



WASHOE COUNTY

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STAFF REPORT

BOARD MEETING DATE: January 11, 2022

DATE: November 4, 2021

TO: Board of County Commissioners

FROM: Alan Jones, Sr. Licensed Engineer, Engineering and Capital Projects
Community Services Department, 954-4651, ajones@washoecounty.gov

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

SUBJECT: Recommendation to approve Amendment No. 1 to Agreement for Professional Consulting Services between SB Engineering and Washoe County for additional engineering design services for the Phase 2 – Veterans Parkway to Hidden Valley Regional Park – Effluent Expansion Project [in the additional amount of \$245,246 for a total contract amount of \$445,161.00]. The additional professional services include the design for new irrigation services, on-site irrigation pumps, structural retaining walls along with the necessary electrical, geotechnical and structural engineering services. (Commission District 2.)

SUMMARY

The South Truckee Meadows Water Reclamation Facility (STMWRF) is permitted by the State of Nevada to discharge treated effluent for irrigation and construction water purposes only. In response, Washoe County continues to manage the production and disposal of treated effluent through rigorous planning and engineering approaches. These approaches focus on the establishment of new irrigation customers, maintaining existing irrigation customers, and the development of alternative engineering solutions that bring the lowest cost and highest value to Washoe County's sanitary sewer customers.

In alignment with these management approaches, County staff identified an opportunity to extend an effluent pipeline and construct a storage tank for future effluent use in the Hidden Valley area. Design and construction of Phase 1 was completed in the summer of 2021. Phase 1 of the project included the necessary survey and mapping, portions of the necessary geotechnical field investigations, NDEP permitting services, BLM land permitting services, special use permit services, and preparation of a final design and specifications for bidding of the extension of the reclaim water line to near Veterans Parkway. Phase 1 also included preliminary alignments and design requirements to continue the pipeline to the Hidden Valley Regional Park. After the appropriate input from the community and Parks Planning Board, Phase 2 of the project provides final design of the effluent pipeline from Veterans Parkway to the Hidden Valley Regional Park and includes the necessary final design efforts for the required earth retaining

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structures and walls for the effluent storage tank, access roadway and pipeline extensions as well as the on-site irrigation services, pumps and controls.

Washoe County Strategic Objective supported by this item: Economic Impacts: Plan for expanded wastewater and stormwater.

PREVIOUS ACTION

On May 18, 2021, the Board of County Commissioners (Board) approved the FY2022 Budget and Capital Improvements Plan for Fiscal Years 2022-2026.

On September 22, 2020, the Board approved a Professional Consulting Services Agreement between SB Engineering and Washoe County for engineering design services for the Phase 2 – Veterans Parkway to Hidden Valley Regional Park – Effluent Expansion project in the amount of \$199,915.

On June 23, 2020, the Board approved a Professional Consulting Services Agreement between Farr West Engineering and Washoe County for engineering design services for the Hidden Valley Regional Park – Effluent Disposal Facility Phase I project in the amount of \$401,000.

On May 19, 2020, the Board approved the Capital Improvements Plan for Fiscal Years 2021-2025.

On May 21, 2019, the Board approved the Capital Improvements Plan for Fiscal Years 2020-2024.

BACKGROUND

The South Truckee Meadows Water Reclamation Facility (STMWRF) currently provides non-potable reuse water for over 335 customer accounts located in the South Truckee Meadows service area. The highly treated effluent is used to irrigate commercial and residential areas, parks, schools, and golf courses. Due to the continued growth in the South Truckee Meadows service area, the average annual influent flows to the STMWRF continue to increase and in response, staff continues to develop the highest value and lowest cost options to manage and expand the use of this highly valuable resource, preserving critical potable water resources so they can be used for drinking water and water quality purposes. These high-value, low-cost options include maximizing the use of highly treated effluent for irrigation and construction water and, in the case of Hidden Valley, developing rapid infiltration basins (RIB) within the Hidden Valley Regional Park property that could be used a year-round as an effluent disposal option to help in the effluent management of the system.

County staff has identified the need for a pipeline and storage tank for this future effluent in the Hidden Valley area. Phase 1 of the project included a pipeline from the South Truckee Meadows Water Reclamation Facility along Alexander Lake Road to the proximity of Veterans Parkway. This project was completed in the Summer of 2021. The next phase, Phase 2, of the effluent expansion project brings the pipeline from Veterans

Parkway to the Hidden Valley Regional Park and will include a water storage tank located within the Hidden Valley Regional Park.

FISCAL IMPACT

Sufficient funds and budget authority in FY2022 for the additional \$245,246 exist in the Utilities Fund (566), Effluent Distribution Exp-Ph 2 Veterans to Hidden Valley Regional Park (WR860112), Professional services (710100). Revenues in support of this project are provided from sewer connection fees.

RECOMMENDATION

It is recommended that the Board of County Commissioners approve Amendment No. 1 to Agreement for Professional Consulting Services between SB Engineering and Washoe County for additional engineering design services for the Phase 2 – Veterans Parkway to Hidden Valley Regional Park – Effluent Expansion Project [in the additional amount of \$245,246 for a total contract amount of \$445,161.00]. The additional professional services include the design for new irrigation services, on-site irrigation pumps, structural retaining walls along with the necessary electrical, geotechnical and structural engineering services.

POSSIBLE MOTION

Should the Board agree with staff's recommendation, a possible motion would be. "Move to approve Amendment No. 1 to Agreement for Professional Consulting Services between SB Engineering and Washoe County for additional engineering design services for the Phase 2 – Veterans Parkway to Hidden Valley Regional Park – Effluent Expansion Project [in the additional amount of \$245,246 for a total contract amount of \$445,161.00]. The additional professional services include the design for new irrigation services, on-site irrigation pumps, structural retaining walls along with the necessary electrical, geotechnical and structural engineering services."