



Legislation Details (With Text)

File #: R-2020-251 **Version:** 1 **Name:** ARC 20-05 Membrane Softening Train C Replacement
Type: Resolution **Status:** Passed
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Title: A Resolution Of The City Commission Of The City Of Hollywood, Florida, Approving And Authorizing The Appropriate City Officials To Issue An Authorization To Proceed For Work Order Number ARC 20-05 With Arcadis U.S., Inc. To Provide Professional Engineering Services For The Membrane Softening Train C Replacement In A Lump Sum Amount Of \$396,039.00.

Sponsors:

Indexes:

Code sections:

Attachments: 1. 01 Resolution - ARC 20-05 Membrane Softening Train C Replacement.pdf, 2. 02 ATP - ARC 20-05 Membrane Softening Train C Replacement.pdf, 3. 03 Proposal - ARC 20-05 Membrane Softening Train C Replacement.pdf, 4. 04 R-2017-283 Agreement (Executed) - ARC 20-05 Membrane Softening Train C Replacement.pdf, 5. TermSheetATPARCADISPROFENGMEMBRANESOFTENINGTRAINREPLACEMENT.pdf

Date	Ver.	Action By	Action	Result
10/7/2020	1	Regular City Commission Meeting	adopt	Pass

A Resolution Of The City Commission Of The City Of Hollywood, Florida, Approving And Authorizing The Appropriate City Officials To Issue An Authorization To Proceed For Work Order Number ARC 20-05 With Arcadis U.S., Inc. To Provide Professional Engineering Services For The Membrane Softening Train C Replacement In A Lump Sum Amount Of \$396,039.00.

Infrastructure & Facilities

Staff Recommends: Approval of the attached Resolution.

Explanation:

The City of Hollywood's Water Treatment Plant (WTP) is a 60 million gallons per day (MGD) plant that not only provides high quality water to the residents of the City but also serves approximately 300 acres in the Town of Davie, 50 acres in the City of Dania Beach, and 100 acres in the Seminole Tribe of Florida reservation. WTP also provides wholesale water to Broward County's Water and Wastewater Services Districts 3A and 3B/C. In addition to retail and wholesale water services, the City has an emergency connection with the City of Dania Beach, which withdraws water from the City's system to maintain its system pressure.

WTP treats raw water from wellfields in the Biscayne and Floridan aquifers using three major treatment processes: lime softening (LS), membrane softening (MS), and reverse osmosis (RO). The water treated by each process is blended, disinfected, and pumped into the service area. The MS system was originally constructed in 1995, with subsequent membrane replacements in 2004 and 2012. This system has seven trains that soften Biscayne aquifer water using nanofiltration (NF) membranes.

Due to the age and decreased reliability of the existing MS Train C, the City has determined that it is necessary to replace it with a 2-stage system to meet treatment objectives and provide reliable high quality drinking water. The remaining MS trains A through G will be replaced in the future.

On September 20, 2017, the City Commission passed and adopted Resolution No. R-2017-283 that approved the execution of continuing professional engineering service agreements with four firms for water, sewer, reuse and stormwater infrastructure projects, one of them being with Arcadis U.S., Inc. The contract with Arcadis U.S. Inc., is for a four (4) year term with provisions for renewal for two (2) additional two (2) year terms.

This agenda item seeks approval of Authorization to Proceed (ATP) for professional engineering services with Arcadis U.S., Inc. for the Membrane Softening Train C Replacement in a lump sum amount of \$396,039.00.

Upon authorization from the City Commission, the project will be completed in seventeen (17) months from the date of the Authorization to Proceed.

The Department of Public Utilities staff will manage this project. No additional staff is needed as a result of this project.

Fiscal Impact:

Funding for this project was included in the adopted FY 2020 Capital Improvement Plan that was approved via Resolution R-2019-284, and is available in account number 442.409901.53600.531210.001249.000.000.

Recommended for inclusion on the agenda by:

Vivek Galav, Director, Department of Public Utilities

Gus Zambrano, Assistant City Manager/Sustainable Development

Attachments

01 Resolution - ARC 20-05 Membrane Softening Train C Replacement

02 ATP - ARC 20-05 Membrane Softening Train C Replacement

03 Proposal - ARC 20-05 Membrane Softening Train C Replacement

04 R-2017-283 Agreement (Executed) - ARC 20-05 Membrane Softening Train C Replacement