



DATE: March 25, 2014

CATEGORY: Consent

DEPT.: Public Works

TITLE: Alignment and Constructability Study for Replacement of Critical Utility Crossings at Highways 101 and 85, Project 12-38 – Authorize Design Professional Services Contract

RECOMMENDATION

Authorize the City Manager to execute a standard design services contract with URS Corporation Americas of San Francisco in a not-to-exceed amount of \$107,750 to provide civil engineering services to prepare an Alignment and Constructability Study for Replacement of Critical Utility Crossings at Highways 101 and 85.

BACKGROUND

The City's 2010 Water and Sewer System Master Plans recommended the study of three sections of water and sewer mains for replacement (see Figure 1).

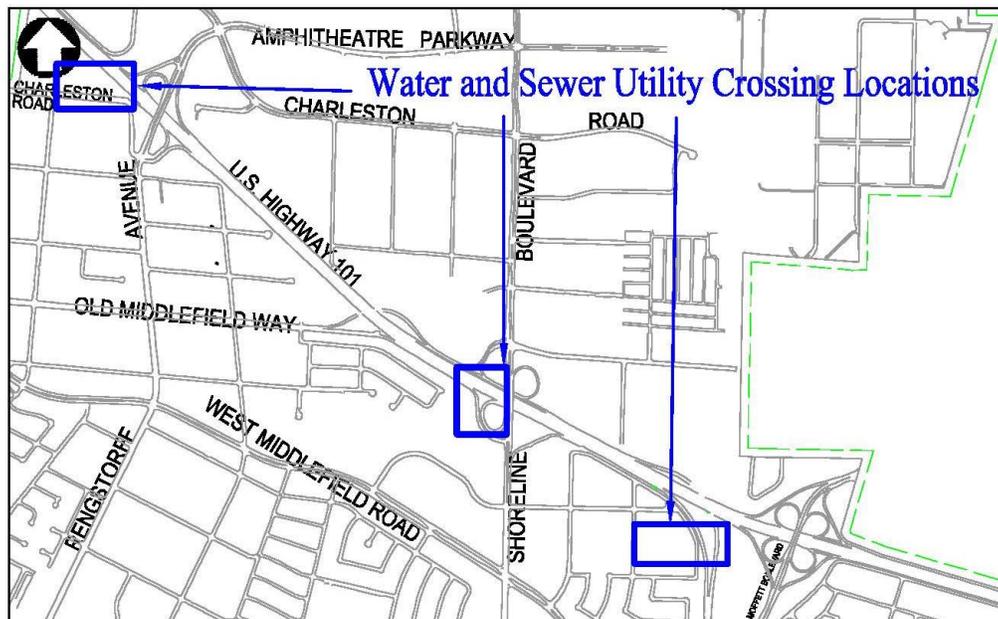


Figure 1

1. Shoreline Boulevard at Highway 101

The existing 12" water main and 18" sanitary sewer mains cross Highway 101, east of the Shoreline Boulevard overcrossing. Due to age, condition, and accessibility problems, both mains require replacement and relocation.

2. Highway 85 between Stevens Creek and San Leandro Avenue

One 15" and one 16" sewer main cross Highway 85 from Stevens Creek to San Leandro Avenue. Due to the age and poor condition of the 15" main and flow problems with the 16" main, these two mains are in need of replacement. They may need to be relocated as the east ends of the mains are along the levee of Stevens Creek as well as the heavily used Stevens Creek Trail. The sewer mains are also in close proximity to a Pacific Gas and Electric tower.

3. Rengstorff Avenue at Highway 101

An existing 14" water main crosses Highway 101 west of the Rengstorff Avenue overpass. The water main crosses the freeway in an off-angle (not close to 90 degrees), including the crossing of a freeway entrance, and is only partially encased under the freeway; these design features do not conform to current Caltrans standards. The northern connection for the crossing is located within an easement on private property. Due to reliability and accessibility issues, this water main is in need of relocation.

The mains are all nearing the end of their useful lives and are located in challenging locations near freeways. Unlike most water and sewer mains, replacement in the current locations may not be the best option due to limited access and other challenges. The recommended studies will evaluate and determine the most practical and cost-effective method for replacement of these lines. Alternative alignments will be examined and right-of-way, permitting, and other challenges will be identified.

ANALYSIS

In January 2014, a Request for Proposals (RFP) for engineering services was issued to seven firms to assist in the preparation of alignment and constructability alternatives for the pipelines described above. Some of the firms were from an approved consultant eligibility list for utility replacement and rehabilitation projects established in November 2011, and a few other firms were added for their water/wastewater pipeline expertise.

A review panel of Public Works staff deemed URS Corporation Americas (URS) of San Francisco the best-qualified firm based on the merits of their proposal, experience, and demonstrated competence. URS has extensive experience working on utility projects along Caltrans rights-of-way, including a Highway 101/Shoreline Boulevard utility overcrossing project. URS' proposed scope of services and fees for the project is provided in Attachment 1. The recommended fees are within the range typically charged for such services, and staff considers the fees to be fair and reasonable.

With the approval of this contract, URS could begin the project in May 2014. The study is scheduled to be completed by November 2014.

FISCAL IMPACT

The Alignment and Constructability Study for Utility Crossing Replacements at Highways 101 and 85, Project 12-38, is funded with \$67,000 from the Water Fund and \$67,000 from the Wastewater Fund, respectively, for a total of \$134,000. The not-to-exceed contract amount of \$107,750 includes \$92,750 for basic services, including reimbursables, and a contingency in the amount of \$15,000. The project budget is adequate to fund the recommended agreement.

ALTERNATIVES

Do not approve the recommended contract and direct staff to issue a Request for Proposals to a larger number of engineering firms.

PUBLIC NOTICING – Agenda posting.

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Approved by:

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LA/2/CAM
911-03-25-14CR-E

Attachment: 1. URS Corporation Americas – Scope of Work and Fees

cc: URS Corporation
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San Jose, CA 95113

APWD – Solomon, USM, WS – Medina, WS – Mulhearn, SCE – Muench,
AA – Grimm, F/c (12-38)