

CITY OF SANTA ROSA
BOARD OF PUBLIC UTILITIES

TO: BOARD OF PUBLIC UTILITIES
FROM: TRACY DUENAS, SUPERVISING ENGINEER
CAPITAL PROJECTS ENGINEERING

SUBJECT: CONTRACT AWARD – CONTROLLER AND RADIO UPGRADES
AT WATER PUMP STATIONS AND SEWER LIFT STATIONS,
CONTRACT NO. C02052

AGENDA ACTION: MOTION

RECOMMENDATION

It is recommended by the Transportation and Public Works Department and the Water Department that the Board of Public Utilities, by motion, approve the project and award Construction Contract No. C02052 in the amount of \$1,650,000 to the lowest responsive bidder, Tesco Controls, LLC, of Sacramento, CA for Controller and Radio Upgrades at Water Pump Stations and Sewer Lift Stations Project, approve a 15% contingency, and authorize a total contract amount of \$1,897,500.

EXECUTIVE SUMMARY

This motion will award a construction in the amount of \$1,650,000 to the lowest responsive bidder, Tesco Controls, LLC, of Sacramento, CA, approve a 15% contract contingency, and authorize a total contract amount of \$1,897,500 to Controller and Radio Upgrades at Water Pump Stations and Sewer Lift Stations, Contract No. C02052.

BACKGROUND

The City of Santa Rosa (City) Water and Wastewater (Local) Operation Divisions supervisory control and data acquisition (SCADA) and radio telemetry system provides means for remote monitoring, collection and storage of operational data, and control of its water pump stations and sewer lift stations. In August of 2019, a predesign report by Kennedy Jenks evaluated and identified the existing SCADA and radio telemetry systems as being vulnerable to obsolescence. The system is comprised of existing solid-state equipment manufactured in the 1980s and 1990s, and integrated hardware and software from different manufacturers subject to discontinued technical support. Non-uniform

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hardware and software have resulted in an increased frequency of communications errors between various Local facilities.

Kennedy Jenks' predesign report provides the basis for the Project scope of work including programmable logic controllers (PLC) upgrades to 19 various water pump station sites, and radio telemetry improvements to 41 various Local Operations facilities. To improve efficiency and minimize the number of staff necessary to operate and maintain Local PLCs, all water and sewer facilities have been equipped with Tesco controllers. Continued utilization of Tesco equipment will maintain reliability and uniformity within the existing system; maximize staff's familiarity and institutional knowledge; streamline training, maintenance, and troubleshooting procedures; and reduce spare parts inventory. Use of Schneider Electric radio telemetry equipment and technology will provide operational uniformity and compatibility with existing Operations, as well provide higher data rates, reduce interference, and provide more efficient use of the overly dense existing wireless spectrum.

Improvement locations are depicted both in Attachment 1 and as follows:

Facility	Address	PLC UPGRADES	RADIO UPGRADES
Sewer Lift Station (SLS) 01	2101 Stagecoach Rd/Parker Hill Rd		X
Sewer Lift Station (SLS) 02	3978 Skyfarm Dr/St Andrews Dr		X
Sewer Lift Station (SLS) 03	3987 Clearbrook Ct		X
Sewer Lift Station (SLS) 04	4021 Skyfarm Dr		X
Sewer Lift Station (SLS) 05	3925 Fawn Glen Pl		X
Sewer Lift Station (SLS) 09	601 Piezzi Rd		X
Sewer Lift Station (SLS) 10	2583 Country Club Dr/Guerneville		X
Sewer Lift Station (SLS) 11	W Collage Ave & Fulton Rd		X
Sewer Lift Station (SLS) 12	2820 Mohawk St		X
Sewer Lift Station (SLS) 13	2541 Pawnee St		X
Sewer Lift Station (SLS) 15	107 Alderbrook Dr		X
Sewer Lift Station (SLS) 16	5391 Montgomery Dr		X
Sewer Lift Station (SLS) 17	8810a Oakmont Dr		X
Sewer Lift Station (SLS) 18	3975 Shelter Glen Way		X
Sewer Lift Station (SLS) 19	3710 Newbury Ct		X
Sewer Lift Station (SLS) 20	3978 Hansford Ct		X
Sewer Lift Station (SLS) 21	3919 Flintridge Dr		X
Water Well W2-1	806 Carlee Rd		X
Water Reservoir (R) 7	5557 Yerba Buena Rd		X
Water Reservoir (R) 17	2201 Newgate Ct		X
UFO	35 Stony Point Rd		X
Water Pump Station (PS) 15	6368 Sonoma HWY		X
Water Pump Station (PS) 01	280 Fountain Grove Pkwy	X	X
Water Pump Station (PS) 02	1395 Fountain Grove Pkwy	X	X
Water Pump Station (PS) 03	3503 Thomas Lake Harris Dr	X	X
Water Pump Station (PS) 04	2260 Sonoma Ave	X	X

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Facility	Address	PLC UPGRADES	RADIO UPGRADES
Water Pump Station (PS) 04R	2300 Franklin Ave	X	X
Water Pump Station (PS) 04B	2521 Del Rosa Ave	X	X
Water Pump Station (PS) 05	3785 Skyfarm Dr	X	X
Water Pump Station (PS) 06	5204 Montgomery Dr	X	X
Water Pump Station (PS) 07	5219 Monte Verde	X	X
Water Pump Station (PS) 08	5870 Mountain Hawk Dr	X	X
Water Pump Station (PS) 09	2889 Summerfield Rd	X	X
Water Pump Station (PS) 10	4738 Woodview Dr	X	X
Water Pump Station (PS) 11	1825 Kawana Springs Rd	X	X
Water Pump Station (PS) 12	297 Valley Oaks Dr.	X	X
Water Pump Station (PS) 13	801 White Oak Dr	X	X
Water Pump Station (PS) 14	1051 White Oak Dr	X	X
Water Pump Station (PS) 16	4177 Chanate Rd	X	X
Water Pump Station (PS) 17	2750 Fountain Grove Pkwy	X	X
Water Pump Station (PS) 18	2195 Fountain Grove Pkwy	X	X

During the April 12, 2022, bid opening, an irregularity was found in the bid. Tesco Controls, LLC (Tesco) made a clerical error on Bid Item #9 (Facility Start-ups and Equipment Testing) of the unit price schedule. Tesco initially listed Bid Item #9 at \$110,000. With item #9 listed at \$110,000 in Tesco's original Unit Price Schedule, the sum of all unit price items did not equal the Total Base Bid Amount Tesco listed (\$1,650,000). On April 14, 2022, Tesco provided a revised Unit Price Schedule that confirmed the error occurred in Bid Item #9. Tesco's revised Unit Price Schedule corrected the Bid Item #9 price to \$140,000, such that the sum of all the unit price items now equals the original Total Base Bid Amount, \$1,650,000. The Total Base Bid amount (\$1,650,000) submitted by Tesco did not change with the revision.

In conjunction with the City Attorney's Office, the Department reviewed and confirmed the error in Tesco's bid documents and considers the clerical mistake to be a minor irregularity and has determined that proceeding with contract award based on the submitted Total Base Bid amount is in the best overall interest to the City.

PRIOR BOARD OF PUBLIC UTILITIES REVIEW

On December 3, 2020, the Board of Public Utilities approved Resolution No. 1244, a sole source contract specification for Tesco Controls, Inc. programmable logic controllers and Schneider Electric radio telemetry products and services for the Project.

ANALYSIS

This project was advertised on March 22, 2022, and a single bid was received on April 12, 2022, in the amount of \$1,650,000, approximately 0.017% below the Engineer's Estimate of \$1,650,282.

Construction is anticipated to begin in June 2022 and to be complete in December 2022.

FISCAL IMPACT

Approval of this contract has no additional impact on the budget. Funds for this project were appropriated in the fiscal year 2020-21, Capital Improvement Program budget.

ENVIRONMENTAL IMPACT

This action is categorically exempt from the California Environmental Quality Act (CEQA), pursuant to CEQA Guidelines Section 15301 of CEQA, as the Project consists of a minor alteration of an existing public facilities operated by the Water and Wastewater Operations Departments, located within the city limits.

BOARD/COMMISSION/COMMITTEE REVIEW AND RECOMMENDATIONS

Not applicable.

ATTACHMENTS

- Attachment 1 – Location Map
- Attachment 2 – Summary of Bids

CONTACT

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