

**Indian River County, Florida
Department of Utility Services
Board Memorandum**

Date: October 21, 2019

To: Jason E. Brown, County Administrator

From: Vincent Burke, PE, Director of Utility Services

Prepared By: Arjuna Weragoda, PE, Capital Projects Manager

Subject: Water Plant and Water Resources Engineering Services Agreement with Kimley-Horn and Associates

Descriptions and Conditions:

On September 17, 2019, the Indian River County Board of County Commissioners (BCC) approved the final ranking for Request for Quotation (RFQ) 2019070 to assist the Indian River County Department of Utility Services (IRCDUS) with the planning, engineering, design, permitting and construction phase services anticipated with two water treatment plants and directed staff to start negotiations with the top ranked firm, Kimley-Horn and Associates, Inc.

Analysis:

Task assignments will be subject to scope definition and will be developed and authorized through individual work orders. The Water Plant and Water Resources professional services intended to be part of this agreement are as follows:

- Well replacement and rehabilitation
- Wellhead modifications, additions, replacements
- Treatment plant piping, including raw water, finished water, concentrate, product water
- Treatment processes, including but not limited to chemical storage and feed systems, membrane processes, filtration, degasification, off-gas treatment
- Membrane system design, evaluation, treatment studies, replacement, and system optimization
- Hydraulic analysis of all treatment processes
- Standby power systems and fuel storage, feed and supply systems
- Electrical systems design, including power, distribution, controls, networks, etc.

- SCADA system planning, implementation, replacement, expansion, including software programming of PLC's and HMI's.
- Building facility design, improvements, rehabilitation, and hardening, structural analysis and evaluation, building mechanical/electrical/plumbing/HVAC systems
- Site work including civil, site work, drainage, planning, and permitting
- Distribution and storage design, evaluation, optimization
- Pumping systems for all supporting treatment operations
- Preparation of opinions of capital improvement plans and operating costs, reports, etc.
- Permitting of supply, treatment, disposal of treatment byproducts, and air systems.
- Preparation and review of reports, capacity analysis, lead and copper, system optimization, etc.

Funding:

Funding is not required at this time. Future work orders will accompany a fee schedule with an accompanying funding account number.

Recommendation:

Staff recommends approval of the Agreement for Professional Services for water plant and water resources engineering services and requests the Board of County Commissioners to authorize the Chairman to execute the Agreement on their behalf.

Attachment:

Agreement for Professional Services with Kimley- Horn and Associates, Inc. *(15 Pages)*