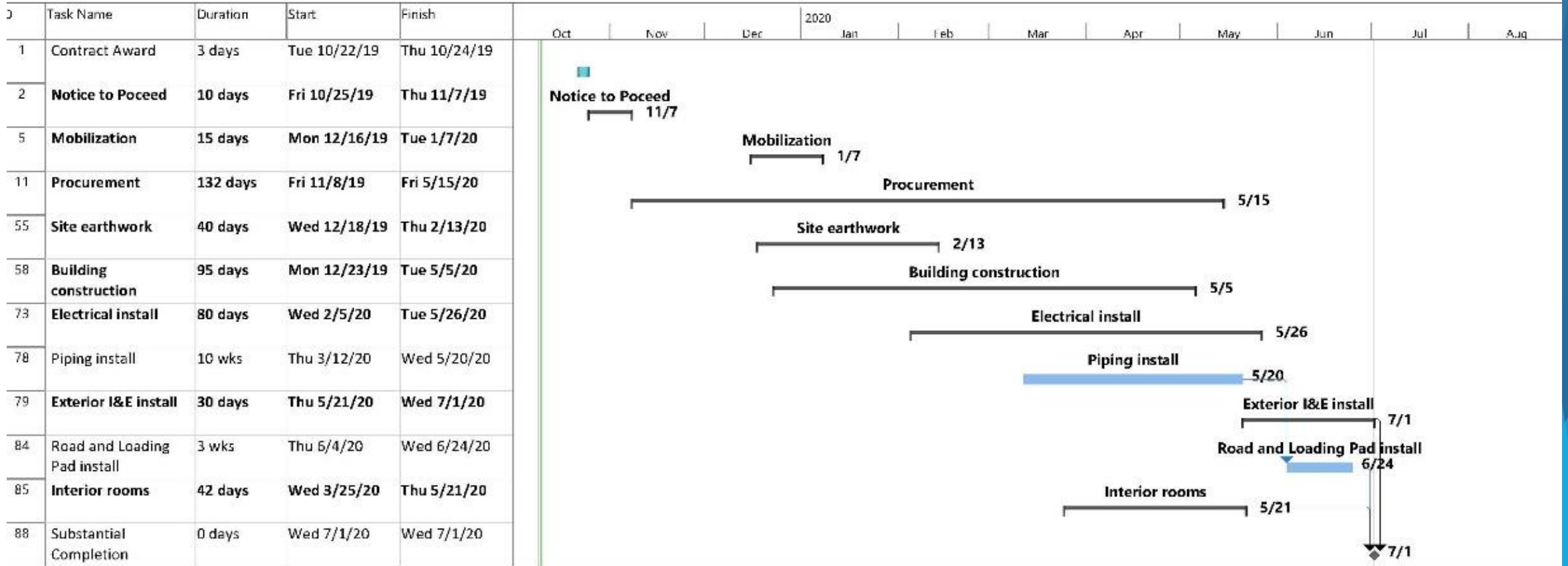
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Request

- ▶ Authorization for the General Manager to enter into a contract agreement with Specialty Construction Inc. for the amount of \$4,649,400.
- ▶ Authorization for the General Manager to enter into a contract agreement with Pueblo Water Resources for Engineering Services During Construction for the amount of \$148,100.
- ▶ Authorization for the General Manager to authorize general contingency for unforeseeable circumstances for the amount \$479,750.
- ▶ Budget adjustment for \$3,142,635.

Engineers Schedule



Questions