

**SPECIFIC AUTHORIZATION NO. 6**

**CITRUS AVENUE BRIDGE OVER FEC RAILROAD REHABILITATION  
PROJECT**

**PROFESSIONAL SERVICES**

**SCOPE OF SERVICES**

Pursuant to the provisions contained in the “RFQ No. 2013-005 – Engineering Services” between The City of Fort Pierce (hereinafter referred to as “CITY”) and Kimley-Horn and Associates, Inc. (hereinafter referred to as “ENGINEER”) dated the \_\_\_\_\_ day of \_\_\_\_\_ 2018, CITY authorizes the ENGINEER to provide services in accordance with the terms and conditions set forth in RFQ 2013-005.

The CITY desires additional services related to the Citrus Avenue Bridge Rehabilitation work, hereinafter referred to as the “Project”.

This Project is a City of Fort Pierce funded project.

**Section 1 - Scope of Work and Schedule of Services**

ENGINEER will provide the following services in accordance with this AUTHORIZATION:

Professional consultant services are required for the preparation of engineering plans and specification package to support the design, permitting, and bidding of improvements to the Citrus Avenue Bridge crossing the FEC Railroad. The rehabilitation repairs will address the deficiencies identified in the 2016 Florida Department of Transportation (FDOT) bridge inspection report. The scope of services are more particularly described in Exhibit “A”, attached hereto and incorporated by reference herein.

**Section 2 - Deliverables**

ENGINEER shall provide the following deliverables to the CITY as listed below and as described in Exhibit “A”, attached hereto and incorporated by reference herein:

Field Review Meeting	4 Weeks from NTP
60% Design Drawings	8 Weeks from NTP
90% Design Drawings	12 Weeks from NTP
100% Design Drawings	14 Weeks from NTP

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**Section 3 - Method and Amount of Compensation**

CITY will compensate ENGINEER for services under this AUTHORIZATION in accordance with the payment method as set forth in the attached Exhibit "B", attached hereto and incorporated by reference herein.

The budget (or fee) for the services is not to exceed \$65,916 \_\_\_\_\_

**Section 4 - CITY's Responsibilities**

CITY hereby designates City Engineer or designee as CITY's representative pursuant to Section 8 of the AGREEMENT.

**Section 5 - Other Provisions**

All applicable portions of the AGREEMENT not specifically modified herein shall remain in full force and effect and are incorporated by reference herein.

**IN WITNESS WHEREOF**, this AGREEMENT, consisting of eight pages has been fully executed on behalf of the ENGINEER by its duly authorized officer, and the CITY has the same to be duly executed in its name and in its behalf, effective as of the date herein above written.

**CITY OF FORT PIERCE, FLORIDA:**

By: \_\_\_\_\_  
Linda Hudson, Mayor

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

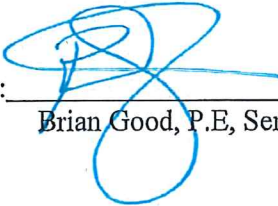
Attest: \_\_\_\_\_  
Linda Cox, City Clerk

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**PROFESSIONAL SERVICES**

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

By:  \_\_\_\_\_  
Brian Good, P.E, Senior Vice President

Date: 11/29/18

**APPROVED AS TO FORM & CORRECTNESS:**

By: \_\_\_\_\_  
Ben Bryan, Jr., City Attorney

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

**EXHIBIT "A"**  
**DETAILED DESCRIPTION OF THE PROJECT**  
**AND**  
**ENGINEER SCOPE OF SERVICES**

**CITRUS AVENUE BRIDGE OVER FEC RAILROAD REHABILITATION PROJECT**

**PROJECT DESCRIPTION:**

The CITY has requested that structural and non-structural repairs be designed to support the rehabilitation of the Citrus Avenue bridge over the Florida East Coast (FEC) railroad right-of-way. The rehabilitation repairs will address the deficiencies identified in the 2016 Florida Department of Transportation (FDOT) bridge inspection report. The repair measures may consist of, but not limited to, the following:

- Spall repairs
- Revetment repairs
- Bridge deck  
spall/delamination repair
- Pile spall repair
- Expansion Joint Header  
repairs
- Repair or replacement of  
existing armored angle  
joint headers
- Replace expansion joint  
seals
- Clean and paint steel  
beams
- Washout / undermining  
restoration
- Clean and paint steel  
bearings
- Asphalt Patch
- Vegetation removal

## DESCRIPTION OF TASK DELIVERABLES:

The ENGINEER agrees to perform professional roadway design and related services in connection with the project as required and set forth in the following:

### A. General:

1. The ENGINEER will endeavor not to duplicate any previous work done on the project. After issuance of written authorization to proceed, the ENGINEER shall consult with the CITY to clarify and define the requirements for the project and review available data.
2. The ENGINEER will attend conferences with the CITY and its representatives upon reasonable request.
3. In order to accomplish the work described under this Task Order in the time frames and conditions set forth, the ENGINEER will observe the following requirements:
  - a. The ENGINEER will complete his work on the project within the time allowed by maintaining an adequate staff of registered engineers, draftsmen, and other employees on the work.
  - b. The ENGINEER will design the project in such a manner as to be in reasonable conformance with applicable federal, state and local laws, and shall comply with the Florida Department of Transportation (FDOT) Plans Preparation Manual Design Criteria, latest edition.
  - c. The ENGINEER will prepare all necessary sketches and completed application forms to accompany the CITY's applications for required federal, state, or local permits.
  - d. The ENGINEER will cooperate with the CITY in order that all phases of the work may be properly scheduled and coordinated.
  - e. The ENGINEER will send a complete preliminary set of construction plans to any city, county, state, regional or federal regulatory agency from which a permit or other approval is required prior to final approval of the design by the City Engineer, and will coordinate the project design with all applicable agencies.
4. Compensation to the ENGINEER for basic services shall be in accordance with Section IV – Compensation, of this Agreement, as mutually agreed upon by the

ENGINEER and CITY.

### Task 1 – Field Review

The ENGINEER will conduct a field review to verify the deficiencies identified in the FDOT Bridge Inspection Report and look for new deficiencies that may have occurred prior to the last FDOT Inspection. To assist in performing the visual A bucket truck or man lift is required to assess the underneath of the existing bridge superstructure.

The ENGINEER will meet with the CITY following the Field Review to discuss any changes and/or additions to the deficiencies identified within the FDOT Bridge Inspection Report.

### Task 2 – Permitting & Coordination

The ENGINEER will coordinate with FEC Railroad and Rinker Concrete relative to gaining access and approving the proposed bridge rehabilitation measures. Temporary improvements will need to be constructed within the FEC right-of-way to facilitate cleaning and protecting the existing bridge beams.

### Task 3 – Bridge Repairs Plans

In this task the ENGINEER will produce Bridge Repair Plans to address the deficiencies identified within the FDOT Bridge Inspection Report and potential deficiencies identified in the Field Review. The structural and non-structural repair measures will consist of, but not limited to, the following:

- Spall repairs
- Revetment repairs
- Bridge deck spall/delamination repair
- Pile spall repair
- Expansion Joint Header repairs
- Repair or replacement of existing armored angle joint headers
- Replace expansion joint seals
- Clean and paint steel beams
- Washout / undermining restoration
- Clean and paint steel bearings (Pending the condition of the bearings, see Additional Services)
- Asphalt Patch
- Vegetation removal

Based upon the repair plans developed, the ENGINEER will develop quantities and opinion of probable construction cost estimate.

#### Task 4 – Coatings Consulting Services

The ENGINEER will contract with a sub-consultant to provide Coatings Consulting Services for the Citrus Avenue bridge repair project. The scope of services will consist of the following:

- Conduct a field review and collect 4 samples of the existing coating to test for heavy metals (Lead, Cadmium, Chromium)
- Collect 2 samples to test for generic resin
- Prepare an existing coatings assessment report of the findings
- Assist the ENGINEER in developing project specific plan notes pertaining to maintaining, cleaning of the existing surfaces, and applying the new coating.

#### Additional Services

The FDOT Inspection Report identifies that the bearing pad rehabilitation is to consist of cleaning and painting. Upon completion of the Field Review, the ENGINEER will meet with the CITY to discuss the condition of bridge bearings. If the bridge bearings are deemed inoperable new bearing pads will need to be installed on the bridge. Installation of new bearing pads will require temporary jacking of the existing bridge beams and would be considered additional service. The scope of this additional service will include the following:

- Analysis of the existing bridge as needed to provide temporary jacking
- Existing bearing removal
- Design of new elastomeric bearing
- Design of shim plates as needed to match existing bearing heights

#### TIME OF PERFORMANCE:

Upon authorization to proceed by the CITY, final design documents are expected to take approximately fourteen (14) weeks from the Notice to Proceed (NTP).

Field Review Meeting	4 weeks following NTP
60% Design Drawings	8 weeks following NTP
90% Design Drawings	12 weeks following NTP
100% Design Drawings	14 weeks following NTP



**EXHIBIT "B"**

**COMPENSATION**

The CITY agrees to pay and the ENGINEER agrees to accept for services rendered pursuant to fees in accordance with the following:

- A. Professional Services Fee: The basic compensation mutually agreed upon by the ENGINEER and the CITY follows:

Lump Sum Tasks

<u>Task Description</u>	<u>Fee</u>
Field Review	\$ 11,900
Permitting & Coordination	\$ 9,840
Bridge Repair Plans	\$ 32,408
Coating Consulting Specialist	\$ 11,768
<b><u>Grand Total</u></b>	<b><u>\$ 65,916</u></b>

**City of Fort Pierce**  
**Citrus Avenue over FEC Railroad Bridge Repairs**  
**PROPOSED STAFF HOURS AND FEE**

TASK	PM / SR PRINCIPAL	SR PROFESSIONAL (ENGINEER)	PROFESSIONAL	ANALYST	SR TECH	TOTAL HOURS
	\$200.00	\$180.00	\$150.00	\$101.00	\$92.00	
<b>Task 1 - Field Review</b>						
Field review	10.0	30.0	30.0			70.0
	\$2,000.00	\$5,400.00	\$4,500.00	\$0.00	\$0.00	\$11,900.00
<b>Task 2 -Permitting/Coordination</b>						
FEC Railroad Permit	18.0	4.0	8.0			30.0
Rinker Concrete Coordination	12.0	4.0	8.0			24.0
	\$6,000.00	\$1,440.00	\$2,400.00	\$0.00	\$0.00	\$9,840.00
<b>Task 3- Citrus Avenue Bridge Repairs</b>						
<b>Task 3.1 - Meetings</b>						
Kick off Meeting	2.0		6.0			8.0
Post Field Review Meeting (summary of findings)	2.0		6.0			
Phase Review Meetings (2) (Includes Prep./Agenda/Minutes)	4.0	0.0	12.0			16.0
	\$1,600.00	\$0.00	\$3,600.00	\$0.00	\$0.00	\$5,200.00
<b>Task 3.2 - Bridge Repair Plans</b>						
Evaluate Field Information		4.0	6.0			10.0
Bridge Repair Plans		20.0	90.0	60.0		170.0
	\$0.00	\$4,320.00	\$14,400.00	\$6,060.00	\$0.00	\$24,780.00
<b>Task 3.3 - Quantities and cost estimate</b>						
Quantities and Opinion of Probable Construction Cost	0.0	4.0	6.0	8.0	0.0	18.0
	\$0.00	\$720.00	\$900.00	\$808.00	\$0.00	\$2,428.00
<b>Subtotal</b>	\$9,600.00	\$11,880.00	\$25,800.00	\$6,868.00	\$0.00	\$54,148.00
<b>Task 4 - Coatings Consulting Services</b>						
Coatings Specialist (Includes testing of existing coatings) (GPI Inc.)						\$9,768.00
<b>Task 5 - Expenses</b>						
Bucket Truck Rental						\$2,000.00
<b>Subtotal</b>						\$11,768.00
<b>Total</b>						\$65,916.00

Labor Fee	\$54,148.00
Expenses	\$11,768.00
<b>TOTAL FEE (NTE)</b>	<b>\$65,916.00</b>