



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: December 6, 2016

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Increase In Construction Change Order Authority For The Braemar Wastewater Lift Station Valve Replacement Project

RECOMMENDATION:

That Council authorize an increase in the General Services Manager's Change Order Authority to approve expenditures for extra work for Braemar Wastewater Lift Station Valve Replacement Project, Purchase Order No. 31602036, in the amount of \$35,402, for a total contract expenditure authority of \$167,402.

DISCUSSION:

Background

The Braemar Wastewater Valve Replacement Project (Project) was identified as an immediate priority to construct due to the age and condition of the valves in the Braemar Lift Station (Station) and the Station's proximity to Arroyo Burro Creek. The valves were no longer able to close as initially designed, causing the pumps to cycle more often than intended, which decreased the life expectancy of the valves. The Project includes replacement of suction, discharge, and check valves for the two existing pumps, with corresponding bypass pumping and traffic control required for construction.

On June 7, 2016, Council authorized the General Services Manager to issue a purchase order to the low bidder, Stanek Constructors, Inc. (Stanek), in the amount of \$120,000 with a change order authority of \$12,000. A Notice to Proceed was issued for construction to begin on June 27, 2016.

Current Status

On September 16, 2016, a single phase check valve, which was specified in the bid, was installed per the manufacturer's installation requirements. After the Station was returned to operation, the check valve repeatedly slammed upon closing, rather than closing smoothly. The slamming of the valve caused the Station to rattle and increased its risk for failure. The valve manufacturer's representative was notified and scheduled a

time to assess the valve operation. During his visit, the representative field modified the valve in an attempt to fix the problem. The field modifications made by the manufacturer's representative were not consistent with the valve's Operations and Maintenance documentation for troubleshooting and did not correct the problem. A new valve was ordered at no cost to the City, and another manufacturer's representative was present for the installation. The new valve experienced the same malfunction as the original valve and, after multiple attempts to evaluate and improve the operation, it was determined that the single phase valve would not provide a reliable solution. The City directed Stanek to remove the single phase valve and to install a City-supplied multiphase valve in its place. Since the installation of the multiphase valve, there have been no incidents of the valve slamming.

While the valve issues were being addressed, Stanek incurred additional costs in order to keep the rental bypass equipment on standby. Additional housekeeping measures, including flushing and disinfecting, directed by the City, also resulted in additional costs.

On October 13, 2016, the City received a letter from the manufacturer stating that the single phase valve could not adequately be adjusted to perform as intended within the system even though the Station operates within the limits of the valve's capability per the manufacturer's documentation. The City will be seeking reimbursement from the valve manufacturer for the cost of the valves and cost for the additional time that the bypass rental equipment was onsite.

BUDGET/FINANCIAL INFORMATION:

Funding

The following summarizes the additional expenditures recommended in this report:

CONSTRUCTION CONTRACT FUNDING SUMMARY

	Base Contract	Change Order	Total
Initial Contract Amount	\$120,000	\$12,000	\$132,000
Proposed Contractor Increase	0	\$35,402	\$35,402
Total	\$120,000	\$47,402	\$167,402

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	Subtotal	\$9,826
Construction Contract		\$120,000
Construction Change Order Allowance		\$47,402
Construction Management/Inspection (by City Staff)		\$20,708
Construction	Subtotal	\$188,110
	Project Total	\$197,936

Along with the \$35,402 increase in the change order authority, an additional \$11,182 is needed to cover staff time to coordinate with the contractor and wastewater staff, and to work with the manufacturer to resolve the valve issue.

There are sufficient appropriated funds in the Wastewater Capital Fund to cover the increases.

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SUBMITTED BY: Rebecca J. Bjork, Public Works Director

APPROVED BY: City Administrator's Office