

WORK ORDER NUMBER 52
43RD AVENUE PEDESTRIAN & BICYCLE IMPROVEMENTS PROJECT

This Work Order Number 52 is entered into as of this ___ day of _____, 2022, 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

The County desires to expand the pedestrian and bike lane networks and enhance their interconnectivity between communities. The County desires to design and permit 6-foot sidewalks and 5-foot paved bike lanes along both sides of 43rd Avenue between 12th Street and 18th Street, approximately 4,000 linear feet. This project will connect to and expand the pedestrian and bike lane facilities currently under construction within the SR 60 and 43rd Avenue Project. In addition to the pedestrian and bike lane improvements, the County desires to include milling and resurfacing plans for 43rd Avenue within the project limits.

A. Topographic Design Survey:

The Consultant will provide topographic design survey services necessary to support and facilitate contemplated design and permitting activities associated with this project. This task will consist of the preparation of digital base map topographic surveys in accordance with the Standards of Practice, established by the Board of Professional Surveyors and Mappers, Chapter 5J-17, Florida Administrative Codes, pursuant to current Section 472.027, Florida Statutes, per 5J-17.050 through 5J-17.052. The survey will include:

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1. Establishment of a project wide Horizontal Control Network within the PROJECT LIMITS. A Design Survey Baseline will be established and monumented. A minimum of three Design Survey Baseline monuments will be installed.
2. Establishment of a project wide Vertical Control Network within the PROJECT LIMITS. All elevations will be referenced to NAVD 1988 datum.

The limits of the topographic design survey are as follows:

43rd Avenue - between 12th Street and 18th Street, approximately 4,000 linear feet.
Topographic survey shall extend no less than 15 feet beyond the right-of-way.

B. Geotechnical Investigation:

The Consultant will retain the services of a Geotechnical sub-consultant to assist in evaluating the existing soil and roadway pavement conditions. The Geotechnical sub-consultant will provide the following Geotechnical Services:

1. Field Exploration Program
 - Six (6) pavement cores along the shoulder alternating sides
 - Ten (10) 6-foot deep hand augers alternating side of the roadway
2. Engineering Analysis and Report

The Geotechnical Sub-Consultant Engineer shall perform analysis of all the data obtained to evaluate subsurface conditions and develop engineering recommendations to guide site preparation procedures and foundation support.

C. Construction Documents:

The Construction plan set shall consist of the following:

PHASE SUBMITTALS	60%	75%	100%
Cover Sheet (Location map, Project Length, Engineer of Record)	C	F	F
General Notes	C	C	F
Summary of Pay Items/Quantities	P	C	F
Horizontal and Vertical Control Sheets (Benchmarks, Reference Points, Section Corners)	C	C	F
Details	P	C	F
Plan Sheets (40 scale)	C	C	F
Cross Sections at approximately 100 ft intervals, extending 10' beyond proposed right-of-way (1"=5' Vertically, 1"=20' Horizontally)	C	C	F
Signage & Pavement Marking Plans (40 scale) Included in Plan Sheets	P	C	F
Construction Cost Estimate and Quantities	C	C	F

Notes: P – Preliminary, C – Complete, but subject to change, F - Final

General Construction Plan Requirements:

2. Plans shall be prepared on 11" x 17" sheets.
3. Each phase submittal shall include drawings in PDF format.
4. Plan sheets shall depict existing right-of-way, section lines, property lines, 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.
5. Plans shall include spot grades adequate to describe any proposed grading. Spot grades will be provided to delineate ADA regulation compliance.
6. Match lines shall not be located within the limits of an intersection.
7. All quantities shall reference FDOT Pay Item Numbers.
8. All details shall reference FDOT Index Numbers.
9. All specifications shall reference to FDOT Specifications for Road and Bridge Construction. Any deviations are special specifications not included in FDOT Specifications are required in the Technical Specifications.
10. Initial (30% completion), preliminary (60% completion), interim (90%

completion) and Final Plan (100% completion) Submittal shall include the following:

- i. One (1) set of drawings in PDF format.
- ii. One (1) Opinion of Probable Construction Cost

The plans will be prepared based upon English units. Final design files will be submitted in AutoCAD format.

D. Signing and Pavement Marking Plans:

Signing and Pavement Markings will be included within the Roadway Plan set. Quantities will be provided in the Summary of Pay Items sheet. All signing and pavement markings are to be prepared in accordance with the latest design standards and practices (MUTCD), FDOT Standard Specifications, Indexes, and shall be accurate, legible, and complete in design.

E. Type I Categorical Exclusion:

The Consultant will attend one (1) kickoff meeting with the County to discuss the project details. The Consultant will review readily available GIS databases to determine listed species known in the area or those species that could potentially occur within the project corridor or immediate vicinity. This will also include a review of the existing land use/land cover as mapped by the South Florida Water Management District (SFWMD) and the existing soil survey. The Consultant will also request information from the Florida Natural Areas Inventory (FNAI) and the US Fish and Wildlife Service (USFWS) IPaC Trust Resources Report. Lastly, the Florida Department of Environmental Protection (FDEP) OCULUS database will be researched for existing contamination data within and adjacent to the project corridor. Following this desktop review, the Consultant will conduct field reconnaissance to review the project corridor. Representative photographs will be taken, and a photographic log will be prepared.

The Consultant will complete a Type I Categorical Exclusion checklist along with the environmental support document and accompanying maps. The maps prepared will include a location map, US Geological Survey (USGS) Topographic map, Natural Resources Conservation Service (NRCS) soils map, land use/land cover map, Federal Emergency Management Agency (FEMA) flood zone map, and a listed species map, if applicable. Upon approval from the County, the project will be entered into the Statewide Environmental Project Tracker (SWEPT).

F. Cultural Resource Assessment Survey:

These services will be conducted in compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, Chapter 267 of the Florida Statutes (F.S.), Chapter 1A-46 (Archaeological and Historical Report Standards and Guidelines), Florida Administrative Code (FAC), the conditions and specifications in the Florida Division of Historical Resources (FDHR) Module 3: Guidelines for Use by Historic Preservation Professionals (2003), and the FDHR June 2022 CRAS Sufficiency Checklist. The Principal Investigator will meet the Secretary of the Interior's Professional Qualification Standards (48 FR 44716) for archaeology, history, architecture, architectural history, or historic architecture.

Archival Research

Background research will include a review and analysis of the Florida Master Site File (FMSF) data to identify previous surveys and previously recorded resources within the project area and vicinity. An analysis of available historic and modern aerial photographs, historic General Land Office (GLO) plat maps and associated surveyors' notes, United States Geological Survey (USGS) 7.5-minute topographical maps, historic soil surveys, and pertinent environmental variables will also be conducted. This analysis will be used to reconstruct past land use and assess the potential for archaeological sites and historic resource within the project areas. Precolumbian period and historic period contexts will also be reviewed and developed to provide a framework within which the archaeological and historical records can be understood. A summary of the project area's archaeological and historic contexts and pertinent environmental features will be prepared from the results of the archival research. This information will inform the survey strategy and provide the context in which the significance of any resources identified during the project can be evaluated.

Cultural Resource Assessment Survey

The CRAS will include a survey to identify both archaeological sites and historic resources. Based on the proposed improvements, the area of potential effect (APE) will be narrowly defined and only resources directly within the APE will be documented.

Archaeological Survey

The archaeological survey will include a reconnaissance level survey to document existing conditions and determine where archaeological subsurface testing is feasible. Any area where archaeological subsurface testing is possible will be marked and coordination with the Sunshine 811 Call Center will be conducted to locate any underground utilities. Areas where excavation is not possible will be documented with field notes and photographs. Subsurface tests will be .5 m (20 inches) in diameter and dug to a minimum depth, subsurface conditions permitting, of one meter (3.3 feet). All excavated soils will be sifted through 6.4 mm (¼ inch) metal hardware cloth screen suspended from portable wooden frames. Any cultural materials recovered will be stored in plastic bags with all provenience data recorded. Field notes on each test performed

will be recorded, and the location of all tests will be clearly marked on aerial photographs of the project area. A Florida Master Site File form will be completed for any archaeological site identified during the survey.

Historic Resources Survey

A historic structures survey will be conducted to ensure that historic resources constructed in 1974 or earlier are identified and documented. Resources directly within the APE will be identified and documented on Florida Master Site File forms (FMSF). Photographs will be taken and a log kept recording the resource's physical location and compass direction of each photograph. Each resource's individual significance will then be evaluated for its potential eligibility for listing in the National Register of Historic Places (National Register). Historic physical integrity will be determined from site observations, field data, and photographic documentation.

Documentation and Report Preparation

A draft report presenting the methods, findings, evaluations, and recommendations of the cultural resource assessment will be prepared and submitted to Kimley-Horn for review and comment. The draft report will be submitted electronically. Any comments will be incorporated into the final report. The Consultant will prepare and submit the final report and associated documentation to the Florida State Historic Preservation Officer (SHPO)/FDHR.

G. Jurisdictional Permitting:

The Consultant shall prepare jurisdictional permit applications necessary to support the proposed improvements. The following agencies are anticipated to require applications/review to facilitate the proposed improvements:

- Saint Johns River Water Management District (SJRWMD) – Environmental Resource General Permit
- Indian River Farms Water Control District (IRFWCD) – Connection Permit
- Florida Department of Environmental Protection (FDEP) – State 404 Program Permit
- Florida Department of Transportation (FDOT) – State Electronic Review Comment (ERC) system

The Consultant has included \$4,000 as a reimbursable expense to address SJRWMD and IRFWCD application fees. The County will be responsible for any mitigation bank costs necessary to mitigate potential environmental impacts, if necessary.

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>
Topographic Design Survey	\$ 20,102
Geotechnical Investigation	\$ 4,200
Construction Documents	\$ 109,620
Signing and Pavement Marking Plans	\$ 13,010
Type I Categorical Exclusion	\$ 8,580
Cultural Resource Assessment Survey	\$ 15,136
Jurisdictional Permitting	\$ 43,180
Project Total =	\$ 213,828

EXHIBIT C – TIME SCHEDULE

Upon authorization to proceed by the COUNTY, final design documents are expected to take approximately sixteen (16) months from the Notice to Proceed (NTP).

NTP	contingent upon approval
60% Plan Submittal	4 months following NTP
75% Plan Submittal	6 months following NTP
100% Plan Submittal	9 months following NTP

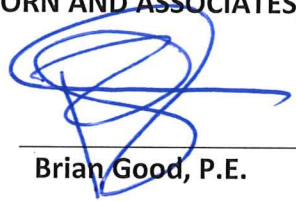
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IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

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