

MEMORANDUM

TO: Donna Barron, City Manager

VIA: Keith Marvin, P.E., Director of Public Services

FROM: Karen Emadiazar, Utilities Manager

DATE: November 5, 2018

SUBJECT: **Approval of a Memorandum of Agreement with the United States Department of the Army for Additional Work During Construction of the Lewisville Dam Safety Modifications; and Authorize the City Manager to Execute the Agreement.**

BACKGROUND

The United States Army Corps of Engineers (USACE) has developed improvement strategies for the Lewisville Lake Dam and has requested that the City relocate portions of its two raw water pipelines, in order to implement the Lewisville Lake Dam improvements. Two segments of the City's 30 and 36-inch pipelines which provide untreated lake water to the City's Water Treatment Plant, will need to be set back 200 feet from the toe of the dam. In November 2016, the City began design of the relocation and new pipe alignment. The City has coordinated the construction efforts with the USACE, with the relocation construction to be performed as additional work in connection with the federally funded improvements to the Lewisville Dam. The Memorandum of Agreement provides a method to provide funding for the City's portion of the larger USACE project and sets out the obligations and responsibilities of each party.

ANALYSIS

In July 2018, the final project design was completed by HDR Engineering, Inc. for the relocation of the two raw water pipelines. HDR Engineering services will also be used to track project progress and coordinate with the USACE during the bid and construction phases of the project.

The Memorandum of Agreement provided by the USACE, provides for the replacement, removal and disposal of approximately 1700 linear feet of water supply line located on Government property, Easement No. DACW63-2-18-0731. The agreement allows for the provision of the current construction estimate of \$3,293,312.00 and authorizes the government to accept and expend these funds to carry out the additional work for the relocation of the Lewisville raw water lines.

The USACE is currently in the process of bidding the construction of the project, including the relocation of the raw water lines which should be accomplished at the beginning of the construction. The USACE anticipates the award of the contract in March 2019. This contract will

be the first of three contracts associated with the Dam Safety Modifications. This contract is anticipated to take 24 months for construction, with the water line work being done early in the contract. Construction of all three contracts is anticipated to take approximately seven years.

Construction under the first contract will have the most impact to the LLELA operations. Jones Street will become a haul route for construction traffic from the outlet works to east of the gatehouse. A parallel temporary access road will be built to allow patrons to reach the pavilion, trails, campground, and the outlet though use of these areas may be limited due to construction. Upon completion of the first project, Jones Street will be restored but there may continue to be impacts on activities at LLELA due to construction.

Funding is available in the Capital Improvement Project account for project U1701 – Water Line Replacement South of Dam.

RECOMMENDATION

It is City staff's recommendation that the City Council approve the amendment as set forth in the caption above.