



## MEMORANDUM

To: Honorable Mayor and Town Council

From: Rafael G. Casals, Town Manager

Date: April 15, 2015

Re: Issuance of a Purchase Order to R.J. Behar, Inc. – Construction Engineering and Inspection Services for the SW 212 Street Drainage Improvement(s) Project.

### REQUEST

**RESOLUTION OF THE MAYOR AND TOWN COUNCIL OF THE TOWN OF CUTLER BAY, FLORIDA, AUTHORIZING THE TOWN MANAGER TO ISSUE A PURCHASE ORDER TO R.J. BEHAR, INC TO PROVIDE CONSTRUCTION ENGINEERING AND INSPECTION SERVICES FOR THE SW 212 STREET DRAINAGE IMPROVEMENT(S) PROJECT; AND PROVIDING AN EFFECTIVE DATE.**

### BACKGROUND AND ANALYSIS

The Town adopted the Stormwater Master Plan for the purpose of identifying opportunities to protect surface water quality and reduce flooding within the Town. The Stormwater Master Plan was adopted via Resolution No. 08-50, which studied seventeen (17) sub-basins. This Stormwater Master Plan is comprised of the following components:

- A review of existing stormwater and drainage data, reports, and plans available through SFWMD, Miami-Dade County, and Town sources
- A field inventory of existing drainage structures
- A drainage atlas including the type, size, and general location of drainage infrastructure elements
- Basin and Sub-basin delineations based on available survey data and other sources
- Hydrologic and hydraulic modeling analysis of the existing systems and their capacity to handle the 5-year/24-hour, 10-year/24-hour, 25-year/72-hour, 50-year/72-hour, and 100-year/72-hour storm events





- Identification and analysis of alternatives for improvements needed to alleviate deficiencies identified in the hydrologic and hydraulic modeling phase
- Development of an optional Capital Improvement Plan (CIP) to implement the identified improvements

The SW 212 Street Drainage Improvement(s) Project is located in front of Cutler Bay Senior High School within the Saga Bay 10.1 Drainage Sub-basin. The Improvement(s) project will consist of drainage improvements, exfiltration trench for water quality treatment, new outfall pipe connection, roadway resurfacing, pavement markings, and site restoration. The sub-basin is developed with single family residential and multifamily dwellings, located directly across from the high school. Drainage from this project flows into the South Florida Water Management Districts L-31 Canal and ultimately to the Biscayne Canal (C-1).

The proposed Best Management Practices will reduce non-point source pollutant load to the L-31 and Biscayne Canal (C-1); a verified Impaired Body of Water. This project will implement stormwater treatment processes that will include;

- Installation of manatee grates
- Installation of outfall pipes with headwall
- Construction and/or Repair Manholes
- Installation exfiltration trench
- Installation pollution retardant baffles

The proposed improvements will restrict the discharge of hazardous pollutants to Town's Canals and to improve water quality and quantity treatment. These improvements are anticipated to reduce pollutant loadings to the L-31 Canal 92.65% for Total Phosphorus, 89.50% for Total Nitrogen, and 90.55% for Total Suspended Solids. Public outreach meetings will be held with neighboring Homeowner's Associations who reside in the affected area and Miami-Dade County School Board prior to the start of construction. The purpose of the public outreach meetings will be to educate the public about the proposed improvements specifically and stormwater pollution and treatment in general.

### **RECOMMENDATION**

We recommend that the attached resolution, authorizing the Town Manager to issue a Purchase Order to R.J. Behar Inc. for the Construction Engineering and Inspection Services for the SW 212 Street Drainage Improvement(s) Project, in the amount not to exceed \$70,514.80.

