Legislation Text

File #: 2018-5849, **Version:** 1

Consider a resolution authorizing the Mayor to execute a Contract for Engineering Services with AECOM for the Creek Stormwater Modeling 2018-2020 Work Authorization.

The proposed Creek Stormwater Modeling 2018-2020 Work Authorization Contract for Engineering Services with AECOM is necessary to continue the support of City staff by developing and performing floodplain modeling; a previous work authorization contract (Creek Stormwater Modeling 2016-2018) that initiated this work has been exhausted and has expired.

AECOM previously developed floodplain models on behalf of the Upper Brushy Creek Water Control and Improvement District. Those models have been submitted to FEMA for adoption as a Physical Map Revision (PMR). Once approved, the PMR will be adopted and new Floodplain maps will be issued by FEMA for use under the National Flood Insurance Program (NFIP).

FEMA models are limited and only address floodplains where the upstream drainage area is significantly large, typically on the order of one square mile. The City's higher standards protects the public from all creeks floodplains with drainage areas of 50 acres or more. Currently, the development community bears the burden of extending and/or developing models to determine the floodplain where updated and/or detailed modeling has not been performed. This contract will expand on the previously developed and submitted FEMA models to encompass areas within the City that are outside the limits of the FEMA data. The expanded models will be of the same detail and methodology as the FEMA models, and will significantly improve efficiency of regulatory efforts, analysis, and infrastructure assessment regarding our City's creeks and major drainageways; and will help unify and standardize floodplain data for our community.

The services to be provided under the contract will generally consist of work required to perform detailed stormwater drainage analyses, including but not limited to the following: hydrologic and hydraulic analyses and modeling; surveying; floodplain mapping; and capacity analyses of un-studied creek tributaries or other areas identified by the City.

Funding for these services will be identified from budgeted professional services, regional detention funds, or other approved source prior to development and execution of each work authorization under the contract.

Cost: $150,000
Source of Funds: Drainage Fund