

August 12, 2024

Manga Ebbe  
City of Hallandale Beach  
630 NW 2<sup>nd</sup> Street  
Hallandale Beach, FL 33009

**Re: Lift Station #13 Replacement – Amendment 1  
City of Hallandale Beach, FL**

Dear Mr. Ebbe:

In accordance with Resolution No. 2020-054, RFP #FY 2018-2019-012 Continuing Professional Architectural and Engineering Services and Other Services, the following scope of services is provided by Kimley-Horn and Associates, Inc., (hereinafter referred to as “Consultant”, “We” or “Kimley-Horn”) to the City of Hallandale Beach, (hereinafter referred to as “Client” or “City”) as requested to provide additional services associated with replacing Lift Station #13.

## **Project Understanding**

The intent of the project is to convert the City’s existing Lift Station #13 from a “Can Style” lift station to a submersible lift station in the current location. Lift Station #13 is located adjacent to the “Gulfstream Academy of Hallandale Beach” on SW 8th Street. The Lift Station #13 replacement project scope is based on the City’s Wastewater Master Plan dated March 2018 and a site meeting held on 6/24/2021. To date, Kimley-Horn has provided design and permitting services as described in the original scope work for the replacement of Lift Station #13. Since that time, the City has pursued funding opportunities through HUD that has added new design criteria associated with mitigating Explosive and Flammable Hazards. The new mitigation requirements include reviewing options to provide additional containment around the emergency generator fuel system. The revised project approach to address the mitigation criteria will require coordination with the generator vendor to research potential impacts to the fuel tank installation and system operation, design modifications to the elevated platform and stairs as concrete, review of impacts to the mechanical and electrical site plans, coordination with HUD to confirm proper mitigation, and coordination with Broward County to review potential impacts to the current permit.

## **Scope of Services**

The Scope of Services for the project will be provided by the Consultant and its sub-consultants Bailey Engineering Consultants (BEC) for electrical design.

### **Task 1 – Preliminary Design and Mitigation Coordination**

Based on our preliminary review of the current emergency generator design as it relates to the HUD Explosive and Flammable Hazards criteria, the following mitigation options are proposed:

1. Mount the generator/fuel tank system on an elevated concrete structure and enclose the fuel tank with a 4-foot concrete wall on that structure.

2. Mount the generator/fuel tank system on an elevated concrete structure that would allow recessing the fuel tank into the concrete structure.
3. Propose a portable generator in lieu of the permanent generator. However, per FDEP permitting requirements, for pump stations that discharge through pipes 12 inches or larger, the design requires uninterrupted pumping capability be provided, including an in-place emergency generator. Lift Station 13 does discharge through a 12-inch forcemain and is currently permitted with the permanent generator. A waiver from FDEP would be required for the use of a portable generator. Such a waiver is difficult to justify for this site and if pursued will likely require 9 months to a year to obtain.

The Consultant will perform the following tasks as part of developing the above referenced design options:

- Develop design modifications to the current prefabricated elevated platform and stairs as a concrete structure.
- Develop options for a 4-foot containment wall or recessing the fuel tank into the proposed concrete structure. (Items 1 and 2 above).
- Coordination with the generator vendor to research potential impacts to the fuel tank installation and system operation for both options.
- Coordinate with BEC to research and select a portable generator as an alternative to the permanent generator. (Item 3 above).
- Develop Opinions of Probable Cost (OPC) associated with the proposed modification.
- Coordinate with the Broward County Environmental Protection and Growth Management Department (BCEPGMD) to confirm that Options 1 and 2 will not impact the current permit.
- Coordinate with the BCEPGMD and the Florida Department of Environmental Protection (FDEP) to discuss the feasibility of proposing a portable generator (Option 3) as an alternative to the currently permitted permanent generator.

The Consultant will review the three (3) proposed options with City staff, coordinate with HUD to confirm the proposed options meet the mitigation criteria and then provide a memorandum summarizing the options with a recommended approach.

**Deliverables:** The following deliverable shall be provided under Task 1:

- Preliminary design sketches.
- Preliminary Design Memorandum.

### **Task 2 – Design and Bid Document Development**

Once a mitigation approach is approved by the City, the Consultant will perform the following design tasks:

- Analyze and Design the selected concrete structure (Options 1 or 2) in accordance with the 2023 Florida Building Code (8<sup>th</sup> Edition).
- Develop revised mechanical site plans associated with the proposed modifications.
- Coordinate electrical site plan revisions with BEC.

- Modify technical specifications for the proposed modifications.
- Develop an updated OPC for the project.

**Deliverables:** The following deliverables shall be provided under Task 2:

- Updated design package including 11" x 17" plan sheets and technical specifications.
- Updated project OPC.

### **Task 3 – Permitting**

If Option 3 is a feasible alternative, the consultant will perform the following tasks:

- The Consultant submit for permits through the Broward County Environmental Protection and Growth Management Department (BCEPGMD) and the Florida Department of Environmental Protection (FDEP) for the proposed portable generator. No other permits from agencies such as Broward County Highway Construction and Engineering Division (BCHCED) or Florida Department of Transportation (FDOT) are anticipated or included in this scope of work.
- The Consultant will prepare an Engineering Report for the new permit or permit modification. The Engineering Report is required as part of the Florida Department of Environmental Protection (FDEP) permitting process.
- The Consultant will prepare permit application packages for submittal to the regulatory agencies associated with the lift station improvements. Permit applications will require City signatures and all permitting fees will be paid by the City.
- The Consultant shall respond to reasonable permit comments from the regulatory agencies.

**Deliverables:** The following deliverables shall be provided under Task 3:

- Permit application packages for signature by the City.

### **Project Assumptions**

- This proposed scope of work is in addition to the current contract.
- Tasks 1 through 6 of the current contract are complete.
- Design and permitting modifications are limited to the emergency generator system only. No other design elements of the Lift Station #13 replacement project have been modified.
- The current contract budgets for Bidding Assistance and Post Design Services are still active and have not been modified with this proposal.
- City shall provide and coordinate complete Front-End documents.
- All lift station specifications and details will be based on Broward County Standards.
- City will provide all permit application fees if needed.

## Additional Services

The Consultant will provide, as requested and authorized by the City, additional services that may be required above and beyond those described in Tasks 1 through 3. These services may include but are not limited to such items as the following:

- Design/permitting modifications other than emergency generator changes resulting from the funding criteria discussed above.

## Project Schedule

The Consultant shall perform the services identified in Tasks 1 – 2 within 150 days of the written Notice to Proceed. Task 3 if needed is subject to permit agency review.

## Method of Compensation

The Consultant will accomplish the services outlined in Tasks 1 through 3 for an amount not to exceed \$79,915.00. The following task items represent a breakdown of the proposed fee for reference:

Task 1 – Preliminary Design and Mitigation Coordination	\$14,335.00
Task 2 – Design and Bid Document Development	\$53,230.00
Task 3 – Permitting	\$12,350.00
<b>Not to Exceed Amount</b>	<b>\$79,915.00</b>

## Closure

The terms and conditions of the City of Hallandale Beach’s “Continuing Professional Architectural and Engineering Services and Other Services; RFP 2018-2019-012” shall govern this scope of services.

I appreciate this opportunity to submit this proposal. If you have any questions or need additional information, please contact me at (954) 535-5100.

Very truly yours,

**KIMLEY-HORN AND ASSOCIATES, INC.**



Gary R. Ratay, P.E.  
Vice President



## WORK PLAN - FEE SCHEDULE

PROJECT: Lift Station #13 Rehabilitation - Amendment 1						SHEET:					
CLIENT: City of Hallandale Beach						PROJECT NO.					
ESTIMATOR: Gary R Ratay						DATE: 08/12/24					
DESCRIPTION:	Senior Engineer	Associate Engineer	Director Engineer	Project Manager	Project Engineer	Engineer	Junior Engineer	Support Specialist	Electrical Sub	Line Total	Task Total
<b>Task 1 - Preliminary Design and Mitigation Coordination</b>											
Develop preliminary design options for concrete structure	4				6	6				\$3,030.00	
Generator vendor coordination	2					4				\$1,140.00	
Research and coordinate portable generator sizing and selection					2	4			\$3,500.00	\$4,450.00	
Develop preliminary OPC	1				2	4				\$1,220.00	
Preliminary coordination with Broward County on permit impacts	2				4					\$1,240.00	
Coordinate with City and HUD	3			3						\$1,455.00	
Prepare Design Memorandum	1				4	4		2		\$1,800.00	\$14,335.00
<b>Task 2 - Design and Bid Document Development</b>											
Concrete structure design		20		40	60	60				\$33,100.00	
Develop mechanical site plan revisions	4				10	20				\$5,830.00	
Develop and coordinate electrical site plan revisions					4	6			\$6,500.00	\$8,100.00	
Revise technical specifications	4				6	6				\$3,030.00	
Update project OPC					2	4				\$950.00	
Prepare and submit updated design package	2				2	4		2	\$500.00	\$2,220.00	\$53,230.00
<b>Task 3 - Permitting</b>											
Coordinate with Applicable Permitting Agencies					2	4				\$950.00	
Prepare engineering report	4			6	6	12		2		\$5,450.00	
Prepare permit applications	2			2	6	6		2		\$3,150.00	
Submit and respond to reasonable permit comments	2			2	4	6		2		\$2,800.00	\$12,350.00
<b>TOTAL HOURS</b>	<b>31</b>	<b>20</b>	<b>0</b>	<b>53</b>	<b>120</b>	<b>150</b>	<b>0</b>	<b>10</b>	<b>\$10,500.00</b>		
<b>LABOR RATE (\$/HOUR)</b>	<b>270.00</b>	<b>250.00</b>	<b>225.00</b>	<b>215.00</b>	<b>175.00</b>	<b>150.00</b>	<b>135.00</b>	<b>115.00</b>	<b>1.0</b>		
<b>SUBTOTAL</b>	<b>\$8,370.00</b>	<b>\$5,000.00</b>	<b>\$0.00</b>	<b>\$11,395.00</b>	<b>\$21,000.00</b>	<b>\$22,500.00</b>	<b>\$0.00</b>	<b>\$1,150.00</b>	<b>\$10,500.00</b>		
<b>PAGE TOTAL</b>										<b>\$79,915.00</b>	<b>\$79,915.00</b>