

## **FIRST AMENDMENT TO TASK ORDER NO. 3**

### **Additional Engineering Services – 138kV Canal Switchyard**

THIS FIRST AMENDMENT TO TASK ORDER No. 3 (“Amendment”) is made on \_\_\_\_\_, between the **City of Lake Worth Beach**, a Florida municipal corporation located at 7 North Dixie Highway, Lake Worth, Florida 33460 ("City") and **Power Engineers, Inc.**, a Florida corporation ("Consultant").

#### **1.0 Project Description:**

The City desires the Consultant to provide those additional services as identified herein and generally described as: **Additional scope of work and design for the 138kV Canal Switchyard** (the “Project”). The Project is described in the consultant’s Project Change Request, dated November 29<sup>th</sup>, 2021, and is attached hereto as **Exhibit “1”** and incorporated herein.

#### **2.0 Scope**

Under this Amendment, the Consultant will provide additional professional services to the City as detailed in the **Consultant's Project Change Request attached hereto and incorporated herein as Exhibit "1"**. Additional services to be provided under this amendment include; Grounding study modeling, site entrance & exit design modifications, Microwave Radio and Camera Poles engineering and design, Transmission line loading analysis, remittance and payment for SFWMD permit application and lightning protection analysis for the Overhead Protection Ground Wire (OPGW) fiber optic cable.

#### **3.0 Schedule**

The services to be provided under this Amendment shall be completed concurrently with the initial scope of work under Task Order No. 3. An additional **60** calendar days will be added to the overall project duration following the City's approval of this Amendment or the issuance of a Notice to Proceed.

#### **4.0 Compensation**

This Amendment is issued for a time and expense, not to exceed amount, of **\$51,390**. The attached proposal identifies all costs and expenses anticipated in the time and expense, not to exceed amount.

#### **5.0 Project Manager**

The Project Manager for the Consultant is Ivette Sanchez, phone: 407-341-6907; email: [ivette.sanchez@powereng.com](mailto:ivette.sanchez@powereng.com); and, the Project Manager on behalf of the City is Carl Turner, P.E.; with the Florida Municipal Power Agency, phone: 321-239-1054; email: [Carl.Turner@fmpa.com](mailto:Carl.Turner@fmpa.com); and the Project Manager for the City is Paul Nicholas, phone: 561-533-7353; email: [Pnicholas@lakeworthbeachfl.gov](mailto:Pnicholas@lakeworthbeachfl.gov)

#### **6.0 Progress Meetings**

The Consultant shall schedule periodic progress review meetings with the City Project Manager as necessary but every 30 days as a minimum.

## **7.0 Limitation of Liability**

The City agrees to limit CONSULTANT's liability, to the City and to those under contract with the City to perform the work under the scope of the Project, for insurable events arising from the CONSULTANT's performance under this Task Order to Two Million Five Hundred Thousand Dollars (\$2,500,000.00). Except for the CONSULTANT's agreement and obligation to indemnify and hold harmless under the Agreement, the CONSULTANT's liability for non-insurable events including breach of contract shall not exceed \$51,390 under the proposed Amendment for this project.

## **8.0 Authorization**

This Amendment is issued in compliance with the Consultants' Competition Negotiation Act, section 287.055, Florida Statutes, and pursuant to the Agreement for Professional Services for Electric Transmission and Generation Options between the City of Lake Worth and the Consultant, dated May 1<sup>st</sup>, 2018 ("Agreement" hereafter). If there are any conflicts between the terms and conditions of this Amendment and the Agreement, the terms and conditions of the Agreement shall prevail; however, the specific scope of services set forth in this Amendment shall take precedence over any other more general description of services.

## **9.0 Confidentiality**

The information provided to the Consultant under this Amendment by the City will contain proprietary business information, trade secret information and information that is otherwise confidential and/or exempt from public disclosure under Florida law. Accordingly, the Consultant shall keep confidential, and shall not disseminate to any third party or use for any purpose other than the performance of this Amendment (except with the written authorization from the City), any information received from the City arising from or related to the performance of this Amendment. If Consultant receives a request and/or legal process to disclose any City information, the Consultant shall promptly notify the City and provide the City an opportunity to take appropriate action to address the request and/or legal process.

**REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK**

IN WITNESS WHEREOF, the parties hereto have made and executed this Amendment on the day and year first above written.

**CITY OF LAKE WORTH BEACH, FLORIDA**

By: \_\_\_\_\_  
Betty Resch, Mayor

ATTEST:

By: \_\_\_\_\_  
Melissa Ann Coyne, CMC, City Clerk

APPROVED AS TO FORM AND  
LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL  
SUFFICIENCY

By: \_\_\_\_\_  
Glen J. Torcivia, City Attorney

By: \_\_\_\_\_  
Bruce T. Miller, Financial Services Director

CONTRACTOR: **Power Engineers, Inc.**

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

[Corporate Seal]

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

STATE OF \_\_\_\_\_)  
COUNTY OF \_\_\_\_\_)

THE FOREGOING instrument was acknowledged before me by means of  physical presence or  online notarization on this \_\_\_\_ day of \_\_\_\_\_ 2021, by \_\_\_\_\_, as the \_\_\_\_\_ [title] of **Power Engineers, Inc.**, a Florida Corporation authorized to do business in the State of Florida, who is personally known to me or who has produced \_\_\_\_\_ as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONTRACTOR to the same.

\_\_\_\_\_  
Notary Public Signature

Notary Seal:

**EXHIBIT "1"**

(Consultants Project Change Request No. 1)

**Project Change Request****PCR issue Date:** 11/29/2021**PCR Number:** 01**To:** Paul Nicholas, David Martyniuk**PCR Revision No.:** 1.0**Originator:** Ivette Sanchez**PCR Name:** City of Lake Worth Beach**Related PCN:** NA**Project Number** 170415**PCN Issue Date:** NA**Project Name:** 138kV Canal Switchyard Station**PCN Approval Date:** NA**Developed By:** Ivette Sanchez**Event/ Decision Justifying Change:**

Additional civil, substation and transmission engineering and design efforts as outlined and described below:

1. FCDIST Module and CDEGS Model
2. Additional Design for Entrance to Canal Distribution Station
3. Additional Design for Entrance to Canal Switchyard for FP&L – Coconut Road
4. Entrance Roads and Traffic PBC RAI Resolutions
5. Microwave and Cameras Poles Engineering and Design
6. T-Structure Load Analysis
7. SFWMD Permit Fee Payment
8. Lightning Analysis for OPGW

**Change Description:****1. FCDIST Module and CDEGS Model**

POWER to use FCDIST software to complete the grounding system modeling. Delivery to include the grounding report and system model.

Efforts for this task included:

- a. FCDIST Engineering Study (\$5,075).

**2. Additional Design for Entrance to Canal Distribution Station**

Additional Entrance to Distribution station which modified the site circulation, and required additional adjustments to layout and grading plans for the station. Additional impervious also required a modification to the stormwater calculations for this work, plans modifications, Stormwater and Permitting plans to straighten out the angled drive per customer request. Additional permitting required for entrance with PBC Engineering & Public Works Land Development Department, separate from other project related permits.

Efforts for this task included:

- a. Additional Entrance Engineering, Design and Permitting (\$8,860). This work was not planned for or included in our initial proposal/fee.

**3. Additional Design for Entrance to Canal Switchyard for FP&L – Coconut Road**

Additional entrance to Canal Switchyard on Coconut Road to accommodate FP&L having their own separate entrance without having to enter CLWB's substation entrance on Davis Road. Additional entrance permitting required with PBC Engineering & Public Works Land Development Department, separate from other project related permits.

## Project Change Request

Efforts for this task included:

- a. Additional Entrance Engineering, Design and Permitting (\$4,700). This work was not planned for or included in our initial proposal/fee.

#### **4. Entrance Roads and Traffic PBC RAI Resolutions**

Address PBC Local Road Review Comments and . This includes creation of requested details sections, additional drawings and meetings with agencies.

Efforts for this task included:

- a. Effort to address comments and Traffic PBC RAI's for added entry roads. This work was not planned for or included in our initial proposal/fee. (\$16,665).

#### **5. Microwave and Cameras Poles Engineering and Design**

CLWB requested the addition of cameras and radio poles to be installed at both Distribution and Transmission stations. Pole structures design templates created in the 25kV Canal Distribution Project Change Request (PCR) #2 will be used to incorporate in the transmission physical layout.

Efforts for this task included:

- a. Incorporate poles in transmission physical layout (\$2,000).

#### **6. T-Structure Load Analysis**

Analyze two (2) representative structures one (1) from each line section to evaluate the impact of replacing the existing 7 No. 8 Alumoweld with a larger OPGW. Additional analyses to assess if current line configuration can support an ADSS from a clearance perspective.

Efforts for this task included:

- a. T-Structure Load Analysis (\$10,080).

#### **7. SFWMD Permit Fee Payment**

CLWB requested POWER to submit permit payment to the South Florida Water Management District (SFWMD).

Efforts for this task included:

- a. SFWMD Permit Fee (\$2,000).

#### **8. Lightning Analysis for OPGW**

This evaluation essentially calculates a minimum coulomb rating which determines the minimum diameter of the outer layer required to withstand the expected worst case lightning strike over the next 30 years (or other period). This is based on the IEEE 1243, ground flash density maps, and lightning characteristics based on a FL state research paper. This information would then be passed along to AFL to finalize the fiber design. This will likely increase the OPGW diameter slightly.

Efforts for this task included:

- a. Lightning Analysis (\$2,000).

#### **Assumptions (to complete project):**

- None

## Project Change Request

**Requested PCR Approval Date:** 12/3/2021

**Estimated Additional Cost:**

Activities	Budget
1. FCDIST Engineering Study	\$ 5,075.00
2. Additional Entrance to Canal Distribution Station	\$ 8,860.00
3. Additional Entrance to Canal Switchyard for FP&L – Coconut Road	\$ 4,700.00
4. Entrance Roads and Traffic, Design PBC RAI Resolutions	\$ 16,665.00
5. Microwave and Cameras Poles Engineering and Design	\$ 2,010.00
6. T-Structure Load Analysis	\$ 10,080.00
7. SFWMD Permit Fee Payment	\$ 2,000.00
8. Lightning Analysis for OPGW	\$ 2,000.00
<b>Total Change Order (\$)</b>	<b>\$ 51,390.00</b>

**Impact on Schedule:**

None

**Impact on Deliverables:**

None

**Potential Impacts to other Project(s)/Department(s):**

None

**Submitted by:** Ivette Sanchez

**Approved by:** Paul Nicholas



**Date:** 11/29/2021

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

**Disciplines Impacted (check appropriate boxes):**

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Project Mgmt.    | <input type="checkbox"/> Electrical      | <input type="checkbox"/> Environ. /ROW             |
| <input type="checkbox"/> Project Control  | <input type="checkbox"/> Controls        | <input type="checkbox"/> POWER 360                 |
| <input checked="" type="checkbox"/> Civil | <input type="checkbox"/> Substation      | <input type="checkbox"/> Communications            |
| <input type="checkbox"/> Structural       | <input checked="" type="checkbox"/> Line | <input type="checkbox"/> Construction Mgmt.        |
| <input type="checkbox"/> Mechanical       | <input type="checkbox"/> Studies         | <input type="checkbox"/> Testing and commissioning |
| <input type="checkbox"/> Other            |  |  |

cc: