



AGENDA MEMORANDUM

Action Item for the City Council Meeting of April 16, 2024

DATE: April 16, 2024

TO: Peter Zaroni, City Manager

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<p style="text-align: center;"><u>Professional Services Contract Award</u> <u>Water Line Extension to Padre Island</u></p>
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CAPTION:

Motion awarding a professional services contract to Ardurra Group, of Corpus Christi, Texas, in an amount up to \$3,806,500 to provide design, bid, and construction phase services for the installation of a new waterline crossing the Laguna Madre and extending to Padre Island, located in Council Districts 4 and 5, with FY 2024 funding available from the Water Capital Fund.

SUMMARY:

This motion authorizes approval of a professional engineering contract to provide preliminary design, permitting, design, bid, and construction phase services for the Water Line Extension to Padre Island Project.

BACKGROUND AND PURPOSE:

The City of Corpus Christi's water system currently consists of two pressure zones (Pressure Zone 1 and Pressure Zone 2). Pressure zone 1 composes the majority of the water system excluding Padre Island. Pressure Zone 2 specifically consists of the Padre Island water system. Pressure Zone 2 also feeds Nueces County Water Control & Improvement District 4 (NCWCID No. 4 - Port Aransas).

Currently, the Sand Dollar Pump Station, located in Pressure Zone 2, is fed by one 24” steel water main that was installed in 1968 and one 18” PVC main that was installed in 2013. The purpose of this project is to provide a new additional waterline feed to Pressure Zone 2. Modeling will also be conducted to analyze interconnections that would reduce or eliminate system capacity limitations. The installation of a new water line to Pressure Zone 2 would provide a secondary supply that would meet the water demand if one or both of the two existing lines had to be taken out of service. The required sizing of the waterline will be analyzed as part of this design effort, but the preliminary expectation is that the new waterline will be twenty – four (24) inches in diameter. The final diameter will be confirmed during the design and hydraulic analysis process.

The boundaries for the current project are from the South Side Transmission Main in Flour Bluff to the Coral Vines Elevated Storage Tank and to Park Road 22. A separate, but related project will extend the transmission main from the to the Sand Dollar Pump Station (City Project 23021).

The tie-in location for the new water line will be near the existing Coral Vines Elevated Storage Tank (EST) which has a volume of 1.5 million gallons (MG). This new water line would provide the ability to fill the Coral Vines EST if there were operating difficulties at the Sand Dollar Pump Station. Hydraulic modeling will be conducted to establish the e tie-in locations for this new water line.

In addition to the complex design for the line to cross the Laguna Madre, the scope also includes environmental permits that will require coordination with several agencies like United States Army Corps of Engineers (USACE), United States Environmental Protection Agency (USEPA), United States Fish and Wildlife Service (USFWS), United States Coast Guard (USCG), Texas General Land Office (TGLO), Texas Commission of Environmental Quality (TCEQ) Permits/Amendments, TCEQ Plan Review Team Coordination, Texas Historical Commission (THC).

The total construction cost for this project is estimated at \$43,000,000. The construction award is currently planned for FY 2027.

PROJECT TIMELINE:

2024 – 2026
June – December
Design

The project schedule reflects City Council award on April 16, 2024. The design is scheduled to be completed by December 2026.

The construction funds for the project are not budgeted in the FY 2024 Capital Improvement Program (CIP). The construction budget will be planned with the FY 2027 CIP.

COMPETITIVE SOLICITATION PROCESS

The Contracts and Procurement Department issued a Request for Qualifications on November 22, 2022, with RFQ No. 4413 Professional Engineering and Testing Services for FY 2023 and Bond 2022. City received statements of qualifications from fifteen firms. The selection committee consisted of representatives from Engineering Services, Water Utilities, and City Manager’s Office.

Firm ranks were based on three factors:

1. Experience of the firm
2. Experience of the key personnel with specific experience with similar projects
3. Understanding of Project Scope.

Ardurra Group, Inc. has been selected for this project based on experience and qualifications. Ardurra Group, Inc. (formerly LNV), has worked on City projects for over twenty years and has completed many projects. Notable projects include Ship Channel Water and Gas Main Crossing, Oso WRP Headworks and Lift Station Improvements, New Broadway WWTP, Resaca Lift Station Upgrades, ONSWTP Clearwell No. 3, ONSWTP High Service Building No. 3.

Freese and Nichols Inc., was awarded Seawater Desalination - Title XV1 Program funding due to the firms experience with Seawater Desalination project, HDR Engineering was awarded 23027 - Mary Rhodes I Condition Assessment and Garver was awarded 23021 - Sand Dollar Connection Line 16"(Coral Vine).

ALTERNATIVES:

The alternative is not to award the proposed agreement to Ardurra Group, Inc. However, not awarding the proposed agreement to Ardurra Group, Inc. will delay necessary improvements and result in the City not being able to provide a reliable supply of water and gas utility service to customers of Padre Island.

FISCAL IMPACT:

The fiscal impact for FY 2024 is in the amount of \$455,000 with funding available from the Water Capital Fund. The remaining funds for the design will be incurred in FY 2025 in the amount of \$3,351,500. The construction funds for the project are not budgeted in the FY 2024 Capital Improvement Program (CIP) three-year short-range plan. Instead, the construction budget for the water line will be planned with the FY 2025 CIP, and the project will be rolled into construction from a planned long term CIP project to a short-range project.

FUNDING DETAIL:

Fund: WTRCP RR 032950 2023 (Fund 4487)
Department: Water (45)
Organization: Grants & Capital Projects Funds (89)
Project: Water Line Extension to Padre Island (Project No. 23033)
Account: Outside Consultants (550950)
Activity: 23033
Amount: \$3,806,500

Year 1 (FY2024): \$455,000
Year 2 (FY2025): \$3,351,500

Total: \$3,806,500

RECOMMENDATION:

Staff recommends awarding a professional services contract with Ardurra Group, Inc. in an amount not to exceed \$3,806,500 to provide design, bid, and construction phase services for the installation of a new water transmission main, crossing the Laguna Madre and extending to Padre Island, as presented.

LIST OF SUPPORTING DOCUMENTS:

Evaluation Matrix

CIP Page

Location & Vicinity Maps

Presentation