

WORK ORDER NUMBER 2
43rd Avenue & 26th Street Intersection Improvements
Project Number: IRC-1808

This Work Order Number 2 is entered into as of this ___ day of _____, 2018, pursuant to that certain Continuing Consulting Engineering Services Agreement for Professional Services entered into as of this 17th day of April, 2018 (collectively referred to as the “Agreement”), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida (“COUNTY”) and KIMLEY-HORN AND ASSOCIATES, INC. (“Consultant”).

The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit C (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

EXHIBIT A – SCOPE OF WORK

43rd Avenue & 26th Street Intersection Improvements

The COUNTY desires to expand the 43rd Avenue & 26th Street intersection to accommodate the pending 43rd Avenue widening south of 26th Street to a five-lane urban non-divided section and the future contemplated expansion of 26th Street/ Aviation Boulevard to a four-lane urban divided thoroughfare roadway. The intersection will be expanded to provide for fully developed dedicated left and right turn auxiliary lanes in the remaining three approaches, then transitioning back to existing lane configurations. The intersection improvement will provide for pedestrian and bicycle lane facilities within the limits of the intersection improvement. The scope of work will also include a wayfinding monument sign, a pedestrian crosswalk lighted warning system and independent intersection roadway lighting.

A. Supplemental Design Survey:

The Consultant shall provide supplemental design survey services necessary to support and facilitate contemplated design and permitting activities associated with this project to reflect changes in field conditions that have occurred since the original Aviation Boulevard Widening Project design survey was completed. This task will consist of the preparation of

digital base map topographic surveys in accordance with the Florida Minimum Technical Standards set forth by the Florida Board of Professional Surveyors in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

B. Roadway Plans:

Roadway set of plans shall consist of the following:

	40%	80%	100%
Cover Sheet	P	S	F
Summary of Pay Items	P	S	F
Drainage Maps	P	S	F
Typical Sections	P	S	F
Summary of Quantities & General Notes	P	S	F
Project Layout	P	S	F
Plan and Profile Sheets (40 scale)	P	S	F
Special Details	P	S	F
Roadway Soil Survey	P	S	F
Cross Sections at 100 ft intervals	P	S	F
Stormwater Pollution Prevention Plans	P	S	F
Signing & Pavement Marking Plans (40 scale double plan)	P	S	F
Monument Signage	P	S	F
Signalization Plans	P	S	F
Lighting Plans	P	S	F
Construction Cost Estimate and Quantities	P	S	F

Notes: (P)-Preliminary, (S)-Substantially Complete, (F)-Final

The final design plans will be prepared in accordance with the Indian River County and Florida Department of Transportation (FDOT) standards to provide all elements necessary to accommodate the scope of work. This effort will include at a minimum; Key Sheet, Typical Section Sheet, General Notes Sheet, Plan and Profile Sheets, Cross Section Sheets, Erosion Control Sheets, Signalization Sheets, Opinion of Probable Construction Cost and other detail sheets as necessary to produce the construction bid plans.

The following additional data shall be utilized for development of the plans:

1. The roadway plans sheets will be drawn at a scale of 1" = 40' prepared on 11" x 17" sheets.

2. Plan sheets shall depict existing right-of-way, section lines, property lines, temporary construction easements, and centerline of construction. Horizontal control points with state plane coordinates for all PC's, PT's, curve radius, curve length and horizontal PI's shall be included on the Plan or summarized in an alignment table.
3. Signing and Pavement Markings will be included within the Construction Documents. All signing and pavement markings are to be prepared in accordance with the latest design standards and practices (MUTCD), FDOT Standard Specifications, Indexes, and COUNTY standards.
4. Plans shall include spot grades adequate to describe any proposed grading.
5. Match lines shall not be located within the limits of an intersection.
6. If applicable, soil boring information shall be plotted on cross sections with soil classification and high season water table.
7. All quantities shall reference FDOT Pay Item Numbers.
8. All details shall reference FDOT Index Numbers, where applicable.
9. All specifications shall reference the FDOT Specifications for Road and Bridge Construction. Any deviations or special specifications not included in FDOT Specifications will be provided in the Technical Specifications.
10. Initial (40% completion), interim (80% completion) and Final Plan (100% completion) Submittal shall include the following:
 - i. Three (3) Sets Plans.
 - ii. One (1) Opinion of Probable Construction Cost
 - iii. One (1) CD with drawings in PDF format.

The Consultant will be responsible for producing an opinion of probable cost (OPC) estimate and reviewing and updating the OPC when scope changes occur and/or at designated milestones of the project. A Summary of Pay Items sheet shall be prepared with all required Initial (40%), Interim (80%) and Final Plan (100%) submittals. The Final Plans will be provided signed and sealed. The plans will be prepared based upon English units. The design will be conducted in MicroStation and Geopak. The Final Plans will be provided in Autodesk Civil 3D format.

C. Drainage Design and Permitting:

The Consultant will perform drainage investigations and analysis necessary to prepare a design which will drain the project in accordance with the COUNTY, St. Johns River Florida Water Management District (SJRWMD), Indian River Farms Water Control District (IRFWCD) and U.S. Army Corps of Engineers (ACOE) design criteria.

1. The Consultant will submit a permit applications to the SJRWMD, IRFWCD and ACOE to support the proposed improvements.
2. The Consultant will submit the plans to the Federal Aviation Administration to obtain a letter of No Objection relative to the improvements proposed to be constructed within the intersection due to the proximity of Runway No. 4.
3. The Consultant will design for the enclosure of the IRFWCD sub-lateral located along the southside of 26th Street to accommodate the proposed intersection widening and signalization improvements.
3. A Stormwater Pollution Prevention Plan (SW3P) will be developed in conjunction with this project. The site specific SW3P is a requirement of both the EPA National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Construction Activities, and the FDEP Generic Permit for Stormwater Discharges from Construction Activities.
4. All permit fees will be paid directly by the COUNTY and are not included in the lump sum fees.

D. Signing and Pavement Marking Plans:

Signing and Pavement Marking plans shall include: Preparation of the plan layout, key map, quantities (including signing and pavement marking quantity), tabulation of quantities, and detail of major signs. Plans are to be prepared in accordance with the latest design standards and practices (MUTCD), FDOT Standard Specifications, Indexes, and shall be accurate, legible, complete in design and drawn at the same scale as the Roadway Plans, furnished in reproducible form.

E. Franchise Utility Coordination:

The Consultant will coordinate with franchise utility operators in the vicinity of the project such that the proposed construction activities can be developed to minimize impacts to existing utilities located within the project limits. Franchise utility adjustments, designed by the respective franchise utility, will be requested by the Consultant and reflected within the prepared construction documents.

F. Monument Signage:

The Consultant shall prepare construction plans to support the construction of a wayfinding monument sign complimentary to the newly constructed wayfinding monument sign constructed at Aviation Boulevard and Airport Drive. The Consultant shall prepare specific design documents indicating the style, size, materials, finishes, etc. necessary to construct the final approved sign. The Consultant shall coordinate with the City of Vero Beach and the Vero Beach Regional Airport Director. The Consultant shall also prepare a foundation planting plan to support the sign installation. It is not anticipated that an irrigation system will be required to support the foundation plantings.

G. Signalization Plans:

The COUNTY desires to prepare traffic signalization plans associated with the 43rd Avenue/ 26th Street intersection. It is understood that the proposed signalization improvements will consist of a mast arm traffic signal assembly at the subject intersection which will be designed to meet current IRC and FDOT standards. The plans will include the design and layout of proposed signal poles, signal heads, video detection, conduit, and pull boxes.

The plans will include all call outs, controller timing chart, signal head details, sign details, controller notes, signal operating plan, overhead street name sign design details, pole schedules, tabulation of quantities. The set of plans will include the following sheets: key sheet; tabulation of quantities; general notes; plan sheet; sign work sheets (if necessary) and strain pole schedule.

H. Lighting Plans:

The Consultant will develop lighting plans to support the intersection improvements. It is intended that the street lighting system will utilize standard City of Vero Beach Transmission and Distribution fixtures and poles and will not require a metered circuit.

EXHIBIT B – FEE SCHEDULE

The COUNTY agrees to pay and the Consultant agrees to accept for services rendered pursuant to this Agreement fees inclusive of expenses in accordance with the following:

A. Professional Services Fee

The basic compensation mutually agreed upon by the Consultant and the COUNTY is as follows:

Lump Sum Components

<u>Task</u>	<u>Labor Fee</u>
Supplement Design Survey	\$ 4,500
Roadway Plans	\$ 50,805
Drainage Design and Permitting	\$ 12,290
Signing and Marking Plans	\$ 15,835
Franchise Utility Coordination	\$ 9,420
Monument Signage	\$ 5,750
Signalization Plans	\$ 16,600
Lighting Plans	\$ 4,800
Project Total	<u>\$ 120,000</u>

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EXHIBIT C – TIME SCHEDULE

Upon authorization to proceed by the COUNTY, final design documents are expected to take approximately nine (9) months from the Notice to Proceed (NTP).

NTP	contingent upon BOCC approval
Initial Submittal (40% Design Drawings)	3 months following NTP
Interim Submittal (80% Design Drawings)	7 months following NTP
Final Submittal (100% Design Drawings)	9 months following NTP

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IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT:
KIMLEY-HORN AND ASSOCIATES,
INC.

BOARD OF COUNTY COMMISSIONERS
OF INDIAN RIVER COUNTY

By: 

Brian Good, P.E.

By: _____
Peter D. O'Bryan, Chairman

Title: _____
Senior Vice President

BCC Approved Date: _____

Attest: Jeffrey R. Smith, Clerk of Court and Comptroller

By: _____
Deputy Clerk

Approved: _____
Jason E. Brown, County Administrator

Approved as to form and legal sufficiency: _____
Dylan T. Reingold, County Attorney