

**Indian River County, Florida  
Department of Utility Services  
Board Memorandum**

**Date:** March 25, 2024

**To:** Indian River County Board of County Commissioners

**Through:** John A. Titkanich, Jr., County Administrator  
Sean C. Lieske, Director of Utility Services

**From:** Howard G. Richards, PE, Manager – Capital Projects

**Prepared by:** Harrison Youngblood, PE, Utilities Engineer

**Subject:** FDOT Utility Work by Highway Contractor Agreement for Utilities Relocation on CR-510/85<sup>th</sup> Street from CR-512 to 87<sup>th</sup> Street

**Descriptions and Conditions:**

The Florida Department of Transportation (FDOT) has plans to widen County Road 510 (CR-510) beginning at CR-512 to 58<sup>th</sup> Avenue. The approximately 5.22 miles of existing two-lane roadway will be widened to a four-lane roadway divided with curb and gutter. The proposed roadway improvements will include drainage structures in the form of curb inlets approximately every 500 linear feet.

The Indian River County Department of Utility Services (IRCDUS) owns and operates two large water and wastewater mains within the existing CR-510 right-of-way (ROW). Specifically, there is a 12-inch PVC force main along the south side and a 16-inch water main along the north side of CR-510. The force main conveys domestic wastewater from multiple locations including Sebastian River High School, Treasure Coast Elementary, parts of Sebastian and flows generated within the City of Fellsmere. The water main provides potable water to these same locations including Vero Lake Estates, provides looped water service and is a major transmission main used for fire flow purposes.

On February 28<sup>th</sup>, 2020, the Indian River County Board of County Commissioners (BCC) entered into two (2) separate Utility Design by FDOT Consultant Agreements for the design phase of CR-510/85<sup>th</sup> Street from West of 82<sup>nd</sup> Avenue to 58<sup>th</sup> Avenue and CR-510/85<sup>th</sup> Street from CR-512 to West of 82<sup>nd</sup> Avenue.

**Analysis:**

During the design phase of the project many conflicts arose regarding the extension of the proposed reuse line from 66<sup>th</sup> Ave to CR-512 along the CR-510 corridor. Most of the reuse main conflicts were denoted on the portion of the project where CR-510 changes direction from an easterly/westerly roadway to a north/south roadway. To mitigate the conflicts that arose around the extension of the reuse main, IRCDUS requested that the reuse extension of the project stop just east of the Treasure Coast Elementary school

## Consent Item

located along CR-510. There is no need to extend the reuse all the way from CR-510 to CR-512 as there are no reuse customers along this proposed route. Therefore, the elimination of this utility extension will not inadvertently affect any existing customers.

For continuation of the design phase into the construction phase of the Utilities Relocation, IRCDUS proposes to enter into subsequent Utility Work by Highway Contractor Agreements (UWHCA) with FDOT. FDOT has provided the attached UWHCA for construction of CR-510/85th Street from CR-512 to 87th Street (FDOT Financial Project ID: 405606-7-56-01). FDOT's initial estimate of the cost of the Utility Work is \$2,916,664.80. The UWHCA requires the amount payable to FDOT plus 2% for incremental costs for the Utility Work, including mobilization of equipment, additional maintenance of traffic, administrative costs of field work, tabulation of quantities, Final Estimate processing and Project accounting; plus 10% for a contingency fund to be used for changes to the Utility Work during the construction. The total estimate from FDOT with a markup of 12% is \$3,266.664.58.

IRCDUS proposes an additional 20% contingency, or \$653,333.00 based on recent utility relocation work experience on UWHCA project with FDOT. This additional contingency would be retained by IRCDUS for the sole purpose of covering cost escalations over and above the FDOT initial cost estimate plus markup.

### Funding:

Expenses, in the amount of \$3,919,997.58, for this project will be recorded in the Utilities/WIP/CR510 Utility Main Relocations account, number 471-169000-20510. Since this is an operating capital project, the funds will come from fund balance. Operating funds are derived from water and sewer sales.

| Description                                  | Account Number   | Amount         |
|--|------------------|----------------|
| Utilities/WIP/CR510 Utility Main Relocations | 471-169000-20510 | \$3,919,997.58 |

### Recommendation:

Staff recommends that the Board approve the Utility Work by Highway Contractor Agreement with the Florida Department of Transportation for construction of CR-510/85th Street from CR-512 to 87th Street utilities relocation and the budget of \$3,919,997.58 with \$3,266.664.58 payable to Florida Department of Transportation and \$653,333.00 retained by Indian River County Department of Utility Services for cost escalations and authorize the Chair to execute the same. So long as there are no changes in the dollar amount under the work orders, upon adequate completion of the work set forth in the work orders, staff is directed to make final payments to the Florida Department of Transportation, after review and approval by the Purchasing Manager and the County Attorney's Office.

### Attachments:

- Utility Work by Highway Contractor Agreement (UWHCA) at Utility Expense