



AGENDA MEMORANDUM

Action Item for the City Council Meeting of October 1, 2019

DATE: August 21, 2019

TO: Peter Zanoni, City Manager

THRU: Mark Van Vleck, Assistant City Manager
markvv@cctexas.com
(361) 826-3082

FROM: Jeff H. Edmonds, P. E., Director of Engineering Services
jeffreye@cctexas.com
(361) 826-3851

Albert Quintanilla, P. E., Director of Street Operations
albertq@cctexas.com
(361) 826-1957

Kim Baker, Director of Contracts and Procurement
kimb2@cctexas.com
(361) 826-3169

Professional Services Contract
Laguna Shores Road (Graham Road to South Padre Island Drive)
&
Laguna Shores Road (Mediterranean Drive to Wyndale Street)

CAPTION:

Motion awarding a contract to LJA Engineering, Inc. for design, bid, and construction phase services for Laguna Shores Road – Graham Road to South Padre Island Drive in the amount of \$304,710 and Laguna Shores Road – Mediterranean Drive to Wyndale Street in the amount of \$466,540 for a total fee of \$771,250, located in City Council District 4, effective upon issuance of notice to proceed, with funding available from Bond 2018, Propositions A & B and the Utility Capital Program.

SUMMARY:

This contract provides for the reconstruction of two sections of Laguna Shores; Graham Road to South Padre Island Drive (SPID) and Mediterranean Drive to Wyndale Street. It includes the design, bid, and construction phase services for establishing a new pavement at a slightly higher elevation with larger storm water culverts (bridges) along the roadway and improvements to underground utilities and street lighting.

BACKGROUND AND FINDINGS:

Bond 2018 included improvements to the following three sections of Laguna Shores:

- Graham Road to SPID (Proposition A)
- Mediterranean Drive to Wyndale Street (Proposition B)
- Caribbean Drive to Hustlin Hornet (Proposition A)

Laguna Shores Road is an existing 2-lane coastal roadway that is experiencing severe pavement distress and failures due to adverse impacts from drainage, tidal flows and vehicular traffic. The roadway experiences frequent closures to one or both lanes with high tides and nominal storm events. The mean high tide is 0.70 feet and the existing roadway elevation is approximately 2.72 feet above sea level. To reduce frequent closures, the roadway must be raised approximately 18-inches. Raising roadway elevation requires increasing the size of the storm water culverts (bridges) to allow water exchange across the roadway. Increasing the size of storm water culverts reduces potential flooding and increases the water exchange that improves adjacent wetland habitats.

The City completed a Bond 2004 reconstruction project that elevated the section of Laguna Shores from Graham to Hustlin Hornet. Those improvements successfully mitigated flooding, while improving water exchange and wetlands. The proposed Bond 2018 street improvements will be consistent with those concepts and improvements completed under Bond 2004.

All three Bond 2018 Laguna Shores Street improvement projects require a United States Army Corps of Engineers (USACE) permit for Improvements Within Existing Wetlands. On August 21, 2019, the City Council approved a design contract for Laguna Shores Street Reconstruction from Caribbean Drive to Hustlin Hornet. That project included the permit requirements for all three projects scheduled for Laguna Shores Road under the 2018 Bond election. Design for the Caribbean Drive to Hustlin Hornet section and the permit are anticipated to be complete in December 2019. All three projects are scheduled to bid in early 2020 as one package with three parts allowing one or more contractors to be awarded a construction contract.

This item provides for design of the remaining two street sections. The new pavement elevation will be approximately 5-foot above mean sea level and includes 4-foot wide paved shoulders on both sides. There will not be curb & gutter or sidewalks. Improvements will address the aging underground utilities and poor street illumination. Included are new embankments with erosion protection and matting to guard the slopes and roadway from tidal surges along the Laguna Madre.

This project provides for reconstruction of two segments of Laguna Shores; Graham Road to SPID and Mediterranean Drive to Wyndale Street. The scope of services is summarized below:

- Field investigations and analysis for the roadway, drainage structures, intersections, driveways and other miscellaneous infrastructure
- Pavement analysis and recommendations
- Roadway embankment hardening to reduce impacts from wave and surge energy from the Laguna Madre
- Detailed utility investigations and recommendations
- Illumination analysis and recommendations
- Coordination of permitting requirements with the USACE (wetlands) and other governmental agencies
- Public outreach and workshops
- Construction sequencing and temporary traffic control planning
- Prepare detailed construction documents
- Bid and construction phase technical support
- Prepare and submit final As-Built drawings to the City

PROJECT TIMELINE:

2019			2020												2021	2022	
O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	J	F
Design					Bid			Construction									

COMPETITIVE SOLICITATION PROCESS:

LJA Engineering, Inc., was selected for design of these two sections of Laguna Shores Road in February 2019 under RFQ 2018-10. Laguna Shores Road was one of thirty-two selections that were announced under the Transportation Category of the RFQ. Fifteen firms submitted under the Transportation Category and thirteen firms were selected. LJA Engineering, Inc., was one of the highest ranked firms in the Transportation Category and the Laguna Shores Road projects were their first and second highest stated preference.

The selection committee with representatives from the Streets Department and Engineering Services ranked LJA Engineering, Inc., qualifications based on five factors: 1) experience of the firm, 2) experience of the key personnel with specific experience with multiple Bond street programs and local utilities, 3) project approach and management plan, 4) capacity to meet the project requirements and timelines, and 5) past performance.

ALTERNATIVES:

Any alternative to awarding the contract will delay the reconstruction of the project and impede Council goals of completing Bond 2018 street projects in a timely manner and within budget.

FISCAL IMPACT:

The project includes Laguna Shores Road street sections listed in both Bond 2018, Proposition A and B as approved by city voters in November 2018. This contract will award design, bid and construction phase services to LJA Engineering, Inc., for Laguna Shores Road - Graham Road to SPID & Laguna Shores Road - Mediterranean Drive to Wyndale Street in the total amount of \$771,250 for both sections, located in City Council District 4, with funding available from Bond 2018, Propositions A and B and Utility Capital Funds. The Street budget for this project is \$414,010 and the utilities total the remaining \$357,240 for a total contract cost of \$771,250.

Funding Detail:

Fund 1: **Street Bond 2019 Bond 18 Part 1 (Fund 3556)**
 Fund 2: **Street Bond 2019 Bond 18 Part 2 (Fund 3557)**
 Mission Elem: Street Pavement Maintenance (ME 051)
 Project No.: Laguna Shores Road - Mediterranean Drive to Wyndale Street (Project #18025A)
 Laguna Shores Road - Graham Road to SPID (Project #18026A)
 Account: Outside Consultants (Account #550950)
 Activity: 18025-A-3556-EXP
 18026-A-3557-EXP

Fund: **Storm Water 2015 Revenue Bond (Fund 4531)**
Mission Elem: Drainage Infrastructure (ME 043)
Project No.: Laguna Shores Road - Mediterranean Drive to Wyndale Street (Project #18025A)
Laguna Shores Road - Graham Road to SPID (Project #18026A)
Account: Outside Consultants (Account #550950)
Activity: 18025-A-4531-EXP
18026-A-4631-EXP

Fund: **Water 2012A Revenue Bond (Fund 4089)**
Mission Elem: Distribute Water (ME 041)
Project No.: Laguna Shores Road - Mediterranean Drive to Wyndale Street (Project #18025A)
Laguna Shores Road - Graham Road to SPID (Project #18026A)
Account: Outside Consultants (Account #550950)
Activity: 18025-A-4089-EXP
18026-A-4089-EXP

Fund: **Wastewater 2012B Revenue Bond (Fund 4249)**
Mission Elem: Wastewater Collection System (ME 042)
Project No.: Laguna Shores Road - Mediterranean Drive to Wyndale Street (Project #18025A)
Laguna Shores Road - Graham Road to SPID (Project #18026A)
Account: Outside Consultants (Account #550950)
Activity: 18025-A-4249-EXP
18026-A-4249-EXP

Fund: **Gas 2009 Revenue Bond 08 GO (Fund 4551)**
Mission Elem: Gas Distribution System (ME 022)
Project No.: Laguna Shores Road - Mediterranean Drive to Wyndale Street (Project #18025A)
Laguna Shores Road - Graham Road to SPID (Project #18026A)
Account: Outside Consultants (Account #550950)
Activity: 18025-A-4551-EXP
18026-A-4551-EXP

RECOMMENDATION:

Staff recommends award of a contract to LJA Engineering, Inc., in the amount of \$771,250 for the design, bid and construction phase services for Laguna Shores Road - Graham Road to SPID & Laguna Shores Road - Mediterranean Drive to Wyndale Street. The design phase will start in October 2019 with completion planned in March 2020. Construction is planned to start late summer of 2020 with anticipation completion February 2022.

LIST OF SUPPORTING DOCUMENTS:

Location Map
Presentation
Contract