

**INDIAN RIVER COUNTY, FLORIDA
MEMORANDUM**

CONSENT

TO: Jason E. Brown, County Administrator

THROUGH: Richard B. Szpyrka P.E., Public Works Director

FROM: James W. Ennis, P.E., PMP, Assistant Public Works Director

SUBJECT: Work Order No. 16, Kimley-Horn and Associates, Inc.
Bridge Repairs for CR-512 Bridges over the St. Sebastian River
IRC-1727

DATE: June 12, 2019

DESCRIPTION AND CONDITIONS

As part of the National Bridge Inspection Standards (NBIS), the Florida Department of Transportation (FDOT) oversees the inspection of Indian River County qualifying bridges on a minimum 2-year cycle and generates a report indicating deficiencies, required repairs, and suggested maintenance. As part of the recent inspection cycle, FDOT identified several structural and non-structural repairs that are necessary on the eastbound and westbound bridges over the St. Sebastian River (CR-512 Bridges). These repairs are needed in order to maintain the long-term serviceability of the bridge and prevent further deterioration. Specifically, the following issues/deficiencies have been identified:

- There has been undermining and loss of embankment material detected along with water infiltration along the center of the headwall on the eastern end of the westbound bridge,
- Structural cracking with exposure of reinforcing steel on the eastern headwall of the westbound bridge,
- Settlement of the roadway on the both approaches for both bridges,
- Embankment armoring in need of repair,
- Repairs to shifted/settled sidewalks on eastern approach of the westbound bridge
- General maintenance repairs required to deck & pavement joints.

On April 17, 2018, the Board of County Commissioners approved the Continuing Consulting Engineering Service Agreement for Professional Services with Kimley-Horn and Associates, Inc. The purpose of Work Order No. 16 is to provide design services, including permitting & bidding for structural and non-structural repair plans to both CR-512 Bridges and associated abutments, approaches and revetments for a lump sum amount of \$23,905.00.

FUNDING

Funding in the amount of \$23,905.00 is available from Secondary Roads and Bridges/Maintenance-Bridges/Account No. 10921441-035330.

RECOMMENDATION

Staff recommends approval of Work Order No. 16 with Kimley-Horn and Associates, Inc. authorizing the professional services as outlined in the Scope of Work and authorize the Chairman to execute Work Order No. 16 on their behalf for a lump sum amount of \$23,905.00.

ATTACHMENT

Kimley-Horn and Associates, Inc. Work Order No. 16
Field Photos – CR-512 Bridges

APPROVED AGENDA ITEM FOR JULY 2, 2019