



## MEMORANDUM

**To:** Mayor and City Council

**From:** Aaron Tainter, P.E., Assistant Director of Public Works  
Mike Garza, P.E., Director of Public Works

**Date:** December 12, 2023

**Reference:** Consider approval for award of a design contract to Walter P. Moore; for construction plans of stabilization measures for two sections of streambank along Tributary G-1 of Grapevine Creek, and hydraulic modeling of the creek for a Federal Emergency Management Agency (FEMA) Letter of Map Revision (LOMR) floodplain update; in the amount of \$178,840; as budgeted in the Drainage Utility District Fund (DUD Fund); and authorizing the City Manager to sign any necessary documents.

**2040:** Sustainable Government

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### Introduction:

The purpose of this agenda item is to request approval of a design contract to Walter P. Moore in the amount of \$178,840 for construction plans of stabilization measures for two sections of streambank along Tributary G-1 of Grapevine Creek, and hydraulic modeling of the creek for a Federal Emergency Management Agency (FEMA) Letter of Map Revision (LOMR) floodplain update and authorizing the City Manager to sign any necessary documents.

### Background:

In 2011, the Parks Department completed what was referred to as Phase 1 of the erosion control project for Tributary G-1 of Grapevine Creek through Hunterwood Park, which consisted of gabion retaining wall structures along the north bank around the playground area.

In 2019, the Public Works Department completed what was referred to as Phase 2 of the erosion control project for Tributary G-1 of Grapevine Creek through Hunterwood Park, which included new trails and streambank stabilization downstream (east) of the new trail low-water crossing at the Hunterwood Court trail entrance.

The scope of this project includes design of stabilization measures for two sections of streambank where erosion has been observed along the south bank.

Also included in the scope of this project is hydraulic modeling of the creek for a FEMA LOMR

floodplain update. This mapping update will more accurately delineate flood risk in our community.

This award represents the design only. The award for construction will be presented at a subsequent meeting.

Unlike other creeks in the City, the City has the responsibility to maintain this creek because it is located in a City Owned Park.

The proposed design contract includes \$142,800 for Basic Services (Design Engineering and Construction Admin), and an additional \$36,040 for Special Services (Survey, Geotech, and Environmental Jurisdiction Determination), for a total of \$178,840.

**Benefit to the Community:**

To provide Sustainable Government the streambank stabilization measures will protect the Hunterwood Park trail facilities, prevent erosion and reduce downstream sedimentation. The hydraulic modeling and FEMA LOMR mapping update will more accurately delineate flood risk in our community.

**Legal Review:**

Standard professional services agreements are periodically reviewed by the City legal department.

**Fiscal Impact:**

The fiscal impact of this agenda item is \$178,840 as budgeted in the Drainage Utility District Fund (DUD Fund).

**Recommendation:**

The Public Works Department recommends approval of this contract.