

**AMENDMENT NUMBER 5 TO AN AGREEMENT
BETWEEN KIMLEY-HORN AND ASSOCIATES, INC.
AND CITY OF OCALA**

AMENDMENT NUMBER 5 DATED August 29, 2025, to an Agreement between City of Ocala ("the Client") and Kimley-Horn and Associates, Inc. ("Kimley-Horn or Consultant") dated December 27, 2022 (the "Agreement") concerning Professional Design Services – Water Treatment Plant #2 (the "Project").

Kimley-Horn has entered into the Agreement with the Client for the furnishing of professional services, and the parties now desire to amend the Agreement.


Therefore, it is mutually agreed that the Agreement is amended (1) for a time extension of 365 days following the original contract expiration date to complete the project; and (2) to amend the scope of work as outlined in Exhibit A and Table A, which are attached hereto and incorporated herein by reference. The parties ratify the terms and conditions of the Agreement not inconsistent with this Amendment, all of which are incorporated by reference.

Attachments: EXHIBIT A, TABLE A

ACCEPTED:
CITY OF OCALA

KIMLEY-HORN AND ASSOCIATES, INC.

BY: _____

BY:  _____
Richard V. Busche, PE

TITLE: _____

TITLE: Senior Vice President

DATE: _____

DATE: August 29, 2025

Project Understanding

The original design scope included in this amendment is approximately 90% complete. During the coordination with the City's Construction Manager at Risk (CMAR) it was determined that the construction costs for the stipulated water treatment method for the Lower Floridan Aquifer (LFA) WTP were prohibitively expensive. During design and coordination with the CMAR construction costs increased from approximately \$75,000,000 to \$260,000,000. After funding related discussions with the St John's Water Management District and the City about the increase in construction costs, it was determined to engage in value engineering and a cost saving initiative for the City's WTP 2. This cost-saving initiative includes shifting the design for WTP 2 to include an initial Upper Floridan Aquifer (UFA) water treatment plant to meet the City's water supply needs and an evaluation of an alternative treatment method for the LFA portion of the WTP. The vast majority of the previous LFA design will be reusable once the EC evaluation is complete.

This amendment will update the WTP-2 design scope to replace the previous design of the Lower Floridan Aquifer (LFA) WTP with an initial Upper Floridan Aquifer (UFA) design phase. This amendment will also include the evaluation of electrocoagulation (EC) for treatment of the LFA raw water at WTP 2 and UFA raw water at WTP 1. The design for the LFA will be put on hold until the completion of the evaluation of the EC treatment method. As such, the original Tasks 1-8 in the Agreement are hereby replaced with the following Tasks.

Scope of Services**Task 1 – Project Management and Administration**

- A. Project management for the UFA WTP 2 Plant design includes activities related to initiating, planning, executing, controlling, and closing the Project. Kimley-Horn will:
 - 1) Perform a technical review of the UFA facility deliverables, in accordance with standards, prior to transmitting them to the City.
 - 2) Perform overall coordination and oversight of the Project execution that includes monthly invoicing, project financials, subcontracts, and regular progress meetings.
 - 3) Assist the City with Construction Manager at Risk (CMAR) coordination and CMAR submittal reviews specifically for the updated UFA design.
- B. Project management for the electrocoagulation evaluation at WTP 1 and WTP 2 includes activities related to initiating, planning, executing, controlling, and closing the project.
 - 1) Kimley-Horn will develop a bench test plan and field data matrix that will be reviewed internally and approved by the City prior to moving forward with bench testing. The bench test plan will give a brief background of the testing, establish testing goals, and describe the unit processes in an EC treatment train. As a part of the bench test plan, we will outline the various proposed EC + ceramic ultrafilter (CUF) testing configurations, testing protocols, material/ancillary equipment needs list, and establish a list of proposed water quality parameters and sample sets that can be analyzed in the lab as a surrogate for treatment efficacy for target contaminants. The bench test field data matrix is anticipated to reveal the shortlisted bench testing configurations identified in the testing plan and the field data parameters that will be recorded for each configuration. Kimley-Horn will compare the field-collected data parameters against water quality laboratory results to determine if there are noticeable correlations.

Task 2 – Preliminary Design Report

- A. Kimley-Horn will prepare a preliminary design report (PDR) to reflect the updated UFA facility for the purposes of defining the design criteria and basis of design calculations. The PDR will provide a written description of the water process from supply to distribution, inclusive of the design calculations necessary to size each component. The PDR will include the phased facility systems, calculations, and equipment sizes. The PDR will be completed and inclusive of all pertinent information required under subsection 62-555-520(4), F.A.C., and as required for facility permitting submission.
- B. Kimley-Horn will utilize the PDR to update the State Revolving Fund (SRF) Feasibility Study previously prepared by Kimley-Horn in December 2019. The Feasibility Study will be revised to include the UFA facility design and update the cost estimates previously developed for each design alternative.

Task 3 – WTP-2 Detailed Design

- A. Kimley-Horn will prepare detailed design documents for the updated WTP-2 process and components, generally including the following items:
 - 1) UFA raw water well pumps
 - 2) Raw water and finished water piping, valving, and appurtenances
 - 3) Finished water storage tanks
 - 4) High service pump station building to include high service pump station and operations area
 - 5) Chemical storage, pumping, and injection systems
 - 6) Electrical, instrumentation, control, and monitoring systems
- B. The detailed design services will be completed in multiple steps, accounting for design efforts, quality reviews, design workshops, design review meetings, and site visits for equipment observation. The major steps and deliverables in the design process will include 90% and final design deliverable milestones, which will be incorporated into the overall project schedule. The design deliverables will be specific to the additional UFA facility and will reflect the revised phasing for funding described below:
 - 1) Phase 1/2 – Existing
 - 2) Phase 3 – GST No.1
 - 3) Phase 4 – HSPS Building, High Service Pump Station, Site Electrical, Stormwater Pond
 - 4) Phase 5 – GST No.2
 - 5) Phase 6 – UFA Well Pumps, Chemical Design, Site Piping, Site Civil, Finished Water Quality Analysis
 - 6) Phase 7 – Future LFA Facility
- C. The detailed design drawings will include process, mechanical, electrical, plumbing, instrumentation and controls, architectural, structural, site civil, and stormwater disciplines. The 90% design milestone is intended to include near-final detail to the UFA facility design documents. The 90% design specifications manual will also be completed to a near-final level, inclusive of all specification sections necessary for the construction

- D. Bidding process. The 90% design stage documents will be ready for permitting submissions, identified for the 90% documents.
- E. Following the 90% design submission to the City, Kimley-Horn will lead a design review of the deliverable to orient the City staff to the project and documents provided. All comments and questions will be discussed amongst the design team and City staff to develop a resolution for incorporation into the next deliverable phase. The workshop will include an approximately 4-hour workshop to walk through the entire design deliverable.
- F. Final design documents will incorporate the detailed design comments identified at the 90% design deliverable stage into a final bid-ready set of deliverables. The final design stage will be ready for additional permitting submissions identified for the completed documents.

Task 4 – Permitting Services

- A. Kimley-Horn will prepare and submit permit applications and the supporting documentation for a construction permit from the Florida Department of Environmental Protection (FDEP) and an environmental resource permit modification through the St. John's Water Management District (SJRWMD). Each of these permits/approvals is anticipated to be addressed through the respective department's review of each deliverable submission to the City's staff for review. The City is responsible for direct payment of all permit fees to the respective permit agencies.
 - 1) FDEP Construction Permit.
 - a. Prepare and submit one (1) FDEP Application for an APPLICATION FOR A SPECIFIC PERMIT TO CONSTRUCT PWS COMPONENTS (Form 62-555.900(1)) for the WTP's construction approval. The application will be accompanied by the PDR identified above in Task 2.
 - b. Attend a pre-application coordination meeting with FDEP and the City.
 - c. Prepare comment responses for up to two (2) Request for Additional Information (RAI).
 - d. Permitting fees are not included within this proposal.
 - 2) SJRWMD Environmental Resource Permit (ERP) Permit.
 - a. Civil Site Construction Documents will be provided by Kimley-Horn for on-site improvements and will include building layout, site geometry, paving and grading, onsite pedestrian access, and storm water collection system. The design and major modification will account for each expansion phase through build-out of WTP-2.
 - b. Kimley-Horn will prepare and submit the SJRWMD ERP or Major Modification to the District for approval prior to construction of the WTP facilities. The proposed improvements will require that the existing dry retention area be expanded to account for the additional impervious features. The Permit application will include the location of the existing dry retention area and the proposed affected areas.

Task 5 – WTP 1 and WTP 2 Electrocoagulation Evaluation

- A. Data Collection and Analysis.
 - 1) Kimley-Horn will coordinate with the City for the collection and shipping of the desired sample volumes for the treatment technology analysis. Kimley-Horn will collect and ship

the samples according to the Kimley-Horn-provided schedule and protocols. Once received, Kimley-Horn will perform laboratory bench testing of the four water samples: raw UFA water at WTP #1; lime softened/filtered water from WTP #1; raw UFA water at WTP #2; and LFA water at WTP #2.

- 2) The bench test unit and ancillary support equipment required for particle separation, like the ceramic ultra-filter, will be furnished by Kimley-Horn under this scope of work. Approximately 8 different configurations of the bench test will be performed on the water samples listed above. This testing will occur over a 3-day field testing period to be completed at Red Rocks Community College's Water Quality Technology Lab in Lakewood, CO, by Kimley-Horn's advanced treatment research team. Kimley-Horn will coordinate the collection and shipment of the respective water samples to our Denver Tech Center office. Kimley-Horn's technical team will adjust various testing parameters as described in **Task 5.A.1)** above. All samples will be filtered through the 0.1-micron ceramic ultrafilter at the manufacturer's recommended flux and TMP threshold. A 20-gallon sample of each water source will be needed to accommodate all the testing, including raw water and finished water sets.
- 3) It is recommended that solids generated from the test runs submitted for a full lab analysis on the filtrate also undergo Toxicity Characteristic Leaching Procedure Tests to help determine the quality of residuals (settled solids) generated from the best performing test configuration. The solids testing services, while recommended, are not currently included but can be added as an Additional Service via an amendment or separate authorization.
- 4) PFAS sampling is recommended for the UFA samples, both pre- and post-treatment. It is recommended that an EPA 1633, 1623, and 1621 be ran in an EPA-approved lab. Additional to PFAS samples, it is recommended that a full suite of the primary and secondary EPA drinking water maximum contaminate levels (MCLs) be analyzed. Water quality analysis costs outside of handheld testing (conductivity, pH, turbidity) during the testing process will be expensed directly to the City as direct expenses to the Project. An allowance for PFAS sampling and testing is included in this scope of services and includes three sets of PFAS sampling per Upper Floridan source (total of 18 PFAS samples to be analyzed).
- 5) Kimley-Horn will receive, review, and analyze the data requested in the project kick-off meeting for trends and documentation to support the design calculations, connections, and integration into the existing potable distribution system.

B. Electrocoagulation Design Presentation

- 1) Kimley-Horn will develop a summary presentation to present the findings of the testing and an interpretation of any trends that may have been noticed as it relates to removal efficacy of target contaminants. Pertinent raw water and treated water constituent removal graphs for the various configurations will be presented, along with the completed field-testing matrix. The summary presentation will be given virtually for the City. If desired, an in-person presentation can be delivered at the City's facilities.

Additional Services If Required

Services requested that are not specifically included will be provided under a new and separate IPO agreement or can be performed on an hourly basis upon written authorization.

Fee and Billing

Kimley-Horn will reallocate the remaining budget from the Agreement, \$1,258,796.41, to perform the Scope of Services in Tasks 1 - 5 for a lump sum fee. All permitting, application, and similar project fees will be paid directly by the City. A breakdown of the fee per task is provided in the attached Table A.

TABLE A
COST ESTIMATE FOR SERVICES

PROJECT: AMD 5_UFA DESIGN

CLIENT: CITY OF OCALA

KHA PM: ALAN J. GARRI, PE/SAVANNAH R.M. SMITH, PE

BASIS FOR ESTIMATE: COUNCIL-APPROVED HOURLY RATES, CONTRACT#WRS211026

SHEET:

1 of 1

DATE:

7/29/2025

		DIRECT LABOR (MAN-HOURS)								
		PM/ Senior Engineer	Chief Engineer	Project Engineer 1	Engineering Intern	Chief Designer	Secretary/ Clerical	LABOR HOURS	SUB (\$)	LABOR TOTAL
NO.	DESCRIPTION	\$265.36	\$307.11	\$170.39	\$140.50	\$199.25	\$117.57			
1	Project Management and Administration	155	62	252	34	20	60	583	\$ 118,926.10	
2	Preliminary Design Report	144	96	366	320	0	24	950	\$ 177,838.82	
3	WTP-2 Detailed Design	524	685	1162	650	653	87	3761	\$ 779,002.23	
4	Permitting Services	68	87	202	162	40	125	684	\$ 124,609.08	
5	WTP 1 and WTP 2 EC Evaluation	28	45	90	84	12	65	324	\$ 58,420.18	
		SUB TOTAL:							\$ -	\$ 1,258,796.41
		GRAND TOTAL:							\$	1,258,796.41