



WASHOE COUNTY

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STAFF REPORT

BOARD MEETING DATE: June 11, 2019

DATE: May 10, 2019

TO: Board of County Commissioners

FROM: Alan Jones, Senior Licensed Engineer,
Community Services Department, 954-4651, ajones@washoecounty.us

THROUGH: Dwayne Smith, P.E., Division Director, Engineering and Capital Projects
Community Services Department, 328-2043, desmith@washoecounty.us

SUBJECT: Recommendation to approve an Agreement for Consulting Engineering Services between Washoe County and Stantec Consulting Services Inc., to provide feasibility study engineering services for the Steamboat Lift Station Upgrade project within the South Truckee Meadows Water Reclamation Facility service territory [\$176,804]. (Commission District 2.)

SUMMARY

The Engineering Division of the CSD is recommending approval of a professional services agreement with Stantec Consulting Services Inc. (Stantec) to provide a feasibility study for the Steamboat Lift Station Upgrade project within the South Truckee Meadows Water Reclamation Facility (STMWRF) service territory.

Washoe County staff conducted a qualifications-based selection process for an engineering consultant team to conduct the work. Stantec, a consulting firm with extensive wastewater lift station design and engineering expertise, was ranked highest amongst several other highly qualified regional engineering firms.

Washoe County Strategic Objective supported by this item: Safe, secure and healthy communities.

PREVIOUS ACTION

On May 22, 2018, the Board of County Commissioners (Board) approved the Capital Improvements Plan for Fiscal Years 2019-2023.

On October 24, 2017, the Board approved an Agreement for Consulting Engineering Services between Washoe County and Carollo Engineers, Inc. to provide engineering services for sanitary sewer flow and water quality analysis in the existing collection system within the South Truckee Meadows Water Reclamation Facility and Spanish Springs service areas.

AGENDA ITEM # _____

BACKGROUND

Washoe County currently provides wastewater collection and treatment service to residents in the South Truckee Meadows of Reno, Nevada. The County utilizes a gravity sanitary sewer collection system with three small lift stations and a large regional lift station (Steamboat Lift Station) that utilizes one force main to convey wastewater to STMWRF. The Steamboat Lift Station currently conveys approximately 1.5 MGD (average day) sanitary sewer flows to STMWRF for treatment and effluent management.

The Steamboat Lift Station was commissioned in 1991 with minor improvements completed in 2003 and 2007 and with a single force main. The lift station currently has a firm capacity of 4.1 MGD, and the existing force main has a firm capacity of 6.3 MGD. The storm events from the winter of 2017 indicated that the existing lift station may not have capacity to withstand a peak wet weather storm. In 2017-2018, a flow monitoring and hydraulic modeling analysis for the entire South Truckee Meadows sanitary collection system was completed by Carollo Engineers Inc. The finding indicated that the lift station needs to be either upgraded or replaced with a new lift station with a firm capacity of 9.5 MGD together with a new 20-inch force main. The new force main will become the primary force main, with the exiting force main becoming backup.

Stantec will provide a feasibility level analysis which will include a wetlands delineation, a geotechnical study, a topographic survey of the area, alternatives for the lift station upgrade, a force main alignment alternatives analysis and cost estimates for both the lift station and force main alternatives. An alternatives analysis workshop will be conducted to assist County staff and Stantec in selecting the best alternatives. It is anticipated that another consulting services contract with Stantec will be required for the final design and bidding and construction services.

FISCAL IMPACT

Sufficient funds and budget authority for the \$176,804 Consulting Engineering Services Agreement exist in the Utilities Fund (566) in project WR495132 account 710100 (Professional Services). Revenues in support of the Steamboat Lift Station Upgrade project are provided from sewer rate charges (50%) and developer sewer connection fees (50%).

RECOMMENDATION

It is recommended the Board of County Commissioners approve an Agreement for Consulting Engineering Services between Washoe County and Stantec Consulting Services Inc., to provide feasibility study engineering services for the Steamboat Lift Station Upgrade project within the South Truckee Meadows Water Reclamation Facility service territory [\$176,804].

POSSIBLE MOTION

Should the Board agree with staff's recommendation, a possible motion would be:
"Move to approve an Agreement for Consulting Engineering Services between Washoe County and Stantec Consulting Services Inc., to provide feasibility study engineering services for the Steamboat Lift Station Upgrade project within the South Truckee Meadows Water Reclamation Facility service territory [\$176,804]."