



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: May 19, 2015

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Contract For Construction Of Influent Pump Station Improvements

RECOMMENDATION: That Council:

- A. Transfer \$242,605.69 from Wastewater Fund Reserves to the Wastewater Capital Fund;
- B. Increase appropriations by \$1,070,245 in the Wastewater Capital Fund for the Influent Pump Station Variable Frequency Drive and Programmable Logic Controller Replacement Project, funded from a \$242,605.69 transfer from Wastewater Capital reserves and the balance of \$827,639.31 funded from a reimbursement from the State Revolving Loan Fund approved by separate action;
- C. Award a contract with Taft Electric Company in their low bid amount of \$732,910 for construction of the Influent Pump Station Variable Frequency Drive and Programmable Logic Controller Replacement Project, Bid No. 3740; and authorize the Public Works Director to execute the contract and approve expenditures up to \$73,290 to cover any cost increases that may result from contract change orders for extra work and differences between estimated bid quantities and actual quantities measured for payment;
- D. Authorize the Public Works Director to execute a contract with Mimiaga Engineering Group in the amount of \$111,000 for construction management services, and approve expenditures of up to \$11,100 for extra services of Mimiaga Engineering Group that may result from necessary changes in the scope of work; and
- E. Authorize the Public Works Director to execute a contract with Brown & Caldwell in the amount of \$81,376 for construction support services, and approve expenditures of up to \$8,138 for extra services of Brown & Caldwell that may result from necessary changes in the scope of work.

DISCUSSION:

BACKGROUND

On July 17, 2012, Council awarded a contract to construct the El Estero Wastewater Treatment Plant (El Estero) Influent Pumps Replacement Project. The work generally consisted of replacing the four existing influent pumps, shafts, and motors; replacement of two existing Variable Frequency Drives (VFDs) for the high flow pumps, installation of four new jib cranes to service each pump, and new ventilation ductwork to replace the existing ductwork.

During the design phase, the two VFDs for the low flow pumps and the Programmable Logic Controller (PLC) were identified as equipment that could be reused as a cost saving measure. However, the two existing VFDs and the PLC have not been performing as anticipated. Staff attempted to remedy this during the construction phase; however, the existing VFDs are not reliable and the PLC needs to be updated.

On July 22, 2014, Council awarded a contract with Brown & Caldwell (B&C) for final design services to upgrade the two VFDs and the PLC.

PROJECT DESCRIPTION

The work generally consists of replacing the two VFDs for the low flow pumps with new VFDs, and replacing the existing PLC with a new, updated PLC, which includes a redundant backup PLC.

CONTRACT BIDS

One bid was received for the subject work as follows:

BIDDER	BID AMOUNT
1. Taft Electric Company Ventura	\$732, 910

The low bid of \$732,910, submitted by Taft Electric Company (Taft), is an acceptable bid that is responsive to and meets the requirements of the bid specifications. Taft's bid is approximately \$17,000 lower than the engineer's estimate of \$750,000 for the project.

The change order funding recommendation of \$73,290, or 10 percent, is typical for this type of work and size of project.

CONSTRUCTION PHASE CONTRACT SERVICES

Staff recommends that Council authorize the Public Works Director to execute a contract with Mimiaga Engineering Group (MEG) in the amount of \$111,000 for construction management services, and approve expenditures of up to \$11,100 for extra services that may result from necessary changes in the scope of work. The extra services funding recommendation of 10 percent is typical for this scope of work. MEG performed construction management services for the original Influent Pump Replacement project and is very familiar with El Estero's electrical and control system.

Staff recommends that Council authorize the Public Works Director to execute a contract with B&C in the amount of \$81,376 for design support services during construction, and approve expenditures of up to \$8,138 for extra services that may result from necessary changes in the scope of work. The extra services funding recommendation of 10 percent is typical for this scope of work. B&C designed the project and is experienced in this type of work.

FUNDING

The following summarizes the expenditures recommended in this report:

CONSTRUCTION CONTRACT FUNDING SUMMARY

	Basic Contract	Change Funds	Total
Taft	\$732,910	\$73,290	\$806,200
Mimiaga Engineering Group	\$111,000	\$11,100	\$122,100
Brown & Caldwell	\$81,376	\$8,138	\$89,514
TOTAL RECOMMENDED AUTHORIZATION			\$1,017,814

The following summarizes all project design costs, construction contract funding, and other project costs:

ESTIMATED TOTAL PROJECT COST

**Cents have been rounded to the nearest dollar in this table.*

Design (by Contract)	\$81,569
City Staff Costs	24,141
Subtotal	\$105,710
Construction Contract	\$732,910
Construction Change Order Allowance	73,290
Subtotal	\$806,200
Construction Management/Inspection (by Contract)	\$122,100
Construction Management/Inspection (by City Staff)	52,431
Design Support Services (by Contract)	89,514
Subtotal	\$264,045
TOTAL PROJECT COST	\$1,175,955

Design costs of \$105,710 have already been incurred. The remaining costs total \$1,070,245. The Wastewater Capital Fund will be reimbursed \$827,639.31 for costs of the Rehab Aeration Basin project from the State Revolving Loan at the Third Quarter Review being heard by City Council on May 19, 2015. Staff recommends that an additional \$242,605.69 be appropriated from reserves, for total funding to construct the project.

PREPARED BY: Linda Sumansky, Principal Civil Engineer/LA/mh

SUBMITTED BY: Rebecca J. Bjork, Public Works Director

APPROVED BY: City Administrator's Office