



STAFF REPORT

AGENDA NO: 8e

MEETING DATE: July 6, 2020

To: Honorable Mayor and City Council

Date: July 6, 2020

From: Syed Murtuza, Director of Public Works – (650) 558-7230

Subject: Adoption of Resolutions Awarding a Construction Contract to Anvil Builders Inc., for the 1740 Rollins Road and 842 Cowan Road Pump Station Upgrades in the Amount of \$4,189,000, Approving a Professional Services Agreement with Tanner Pacific for Construction Management Services in the Amount of \$626,920, and Approving a Professional Services Agreement with Mott MacDonald for Construction Engineering in the Amount of \$125,384

RECOMMENDATION

Staff recommends that the City Council adopt the attached resolutions for the 1740 Rollins Road and 842 Cowan Road Pump Station Upgrades, City Project Nos. 84820 and 83390 as follows:

- (1) Award a construction contract to Anvil Builders Inc. in the amount of \$4,189,000, and authorize the City Manager to execute the contract;
- (2) Approve a professional services agreement with Tanner Pacific, Inc. in the amount of \$626,920 for construction management services, and authorize the City Manager to execute the agreement; and
- (3) Approve a professional services agreement with Mott MacDonald in the amount of \$125,384 for construction engineering, and authorize the City Manager to execute the agreement.

BACKGROUND

The upgrades for the 1740 Rollins Road and 842 Cowan Road Pump Stations were identified in the Capital Improvement Program (CIP) as high priority improvements. The 1740 Rollins Road Project consists of one stormwater pump station and one sewage pump station. The second stormwater pump station site is located at 842 Cowan Road and receives flows from both Burlingame and parts of Millbrae. The 842 Cowan Road Pump Station is operated and maintained by the City of Burlingame, but the capital improvements, operation, and

maintenance costs are shared between the two municipalities, with 60% as the City of Burlingame share and 40% as the City of Millbrae share.

The pump stations were originally constructed in the 1950's, have served their useful life, and are in need of major upgrades. The stormwater drainage pump stations serve the southern portion of Millbrae, the El Portal/Trousdale channels, and Mills Creek watershed in Burlingame. These stormwater pump stations are vital in preventing localized flooding in the upstream watershed and surrounding areas. The sewage pump station services the Rollins Road commercial/industrial area.

DISCUSSION

The project scope of work consists of site/civil improvements, mechanical, structural, electrical, and instrumentation and control upgrades to two existing stormwater pump stations, and one sanitary sewage pump station. The following work will be performed at each of the two aforementioned pump station sites.

1740 Rollins Road Stormwater Pump Station

- Replace four existing old stormwater pumps with two new larger pumps, each with a rated design capacity of 40 million gallons per day (MGD), and two new smaller pumps with a rated design capacity of 20.5 MGD.
- Replace an existing standby generator with a new 500kW diesel powered standby generator. Standby generators are required for emergency operations during power outages.
- Replace electrical wiring, breakers, and switchgear.
- Replace hangers and supports.
- Replace access hatches and frames.
- Rehabilitate concrete structures.
- Replace jockey pump, which pumps nuisance flows.
- Rehabilitate stormwater discharge box structure.
- Provide bypass pumping during construction.
- Provide stormwater pollution prevention measures.
- Perform miscellaneous site work.
- Perform upgrades to SCADA and controls.
- Conduct testing and start-up.

1740 Rollins Road Sanitary Sewer Pump Station

- Replace three old dry pit pumps with new submersible pumps, each with a capacity of 1.7 MGD.
- Provide protective coatings of the sewer wet-well.
- Provide bypass pumping during construction.
- Perform upgrades to SCADA and controls.
- Conduct testing and start-up.

842 Cowan Road Stormwater Pump Station

- Replace four existing stormwater pumps, with two new larger pumps with a rated design capacity of 32.4 MGD and two smaller pumps with a rated design capacity of 12.9 MGD.
- Replace the existing standby generator with a new 450kW diesel powered standby generator. Standby generators are required for emergency operations during power outages.
- Replace electrical wiring, breakers, and switchgear.
- Replace hangers and supports.
- Replace access hatches and frames.
- Rehabilitate concrete structures.
- Replace jockey pump, which pumps nuisance flows.
- Provide bypass pumping during construction.
- Provide stormwater pollution prevention measures.
- Perform miscellaneous site work.
- Perform upgrades to SCADA and controls.
- Conduct testing and start-up.

Construction Contract

The project design was completed and advertised for construction bids on April 28, 2020, and the sealed bids were opened on June 11, 2020. The City received four bid proposals, with base bids ranging from \$4,189,000 to \$5,169,369. Anvil Builders Inc. is the lowest responsible bidder with its base bid amount of \$4,189,000, which is approximately 12% lower than the engineer's estimate of \$4,750,000. Staff has reviewed the contractor's proposal, and the contractor has met all the project requirements. The City has no prior experience working with the contractor. However, the contractor has provided references for three similar projects. Staff has verified the references, and they have provided satisfactory feedback on the contractor's work.

Professional Services Agreement for Construction Management Services

Tanner Pacific, Inc. was selected through a competitive Request for Proposals process. The City received six proposals, and after the evaluation of the proposals, staff determined that Tanner Pacific is the most qualified firm based on their experience with and knowledge of pump station construction methods, coordination of different work components, and testing and startup of the facilities. Staff has negotiated the following scope of professional services with Tanner Pacific for construction management and inspection services in the amount of \$626,920.

- Review all project contract documents.
- Facilitate the construction kick-off meeting.
- Coordinate with utilities, residents, businesses, and City Operations and Maintenance (O&M) staff.
- Perform preconstruction walk-through. Take photos and videos to document the conditions.
- Perform construction administration during construction phase, such as project coordination, document tracking system, and construction administration services.
- Perform daily inspections and prepare daily reports.
- Coordinate progress meetings during construction.
- Coordinate submittal review process.

- Coordinate requests for information/clarification process.
- Prepare change orders and coordinate change order negotiation and processing.
- Perform progress payment review and process progress payments.
- Coordinate construction schedule.
- Perform field quality control.
- Schedule and coordinate the material testing services and have oversight responsibility for the specialty inspections and testing services.
- Coordinate pump stations outages.
- Prepare a list of required spare parts.
- Prepare a list of required O&M manuals.
- Coordinate testing and training.
- Prepare corrective work items list.
- Perform final inspection walk-through and punch-list.
- Perform project closeout.

Professional Services Agreement for Construction Engineering Services

Mott MacDonald was selected to provide construction engineering support during the project construction because of their knowledge of the project design. Additionally, the City has worked with Mott MacDonald on several projects, and the firm has successfully provided engineering support services. Staff has negotiated the following scope of professional services with Mott MacDonald for engineering support during construction in the amount of \$125,384.

- Provide document review and processing procedures.
- Attend pre-construction meeting.
- Review and respond to contractor's submittals.
- Review and respond to shop drawings.
- Review and respond to requests for information and clarifications.
- Review and respond to design changes.
- Attend meetings during construction period.
- Perform site visits during construction.
- Prepare as-built drawings.

The professional services fee amounts for Tanner Pacific and Mott MacDonald represent approximately 15.0% and 3% of the estimated construction cost, respectively. The fee amounts are consistent with industry standards for construction management and construction engineering based on the scope and complexity of the project involving various components of pump station construction. The project construction is anticipated to begin in July 2020 and is expected to be completed by December 2021 barring construction delays.

FISCAL IMPACT

Estimated Project Expenditures

The following are the estimated project construction expenditures:

Construction Contract	\$4,189,000
-----------------------	-------------

Construction Management and Inspection (Tanner Pacific)	\$626,920
Design Support during Construction (Mott MacDonald)	\$125,384
Construction Contingencies (15%)	\$741,200
Staff Administration	\$150,000
<hr/>	
Total (rounded to nearest 100):	\$5,832,500

Funding Availability

There are adequate funds available in the Stormwater and Sanitary Sewer Capital Improvement Program to complete the 1740 Rollins Road Pump Station and 842 Cowan Road Pump Station upgrades. Additionally, the City of Millbrae will contribute approximately \$850,000 for their portion of the project costs.

Exhibits:

- Resolution for Construction Contract
- Resolution for Professional Services Agreement for Construction Management
- Resolution for Professional Services Agreement Construction Engineering
- Construction Contract
- Professional Services Agreement for Construction Management
- Professional Services Agreement Construction Engineering
- Bid Summary
- Project Location Map