

**AMENDMENT NUMBER 2 TO AGREEMENT  
BETWEEN KIMLEY-HORN AND ASSOCIATES, INC.  
AND SUMTER COUNTY**

AMENDMENT NUMBER 2 DATED March 17, 2021, to Agreement between Board of County Commissioners of Sumter County ("the County") and Kimley-Horn and Associates, Inc., ("Kimley-Horn or Consultant") dated December 10, 2019 ("Agreement") concerning Buena Vista Boulevard Extension Design and Permitting (the "Project").

Kimley-Horn has entered into the Agreement with the County for the furnishing of professional services, and the parties now desire to amend the Agreement.

Therefore, it is mutually agreed that the Agreement is amended to include Additional Services to be performed by Kimley-Horn and provisions for additional compensation by the County to Kimley-Horn, all as set forth in Exhibit A hereto. The parties ratify the terms and conditions of the Agreement not inconsistent with this Amendment, all of which are incorporated by reference.

ACCEPTED:

BOARD OF COUNTY COMMISSIONERS  
OF SUMTER COUNTY, FLORIDA

KIMLEY-HORN AND ASSOCIATES, INC.



BY: \_\_\_\_\_

BY: \_\_\_\_\_

Richard V. Busche, P.E.

TITLE: \_\_\_\_\_

TITLE: Sr. Vice President

DATE: \_\_\_\_\_

DATE: March 17, 2021

Consultant shall perform the following Additional Services:

### ***Project Understanding***

Kimley-Horn was retained by the County (RFQ 042-0-2019) to develop design plans and permit applications for the extension of Buena Vista Boulevard from SR 44 to Meggison Road. During design, Sovereign Submerged Lands (SSL) within the Buena Vista Boulevard Extension footprint were discovered, which are regulated by the Florida Department of Environmental Protection (FDEP). The easement conditions for the SSL crossing will require two elevated bridge structures to cross the SSL. Bridge design was not anticipated or included in the original scope of services. This Amendment will include design of the following:

1. One single span bridge structure and one 3-span bridge structure limited to the area needed to cross the SSL and keep any fill slopes out of the SSL area.
2. Retaining wall details necessary for the bridge structures and to keep the road fill slopes out of the SSL areas.
3. Geotechnical field services for the bridge and retaining wall design.
4. Permit coordination relative to the SSL.

### ***Scope of Services***

#### Task 13 – Bridge Design and Bridge Plans

Kimley-Horn will perform the following services:

#### *A. Bridge Design and Construction Plans:*

Kimley-Horn will provide construction documents for two bridge structures (one single span bridge and one 3-span bridge) crossing the SSL areas along the Buena Vista Boulevard Extension. The following items will be developed as part of the Construction Documents Preparation:

- 1) Bridge Design Documentation: Kimley-Horn will provide a full design for two bridge structures (one single span and one 3-span bridge). Design will be based on AASHTO LRFD Bridge Design Specifications and the FDOT Structural Manual (dated January 2021). FDOT Standard plan details will be utilized in design. Calculations will be submitted in pdf format with bookmarks for sections.
- 2) Bridge Design Construction Plans: Kimley-Horn will prepare structural bridge design plans that detail the design and construction requirements for the two bridges in conjunction with FDOT Standard Plans and FDOT Standard Specifications. The bridge design construction plans will be produced in 11"x17" format and will generally include the following sheets:
  - a. Key Sheet
  - b. General Notes
  - c. Plan and Elevation
  - d. Section Through Bridge
  - e. Foundation Layout
  - f. Pile Data Table
  - g. End Bent Layout and Details
  - h. Pile Bent Layout and Details
  - i. Superstructure Plan View

- j. Finish Grade Elevations
- k. Typical Section
- l. Superstructure Details
- m. Reinforcing Bar List
- n. Bridge Load Rating Data Table

B. *Retaining Wall Design:*

Kimley-Horn will design and detail retaining walls as needed for the project. It is anticipated that Kimley-Horn will review up to two different wall alternatives with the County before proceeding to final design on the selected alternative. Kimley-Horn will coordinate with the geotechnical engineer (PSI) for wall recommendations and geotechnical information needed for the wall design.

C. *Bridge Design Load Rating:*

Kimley-Horn will prepare a Design Bridge Load Rating to supply to FDOT for a state-issued bridge number. Kimley-Horn will also fill out the Bridge Number Request form for FDOT to obtain a bridge number for the two bridge structures.

D. *Estimate of Probable Construction Costs:*

Kimley-Horn will prepare an estimated construction cost and provide the quantities in the bridge design plan set.

*Note: The Consultant 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 Agreement are based on the information known at the time the opinions of cost are developed and represent only the Consultant's judgment as a design professional familiar with the construction industry. Actual costs for proposals, bids, or actual construction costs will be different.*

E. *Geotechnical Services:*

Kimley-Horn will retain PSI as a subconsultant to provide design parameters for the bridge design and retaining wall recommendations. PSI will provide the following services:

- 1) Review readily available published geologic and topographic information. This published information will be obtained from the appropriate quadrangle map published by the United States Geological Survey (USGS) and the "Soil Survey of Sumter County, Florida" published by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS).
- 2) In accordance with FDOT standards, PSI will perform six (6) Standard Penetration Test (SPT) borings to depths of 100 feet below the existing grade at the proposed bridge bent/pier locations.

SPT Sampling will be performed continuously for the first 10 feet of the borings, then at 2.5-foot centers to the boring completion depth per FDOT standards. The retaining wall and embankment borings will be sampled at 5-foot centers after the initial 10 feet of continuous sampling. The field exploration program will be performed to meet the guidelines of the FDOT Soils and Foundations Handbook.

- 3) Perform three (3) Standard Penetration Test (SPT) borings to depths of 40 feet below the existing grade at the location of the MSE retaining walls. In the wall borings, samples will be collected at 2-foot centers to a depth of 10 feet and at 5-foot centers thereafter to the boring termination depth per FDOT standards.

- 4) Visually classify and stratify representative soil samples in the laboratory using the AASHTO Soil Classification System for roadway elements and the Unified Soil Classification System for structural elements. Conduct a laboratory testing program to confirm soil classification and engineering properties. Identify soil conditions at each boring location and form an opinion of the site soil stratigraphy.
- 5) Perform external stability analyses (bearing, overturning, sliding and global stability) for the bridge approach embankments and MSE retaining walls, including estimating reinforcement strap lengths using the FDOT LRFD spreadsheet for MSE walls.
- 6) Provide geotechnical engineering recommendations regarding suitable foundation alternatives for the proposed bridge, including estimated pile capacities and anticipated pile tip depths for deep foundation alternatives.
- 7) Prepare a report summarizing the results of the subsurface exploration and recommendations, signed and sealed by a Professional Engineer licensed in the State of Florida.

**F. Drainage and Roadway Redesign and Permitting**

Kimley-Horn will revise the roadway and drainage design adjacent to the new bridge structures and retaining walls. Kimley-Horn will prepare permit resubmittals to SWFWMD and FDEP including the new bridge structures and crossing of the SSL.

**Additional Services If Required**

Any services not specifically provided for in the above scope of services are not included in this Amendment and would be subject to a separate approval by the County.

**Schedule**

This Amendment extends the date for completion of the Project to December 31, 2022.

**Fee and Billing**

Kimley-Horn will complete the above scope of services for the fees listed below inclusive of expenses.

The existing Agreement dated December 9, 2019 is modified to add the following lump sum fees for the Scope of Services described within this Amendment 2. A breakdown of fees is shown in the attached TABLE A.

<i>Task</i>	<i>Lump Sum Fees</i>
13.A - Bridge Design and Construction Plans	\$119,325
13.B - Retaining Wall Design	\$18,375
13.C - Bridge Design Load Rating	\$6,680
13.D - Estimate of Probable Construction Costs	\$4,230
13.E - Geotechnical Services	\$66,078
13.F - Drainage and Roadway Redesign and Permitting	\$8,945
<b>Total:</b>	<b>\$223,633</b>

**TABLE A  
FEE ESTIMATE FOR PROFESSIONAL SERVICES**

PROJECT: BUENA VISTA BLVD EXT DESIGN, RFQ #042-0-2019/RS - Amendment 2	FILE NO.
CLIENT: BOARD OF SUMTER COUNTY COMMISSIONERS	DATE: 3/17/2021
KHA PM: AMBER GARTNER, PE	
BASIS FOR ESTIMATE: APPROVED RATES PER RFQ 023-0-2017/RS	

TASK NO.	DESCRIPTION	DIRECT LABOR ( MAN-HOURS )					LABOR HOURS	SUB (\$)	LABOR TOTAL
		Principal Engineer	Senior Professional	Professional	Senior Technical Support	Support Staff			
		\$ 200.00	\$ 165.00	\$ 135.00	\$ 120.00	\$ 65.00			
<b>13</b>	<b>Bridge Design and Bridge Plans</b>						--	--	--
13. A	Bridge Design and Construction Plans	40	100	300	450	5	895		\$ 119,325
13. B	Retaining Wall Design	15	15	60	40		130		\$ 18,375
13. C	Bridge Design Load Rating	5	10	20	10	2	47		\$ 6,680
13. D	Estimate of Probable Construction Costs		2	20	10		32		\$ 4,230
13. E	Geotechnical Services		4	4		1	9	\$ 64,813	\$ 66,078
13. F	Drainage and Roadway Redesign and Permitting	2	8	20	35	5	70		\$ 8,945
<b>TOTALS</b>		<b>62</b>	<b>139</b>	<b>424</b>	<b>545</b>	<b>13</b>	<b>1183</b>	<b>\$ 64,813</b>	<b>\$ 223,633</b>