



DATE: March 20, 2018

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Water and Sanitary Sewer Main Replacement Crossing U.S. 101, Project 16-61 – Authorize Design Services**

RECOMMENDATION

Authorize the City Manager to execute a professional services agreement with AECOM in a not-to-exceed amount of \$694,080 to design and prepare construction documents for Water and Sanitary Sewer Main Replacement Crossing U.S. 101, Project 16-61.

BACKGROUND

The City's 2010 Water and Sewer System Master Plans recommended the study of three critical crossings at U.S. 101 and State Route 85. These crossings are: Shoreline Boulevard at U.S. 101, State Route 85 between Stevens Creek and San Leandro Avenue, and Rengstorff Avenue at U.S. 101. The water and sewer mains at the crossings are all nearing the end of their useful lives and located under freeways with accessibility and reliability problems. The pipelines will also be sized to handle the development in the North Bayshore.

In 2014, the City released a Request for Proposal (RFP) to seven firms to assist in the preparation of an alignment and constructability alternatives study, which includes preliminary design for these crossings. The City selected AECOM (previously URS Corporation Americas) and executed a contract for the required engineering services. Subsequently, AECOM completed the alignment and constructability study and evaluated different alternatives. AECOM also prepared preliminary geotechnical and environmental screenings to identify key project impacts to be considered during project design. The final work product was 35 percent design plans for the preferred utility alignments.

One of the three utility crossings, Shoreline Boulevard at U.S. 101, is ready to move forward to design. During the last few years, staff has been coordinating the rights-of-way needed to construct the project. This includes meetings with Caltrans, the Valley

Transportation Authority (VTA) and the developments at 1001 North Shoreline Boulevard and 1075 La Avenida (Microsoft).

The preferred new alignment on North Shoreline Boulevard will run from the north end of the 1001 North Shoreline Boulevard development (near the U.S. 101 southbound on-ramp) across U.S. 101 to VTA's North Yard. The mains would then continue easterly on La Avenida, northerly on Inigo Way, and westerly on Pear Avenue to North Shoreline Boulevard (see Figure 1). The City's goal is to complete as much of the anticipated utility work as possible prior to transportation improvements such as the U.S. 101 Off-Ramp Modification at Shoreline Boulevard and other private development.



Figure 1

A new water main is also proposed at San Rafael Avenue to ensure reliability of water conveyance to the North Bayshore Area. The new water main will cross U.S. 101 and proceed through the Microsoft Campus, connecting to the existing main on Macon Avenue (see Figure 1). This new water main is included in the Shoreline Boulevard utility crossing project design because it is located just south of Shoreline Boulevard and requires similar design, permitting, and construction (bore and jack under U.S. 101) efforts.

ANALYSIS

Because of their familiarity with the project and having completed the 35 percent design plans, staff recommends awarding the next design phase to AECOM, which was selected through a competitive process in the award of the design contract. AECOM is currently working on the U.S. 101 Off-Ramp Modification at Shoreline Boulevard project with Caltrans, which would impact the proposed City utility project. Their experience in coordinating with Caltrans and VTA for permits and right-of-way will be beneficial to the proposed project.

The not-to-exceed design contract amount of \$694,080 includes \$561,508 for basic design services, including reimbursables, \$69,472 for postdesign/construction support (subtotal \$630,980), and a \$63,100 contingency for unforeseen items. The recommended fees are within the range typically charged for such services, and staff considers the fees to be fair and reasonable.

If the recommended actions are approved, AECOM could begin design in April 2018 and be complete by December 2018.

FISCAL IMPACT

The design of Water and Sewer Main Replacement Crossing U.S. 101, Project 16-61, is funded with \$600,000 and \$200,000 from the Water and Wastewater Funds, respectively, for a total of \$800,000. There are sufficient funds in the project budget to fund the recommended agreement.

ALTERNATIVES

1. Do not approve the recommended contract and direct staff to issue a Request for Proposals.
2. Do not proceed with the project at this time.
3. Provide other direction.

PUBLIC NOTICING – Agenda posting.

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TST/2/CAM
942-03-20-18CR-E

Attachment: 1. AECOM Design Services Proposal – Scope of Services and Fee Schedule

cc: APWD – Solomon, APWD – Hosfeldt, USM – Turner, PCE – Arango, PCE – Au, PCE – Macaraeg, TE – Fakhry, SCE – Cervantes, SCE – Chang, SCE – Chou, SCE – Muench, SCE – Tseng, AAI – Goedicke, AAI – Doan, File (16-61)