



Legislation Details (With Text)

File #: 19-0679 **Version:** 1 **Name:** Bay Ridge Flood Reduction Project Phase Ia PSA
Type: Agenda Item **Status:** Approved
File created: 12/4/2019 **In control:** Engineering
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Title: Consider and take action on a resolution authorizing a professional services agreement with LJA Engineering, Inc. (LJA) for design work related to the Bay Ridge Flood Reduction Project, Phase Ia (DR2004) in an amount not to exceed \$240,000 (Director of Engineering)

Sponsors:

Indexes:

Code sections:

Attachments: 1. Data Sheet, 2. Proposed Resolution, 3. Exhibit A - Agreement with LJA Engineering, Inc., 4. Staff Report Card on LJA, 5. CIP Project Sheet, 6. Aerial Map

| Date | Ver. | Action By | Action | Result |
|------------|------|--------------|----------|--------|
| 12/17/2019 | 1 | City Council | Approved | Pass |

Consider and take action on a resolution authorizing a professional services agreement with LJA Engineering, Inc. (LJA) for design work related to the Bay Ridge Flood Reduction Project, Phase Ia (DR2004) in an amount not to exceed \$240,000 (Director of Engineering)

Approval of this resolution will authorize the City Manager to enter into an agreement with LJA for preliminary design and recommendations for improvements to the existing levee around the perimeter of the Bay Ridge Subdivision for an amount not to exceed \$240,000.

In the aftermath of the Hurricane Harvey flooding, City Staff began working with LJA to conduct a high level Hydrologic & Hydraulic (H&H) Study of areas within the Gum Bayou Watershed and the Bay Ridge Subdivision. A contract was executed with LJA in October 2017. On March 22, 2018, City Staff and LJA held a public meeting to go over the preliminary findings of the study and to discuss potential improvements to help reduce flooding within this area. In August 2018, the final report was presented to City Council during a Council Work Session. One of the areas of concern discussed during the public meeting and again when presenting to Council was the subdivision’s drainage system deficiencies related to the existing detention pond.

Based on the LJA Study, City Staff created a potential drainage improvement project. This project was included as part of a list of potential drainage projects outlined on the City’s recently passed May 2019 General Obligation Bond Referendum.

For this contract, LJA will provide engineering services for the preliminary design along with recommendations for improvements to the existing levee around the perimeter of the Bay Ridge Subdivision. This PSA will allow for the following:

- Levee Evaluation Study. This study will include a geotechnical report that helps determine the height, width, and slope stability to meet FEMA certification requirements and design recommendations for levee improvements. The study will also update the existing model with Atlas 14 rainfall intensities.
- Preliminary Design Services. These services included any needed surveying, site visits, preparation of a preliminary design of the proposed drainage improvements (30% construction plans) along with a preliminary construction cost estimate.
- Public Meetings. Up to three (3) public meetings are planned for this project.

The total anticipated cost for these preliminary services is \$240,000 and can be completed within 10 months (approximately 42 weeks) of a notice to proceed being issued. Staff recommends executing this PSA as presented.

Once the 30% construction plans are completed, Staff will need to work with LJA on a second PSA that would cover the final design, bidding, and construction services needed to complete the project.

The Bay Ridge Flood Reduction Project, Phase Ia is the fourth and final project of the 4 planned projects impacting the Gum Bayou Water Shed and the Bay Ridge Subdivision. All 4 phases can be considered standalone projects and will provide drainage benefits to residents within these areas.

Attachments:

1. Data Sheet
2. Proposed Resolution
3. Exhibit A - Agreement with LJA Engineering, Inc.
4. Staff Report Card on LJA
5. CIP Project Sheet
6. Aerial Map

CONTRACT ORIGINATION: League City Standard Contract Template for Professional Services

FUNDING

{x} Funds in the amount of \$240,000 are available from 2019 Proposition A - Authorized GO Bonds (\$240,000) with expenses charged to project expense string DR2004-PLAN DESIGN-DESIGN-19 PROP A.

STRATEGIC PLANNING

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