



## Legislation Text

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**File #:** 20-0563, **Version:** 1

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### ..Title

Consider and take action on a resolution authorizing a professional services agreement with Gauge Engineering, LLC. for design work related to the Leisure Lane & Orange Grove Area Drainage Study (DR2102) in an amount not to exceed \$104,905 (Director of Engineering)

Council postponed 7-1-0 on November 10, 2020.

Approval of this resolution will authorize the City Manager to enter into an agreement with Gauge Engineering, LLC. (Gauge) for a drainage study in the Leisure Lane and Orange Grove area in an amount not to exceed \$104,905.

The roadside ditch system along Orange Grove between Meadowlark Lane and Weeks Ave and Leisure Lane between League City Parkway and the area south of Orange Grove have a history of overflowing during extreme rain events. The residential homes in this area were primarily designed and constructed under older drainage standards meaning that the existing open ditch storm system is undersized. During medium to large rainfall events, these issues can lead to flooding of roadways, and in extreme issues can lead to structural inundation.

Staff has been working with Gauge to develop the drainage study scope which can be broken down into 4 categories:

1. Management & Coordination - this category includes general project management, such as schedule, coordination meetings, quality control and 1 public meeting to discuss the findings of the completed study with the community.
2. Data Collection & Survey - this category includes data collection by using available LiDAR, rain gauge data, GIS data, and plan of record drawings of the area (As-Builts). Upon reviewing this data, additional on-site visits and some selected surveying may be needed. If that is the case, these activities would fall under this category.
3. Hydrologic & Hydraulic Analysis (H&H) - this category will develop a model of the existing conditions to determine the current level of service, identify problem areas and identify the specific cause(s) of flooding for each problem area and develop an proposed condition model to determine the effectiveness of potential drainage improvements within the project area.
4. Study Report & Results Summary - this category will cover the report detailing the findings of the H&H, planning level cost estimates, and potential ROW needs.

This drainage study is estimated to take 152 calendar days to complete. All portions of this PSA will be considered "Time Critical" and as a result could be subjected to Liquidated Damages if needed.

### Attachments:

1. Data Sheet
2. Proposed Resolution
3. PSA for Leisure Lane & Orange Grove Area Drainage Study
4. Leisure Lane - Orange Grove DS Memo
5. Aerial Map

CONTRACT ORIGINATION: Professional Services Agreement reviewed and approved by City Attorney's Office

### FUNDING

{X} Funds in the amount of 104,905 are available from 2017 CO Fund 5240 with expenses charged to DR2102-PLANDESIGN-STUDY-2017CO (52403300-53050)

STRATEGIC PLANNING

{X} Addresses Strategic Planning Critical Success Factor #1 - Develop & Maintain our Infrastructure