



WASHOE COUNTY

Integrity Communication Service

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STAFF REPORT

BOARD MEETING DATE: November 19, 2024

DATE: October 12, 2024

TO: Board of County Commissioners

FROM: Dwayne Smith, Division Director, Engineering & Capital Projects
Community Services, 775-328-2043, Desmith@washoecounty.gov

THROUGH: Eric Crump, Director,
Community Services Dept., 775-328-3625, ecrump@washoecounty.gov

SUBJECT: Recommendation to: (1) award a bid and approve the Agreement to the lowest responsive, responsible bidder for the South Reno Manhole Rehabilitation Project, PWP-WA-2024-016, [staff recommends Farr Construction Corporation doing business as Resource Development Company, in the amount of \$536,900.00]; and (2) approve a separate project contingency fund in the amount of \$62,000.00 for a total project cost not to exceed \$598,900.00. The scope of the project is to perform injection grouting of 65 existing sanitary sewer manholes at various location in the South Truckee Meadows Water Reclamation Facility service area. Community Services. (Commission District 2.) FOR POSSIBLE ACTION.

SUMMARY

The South Reno Manhole Rehabilitation Project consists of the injection grouting of 65 existing sanitary sewer manholes within the South Truckee Meadows sewer collection systems. The sanitary sewer manholes were identified during a field flow and water quality investigation performed by County staff and are located both within unincorporated Washoe County and the City of Reno service areas, all within areas that convey sanitary sewer flows to Washoe County's South Truckee Meadows Water Reclamation Facility (STMWRF). The rehabilitation of the manholes includes injection grouting to mitigate infiltration of geothermally-influenced groundwater which contains various constituents such as arsenic and boron, preventing it from entering the STMWRF.

Sealed bids for the Washoe County South Reno Manhole Rehabilitation Project were opened via e-Builder on October 1, 2024. The list of bids received for the project is as follows:

AGENDA ITEM # _____

Washoe County 2024 Manhole Rehabilitation Project	
Bidder	Amount
Farr Construction Corporation dba. Resource Development Company	\$536,900.00
Techno Coatings, Inc.	\$619,875.00
National Plant Services, Inc.	\$740,770.00
Engineer's Estimate	\$546,998.00

Staff has verified in the System for Award Management Exclusions that no bidder is excluded from receiving federal government contracts as a result of being debarred; thus, none of the bidders is prohibited by NRS 338.017(2) from being awarded a public works contract.

Washoe County Strategic Objective supported by this item: Economic Impacts: Support a thriving community.

PREVIOUS ACTION

On August 20, 2024, the Board of County Commissioners (Board) rejected all bids received for the Washoe County 2024 Manhole Rehabilitation Project, pursuant to NRS 338.1385(6)(d), since the lowest bids received were not in conformance with the NRS 624 and Nevada Administrative Code 624 requirements as the lowest two bids did not identify the required contractor licenses for the identified scope of work, and the remaining two bids far exceeded the project budget for this phase of the project.

On May 21, 2024, the Board adopted the Washoe County Final budget for Fiscal Year 2025 as well as the Capital Improvement Plan (CIP) for Fiscal Years 2025-2029.

On October 24, 2017, the Board approved an agreement for Professional Consulting Services between Washoe County and Carollo Engineers, Inc. for consulting engineering services for a flow and water quality investigation of the South Truckee Meadows Water Reclamation Facility (STMWRF) and Spanish Springs service areas in the amount of \$389,823.

BACKGROUND

During the very wet winter of 2017, significant increases in sanitary sewer flows were observed. The significant increase of inflows negatively affects the conveyance capacity of the existing sanitary sewer mains and lift stations in the STMWRF service area and allows for geothermally influenced groundwater to enter the sewer collection system, negatively impacting recycled water quality. Staff determined that a detailed storm, infiltration and inflow analysis for sanitary sewers was needed for the service territories. Typically, these inflows are attributed to surface runoff reaching the collection system either directly into the system through manhole lids or through a cross-connection from an existing storm drain system. The high rainfall also increased the existing ground water levels, and these higher levels can increase the infiltration into the collection system. The infiltration enters the collection system through leaks in the pipe or manholes and fixing such leaks requires either replacing the pipe and manholes or lining the pipes and manholes; lining the manholes is a more cost-effective method than replacement.

Replacement would require deep excavations which would negatively impact the use of roadways during construction as well as the movement of traffic in and around these areas. Replacement costs would also be significantly higher than repair, and the Utility budgets are not developed with the additional costs required for unnecessary replacement.

A local professional engineering firm provided professional services to help develop a mitigation plan for lowering infiltration and inflow and concentrations of certain contaminants in the sewer flows. These services included identifying the study area through a hydrologic study, compiling and reviewing existing data, quality and geothermal data and developing an experimental plan that will detail further investigations needed to determine the most cost-effective mitigation plan. This is the second phase of sanitary sewer manhole repair performed in the South Truckee Meadows. The first phase of work in the South Truckee Meadows was successful and led to a reduction in inflow and infiltration, reducing total sewer flows and mitigating negative water quality impacts. Staff anticipates future phases of this work will be necessary to reduce infiltration into the sanitary sewer collection system.

FISCAL IMPACT

Sufficient funds and budget authority exist for the total project cost including contingency in FY2025 in the Utilities Fund (566), Non-Operating/R&R Construction Sewer (664950), Repairs and Maintenance (710205). Revenues in support of this Agreement are provided from utility rates.

RECOMMENDATION

It is recommended the Board of County Commissioners: (1) award a bid and approve the Agreement to the lowest responsive, responsible bidder for the South Reno Manhole Rehabilitation Project, PWP-WA-2024-016, [staff recommends Farr Construction Corporation doing business as Resource Development Company, in the amount of \$536,900.00]; and (2) approve a separate project contingency fund in the amount of \$62,000.00 for a total project cost not to exceed \$598,900.00. The scope of the project is to perform injection grouting of 65 existing sanitary sewer manholes at various location in the South Truckee Meadows Water Reclamation Facility service area.

POSSIBLE MOTION

Should the Board agree with staff's recommendation, a possible motion would be: "Move to (1) award a bid and approve the Agreement to the lowest responsive, responsible bidder for the South Reno Manhole Rehabilitation Project, PWP-WA-2024-016, [staff recommends Farr Construction Corporation doing business as Resource Development Company, in the amount of \$536,900.00]; and (2) approve a separate project contingency fund in the amount of \$62,000.00 for a total project cost not to exceed \$598,900.00. The scope of the project is to perform injection grouting of 65 existing sanitary sewer manholes at various location in the South Truckee Meadows Water Reclamation Facility service area."