Board Operations and Engineering Committee
September 24, 2020

SUBJECT:

Approve and Authorize Award of a Professional Service Contract to HDR, Incorporated (HDR) ($152,900) for the Warm Springs Creek Sewer Crossing Erosion Mitigation Preliminary and Final Design and an Additional Appropriation of $392,900

BACKGROUND:

District staff is advancing a sewer protection and erosion mitigation project for a sewer installed across the Warm Springs Creek in 2004. The sewer serves approximately 850 homes and the Daniel N. Buchanan Elementary School in the City of Murrieta. The sewer alignment originates at Manzanita Street within a residential neighborhood and traverses undeveloped land where it crosses underneath the Warm Springs Creek before discharging into the Warm Springs Creek Interceptor sewer (Exhibit A). Storm events have caused damage and loss of erosion protection measures provided by articulating concrete block (ACB) installed on top of the sewer and the concrete encasement surrounding the sewer.

In August of 2020, staff administratively awarded a contract to HDR, Inc. (HDR) to perform a hydrologic assessment of the creek and an appropriation in the amount of $88,820. HDR found flow velocities within the creek can exceed those recommended for the application of ACB as an erosion mitigation measure. The damage to the ACB and the effects of head cutting downstream into the concrete encasement is an urgent issue that will need to be addressed on an expedited basis.

The work will involve replacing the current erosion mitigation measures with engineered rip rap within the highwater mark of established stream bed. Environmental planning and permitting will include coordination with the U.S. Army Corps of Engineers, Regional Water Quality Control Board, California Department of Fish and Wildlife, and Riverside County Flood Control and Water Conservation District.

Staff negotiated a fee in the amount of $152,900 with HDR to perform the preliminary and final design services for the project (Exhibit B). HDR was competitively selected as part of the District's on-call list of engineering consultants and has successfully performed similar services for the District including work on the Calle Medusa Sewer Protection and Erosion Mitigation project.

Staff requests an additional appropriation in the amount of $392,90 to fund the project through final design including survey, geotechnical, and initial environmental planning and permitting effort as identified within the Project Cost Estimate (Exhibit C).

FINANCIAL IMPACT:

This project will be financed from the Sewer Replacement/System Betterment Fund.

STRATEGIC PLANNING GOAL/OBJECTIVE:

Ensure all water supplies protect the health and safety of the community and the environment and meet all regulatory requirements.

ENVIRONMENTAL IMPACT:

This project is subject to the California Environmental Quality Act (CEQA). In conformance with the California Code of Regulations Title 14, Chapter 3, Section 15004, the appropriate environmental document will be prepared when "meaningful information" becomes available.
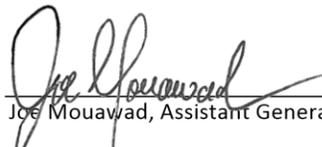
RECOMMENDATION:

Approve and authorize the following:

1. Execution by the General Manager, or his designee, of the District's standard form of contract with HDR, Incorporated of San Diego, California, for the Warm Springs Creek Sewer Crossing Erosion Mitigation project; in the amount of $152,900;

2. Administrative Award and Execution by the General Manager, or his designee, of the District's standard form of contracts with the necessary consultants and suppliers for engineering support to complete the Warm Springs Creek Sewer Crossing Erosion Mitigation project preliminary and final design; and

3. Additional appropriation in the amount of $392,900.

SUBMITTED BY:

_____   _____
Paul D. Jones II P.E., General Manager   9/17/2020   Joe Mouawad, Assistant General Manager   9/14/2020

Attachment(s):
Exhibit A - Location Map
Exhibit B - Consultant Proposal
Exhibit C - Project Cost Estimate
Presentation

4592

10/07/20   Board Meeting

Staff Contact: Erik Jorgensen