

# Mayor and Council Communication

**DATE:** 04/13/21

**M&C FILE NUMBER:** M&C 21-0284

**LOG NAME:** 6051521&53101ADDFUNDING

**SUBJECT**

(CD 4) Adopt the Attached Appropriation Ordinance in the Amount of \$1,127,093.00 for Increased Project Costs for the Emergency Sewer Work and Engineering Design for Trinity River Bank Erosion Affecting M-280-B and M-338-B

**RECOMMENDATION:**

It is recommended that the City Council adopt the attached appropriation ordinance adjusting receipts and appropriations in the Sewer Capital Legacy Fund by increasing receipts and appropriations in the Emergency Sewer Erosion project (City Project No. 102346) in the amount of \$1,127,093.00, and by decreasing receipts and appropriations in the Unspecified project (City Project No. UNSPEC) by the same amount.

**DISCUSSION:**

The purpose of this Mayor & Council Communication (M&C) is to provide necessary additional funding for increased project costs for the Trinity River Bank Slope Stabilization project to protect the two 90-inch diameter West Fork trunk sewer mains, identified as mains M-280-B and M-338-B.

In the spring of 2016 significant erosion of the Trinity River streambank occurred due to heavy rains and upstream reservoir releases. The streambank erosion jeopardized the stability of the two 90-inch diameter West Fork collector sewer lines, which convey a significant portion of Fort Worth's wastewater to the downstream Village Creek Water Reclamation Facility. An emergency memo was routed on June 7, 2016, for preliminary bank stabilization while emergency engineering design by DeOtte Engineering commenced. On September 26, 2017 (M&C C-28407), City Council authorized the execution of a contract (City Secretary Contract No. 49826) with Humphrey & Morton Construction Company, Inc. (HMCCI), in the amount of \$1,867,535.00, for construction of a reinforced concrete wall with rock gabion baskets to stabilize the streambank and protect the West Fork collector sewer lines based on the emergency design. However, additional heavy rains which occurred in the fall of 2018 and spring of 2019 resulted in additional erosion of the streambank necessitating additional emergency work which both Circle C Construction Company (City Secretary Contract No. 51472) and HMCCI (City Secretary Contract No. 51521) (10/17/18 emergency memo) were engaged to conduct improvements, consisting of additional steel sheet pile cutoff wall with anchored tiebacks to reinforce the streambank and provide temporary support for the collector sewer lines.

The erosion that occurred in 2018 and again in 2019 resulted in substantially changed conditions, rendering the original DeOtte Engineering design no longer workable, leading to the mutual decision to terminate City Secretary Contract No. 49826. On April 7, 2020, (M&C 20-0161) the City Council authorized the termination of City Secretary Contract No. 48926 with Humphrey and Morton Construction Company, Inc. for slope stabilization of sanitary sewer mains M-280-B and M-338-B. The changed conditions required additional engineering and design, this time provided by Freese and Nichols, Inc. (City Secretary Contract No. 53101), including flow deflection structures along the lower portion of the stream bank to prevent the river from moving towards the twin 90-inch pipes. The upper portion of the stream bank will be protected with large rock riprap and feature a cast-in-place concrete wall to restore the cover around the pipes to original design conditions. Staff engaged HMCCI to construct the revised repairs under the existing emergency contract (City Secretary Contract No. 51521).

Subsequent rainfall events have resulted in additional erosion necessitating increased quantities of rock, flowable fill, and embankment material. In addition, it was necessary to drill down an average of 7 more feet than anticipated at each of the 72 pier locations which support the pier cap and wall. Additional construction assistance is also necessary on the project.

Appropriations for slope stabilization of sanitary sewer mains M-280-B and M-338-B are as depicted below:

Fund	Existing Appropriations	Additional Appropriations	Project Total*
W&S Capital Projects - Fund 56002	\$2,315,031.00	\$0.00	\$2,315,031.00
Sewer Capital Fund - Legacy 59607	\$17,207.00	\$1,127,093.00	\$1,144,300.00
Water & Sewer Bond 2017A - Fund 56011	\$1,695,823.00	\$0.00	\$1,695,823.00
<b>Project Total</b>	<b>\$4,028,061.00</b>	<b>\$1,127,093.00</b>	<b>\$5,155,154.00</b>

\*Numbers rounded for presentation purposes.

This action will have no effect on the Water Department's operating budget when complete.

The project is located in COUNCIL DISTRICT 4.

A Form 1295 is not required because: This M&C does not request approval of a contract with a business entity.

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**FISCAL INFORMATION / CERTIFICATION:**

The Director of Finance certifies that funds are currently available in the Unspec Project within the Sewer Capital Legacy Fund and upon approval of the above recommendation and adoption of the attached appropriation ordinance, funds will be available in the Sewer Capital Legacy Fund for the HM Twin 90inch M-280B & M-338B project. Prior to an expenditure being incurred, the Water Department has the responsibility of verifying the availability of funds.

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Expedited