400 South Federal Hwy
Hallandale Beach, FL 33009

City of Hallandale Beach
City Commission Agenda Cover Memo

Meeting Date:	Item Type:		1st Reading	2nd Reading
6/16/2021	☒ **Resolution**	Ordinance Reading	**N/A**	**N/A**
	☐ **Ordinance**	Public Hearing	☐	☐
File No.:	☐ **Other**	Advertising Required	☐	☐
21-196		Quasi-Judicial:	☐	☐

Fiscal Impact ($):	Account Balance ($):	Funding Source:	Project Number:
$199,700	**$250,000**	**3395W-565010**	**P2125**

Contract/P.O. Required		RFP/RFQ/Bid Number:	Sponsor Name:	Department:
☒ **Yes**	☐ **No**	**RFP # FY 2018-2019-012 CONSULTANT COMPETITIVE NEGOTIATION ACT (CCNA) CONTINUING PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES AND OTHER SERVICES**	**Jeffrey Odoms, Director**	**Public Works**

Strategic Plan Focus Areas:		
☒ **Finance & Budget**	☐ **Organizational Capacity**	☒ **Infrastructure/Projects**

Implementation Timeline:	
Estimated Start Date: 7/1/2021	Estimated End Date: 3/30/2022

SHORT TITLE:

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF HALLANDALE BEACH, FLORIDA, AUTHORIZING USE OF CONTINUING SERVICE AGREEMENT TO RETAIN SERVICES OF ARCADIS U.S., INC. TO DESIGN PHASE 1 OF THE CITY-WIDE TELEMETRY SYSTEM UPGRADE PROJECT IN AN AMOUNT NOT TO EXCEED ONE HUNDRED NINETY-NINE THOUSAND, SEVEN HUNDRED DOLLARS ($199,700); AUTHORIZING THE CITY MANAGER TO SIGN ALL RELATED DOCUMENTS; AND PROVIDING AN EFFECTIVE DATE.

STAFF SUMMARY:

Summary:

This agenda item seeks City Commission approval to retain the services of Arcadis U.S., Inc. to design the City-Wide Telemetry System Upgrade, in accordance with RFP #2018-2019-012 – Continuing Professional Architectural and Engineering Services, for an amount not-to-exceed $199,700. The above listed consultant will be providing services based on the following discipline: Water Resources, Stormwater Design, and Wastewater Engineering. The preliminary opinion of probable cost for this project is $1,209,750.

Background:

On August 5, 2020, the City Commission approved Resolution No. 2020-054 authorizing continuing service agreements to be awarded in accordance with the Consultant Competitive Negotiation Act (CCNA) (Exhibit 2).

On May 5, 2021, the City Commission approved Resolution 2021-043 authorizing to utilize unused general obligation bond debt service funds from FY 2020-2021 accounts to facilitate initiation of utility infrastructure projects (Exhibit 3). The approved expenditures included in this budget amendment pertains to the design work to facilitate the initiation of multiple utility infrastructure projects. These projects had been prioritized based on the recommendations outlined in the BODR (Basis of Design Report), Wastewater Masterplan, 10 Year Water Supply Plan and staff's recommendations based on need (Exhibit 4 – Project List).

The Public Works team continues to reassess the City's current infrastructure picture. Based on our findings during past and recent emergency response to infrastructure failure, we believe we need to immediately initiate as many projects for design as we can to engage in an effective rehabilitation strategy for the City.

Current Situation:

The City-Wide Telemetry System Upgrade was identified by City Staff as a needed upgrade. The City of Hallandale Beach owns and operates 26 remote sites that comprise water, wastewater, and storm water facilities. These are unmanned facilities monitored and controlled remotely from the City's water treatment plant, using radio telemetry system. The water system consists of three (3) wells with raw water pumps and one (1) elevated tank. The wastewater system consists of fifteen (15) lift stations in the collection system. The storm water management system consists of seven (7) remote sites that include pump stations and gate structures. The remote telemetry system consists of a Supervisory Control and Data Acquisition (SCADA) system located at the water treatment plant and Remote Telemetry Units (RTU) with radios at each remote sites. The SCADA system has redundant servers (primary and backup) and runs Human Machine Interface (HMI). The RTUs and Programmable Logic Controllers (PLCs) contain control logic to monitor and control equipment at the sites remotely from the water plant and locally at the remote sites if communication fails.

The existing control panels at the remote sites, except recently upgraded sites, and the telemetry system hardware are outdated and do not provide all monitoring and control functions of a modern

system. With aging infrastructure, tighter operating budgets, more stringent environmental regulations, and natural resources that are increasingly stressed, the additional monitoring and control functions offered by the modern systems are vital for treating, conveying, and then collecting water safely and reliably while staying within the limited operating and maintenance budgets. With this goal in mind, the City had created Telemetry System Replacement Project to modernize, upgrade, and improve the reliability and functionality of the City's water, stormwater, and wastewater controls and telemetry systems.

The intent of this scope of services is to outline the professional engineering services required to perform design, inspection, PLC programming, HMI configuration, and startup services for the twenty-one (21) remote sites and the headend SCADA at the water treatment plant. The professional engineering services for this project is broken into two phases. Phase 1 includes professional engineering services to perform design, develop bid documents, bid assistance, inspection during construction and startup. Phase 2 includes professional engineering services to perform PLC programming and HMI configuration, and training of operational and maintenance staff.

Arcadis U.S., Inc., one of the CCNA Consultants, has submitted the attached cost proposal to perform Phase 1 work in the amount of $199,700, this is inclusive of all subconsultants should they be utilized (Exhibit 5).

Why Action is Necessary:

Pursuant to Chapter 23, Section 23-4, Competitive Bidding Required, all purchases of and contracts for equipment, supplies and contractual services, when the estimated cost shall exceed $50,000.00 shall be based on competitive bids. Furthermore, pursuant to Chapter 23, Section 23-6, Award of Contract, the City Manager, shall have the authority to recommend to the City Commission award of contracts.

Cost Benefit:

It is our expectation to utilize revenue bond funds for construction. Initiating the design of these multiple projects now will allow for a more effective use of bond proceeds for construction upon their disbursement. Additionally, we know many grant opportunities require an applying municipality to have "shovel ready" projects for funding consideration. The City has missed out on previous opportunities to apply for grants because of not having projects at this stage of readiness. The Public Works team believes that changing this dynamic, applying for and potentially receiving grant funds, will expedite our ability to rehabilitate our infrastructure with the additional funding.

PROPOSED ACTION:

City Commission to approve the attached resolution authorizing to retain the services of Arcadis U.S., Inc. to design City-Wide Telemetry System Upgrade, in accordance with RFP #2018-2019-012 – Continuing Professional Architectural and Engineering Services, for an amount not-to-exceed $199,700; and authorizing the City Manager to execute the awarded contract.

ATTACHMENT(S):

Exhibit 1 – Resolution
Exhibit 2 – Resolution 2020-054-CCNA
Exhibit 3 – Resolution 2021-043
Exhibit 4 – Project List
Exhibit 5 – Cost Proposal
Exhibit 6 – Preliminary Opinion of Probable Cost

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Reviewed By: Jeff Odoms
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Interim Director of Public Works

Approved By: Noemy Sandoval
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Assistant City Manager