

CITY OF SANTA ROSA
BOARD OF PUBLIC UTILITIES

TO: BOARD OF PUBLIC UTILITIES
FROM: ANDREW WILT, ASSOCIATE CIVIL ENGINEER
CAPITAL PROJECTS ENGINEERING
SUBJECT: CONTRACT AWARD – GEYSERS - DELTA CONNECTION
IMPROVEMENTS, CONTRACT NO. C02111

AGENDA ACTION: MOTION

RECOMMENDATION

It is recommended by the Transportation and Public Works and Water Departments that the Board of Public Utilities, by motion, approve the project and award Construction Contract No. C02111 in the amount of \$1,952,775.75 to the lowest responsive bidder, Piazza Construction, of Penngrove, California, for Geysers - Delta Connection Improvements, approve a 15% contingency, and authorize a total contract amount of \$2,245,692.11.

EXECUTIVE SUMMARY

This motion will award a construction contract in the amount of \$1,952,775.75 to the lowest responsive bidder, Piazza Construction of Penngrove, California, approve a 15% contract contingency, and authorize a total contract amount of \$2,245,692.1 to Geysers - Delta Connection Improvements, Contract No. C02111.

BACKGROUND

Recycled water produced at the Laguna Treatment Plant (LTP) is stored in a series of ponds with a combined storage capacity of 1.45 billion gallons. The largest pond in the system, Delta Pond, was constructed in 1983 and is both supplied by and supplies water to the recycled water piping network. Due to the storage capacity, Delta Pond is under the jurisdiction of the State of California Division of Safety of Dams (DSOD).

The Geysers 48-inch diameter pipeline conveys recycled water from LTP to the Geysers geothermal power facility. The existing connection and conveyance of water between the Geysers pipeline and Delta Pond is via a 33-inch diameter turnout, with approximately 500 linear feet of 33-inch diameter distribution pipeline reduced to approximately 130 linear feet of 12-inch diameter pipeline that discharges into a concrete inlet channel located at the pond's easterly embankment. This existing connection has a discharge

capacity of approximately 4 million gallons per day (mgd), which has been deemed insufficient for LTP's current needs.

The purpose of the Geysers-Delta Pond Connection Improvements project is to increase LTP's capacity to divert recycled water from the Geysers pipeline to Delta Pond, which is the main recycled water discharge point from the Subregional System. The existing connection was originally intended for pipeline draining purposes only (which usually occur only during the summer shutdown of the Geysers Pipeline), hence the relatively low capacity. Operational conditions during wet weather have been problematically constrained by this limited capacity and have prevented the City from making use of significantly greater pumping capacity available at the Llano Pump Station adjacent to LTP, roughly 6 miles south of Delta Pond. The proposed improvements will provide a conveyance capacity of 50 mgd, equal to the full capacity of the Llano Pump station. These improvements will also allow the Geysers pipeline to be used as a second transmission pipeline between LTP and Delta Pond, which will allow for repair and maintenance of the only other transmission pipeline in the subregional recycled water distribution system. The net effect of the project is that system resilience will be substantially increased and up to 28 MGD of currently stranded pump capacity at the Llano Pump Station will be made fully available for operational needs.

This project will include the installation of a new 24-inch diameter distribution pipeline, spillway facility, and energy dissipation system. The new distribution pipeline will be tied into the existing 33-inch section of pipeline and will generally traverse in parallel to the existing 12-inch pipeline before terminating into a new discharge structure. The new spillway facility would be built immediately south of the existing facility. The existing 12-inch pipeline and spillway facility will remain in place and will continue to serve as a discharge facility during construction of the project and for long-term use to accommodate small flow rates (4 mgd or less) post-construction.

Due to operational constraints that require the use of the pond during the wet season, construction within the pond will only be performed during this construction season (August through October). Both operational and customer impacts of having the pond out of service will be mitigated and managed. Staff will be monitoring irrigation flows closely through the summer and will manage irrigation schedules as necessary to serve customers' needs.

PRIOR BOARD OF PUBLIC UTILITIES REVIEW

On January 20th, 2022, the Board of Public Utilities approved Resolution No. 1281, adoption of a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the Geysers-Delta Pond Connection/Diffuser Improvements, and approval of the Geysers-Delta Pond Connection Improvements Project and the Delta Pond Diffuser Maintenance Project.

ANALYSIS

This project was advertised on May 16, 2022, and bids were received on June 1, 2022. A total of three (3) bids were received, ranging from \$1,952,775.75 to \$2,079,707.00. The low bid was approximately 34% above the Engineer's Estimate of \$1,456,610.00.

Upon further review of bids, the cost difference between the Engineer's Estimate and the bid price can be attributed to the current state of the construction economy, specifically current supply and labor shortages, material cost increases, and rising inflation. Further, the estimate did not appropriately reflect the current Engineering News-Record (ENR) Construction Cost Index (CCI) and the ENR Materials Price Index (MPI), with CCI indicating an approximate 14 percent cost increase and the MPI indicating a 32 percent cost increase over the past 12 months. Applying current index escalations, specifically to certain bid items that are primarily material cost-intensive (i.e., piping and appurtenances) the Engineer's Estimate would be approximately \$1,970,000 and within the range of the three bids received.

The low bidder, Piazza Construction, possesses a valid contractor's license of the required class, as verified by the Contractors State License Board, and is registered with the State Department of Industrial Relations (DIR).

Construction is anticipated to begin in August 2022 and be complete in April 2023.

The Public Participation Plan is not applicable.

FISCAL IMPACT

Approval of this contract has no additional impact on the budget. Funds for this project were previously appropriated in Santa Rosa Water's Capital Improvement Program Budget.

ENVIRONMENTAL IMPACT

The Project has been found in compliance with the California Environmental Quality Act (CEQA). A Mitigated Negative Declaration, including a Mitigation Monitoring and Reporting Program, was prepared for the project and adopted by the Board of Public Utilities on January 20th, 2022. The significance determination was made that, although the Project will have an effect on the environment, there will not be a significant effect due to the mitigation measures required in the Mitigation Monitoring and Reporting Program.

BOARD/COMMISSION/COMMITTEE REVIEW AND RECOMMENDATIONS

Not Applicable.

ATTACHMENTS

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

CONTACT

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