



February 20, 2025

Dean Mealy  
Town of Palm Beach  
951 Old Okeechobee Road  
Suite A  
West Palm Beach, FL 33401

**RE: *A-5 Submersible Pump Station Conversion***

Dear Dean,

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "CONSULTANT") is pleased to submit this proposal to The Town of Palm Beach ("TOWN" or "CLIENT") for providing professional engineering services related to the A-5 Submersible Pump Station Conversion in the Town of Palm Beach. Our project understanding, scope of services, and fee follows.

**Project Understanding**

Kimley-Horn recently completed an evaluation of the A-5 Pump Station to review the feasibility of converting the station from a wetwell/drywell style pump station to a conventional submersible wetwell pump station. The Town has requested Kimley-Horn to proceed with designing the conversion of the A-5 Pump Station to a conventional submersible wetwell pump station. The improvements are anticipated to require a FDEP permit and a Town of Palm Beach Building permit. At this time, it has not been determined if the project will require a review from Landmarks and/or ARCOM. It is understood that once the determination has been made, we will submit a separate proposal for Landmarks and/or ARCOM review if required. Below are the improvements identified for the site:

- Demolition of the existing electrical and mechanical equipment including pumps, pipes, blowers, ductwork, lighting, electrical panels, junction boxes, conduits, and wires
- Demolition of the above grade structural and architectural elements including masonry infill walls, concrete columns, concrete beams, concrete roof slab, roofing system, doors, windows, and louvers
- Demolition of underground elements of the wetwell and drywell including the concrete operator platform, concrete sewer influent spillway, handrails, access ladders, catwalk, and concrete pump/pipe supports
- Modification of the existing first floor concrete slab, drywell walls, and wetwell walls to accommodate construction of a new concrete valve vault structure adjacent to the existing wetwell, backfilling of the existing open drywell structure, and installation of new access hatches for the wetwell and new valve vault

- Evaluation of the underground structure walls to determine if modification is needed to withstand the new soil and hydrostatic loads from the backfilled drywell area
- Installation of interior bracing in the wetwell structure
- Installation of new submersible pumps and piping in the wetwell and valve vault
- Installation of new rack mounted electrical equipment including pump station control panel, pump motor starters, and RTU
- Rehabilitate wetwell and valve vault (new coating)
- Replacement of the driveway with turf blocks

## Scope of Services

### *Task 1 – Design Phase Services*

We will attend a kickoff meeting with the Town to discuss the project goals. We will visit the site two times to support the design services. Kimley-Horn will perform design services to prepare construction plans and specifications for the pump station improvements suitable for construction and submittal to Palm Beach County Health Dept. and the Town's Building Department containing the following information:

1. Cover Sheet
2. Overall Site Plan
3. A-5 Demolition First Floor Plan
4. A-5 Demolition Plan Wetwell and Drywell
5. A-5 Demolition Sections 1
6. A-5 Demolition Sections 2
7. A-5 Proposed Site Plan
8. A-5 Proposed Mechanical Plan Wetwell and Valve Vault
9. A-5 Proposed Mechanical Wetwell and Valve Vault Sections and Details
10. A-5 Proposed Structural Plan Wetwell and Valve Vault
11. A-5 Proposed Structural Wetwell and Valve Vault Sections and Details
12. A-5 Odor Control and Details
13. A-5 Wetwell Concrete Repair Details
14. General Construction Details Sheet (2 Sheets)
15. Electrical Notes & Legend
16. Overall Electrical Site Plan
17. A-5 Electrical Demolition Plan
18. A-5 Electrical Equipment Plan
19. S-2/A-5 Online Diagram
20. A-5 I&C Diagram/Riser
21. A-5 Control Panel Schematics
22. A-5 Control Panel Details

- 23. A-5 RTU Panel Schematics
- 24. Electrical Detail Sheet(s)
- 25. Landscape and Irrigation Plan
- 26. Technical Specifications

Electrical plans and specifications will be prepared by a subconsultant employed by Kimley-Horn. Kimley-Horn will prepare general civil, mechanical, and structural plans and technical specifications. We will complete a landscape/vegetation survey around the perimeter of the A-5 Pump Station Building to define the existing landscaping material which will be included in the construction document as a disposition plan. The site plans will be developed using the existing record drawings and field measurements. If it is determined that a survey is required during the permit approval process, we can provide this as an additional service.

We will submit plans and specifications for review at 60% and 90% completion stages, meet with the Town to review their comments, and accommodate one round of reasonable requests for revisions by the Town after each review. We will provide an opinion of probable construction cost at the 90% design stage and update this document with the final design submittal.

### *Task 2 – Permitting Services*

Kimley-Horn will prepare and submit the appropriate Florida Department of Environmental Protection (FDEP) permit application with supporting documentation, reports, and computations for the Owner's signature and subsequent transmittal to the City of West Palm Beach and the Palm Beach County Health Department. We will respond to one (1) reasonable request for additional information (RAI) from the Health Department. The \$500 application fee is included within this task.

### *Task 3 – Bid Phase Services*

Kimley-Horn will attend the pre-bid meeting, review the bid proposal from the apparent low bidder, and prepare a bid tabulation and memorandum to the Town containing our findings after our review of the bids. We will also assist the Town with responding to questions received from prospective bidders, if required. We will provide up to 5 signed and sealed copies of the construction documents for the Town to distribute to the selected contractor for permitting. We will respond to one round of reasonable comments from the building department after submittal by the Town/contractor, if required. We will provide an "Issued for Construction" set of construction documents incorporating permit comments and any revisions that occurred during the bid advertisement.

## **Additional Services**

Any services not specifically provided for in the above scope, as well as any changes in the scope you request, will be considered additional services. These services will be performed based on proposals approved by the Town prior to the performance of those requested additional services. Additional services we can provide include, but are not limited to, the following:

- Surveying and Mapping, Construction Layout
- Landmarks and/or ARCOM Review and Approval Process
- Field Engineering
- Off-site improvements
- Construction Phase Services

## **Information Provided By the Town**

We shall be entitled to rely upon the accuracy of information provided by others in the performance of professional services. It is anticipated that the following items will need to be provided to Kimley-Horn by the Town during the project.

- Access to the site
- Available record drawings and data

## **Schedule**

We will provide our services as expeditiously as practical to meet a mutually agreed upon schedule. It is understood these improvements are desired to be constructed in the summer of 2026.

## Fee and Billing

Kimley-Horn will perform the services described in this Scope of Services on an hourly basis in accordance with our Contract with the Town. It is recommended that the following budgets be established for these services:

Task 1 – Design Phase Services	\$131,700
Task 2 – Permitting Services	\$ 10,550
Task 3 – Bid Phase Services	\$ 9,050
Total	\$151,300

## Closure

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the terms and conditions in the Professional Services Agreement between the Town of Palm Beach and Kimley-Horn and Associates, Inc, which are incorporated by reference. As used in the Agreement, the term "CONSULTANT" shall refer to Kimley-Horn and Associates, Inc., and the term "TOWN" or "CLIENT" shall refer to The Town of Palm Beach.

We appreciate the opportunity to propose these services to you.

Very truly yours,

## KIMLEY-HORN AND ASSOCIATES, INC.



Jason Lee, P.E.  
Vice President

## Attachment

K:\WPB\_Civil\General\Lee\Proposals\Palm Beach\D-3 Generator & E-7 Lift Station Improvements\D-3 Generator Replacement and E-7 Lift Station Improvements.docx

ESTIMATE FOR ENGINEERING SERVICES

PROJECT:	A-5 Submersible Pump Station Conversion										SHEET 1 of 1		
CLIENT:	Town of Palm Beach										FILE NO.		
ESTIMATOR:	JRL										DATE: 02/20/25		
												ALLOCA 0.0000	
DESCRIPTION:	DIRECT LABOR (MAN-HOURS)												
See Scope of Services	Principal Engineer	Chief Engineer	Sr. Eng Advisor	Sr. Prof. Eng	Reg. Prof	Engineer Intern	Analyst	Sr. Admin	Sr. Designer	SUB (C&W)	EXP	LINE TOTAL	
												\$0	
<b>Design Phase Services</b>												\$0	
Kickoff Meeting			3.0				3.0					\$1,307	
Site Visit (2)			6.0				8.0					\$2,905	
Update Hydraulic Calculations	2.0		6.0				16.0				\$68	\$4,927	
Wetwell Hatch Selections / Supplier Coordination	1.0		4.0				8.0	2.0				\$2,971	
A-5 Top Slab Structural Design	1.0		4.0				12.0					\$3,302	
A-5 Wetwell Wall Structural Design	2.0		8.0				24.0					\$6,604	
A-5 Valve Vault Design	1.0		4.0				12.0					\$3,302	
A-5 HDPE Wetwell Piping Supports	1.0		2.0				8.0					\$2,140	
A-5 Odor Control Selection Calcs	2.0		6.0				16.0	2.0				\$5,111	
Develop Construction Phasing Plan	2.0		6.0				4.0					\$3,112	
Construction Plans												\$0	
Cover Sheet							1.0					\$146	
Overall Site Plan	1.0		3.0				8.0					\$2,430	
A-5 Demolition First Floor Plan			6.0				12.0					\$3,487	
A-5 Demolition Plan Wetwell and Drywell	1.0		6.0				12.0					\$3,882	
A-5 Demolition Sections 1	1.0		3.0				12.0					\$3,012	
A-5 Demolition Sections 2	1.0		3.0				12.0					\$3,012	
A-5 Proposed Site Plan	1.0		4.0				12.0					\$3,302	
A-5 Proposed Mechanical Plan Wetwell and Valve Vault	1.0		4.0				12.0					\$3,302	
A-5 Proposed Mechanical Plan Wetwell and Valve Vault Sections	1.0		4.0				12.0					\$3,302	
A-5 Proposed Structural Plan Wetwell and Valve Vault	1.0		6.0				16.0					\$4,464	
A-5 Proposed Structural Plan Wetwell and Valve Vault Sections	1.0		6.0				16.0					\$4,464	
A-5 Odor Control Details	1.0		3.0				12.0					\$3,012	
A-5 Wetwell Concrete Repair Details	1.0		3.0				12.0					\$3,012	
General Construction Details 1	1.0		3.0				12.0					\$3,012	
General Construction Details 2	1.0		3.0				12.0					\$3,012	
A-5 Electrical Plan and Details	1.0		3.0				6.0			10500.00		\$12,638	
A-5 Landscape Disposition Plan	1.0		8.0				16.0					\$5,044	
A-5 Landscape and Irrigation Plan	1.0		8.0				16.0					\$5,044	
Technical Specifications	1.0		16.0				24.0	8.0				\$9,536	
OPC			12.0				24.0					\$6,974	
60 and 90 review meetings and submittals	1.0		8.0				16.0	4.0				\$5,548	
Respond to comments and produce final plans	1.0		4.0				16.0	4.0				\$4,388	
												\$0	
<b>Permit Phase Services</b>												\$0	
Prepare Permit Application	1.0		2.0				4.0	1.0			\$46	\$1,729	
Prepare Supporting Documentation	1.0		2.0				4.0	2.0				\$1,809	
Permit Application Fee								2.0		750.00	\$500	\$1,502	
Submit to City of WPB							2.0	2.0				\$543	
Submit to PBCHD							2.0	2.0				\$543	
Respond to Comments	1.0		3.0				6.0	1.0				\$2,264	
Respond to TOPB Building Permit Comments			3.0				8.0	1.0				\$2,160	
												\$0	
<b>Bid Phase Services</b>												\$0	
Prepare Documents	1.0		2.0				8.0	2.0				\$2,391	
Attend Pre-Bid Meeting, attend field visits, prepare minutes			2.0				4.0	2.0		750.00	\$90	\$2,254	
Respond to Contractor RFIs			4.0				8.0	3.0				\$2,702	
Review Bids and prepare summary memorandum			4.0				2.0	2.0				\$1,703	
												\$0	
												\$0	
												\$0	
<b>TOTAL HOURS</b>	<b>35.0</b>	<b>0.0</b>	<b>187.0</b>	<b>0.0</b>	<b>0.0</b>	<b>450.0</b>	<b>0.0</b>	<b>40.0</b>	<b>0.0</b>	<b>12000</b>	<b>703</b>	<b>\$151,300.00</b>	
<b>LABOR (\$/HOUR)</b>	<b>395.00</b>	<b>355.00</b>	<b>290.00</b>	<b>230.00</b>	<b>183.76</b>	<b>145.57</b>	<b>133.43</b>	<b>125.88</b>	<b>246.60</b>	<b>1.00</b>	<b>1.0</b>		
<b>ALLOCATION</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		
<b>TOTALS</b>	<b>13,825.00</b>	<b>0.00</b>	<b>\$4,230.00</b>	<b>0.00</b>	<b>0.00</b>	<b>65,506.50</b>	<b>0.00</b>	<b>\$,035.20</b>	<b>0.00</b>	<b>12,000.00</b>	<b>703.30</b>	<b>\$151,300.00</b>	