

RESOLUTION NO. 2012-07

A RESOLUTION OF THE HARBOUR WATERWAY SPECIAL DISTRICT, DUVAL COUNTY, FLORIDA, APPROVING EXECUTION OF A CONTRACT WITH ARC SURVEYING AND MAPPING, INC., TO PROVIDE HYDROGRAPHIC AND MAPPING SERVICES; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Harbour Waterway Special District (“HWSD”), consistent with the authority provided in its enabling ordinance, has initiated the process for execution of a contract with a dredging firm to perform maintenance dredging of the canals within the HWSD as well as the access to the canals from the St. Johns River; and

WHEREAS, prior to commencement of any dredging work by the contractor selected by the HWSD Board of Supervisors (“Board”) to perform that work, it will be necessary to engage a qualified surveying and mapping firm to conduct hydrographic surveying and mapping of the areas to be dredged to assess the amount of dredge material to be removed by the contractor selected to perform the dredging work; and

WHEREAS, ARC Surveying and Mapping, Inc. (“ARC”) of Jacksonville, Florida is a firm qualified and experienced in performing hydrographic surveying and mapping of the type required by the HWSD prior to commencement of its planned maintenance dredging work; and

WHEREAS, ARC has presented a proposal, attached as Exhibit “A” hereto, to the HWSD to perform the surveying work required by the HWSD.

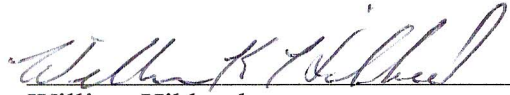
NOW THEREFORE, BE IT RESOLVED by the Board the HWSD:

Section 1. The ARC proposal attached as Exhibit “A” is accepted by the Board.

Section 2. The Chairman of the Board is hereby authorized to execute a contract with ARC for the services described in ARC’s proposal on the terms specified in ARC’s proposal.

Section 2. This Resolution shall become effective upon adoption.

Passed and Adopted this 13th day of November, 2012.



William Hibbard
Board Chair

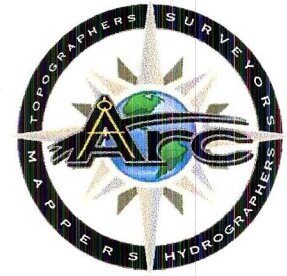
Attest:



Stanley H. Pipes, Jr.
Board Secretary

ARC SURVEYING & MAPPING, INC.

5202 SAN JUAN AVENUE, JACKSONVILLE, FL 32210
PHONE (904) 384-8377 FAX (904) 384-8388
WWW.ARCSURVEYORS.COM



19 October 2012

Attn: Stanley H. Pipes
Harbour Waterway Special District
11554 Starboard Dr.
Jacksonville, Florida 32225

Re: Harbour Waterway Special District
Hydrographic Surveying Services

Mr. Pipes,

As requested, Arc Surveying and Mapping, Inc. (Arc) is providing a proposal for performing a hydrographic survey and mapping services at the Mill Harbour Channel System.

- 1) **General Scope:** Arc will provide all equipment and labor resources necessary to research, locate and/or establish the site control. In addition, Arc will acquire bathymetric data at the site which will include a pre-dredge survey and three (3) after dredge surveys. During the pre-dredge survey, five (5) sediment samples will be acquired similar to the survey performed in 2010. Arc will provide the results of the survey in a digital CADD format as well as a signed and seal survey map.
 - a) **Horizontal Coordinate System and Vertical Datum:** Arc shall confirm and utilize as the horizontal datum the Florida State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83). Arc shall confirm and utilize as the vertical datum the National Geodetic Vertical Datum of 1929 (NGVD29) and adjusted to the local MLW datum. The horizontal precision of the GPS control shall conform to Federal Geographic Data Committee, Geospatial Positioning Accuracy Standards - PART 4: Standards for A/E/C and Facility Management (FGDC-STD-007.4-2002), Second-Order, Class I for all control points. The vertical accuracy of the control points shall conform to FGDC-STD-007.4-2002 standards for Second-Order, Class II elevation difference accuracy standards for relative positioning techniques.
 - b) **Hydrographic Survey:** Hydrographic data acquisition will conform to the horizontal and vertical precision requirements outline in Federal Geographic Data Committee, Geospatial Positioning Accuracy Standards - PART 4: Standards for A/E/C and Facility Management (FGDC-STD-007.4-2002). Arc will follow the guidelines for collecting field data as outlined in the U.S. Army Corps of Engineers manual EM 1 110-2-1003 – Engineering and Design, HYDROGRAPHIC SURVEYING.
- 2) **Fee Schedule:**
 - i) Pre-Dredge Survey, Mapping and volumes computations and to include sediment samples: \$2,950
 - ii) Each After Dredge Survey to include mapping and volume computations. \$2,500
- 3) **Schedule of Deliverables:**
 - a) One 3-D CAD file containing results of surveys
 - b) Set of PDF files depicting results of surveys.
 - c) One set of signed and sealed record drawings depicting the results of the hydrographic survey.

Arc Surveying and Mapping appreciates the opportunity to work with you on this project and are available to answer any questions or concerns you may have.

Sincerely,

Arc Surveying and Mapping

Richard J Sawyer

Richard J. Sawyer, PSM, Certified Hydrographer
Vice President