

**SEWRF STORAGE LAKES & PUMP BACK STATION IMPROVEMENTS**

**PROJECT NO #6088380**

**AGREEMENT 17-0523JE**

**WORK ASSIGNMENT NO. 28**

Pursuant to the Manatee COUNTY, Florida, Agreement for Utility Architecture / Engineering Services entered into by and between MANATEE COUNTY, a political subdivision of the State of Florida, hereinafter referred to as "COUNTY" and KIMLEY HORN & ASSOCIATES, INC., hereinafter referred to as "CONSULTANT," a determination has been made by the COUNTY that there is a need for the performance of or rendering of services by CONSULTANT of a certain "Work Assignment" under the purview of said Agreement, and CONSULTANT is hereby authorized to perform or render the particular services of work described as follows:

**TITLE OF THE PROJECT:** SEWRF Storage Lake & Pump Back Station Improvements

**PHASES AND/OR TASKS OF PROFESSIONAL SERVICES AUTHORIZED:**

Consultant shall perform tasks as more specifically detailed in Attachments 1 through 3 as follows. This work assignment shall remain in effect until completion of the project.

- Attachment 1, Scope of Services
- Attachment 2, Hourly Fee Schedule
- Attachment 3, Schedule

Compensation to CONSULTANT for rendering all the above identified services and products shall not exceed \$170,407.50. Compensation for the tasks shall not exceed the amounts set forth as follows:

Task	Description	Cost
1.0	Design & Permitting	\$11,483.50
2.0	Services During Construction	\$158,924.00
Project Total		\$170,407.50

The budget for construction is approximately \$12,320,000. Any modifications to the project resulting in increases to prior cost estimates or potential overruns shall be communicated to Manatee County, in writing prior to initiation of work, for approval by the Contract Manager.

COUNTY may authorize, in writing, in advance, adjustments in the compensation for particular tasks established above, provided such adjustments do not exceed the maximum compensation authorized for this Work Assignment.

Partial compensation may be requested on a monthly basis for unit prices and actual hours incurred but not to exceed the percentage of the tasks completed.

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CONSULTANT agrees to perform or render services in accordance with the Agreement 17-0523JE for Utility Architecture / Engineering Services and this Work Assignment.

**CONSULTANT FIRM NAME**

*Wayne White*

By: \_\_\_\_\_

Print Name: Wayne E. White, P.E.

Title: Vice President

Date: \_\_\_\_\_

**MANATEE COUNTY, a political  
Subdivision of the State of Florida**

By: \_\_\_\_\_

Printed Name:

Title: Procurement Official

Date: \_\_\_\_\_

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## **OBJECTIVE**

Kimley-Horn and Associates, Inc., herein referred to as “Consultant”, shall perform engineering services for Manatee County, herein referred to as “County”, associated with design and permitting for the SEWRF Storage Lakes & Pump Back Station Improvements. This work will include the modification of electrical design for the reclaimed pump back station to address the requested modifications associated with the County moving away from DFS telemetry and the Services During Construction for the project previously designed under Work Assignment No. 15.

## **TASK 1.0 – Design & Permitting**

- A. This task will include modifications to the previous electrical and I&C drawings prepared by Tricon under Work Assignment No. 15 to include the following:
  - Revisions to the power distribution system
  - Revise Controls system to PLC
  - Revise telemetry system

## **TASK 2 – Bidding and Services During Construction**

Consultant shall provide the following services during the bidding phase:

- A. Prepare bid packages consisting of plans, permits, and specifications (in CSI or EJCDC format) to be included in the County’s bid packages.
- B. Prepare and advertise the bid notification and provide the technical information required for the notification language.
- C. The County will administer distribution of the bid packages and maintain a log of the issued bid packages.
- D. Participate in one pre-bid conference as the County’s engineering representative. The County will be responsible for coordinating, scheduling, and administering the pre-bid conference.
- E. Respond to Requests for Information (RFIs) and prepare bid addenda as necessary during the bid process. The County will be responsible for addenda distribution.
- F. Review the bid responses and tabulate the results and provide the County with a written bid tabulation record along with a selection recommendation.
- G. Conduct a pre-construction conference and prepare minutes of the meeting.

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- H. Review and approve shop drawings.
- I. Provide recommendations of changes, if necessary, which may be required within the scope of the project during construction. Prepare contingency item work directive changes and change orders, if required, for County approval.
- J. Conduct monthly project site visits and prepare punch list items to be corrected or completed at the substantial and final completion stages of the work.
- K. Attend monthly progress meetings and review monthly pay requests for completeness submitted by the contractor and make recommendations for payments.
- L. Prepare agendas for the monthly progress meetings and provide meeting minutes following each meeting. Minutes will be distributed to County and Contractor.
- M. Attend start-up and testing of various equipment.
- N. Prepare and furnish the County a final set of reproducible record drawings (as-builts) from the data provided by the contractor and the project representative. All information gathered shall be field verified and certified set of as-builts shall be submitted to the County.
- O. Supplying the County certified as-builts and all certifications to all state agencies. All record drawings shall conform to County's GIS requirements.
- P. Visit the project site prior to the end of the one-year warranty period and prepare a punch list of items to be corrected prior to the warranty expirations date.

#### **PROJECT DELIVERABLES**

- A. Drawings shall be prepared on a 22-inch by 34-inch border using Consultant's standard drawing format. All drafting will be completed using Consultant's drafting standards.
- B. One (1) hard copy of the record drawings (22 inch x 34 inch), technical specifications (Signed and Sealed) and one digital copies of the electronic files.
  - Submittals will be conducted through the County's e-Builder website

The County shall provide and complete the following:

- Record drawings and access to the site,
- Existing information as needed and available,
- Review and comment on the deliverables,

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- Attend and participate in project meetings,
- Public Involvement/Notification (Public Relations)

**PROJECT SCHEDULE**

The contract start date will be the day of the approval of the Work Assignment. The following table summarizes the project schedule.

<b>Milestone</b>	<b>Weeks to Complete</b>
Task 1 Revised Construction Documents	6

**SUBCONSULTANTS**

Tricon

**PROJECT WORK PLAN PERSON-HOUR ESTIMATE**

SEWRF Storage Lakes and Pump Back Station

Project Name: Improvements  
 Project Number: 6088380  
 Date Prepared: 5/5/2020  
 Estimated By: Wayne White

Estimated Project Duration: \_\_\_\_\_ months  
 Design: 6 months  
 Construction: 16 months  
 Total: 22 months

KHA Task # Subtask ID Number	KHA Task Name Subtask Name/Description	Principal	Sr Proj Engineer	Project Manager	Sr. Design Eng	Project Eng	Sr CADD Tech	Admin Asst	Total Labor Hours	KHA Labor Total	Other Direct Cost	Subcons Cost	Subcons Cost Markup 5%	Total Fee
		225.0	200.0	190.0	150.0	140.0	100.0	80.0						
<b>1.0</b>	<b>Preparation of Construction Documents</b>													
	Electrical & I&C Modifications		4		0	12		4	20	\$2,800.00		\$8,270.00	\$413.50	\$11,483.50
									0	\$0.00			\$0.00	\$0.00
									0	\$0.00			\$0.00	\$0.00
									0	\$0.00			\$0.00	\$0.00
	<b>Subtotal Task 1 (Hours)</b>	0	4	0	0	12	0	4	20	\$2,800.00	\$0	\$8,270.00	\$413.50	\$11,483.50
<b>2.0</b>	<b>Bidding &amp; Services During Construction</b>													
	Preparation of Bid Packages & Construction Schedule		2	6	4	24		8	44	\$6,140.00			\$0.00	\$6,140.00
	Attend Pre-Bid Meeting		4		4				8	\$1,400.00			\$0.00	\$1,400.00
	Review Bid Results & Tabulate Results			1		2	2	4	9	\$990.00			\$0.00	\$990.00
	Pre-construction Conference			10		6		4	20	\$3,060.00			\$0.00	\$3,060.00
	Respond to RFI's	2		4	10	20		4	40	\$5,830.00			\$0.00	\$5,830.00
	Shop Drawing Reviews		12	12	10	32		12	78	\$11,620.00			\$0.00	\$11,620.00
	Change Request Processing		8	24	24	24	40	12	132	\$18,080.00			\$0.00	\$18,080.00
	Conduct monthly site visits		32	50	38	96			216	\$35,040.00			\$0.00	\$35,040.00
	Attend monthly progress meetings	4	32		64				100	\$16,900.00			\$0.00	\$16,900.00
	Start Up and Testing		16			32			48	\$7,680.00			\$0.00	\$7,680.00
	Final Completion Inspection	4		16	16	24			60	\$9,700.00			\$0.00	\$9,700.00
	Project manual reviews		8	16	16	16			56	\$9,280.00			\$0.00	\$9,280.00
	FDEP Compliance	2		8	20	20		12	62	\$8,730.00			\$0.00	\$8,730.00
	As-Builts			2		4			6	\$940.00			\$0.00	\$940.00
	EE Site Visits, Start Up and Testing			2	20	30			52	\$7,580.00	\$4,680.00		\$234.00	\$12,494.00
	PM		40						40	\$8,000.00			\$0.00	\$8,000.00
	Final Closeout		12					8	20	\$3,040.00			\$0.00	\$3,040.00
	<b>Subtotal Task 2 (Hours)</b>	12	166	151	226	330	42	64	991	\$154,010.00	\$0	\$4,680.00	\$234.00	\$158,924.00
	<b>Project Total</b>	12	170	151	226	342	42	68	1,011	\$156,810.00	\$0	\$12,950.00	\$647.50	\$170,407.50

**Mr. W. Wade Wood III, P.E.  
Kimley-Horn and Associates, Inc.  
655 North Franklin Street  
Suite 150  
Tampa, Florida 33602**

**February 10, 2016**

**Re: Manatee County SEWRF Reclaimed Pump Stations**

Dear Mr. Wood :

Tricon Engineering is pleased to submit this proposal for Electrical Engineering services to you.

Please feel free to contact me for any other clarifications or questions you may have in regards to this matter.

**Scope of Professional Services**

*Design Phase*

Basic services include providing contract documents for the electrical and controls system requirements for Manatee County's SEWRF Reclaimed Pump Stations project.

This work shall include :

- a) Design of new power distribution for the new Reclaim Pump Stations.
- b) Design for new Data Flow Systems (DFS) control/telemetry systems for each associated Reclaimed Pump Station.
- c) Design to incorporate a level sensing transmitter into the new DFS control/telemetry systems. Selection of the level transmitter to be utilized shall be by Kimley-Horn and Associates.

*Items to be provided to Tricon Engineering by Kimley-Horn :*

- 1) Site Plans containing both the East Pond and South Pond pump stations in AutoCAD format.
- 2) East Pond and South Pond pump station plans in AutoCAD format.
- 3) East Pond and South Pond pump station elevations in AutoCAD format.
- 4) Specifications and cut-sheets for new pump motors.
- 5) Specifications and cut-sheets for level transmitters.

777 S. Harbour Island Blvd., Suite 870, Tampa, FL 33602  
(813) 227-9190 • (813) 227-9195 (Fax) • tthomas@tricon-eng.com

*Construction Phase Services*

Basic services include providing support to Manatee County during the construction of the new Reclaimed Pump Stations.

The work shall include :

- 1) Attending pre-bid meeting.
- 2) Respond to Contractor's Requests for Information (RFI's) during the bidding process.
- 3) Attending a pre-construction meeting.
- 4) Review of contractor's shop drawing submittals for all electrical, instrumentation, controls and communications components.
- 5) Respond to Contractor's Requests for Information (RFI's) during construction.
- 6) Make monthly observation visits during construction.

**Compensation**

Tricon Engineering shall execute the Design Phase services for the SEWRF Reclaim Pump Stations project, as described previously, for the Not to Exceed amount of :

~~\$16,185.00 (Sixteen thousand, One Hundred, Eighty Five dollars).~~

Tricon Engineering shall execute the Construction Phase services for the SEWRF Reclaim Pump Stations project, as described previously, for the Not to Exceed amount of :

**\$4,680.00 (Four thousand, Six hundred Eighty dollars).**

We would like to thank you for the opportunity to provide you with a proposal for this work.

Sincerely,

TRICON ENGINEERING



Timothy Thomas, P.E.

**MANATEE COUNTY  
SEWRF RECLAIM PUMP STATIONS  
CONSTRUCTION ADMIN FEE ESTIMATE**

TASK	Description of Activity	Principal	Senior PM	Sr Project Engineer	Project Engineer	Designer	Constr Manager	CADD Tech	Clerical	Total Manhours	Task Cost
4	Construction Phase	0	0	34	0	0	0	0	4	38	\$4,680
	Attend Pre-Bid			4						4	\$520
	Respond to Bidder's Questions			4						4	\$520
	Attend Pre-Construction Meeting			4						4	\$520
	Shop Dwg Review, RFI's			10					2	12	\$1,430
	Construction Inspection			12					2	14	\$1,690
		0	0	34	0	0	0	0	4	38	<b>\$4,680</b>
		Principal QA/QC	Senior PM	Sr Project Engineer	Engineer	Designer	Constr Manager	CADD Tech	Clerical		
	Hourly Rate	\$193	\$165	\$130	\$110	\$87	\$110	\$65	\$65		
	Total Dollars	\$0	\$0	\$4,420	\$0	\$0	\$0	\$0	\$260		

**Mr. W. Wade Wood III, P.E.  
Kimley-Horn and Associates, Inc.  
100 Second Avenue South  
Suite 300S  
St. Petersburg, Florida 33701**

**January 13, 2020**

**Re: Manatee County SEWRF Reclaimed Pump Stations**

Dear Mr. Wood :

Tricon Engineering is pleased to submit this proposal for Electrical Engineering services to you.

**Scope of Professional Services**

*Design Phase*

Basic services include revising the existing contract documents for the SEWRF Reclaimed Repump Station project in order to incorporate the changes requested by Manatee County.

This work shall include :

- a) Revisions to the power distribution system for the new Reclaim Repump Station.
- b) Revise the Controls System to be PLC based (Allen Bradley ControlLogix).
- c) Revise the Telemetry System to be 900 Mhz Radio based (GE Orbit ECR).

**Compensation**

Tricon Engineering shall execute the Design Phase services for the SEWRF Reclaim Pump Stations project, as described previously, for the Not to Exceed amount of :

**\$8,270.00 (Eight thousand, Two Hundred, Seventy dollars).**

Sincerely,

TRICON ENGINEERING

A handwritten signature in blue ink that reads "Timothy Thomas". The signature is written in a cursive style with a horizontal line underneath the name.

Timothy Thomas, P.E.

777 S. Harbour Island Blvd., Suite 870, Tampa, FL 33602  
(813) 227-9190 • (813) 227-9195 (Fax) • tthomas@tricon-eng.com

**MANATEE COUNTY  
SEWRF RECLAIM PUMP STATIONS  
DESIGN FEE ESTIMATE**

TASK	Description of Activity	Principal	Senior PM	Sr Project Engineer	Project Engineer	Designer	Constr Manager	CADD Tech	Clerical	Total Manhours	Task Cost
1	Construction Documents	0	32	0	0	0	0	44	2	78	\$8,270
	90% Drawings and Specifications		24					36	1	61	\$6,365
	Final Drawings and Specifications		8					8	1	17	\$1,905
		0	32	0	0	0	0	44	2	78	<b>\$8,270</b>
		Principal QA/QC	Senior PM	Sr Project Engineer	Engineer	Designer	Constr Manager	CADD Tech	Clerical		
	Hourly Rate	\$193	\$165	\$130	\$110	\$87	\$110	\$65	\$65		
	Total Dollars	\$0	\$5,280	\$0	\$0	\$0	\$0	\$2,860	\$130		