



CONTRACT# ENG/210895

CITY OF OCALA CONTINUING PROFESSIONAL SERVICES CONTRACT WORK ORDER

WORK ORDER NUMBER # 23

EFFECTIVE DATE: 02/21/2023

Contract Manager
Approval/Initials

Project Title: SR 40 at SW 46th Avenue Signalization Plans

To: *Kimley Horn*
101 E Silver Springs Blvd
Ocala, FL 34471

Attn: *Alan Garri*

FUNDING SOURCE: _____
Professional Services

EXPENDITURE
ACCOUNT NUMBER:

001-020-201-541-54-31010

In accordance with ENG/210895 and the executed City Council Agreement, you are hereby authorized to commence the work outlined in the attached scope of work. The approved work order amount as a maximum limiting amount shall not to exceed **\$52,620.18.**

Requested By: _____

Alan Garri

Department Director

Date: _____

2/13/23

Approved By: _____

Council President/City Manager

Date: _____



INDIVIDUAL PROJECT ORDER NUMBER 2023-01

Describing a specific Agreement between Kimley-Horn and Associates, Inc. (Kimley-Horn), and The City of Ocala (the City) in accordance with the terms of the Master Agreement Contract Eng/210895 for Continuing Professional Services dated September 25, 2022, which is incorporated herein by reference.

Identification of Project:

Project: SR 40 at SW 46th Avenue Signalization Plans

Client: City of Ocala

Project Manager: Amber L. Gartner, P.E.

General Category of Services:

1. The City has prepared roadway plans for the extension of NW 44th Avenue, north of SR 40 to the current terminus south of US 27.
2. The roadway improvements will create a new north leg of the intersection of SR 40 at SW 46th Avenue, which is currently a three-leg intersection with stop-control for the northbound movement (south leg).
3. The City plans to bid the project for construction.
4. The City desires to install a new mast arm traffic signal at the intersection of SR 40 and SW 46th/NW 44th Avenue.
5. Kimley-Horn, under a prior Individual Project Order (IPO), has prepared design traffic forecasts, signal warrant analysis, and Intersection Control Evaluation for the intersection.
6. The improvements will require a driveway connection permit through the Florida Department of Transportation (FDOT).
7. FDOT has previously reviewed and approved the Intersection Control Evaluation for the intersection and approved traffic signal control.
8. The City has requested that Kimley-Horn develop signalization plans and prepare permit applications for the intersection, to include with the City's bid for construction.
9. The City will provide CAD base files for Kimley-Horn to reference in the signal design plans. The CAD base files will specify proposed curb ramp locations for the pedestrian signal features.
10. The City will provide survey files as needed for the signal design.
11. If ITS interconnection is desired by the City, the City will provide specifications for the ITS equipment to be included in the signal plans.
12. The City will be responsible for obtaining the necessary geotechnical borings for the signal design. Kimley-Horn will provide input on the necessary scope of work and the locations for the borings.
13. Performance of Subsurface Utility Explorations has been excluded from this IPO. FDOT will require Subsurface Utility Explorations to be performed as part of the permit application. Kimley-Horn will provide information to the City for the City to separately procure the services of a subsurface utility locate company to perform the SUE required for the FDOT permitting.
14. The traffic signal is owned by FDOT but will be maintained by the City. The Scope of Services includes preparation of a driveway connection permit for submittal to FDOT. The City of Ocala will sign the permit applications. No other permits are anticipated for this Project; if other permit applications are required, these can be prepared as an amendment to this IPO.

SCOPE OF SERVICES

Task 1 – Signalization Plans and Permitting

- A. Kimley-Horn will develop one set of signalization plans for the intersection of SR 40 and SW 46th/NW 44th Avenue. The intersection will be designed with mast arms. The signalization plans will specify controller settings, controller peripherals, phasing and initial timings, vehicle detection settings, vehicular signal displays, signs, pedestrian displays and detector stations, and ITS equipment (specifications to be provided by the City), if appropriate. The plan set will include the following sheets:
- 1) Key sheet
 - 2) Notes and tabulation of quantities
 - 3) Signalization plans
 - 4) Mast arm schedule
 - 5) Standard mast arm assemblies data table, including foundation design
 - 6) Signing and Marking Plans (for any updates needed for the signal/intersection improvements not identified within the City's current plans)
 - 7) Guide sign details
 - 8) Boring logs (geotechnical information to be provided by the City and incorporated into the plans for submittal to FDOT)
- B. Lighting Design and Plans
- 1) Kimley-Horn will perform a lighting photometric analysis for the intersection based on lighting criteria in the FDOT Design Manual. Kimley-Horn will coordinate with the power company for fixture and pole configurations. This Agreement assumes that the proposed light poles will be provided by the power company. The power company will be responsible for electrical design and calculations. Kimley-Horn will perform the vertical illuminance calculations with consideration to pedestrians within the proposed crosswalks. Kimley-Horn will document the lighting analysis in a Lighting Design Analysis Report and will submit to FDOT for approval.
 - 2) Kimley-Horn will include the proposed light pole locations on the Signalization Plan sheet.
- C. Structural Analysis
- 1) Kimley-Horn will prepare a structural analysis for the proposed signal locations. The required depth, width, and reinforcement of the two new pole foundations will be specified. The structural analysis will be summarized in a calculations book provided with the signal plan submittal. Geotechnical boring information at the four corners of the intersection will be provided by the City. The geotechnical information shall meet FDOT requirements and be suitable for the design of the mast arm foundations.
- D. Submittals
- 1) Kimley-Horn will submit design plans at the 60% plans stage, the 90% plans stage, and the Final plans stage to the City. In addition, Kimley-Horn will submit the design plans at 60% and 90% to utility companies along the corridor. An electronic copy of all design files will be provided to the City with the Final submittal.

E. Opinion of Probable Construction Costs

- 1) Kimley-Horn will develop quantities and prepare an Opinion of Probable Construction Costs (OPC) document. An OPC with quantities will be submitted with the 60% plans, the 90% plans and the Final plans.

Note: The ENGINEER has no control over the cost of labor, materials, equipment, over the Contractor's methods of determining prices, over competitive bidding, or market conditions. Opinions of probable costs provided in accordance with this SCOPE OF SERVICES are based on the information known at the time the opinions of cost are developed and represent only the ENGINEER's judgment as a design professional familiar with the construction industry. Actual costs for proposals, bids, or actual construction costs will be different.

F. Permitting

- 1) Permitting associated with the subject improvements will be required through the following agencies:
 - a) City of Ocala: Kimley-Horn will meet with the City after the 60% submittal phase to discuss the comments and responses.
 - b) FDOT: The City of Ocala will handle permitting with FDOT for the Project. Kimley-Horn will provide signal plans, lighting plans, lighting calculations, structural calculations to the City of Ocala as outlined in the Scope of Services for permitting with FDOT. Kimley-Horn will respond to up to two rounds of comments by FDOT. The City will provide the FDOT comments to Kimley-Horn. This Scope of Services assumes that an FDOT Drainage Connection permit will not be required for the improvements.

G. Utility Coordination

- 1) Kimley-Horn will request information from utility owners within the Project limit and coordinate with the individual utility owners on any potential conflicts. The individual utility owners will designate their existing facilities within the project limits. Based on information provided by the various utility providers in the corridor and existing utility alignments, proposed utility adjustments will be detailed on the signal plan sheet. Any required utility coordination notes provided by the utility owners will be included on the plans.

ADDITIONAL SERVICES

Services requested that are not specifically included will be provided under a new and separate IPO agreement or can be performed on an hourly basis upon written authorization.

SCHEDULE

Kimley-Horn will begin services upon receipt of an executed IPO. The above services will be provided as expeditiously as practicable to meet a mutually agreed upon schedule.

FEE AND EXPENSE

Kimley-Horn will perform the Scope of Services in Task 1 for a lump sum fee of \$52,620.18. All permitting, application, and similar project fees will be paid directly by the City. A breakdown of the fee per task is provided in the Attached Table A.


Attachments: Table A

ACCEPTED:

THE CITY OF OCALA, FLORIDA

KIMLEY-HORN AND ASSOCIATES, INC.

BY: _____

BY:  _____
Amber L. Gartner, P.E.

TITLE: _____

TITLE: Vice President _____

DATE: _____

DATE: February 9, 2023 _____

**TABLE A
COST ESTIMATE FOR SERVICES**

PROJECT: SR 40 AT SW 46TH/NW 44TH AVE SIGNAL PLANS AND PERMITTING
 CLIENT: CITY OF OCALA
 KHA PM: AMBER L GARTNER, PE
 BASIS FOR ESTIMATE: COUNCIL-APPROVED HOURLY RATES, CONTRACT #ENG/210895

SHEET: 1 of 1
 DATE: 2/9/2023

		DIRECT LABOR (MAN-HOURS)										
		Project Manager	Chief Engineer	Senior Engineer	Project Engineer	Engineer	Engineering Intern	Chief Designer	Secretary/ Clerical	LABOR HOURS	SUB (\$)	LABOR TOTAL
NO.	DESCRIPTION	\$224.86	\$290.23	\$229.37	\$225.65	\$175.50	\$137.42	\$170.09	\$103.26			
1.A	SIGNALIZATION PLANS			15		24	75	30	5	149.0		\$ 23,578.05
1.B	LIGHTING DESIGN AND PLANS	2			8	8	28	4	8	58.0		\$ 9,013.12
1.C	STRUCTURAL ANALYSIS	2		5	8		30		8	53.0		\$ 8,350.45
1.D	SUBMITTALS			4			6		10	20.0		\$ 2,774.60
1.E	OPINION OF PROBABLE CONSTRUCTION COST				2		12		2	16.0		\$ 2,306.86
1.F	PERMITTING			2			5		5	12.0		\$ 1,662.14
1.G	UTILITY COORDINATION				4		6		12	22.0		\$ 2,966.24
1.H	PROJECT ADMINISTRATION	6							6	12.0		\$ 1,968.72
GRAND TOTAL: \$											52,620.18	