

# PRELIMINARY AGENDA

## FLORIDA INLAND NAVIGATION DISTRICT Board of Commissioners Meeting

9:00 a.m., Friday, September 09, 2016

Wyndham Grand Jupiter at Harbourside  
122 Soundings Avenue  
Jupiter (Palm Beach County), FL 33477-5088

**Item 1.**      **Call to Order.**

Chair Cuozzo will call the meeting to order.

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**Item 2.**      **Pledge of Allegiance.**

Commissioner Isiminger will lead the Pledge of Allegiance to the United States of America.

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**Item 3.**      **Roll Call.**

Secretary Donaldson will call the roll.

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**Item 4.**      **Consent Agenda.**

*(No consent agenda items for September)*

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**Item 5.**      **Additions or Deletions.**

Any additions or deletions to the meeting agenda will be announced.

RECOMMEND:      Approval of a final agenda.

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**Item 6.**      **Public Comments.**

The public is invited to provide comments on issues that are NOT on today's agenda. All comments regarding a specific agenda item will be considered following Board discussion of that agenda item. *Please note: Individuals who have comments concerning a specific agenda item should fill out a speaker card and communicate with staff prior to that agenda item.*

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**Item 7.        Board Meeting Minutes.**

The minutes of the following meetings are presented for approval.

- August 20, 2016 – Finance & Budget Committee Mtg. (Please see back up pages 7-8b)
- August 20, 2016 – Board Meeting (Please see back up pages 9-23)

RECOMMEND:        Approval of the minutes as presented.

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**Item 8.        Comments from the U.S. Army Corps of Engineers.**

U.S. Army Corps of Engineers (USACE) Intracoastal Waterway Project Manager, Ms. Shelley Trulock is scheduled to present an update on projects and activities.

(Please see back up pages 24-30)

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**Item 9.        Staff Report on Palm Beach County Area Projects.**

Staff will present a report on the District's Palm Beach County area projects.

(Please see back up pages 31-62)

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**Item 10.        Presentation and Discussion of the District's GIS Update for Palm Beach County.**

Patrick Lawson from Taylor Engineering is scheduled to present the initial update of the District's GIS mapping system data for Palm Beach County.

(Please see back up pages 63-71)

RECOMMEND:        (This item is presented for Board review and discussion only.)

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**Item 11.        Scope of Services and Fee Proposal for Updates to the District's GIS Mapping Database System for Nassau, Duval, St. Johns and Flagler Counties.**

Taylor Engineering has completed the initial draft of updates to the District's GIS system for Palm Beach County. The original scope of this project includes updates to the remainder of the District's counties pending a favorable outcome for Palm Beach County.

Taylor Engineering has provided a Scope of Work and Fee Quote to complete this project in Nassau, Duval, St. Johns and Flagler counties, as well as District-wide GIS dataset updates and web application of the data. Staff is satisfied with the previous efforts for Palm Beach County and the firm has been extremely responsive to staff input and project needs.

The scope has been reviewed and is consistent with the previous work efforts and is necessary to continue this project.

(Please see back up page 72-80)

RECOMMEND:        Approval of a proposal and fee quote from Taylor Engineering in the amount of \$96,052.76 for the GIS update to Nassau, Duval, St. Johns and Flagler counties, FL.

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**Item 12.**      **Review and Approval of the Selection Committee Rankings and the Negotiation of a Continuing Services Contract for the Update of the Economic Analysis of the District's Waterways, Initiating with Palm Beach County, FL.**

The Board directed staff to implement a full update to the Economic Analysis of the District's Waterways study. The previous update to this study was completed in 2011. A Request for Qualifications (RFQ) to initiate with Palm Beach County was advertised and four responses were received.

These responses were reviewed and ranked by the review committee and will be presented in descending order at the Board meeting. Staff recommends the Board approve the final ranking of the review committee, and approve staff to negotiate a continuing services contract with the top ranked firm. Should the top ranked firm fail to perform satisfactorily, the next top ranked firm would be considered for a continuing services contract. This would preclude repeating the RFQ effort.

(Please see back up page 81-92)

RECOMMEND:      Approval of the selection committee's recommended ranking of respondents to a Request for Qualifications for Economic Analysis Services for updating the analysis of District waterways, initiating with Palm Beach County, FL.

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**Item 13.**      **Scope of Services and Fee Proposal for Bid Assistance and Construction Administration Services for the Replacement of the Weirs at Dredged Material Management Area DU-2, Duval County, FL.**

Taylor Engineering has been working on the design and engineering of a new weir system for Dredged Material Management Area (DMMA) DU-2. The previous weir system has failed and is no longer operational.

It is necessary to proceed with this project at this time as this facility may be utilized for forthcoming dredging project in Nassau County. This site is also regularly utilized for non-beach compatible material dredged during the "Sawpit" project, which is dredged approximately every five (5) years.

The weir will be updated to include long-lasting material (HDPE pipe, aluminum structure and walkway etc.) and the design is consistent with the modern box weir now being successfully constructed at another District DMMA's.

(Please see back up page 93-103)

RECOMMEND:      Approval of a scope and fee quote from Taylor Engineering in the amount of \$84,245.94 for bid assistance and construction administration for a new weir system at DMMA DU-2, Duval County, FL.

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**Item 14.**      **Scope of Work, Fee Quote and Agreement for the Relocation of the Permanent Access Road Entrance at Maintenance Spoil Area (MSA) 641A, Palm Beach County, FL.**

District staff and our attorney have been negotiating with the owners (MCA Delray Preserve Owner, LLC,) of the property fronting MSA 641A in Delray Beach, as well as the construction contractor (Kast Construction Company) to build a relocated entrance which aligns with the revised access easement to the District's property.

Following last year's extensive negotiations with the adjacent property owner for an access road easement, and the subsequent development approvals by the City, the project is now well underway. It will be favorable to the District to have our relocated entrance constructed prior to the leasing of the multi-family units at the Preserve,

Kast Construction Company has worked with their sub-contractor (Hughes Construction) to develop a scope and cost proposal for the proposed work. The proposal has been reviewed by our District Engineer and found to be within acceptable parameters. The final as-built will also be reviewed by our Engineer, and all construction will be monitored.

(Please see back up pages 104-110)

RECOMMEND:      Approval of a scope of work, fee quote in the amount of \$54,252.04 with Kast Construction Company and agreement with MCA Delray Preserve Owner, LLC for the relocation and construction of a permanent access road entrance at MSA 641A, Palm Beach County, FL.

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**Item 15.**      **Site Mowing Project Bids for Dredge Material Management Areas in Nassau, Duval, and St. Johns Counties, FL.**

Staff has requested bids from qualified applicants for the quarterly mowing of one (1) Dredged Material Management Area (DMMA) in Nassau County (NA-1), six (6) DMMA's in Duval County (DU-2, DU-6, DU-7, DU-8, DU-9 and DU-20), and three (3) DMMA's in St. Johns County (SJ-14, SJ-20A, and SJ-29).

The bids are scheduled to be received on September 2, 2016 and the results will be tabulated and presented for Board review and approval at the September 9, 2016 Board meeting.

(Please see back up pages 111-129)

RECOMMEND      Approval of the low qualified bid for quarterly mowing of ten (10) DMMA's in Nassau, Duval, and St. Johns counties, FL.

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**Item 16.**      **Engineering Services Construction Observation for Pipeline Modifications at Dredged Material Management Area SJ-14, St. Johns County, FL.**

At the April 16, 2016 Board meeting, the Board approved the relocation of a portion of the easement (and the reconstruction of that portion of the existing pipeline), for Dredged Material Management Area (DMMA) SJ-14. Cabbage Hammock Company, LLC (CHC) (and PARC Group) requested the modification in conjunction of a re-plat of the properties in this area. All costs associated with this project will be the responsibility of CHC. Included in these costs are the attached cost estimate from our engineer to coordinate the requested activity.

If approved by the Board, this item will result in a Work Order to Taylor Engineering. The Navigation District will pay the invoices and be reimbursed by CHC. The company has agreed to this arrangement.

(Please see attached back up pages 130-135)

RECOMMEND      Approval of a scope of work and fee quote from Taylor Engineering in the reimbursable amount of \$17,653.00, for services associated with the relocation of a portion of the outfall pipe at DMMA SJ-14 pipeline, St. Johns County, FL.

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**Item 17.**      **Assistance Projects Extension Requests.**

Several Project Sponsors have requested extensions of their FY 2014-15 project agreements. By law and in accordance with the District program rules, these agreements can be extended for one (1) additional year (Revised expiration date: September 30, 2017).

(Please see back up pages 136-145)

RECOMMEND:      Approval of the requested project agreement extensions for one additional year.

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**Item 18.**      **Finance and Budget Committee Report.**

The District's Finance and Budget Committee met prior to the Board meeting and will provide their recommendations concerning items on the Committee's agenda.

*(Please refer to the Finance and Budget Committee Agenda Package)*

RECOMMEND:      Approval of the recommendations of the District's Finance and Budget Committee.

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**Item 19.**      **Washington D.C. Report.**

The District's federal governmental relations firm has submitted a status report concerning activity on the District's federal issues.

(Please see back up pages 146)

RECOMMEND:      *(This item is presented for Board review and discussion only.)*

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**Item 20.**      **Additional Staff Comments and Additional Agenda Items.**

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**Item 21.**      **Additional Commissioners Comments.**

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**Item 22.**      **Adjournment.**

*If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.*

**MINUTES OF THE  
FLORIDA INLAND NAVIGATION DISTRICT**

**Finance and Budget Committee Meeting**

**8:45 a.m., Saturday, August 20, 2016**

**Hampton Inn & Suites**

**611 20<sup>th</sup> Place**

**Vero Beach, Indian River County, FL 32960-5496**

**ITEM 1.      Call to Order.**

Committee Chair McCabe called the meeting to order at 8:45 a.m.

**ITEM 2.      Roll Call.**

Executive Director Mark Crosley called the roll and Committee Chair McCabe, Commissioners Blow and Sansom were present. Mr. Crosley stated that a quorum was present. Commissioner Donaldson arrived to the meeting at 8:47 a.m.

**ITEM 3.      Additions or Deletions.**

Committee Chair McCabe asked if there were any additions or deletions to the meeting agenda. Mr. Crosley stated that there were no additions or deletions to the agenda.

Commissioner Sansom made a motion to approve the agenda as presented. The motion was seconded by Secretary Donaldson. Committee Chair McCabe asked for any further discussion, hearing none, a vote was taken and the motion passed unanimously.

**ITEM 4.      Public Comments.**

Committee Chair McCabe asked if there were any public comments on issues that are not on today's agenda. There were none.

**ITEM 5. Financial Statements for June of 2016.**

Mr. Crosley presented the District's financial statements for June of 2016.

Mr. Crosley noted that the Fidelity Bank CD matures in September and staff will shop for the best rate. The Seacoast Bank Money Market account currently receives a 0.60% interest rate. The Contract Retainage Payable account is mostly retainage funding being held for the Broward Deepening project, with a 10% retainage on monthly draws that average \$1 million monthly. These expenditures were expected because of the large projects the District has taken on this year.

Mr. Crosley stated that the District's current expenses as of June 30, 2016 are \$25 million. That amount is more than usual and will continue to increase. The District has spent \$2.8 million more this Fiscal Year than revenue collected and that was expected and planned, and includes the Broward deepening project. It is expected that the District will spend approximately \$31 million by year-end.

Mr. Crosley noted the funding that has been disbursed for the Broward IWW Deepening project, and the IWW Deepening Palm Beach County North project, which has been completed.

Mr. Crosley stated projects with the U.S. Army Corps of Engineers (USACE) are paid for in advance, before the project is bid, and reimbursements are disbursed to the District upon project completion. Funding in the amount of \$6.5 million has been provided for Dredged Material Management Area (DMMA) O-7 construction.

Mr. Crosley stated that the District's tax collections are in line and proceeding. He stated that in April the Certificate of Tax Sales start and the last 2015 tax revenue will be collected and disbursed by the Tax Collectors.

Mr. Crosley stated that the District has funded several Small-Scale Derelict Vessel removal projects in Palm Beach, Martin, and Indian River Counties.

Mr. Crosley stated that the GIS Study has started and funding has been disbursed for that project. A GIS presentation for Palm Beach County will be made at the September meeting. When this project is finalized, the information will be placed on the District's web site in map format.

Mr. Crosley stated that the Port Orange Riverwalk, Phase II Project has been completed and \$200,000.00 was disbursed for that project. He asked for questions. There were none.

Commissioner Samson made a motion to approve a recommendation to the full Board of the financial statements for June of 2016. The motion was seconded by Secretary Donaldson. Committee Chair McCabe asked for any additional discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 6.      June of 2016 Budget Summary and Project Status Expenditure Reports.**

Mr. Crosley presented the Budget Summary and Project Status Expenditure Reports for June of 2016.

Mr. Crosley stated that the Matanzas and St. Augustine dredging projects are currently out for bid. He asked for questions.

Commissioner Blow asked about the DMMA SJ-20A site. Mr. Crosley stated that based on the site's distance from the waterway and amount of use that it would receive, it has been determined that the District does not have to construct that site. The site will be used to store material when DMMA SJ-1 is offloaded. He noted that in the future the site may be exchanged for a property closer to the waterway.

**ITEM 7.      Delegation of Authority Report.**

Mr. Crosley presented the Executive Director's Delegation of Authority Report and stated that six (6) actions were taken from July 12, 2016 to August 9, 2016.

Mr. Crosley noted that boundary and centerline surveys were completed on DMMA O-7.

Mr. Crosley stated that due to an eroding bank, a collapsing tree was removed from DMMA 621. The site is adjacent to homes and the neighbors were pleased the tree was removed. He asked for questions. There were none.

**ITEM 8.      Additional Agenda Items or Staff Comments.**

Committee Chair McCabe asked if there were any additional agenda items or staff comments. There were none.

**ITEM 9.      Additional Commissioners Comments.**

Committee Chair McCabe asked if there were any additional Commissioner comments. There were none.

**ITEM 10.      Adjournment.**

Committee Chair McCabe stated that hearing no further business the meeting was adjourned at 8:57 a.m.

**MINUTES OF THE  
FLORIDA INLAND NAVIGATION DISTRICT**

**Board of Commissioners Meeting**

**9:00 a.m., Saturday, August 20, 2016**

**Hampton Inn & Suites**

**611 20<sup>th</sup> Place**

**Vero Beach, Indian River County, Florida 32960-5496**

**ITEM 1.      Call to Order.**

Chair Cuozzo called the meeting to order at 8:58 a.m.

**ITEM 2.      Pledge of Allegiance.**

Commissioner Dritenbas led the Pledge of Allegiance to the Flag of the United States of America.

**ITEM 3.      Roll Call.**

Secretary Donaldson called the roll and Chair Cuozzo, Vice-Chair Netts, Treasurer McCabe, and Commissioners Blow, Crowley, Dritenbas, Isiminger, O'Steen, Sansom, and Williams were present. Secretary Donaldson stated that a quorum was present. Commissioner Chappell was absent.

**ITEM 4.      Consent Agenda.**

Chair Cuozzo asked if there were any comments or questions regarding the Consent Agenda. There were none.

Vice-Chair Netts made a motion to approve the Consent Agenda as presented. The motion was seconded by Commissioner Williams. Chair Cuozzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 5.      Additions or Deletions.**

Chair Cuzzo asked if there were any additions or deletions to the meeting agenda.

Mr. Crosley stated that there were no additions or deletions to the meeting agenda.

He distributed revised information for Items 12, 13, and 14.

Commissioner Sansom made a motion to approve the final agenda as corrected and amended. The motion was seconded by Commissioner Dritenbas. Chair Cuzzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 6.      Public Comments.**

Chair Cuzzo asked if there were any public comments on issues that are not on today's agenda. There were none.

**ITEM 7.      Board Meeting Minutes.**

Chair Cuzzo asked if there were any comments or questions regarding the July 22, 2016 Finance and Budget Committee Minutes and the Board Meeting Minutes. There were none.

Vice-Chair Netts made a motion to approve the July 22, 2016 Meeting Minutes, as presented. The motion was seconded by Commissioner Blow. Chair Cuzzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 8.      Staff Report on Indian River County Area Projects.**

Mr. Crosley stated that Phase I of the Dredged Material Management Plan (DMMP) for the Intracoastal Waterway in Indian River County was completed in 1997. Phase II of the DMMP was completed in 2002 and all major land acquisition (three sites) was completed in 2002.



Mr. Crosley stated that the 50-year dredging projection for the 24 miles of channel in Indian River County is approximately 318,324 cubic yards and the storage projection is 607,500 cubic yards.

Mr. Crosley stated that Dredging of Indian River Reach I was completed in 2015. The USACE contractor (Cavache, Inc.) successfully dredged approximately 302,740 cubic yards of material from the Intracoastal Waterway (IWW) channel. Since this area had not been dredged for many years, a significant amount of rocks and miscellaneous material (anchors, crab traps, lines, cables, etc.) was also removed from the waterway. The dredged material was placed in Dredged Material Management Area (DMMA) IR-2. The miscellaneous material was hauled away.

Mr. Crosley stated that last evening Commissioner Dritenbas and former Commissioner Barkett noted that the area around the 17<sup>th</sup> Street Bridge has not been dredged in a while and will require dredging in the future.

Mr. Crosley stated that three upland sites were purchased for Indian River County dredged material management. The construction of DMMA IR-2 was completed by the USACE with Navigation District funding in 2012. DMMA IR-7 and IR-14 have been cleared. DMMA IR-7 and DMMA IR-14 will be constructed in the near future. The District will plan to dredge the 17<sup>th</sup> Street Bridge area after the DMMA's have been constructed.

Mr. Crosley stated that the Indian River County Waterways Economic Study was completed in 2000 and updated in late 2011. The update found that the waterway-related businesses in the county employ 242 people, with salaries of \$10.1 million and a total economic impact of \$44.1 million. Property values were determined to be increased by \$614 to \$724 million by the presence of the IWW channel.

Mr. Crosley stated that since 1986, the District has provided \$4.9 million in Waterways Assistance program (WAP) funding to 62 projects in the county, having a total constructed value of approximately \$18.9 million. Notable Waterway Assistance Projects funded include: The Environmental Learning Center; the Vero Beach Municipal Marina and Anchorage; Royal Palm Point Park; Wabasso Causeway Park and Boat Ramps; Jungle Trail Shoreline Stabilization; and the IWW/Sebastian Inlet Connection Channel.

Mr. Crosley stated that the District's Cooperative Assistance Program has provided funding assistance for 32 projects with elements in Indian River County totaling \$1.9 million in District assistance for approximately \$21.1 million in total value of constructed projects.

Mr. Crosley stated that the District's Interlocal Agreement Program has provided funding assistance for five projects with elements in Indian River County.

Mr. Crosley stated that the District has partnered with Keep Indian River Beautiful, Inc. for twelve years and the Marine Industry Association of the Treasure Coast for several years on successful waterway clean-up projects in Indian River County.

**ITEM 9.      Scope of Work and Fee Quote for Engineering Design and Permitting Services for Dredged Material Management Area M-8, St. Lucie County, Florida.**

Mr. Crosley stated that Dredged Material Management Area (DMMA) M-8, located near the border of Martin and St. Lucie Counties, will be required to dredge St. Lucie Reach II in southern St. Lucie County. Hydrographic surveys have indicated this dredging reach is in need of maintenance dredging. This area has not been dredged in over 40+ years. Currently the St. Lucie Reach I is scheduled to be maintenance dredged in early 2017, with the material to be placed in the previously constructed DMMA SL-2.

Mr. Crosley stated that DMMA M-8 is a heavily-wooded site and is expected to have numerous environmental considerations. Taylor Engineering has provided a scope and cost proposal in the amount of \$256,201.50 to complete the design, engineering and permitting for this site. Staff has reviewed the cost-plus not to exceed proposal and found it to be reasonable for this work.

Mr. Crosley stated that the next step will be to advertise a Request for Qualifications (RFQ) for Surveying and Geo-Technical work. Staff will work to obtain longer term contracts, perhaps three or five years.

Commissioner Blow referred to the problems with the original DMMA DU-2 design and questioned if wood and corrugated metal would be used in this design. Dr. Taylor stated that the design will be similar to the updated design recently completed at DMMA IR-2.

Secretary Donaldson made a motion to approve a scope of work and fee quote in the amount of \$256,201.50 from Taylor Engineering for design, engineering and permitting of Dredged Material Management Area M-8, St. Lucie County, Florida. The motion was seconded by Commissioner Blow. Chair Cuozzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

Commissioner Crowley asked about the homeowners adjacent to the site. Mr. Crosley stated that a 300-foot vegetative buffer will be installed and maintained. Staff could provide project information to adjacent homeowners closer to the project start date. He stated that both St. Lucie and Martin Counties were advised how this property would be used by the District during the site purchase process. Both counties agreed with that use.

**ITEM 10.     Regulatory Plan for Rule Adoption.**

Attorney Breton stated that Florida Statute 120.74 requires that the District prepare a regulatory plan to include a listing of each law the District expects to implement by rulemaking prior to July 1, 2017. Pursuant to this statute, staff has prepared a plan for the Board's review and approval. The plan must be submitted prior to October 1, 2016. He asked for questions. There were none.

Treasurer McCabe made a motion to approve the District's Regulatory Plan for FY 2016-2017. The motion was seconded by Commissioner Blow. Chair Cuozzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 11.     Assistance Projects Extension Requests.**

Mr. Crosley stated that 24 Project Sponsors have requested extensions of their FY 2014-15 project agreements. By law and District program rules, these agreements can be extended for one (1) additional year, with a revised expiration date of September 30, 2017.

Commissioner Sansom made a motion to approve the requested project agreement extensions for one additional year. The motion was seconded by Commissioner Blow. Chair Cuozzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 12.     Lease Agreement with City of Pompano Beach for Public Accessibility at MSA 726, MSA 726-B and MSA 726-C, (also known collectively as Exchange Club Park), Broward County, Florida.**

Mr. Crosley stated that on August 25, 1981, the Florida Inland Navigation District (District) entered into a 25-year lease agreement with the City of Pompano Beach for limited public access at MSA 726, MSA 726-B and MSA 726-C. These three parcels contain approximately 14 acres that are owned by the District and known collectively as

“Exchange Club Park”. A Lease Extension Agreement (No. 1) was executed on January 23, 2007. Another Lease Extension Agreement (No. 2) was executed on February 11, 2012. The City of Pompano Beach has operated a passive recreational area with a sandy beach area and wooded trail at this site for numerous years, allowing public access to the upland and the Intracoastal Waterway.

Mr. Crosley stated that this site has been identified as a primary Dredged Material Management Area (DMMA) in the District’s Long-Range Dredged Material Plan. The site has recently been regraded and a vegetated perimeter buffer is being established. The interior of the site remains open and available to manage dredged material. Staff has worked with the District’s attorney to draft a proposed (5) five-year lease agreement with additional provisions for maintenance and invasive plant removal.

Mr. Crosley stated that the City of Pompano Beach indicated they would have to approve an ordinance to execute a (5) five-year lease agreement, and requested a (1) one-year lease agreement with a yearly renewal option for a total of a (5) five-year term.

Attorney Breton stated that the new lease requires that the City of Pompano Beach maintains the landscape and replace any plants that die. The District also has the right to take the property back when needed for a project.

Mr. Crosley stated that the fence at this site needs to be replaced and the District would replace the fence with the standard black coated chain link fencing. The City of Pompano Beach has indicated that they would like a better fence, and would pay the cost difference and maintain the new fence.

Commissioner Dritenbas asked if this site has a sign identifying it as a District Dredged Material Management (DMMA) site. Mr. Crosley stated that this site will have (3) three signs boldly identifying it as a District DMMA property.

Commissioner Sansom stated that this site is the most visually intensive landscaped site that the District has. It is important that the City of Pompano Beach properly maintains this landscaping.

Commissioner Sansom asked about site mosquito control. Commissioner Blow suggested including in the lease that the City of Pompano Beach is responsible for mosquito control for this site. Attorney Breton suggested adding a mosquito control requirement to paragraph (12) twelve, under maintenance.

Mr. Crosley noted that Broward County ordinances protect the wetland area of this property.

Chair Cuzzo suggested that mosquito control requirements be included in all District leases.

Secretary Donaldson stated that the City of Pompano Beach would not manage mosquito control. Perhaps the requirement should state that the District is not responsible for mosquito control and the City of Pompano Beach would need to contact the agency responsible for mosquito control as part of their land maintenance requirement.

Commissioner Dritenbas made a motion to approve an amended (1) one-year lease agreement with a yearly renewal option for a total of a (5) five-year term with the City of Pompano Beach for passive recreational use of MSA 726, Broward County, Florida. The motion was seconded by Commissioner Sansom. Chair Cuzzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 13. Temporary Access Agreement for Dredged Material Management Area O-7, Martin County, Florida.**

Mr. Crosley stated that the U.S Army Corps of Engineers (USACE) is initiating construction of Dredged Material Management Area (DMMA) O-7 in Martin County. The proposed construction of the site also includes a permanent access road over South Florida Water Management District (SFWMD) property adjacent to the Okeechobee Waterway (OWW). The SFWMD property that includes the permanent roadway access is currently heavily wooded and contains environmental concerns, including numerous gopher tortoises.

Mr. Crosley stated that at staff's request, the USACE delayed receipt of bids for this project to allow staff time to negotiate with the adjacent property owners (Brevard Harbor's Edge, LLC.) to utilize an existing access roadway to the DMMA O-7 site. This alternate roadway would provide significant cost and time savings to the District by providing an alternative access to the site other than the construction of the proposed permanent roadway.

Mr. Crosley stated that the District's attorney has drafted an agreement that appears to be acceptable to all parties involved. This agreement would provide adequate time (three years) to construct and utilize DMMA O-7, while allowing for a continuation of the agreement with both parties' consent. A one-year cancellation notice is included to allow the District time to bid and construct the permanent roadway should the adjacent owners decide to terminate the agreement.

Mr. Crosley stated that the adjacent land owner has requested the continued use of a drainage easement on the western boundary of DMMA O-7. Since this area was not included in the original design of the DMMA, staff, the USACE, the District Engineer, and

the District's attorney are in concurrence that the use of this area will not impede the construction or operation of the DMMA. An agreement that runs concurrent with the access agreement, including the termination clause, has been drafted and initially accepted by the adjacent landowner.

Commissioner Blow referred to Item 4 of the easement agreement and suggested that specific growing season language, including dates, be included in the agreement.

Commissioner Blow made a motion to approve a temporary access and drainage easement agreement with Brevard Harbor's Edge, LLC for access to and around DMMA O-7, Martin County, Florida. The motion was seconded by Commissioner Sansom. Chair Cuozzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 14. Agreement with City of Cocoa for a Permeant Waterline Utility Easement Located on the Boundary of Dredged Material Management Area BV-11, Brevard County, Florida.**

Mr. Crosley stated that the City of Cocoa has requested a ten (10) foot-wide utility easement along the western boundary of Dredged Material Management Area (DMMA) BV-11 in Brevard County. This non-exclusive easement would allow the city to establish a needed waterline along the western boundary of the District's property and provide for pre-established ingress, egress and pipeline access to BV-11. In addition, the District will have access to water at this site should it be desirable in the future.

Mr. Crosley stated that the District Engineer and District's attorney have reviewed and approved the document as presented. In addition, staff and the District Engineer will review the construction progress and as-built drawings to assure compliance with the terms of the agreement.



Treasurer McCabe referred to Item 1 of the Resolution to Potential Impacts, and stated that the wording “These openings should be capped on each end as per FIND detail, so they are not a public nuisance and collect stormwater and debris” should have the wording “do not” added before “collect stormwater and debris”.

Commissioner Sansom made a motion to approve a permanent, non-exclusive ten-foot utility easement to the City of Cocoa for waterline access at DMMA BV-11, Brevard County, Florida as amended. The motion was seconded by Commissioner Blow. Chair Cuozzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 15. Finance and Budget Committee Report.**

Committee Chair McCabe stated that the District’s Finance and Budget Committee met before today’s Board meeting and the committee reviewed and recommends approval of the June 2016 financial statements, the delegation of authority and the expenditure and project status report. She asked for questions. There were none.

Treasurer McCabe made a motion to approve the recommendations of the District’s Finance and Budget Committee. The motion was seconded by Vice-Chair Netts. Chair Cuozzo asked for discussion. Hearing none, a vote was taken and the motion passed unanimously.

**ITEM 16. Washington D.C. Report.**

Mr. Crosley stated that revised language from the U.S. Army Corps of Engineers (USACE) clarified that compensatory mitigation is not required for maintenance dredging by non-federal entities in authorized waterways. The revised language was sought by Representative Frankel’s office after the USACE suggested to the Minority Staff of the

House Water Resources Subcommittee that the original language was problematic. The revised language was sent to the Minority Staff for review and no response has been received at this time.

Mr. Crosley stated that the District is hopeful that the new language will be accepted by the House Water Resources subcommittee staff as they move forward with a 2016 Water Resources Development Act (WRDA). It is hopeful that congress has enough time to consider a WRDA during the lame-duck session, because there does not seem to be anyway to get WRDA moving prior to the election since there are not enough days on the congressional calendar. He asked for questions.

Commissioner Isiminger commended Mr. Davenport and Representative Lois Frankel for their work on this proposed exemption. He stated that Representative Frankel understands and supports the importance of this revised WRDA language.

Commissioner Sansom stated that after the election, there could be some new representatives at the local level. He suggested a trip to Washington in the Spring of 2017.

Commissioner Dritenbas stated that this proposed compensatory mitigation exemption applies for Florida, Georgia, South Carolina, and North Carolina.

Mr. Crosley noted that the USACE has realized that this is not just a South Florida issue.

**ITEM 17.     Additional Staff Comments and Additional Agenda Items.**

Chair Cuozzo asked if there were any additional staff comments or agenda items.

Mr. Crosley stated that the District's first FY 2016-2017 Tax and Budget Hearing will be held on the evening of Thursday, September 8, 2016 in Palm Beach County, in association with the Board's September 9<sup>th</sup> Board meeting. He stated that the Tax Hearing

will be held at 5:30 p.m. at the Juno Beach Town Hall, 340 Ocean Drive, Juno Beach, Florida 33408. He stated that the Final Tax and Budget Hearing would then become the stand alone tax hearing in late September. It is imperative that all commissioners attend this meeting.

Mr. Crosley stated that the Okeechobee Waterway (OWW) Trip is scheduled for October 25, 2016 through October 27, 2016. He requested that commissioners interested in participating in the trip to contact Ms. Zimmerman.

**ITEM 18. Additional Commissioners Comments.**

Chair Cuozzo asked if there were any additional commissioner comments.

Commissioner Sansom stated that last evening's event was great.

Commissioner Dritenbas stated that it is good to be on the water last evening and actually view the problems or projects on the waterways. There is a tremendous future for the District to work with the city and county on waterfront projects at the City of Vero Beach's former power and water treatment plant site. The 33.5-acre site is located on the Indian River Lagoon.

Mr. Crosley commended Commissioner Dritenbas for identifying this site for potential public use and access to the waterway.

Commissioner Blow stated that several years ago the Bridge of Lions in St. Augustine was replaced. The city insisted that the new bridge be constructed exactly like the original bridge constructed in 1927. The bridge is functionally obsolete. The citizens are blaming the bridge opening for the traffic problems and are requesting that the Bridge of Lions limit its openings. He stated that he will be working with the city on this process.

Mr. Crosley stated that during construction and planning of the Bridge of Lions, the District worked to expand and update the bridge function while keeping the original cosmetic architecture features. The historical society voted against those changes because they did not want to change the bridge visual appearance, therefore the functionality of the bridge was not updated. As this discussion progresses, it will be brought to the Board for comment.

Commissioner Blow stated that the Marine Industry Association should get involved in this issue. The citizens of St. Augustine should not be allowed to use the bridge as a scapegoat for traffic problems by imposing a hindrance on safe vessel traffic in the Intracoastal Waterway (IWW).

Commissioner Crowley stated that in Miami, there are strict bridge opening schedules. It was found that the bridge tenders were not following the bridge opening rules and the bridges were open for 10 to 15 minutes longer than the regulated amount of time and that was the cause for the traffic problems. There are ways to make the traffic problems better without shutting down the bridge opening schedule.

Commissioner Blow stated that the time the bridge is open is one of the items on his list that includes the bridge opening cycle. That is one of things that needs to happen before additional restrictions are considered.

Treasurer McCabe stated that she attended the ribbon cutting for the Halifax River Trail and Pedestrian Underpass project in Daytona Beach. She stated that the ribbon cutting ceremony had a large public turnout and the project was well received by the citizens.

Chair Cuzzo stated that he and Secretary Donaldson attended a ribbon cutting for the Charlie Leighton Park Accessible Floating Dock project in Martin County last week.

The Rowing Club uses this facility and it is also the winter home for multiple northeastern University Rowing Clubs. The ceremony received large public turnout, TV and newspaper coverage.

**ITEM 19.     Adjournment.**

Chair Cuozzo stated that hearing no further business the meeting was adjourned at 10:30 a.m.



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# **IWW STATUS UPDATE**

## **FIND Board of Commissioners Meeting**

### **September 9, 2016**



#### **WORK ACTIVITIES IN FY 16:**

1. DMMA O-7 (Martin County)
2. IWW: Broward Reach 1 (Broward County)
3. IWW: St. Augustine and Matanzas (St. Johns County)
4. DMMA O-23 (Martin County)
5. Crossroads (Martin County)
6. Bakers-Haulover (Miami-Dade County)



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**IWW STATUS UPDATE  
FIND Board of Commissioners Meeting  
September 9, 2016**



AIWW = Atlantic Intracoastal Waterway Norfolk to St. Johns  
IWW = Intracoastal Waterway Jacksonville to Miami (12' and 10' projects)  
DMMA = Dredge Material Management Area

**1. WORK ACTIVITY: DMMA O-7**

**CONTRACT AMOUNT: TBD**

**DESCRIPTION OF WORK:** Finalization of plans and specifications, environmental coordination, procurement and administration of the construction contract for DMMA O-7.

**SCHEDULE O-7:**

- Contract Advertisement Initiated: 13 May 2016A
- Bid Opening: 12 Sept 2016
- Contract Award: 30 Sept 2016

**FIND WORK ORDER:** Funding for completion of P&S was funded with 100% Federal funding. A work order for construction funds was presented and approved at the March 2016 FIND Board.

**NAME OF CONTRACTOR: TBD**

**STATUS:** The contract for construction of DMMA O-7 was advertised on 13 May 2016. The contracting tool will be small business set aside with the proposals being evaluated on a least cost technically acceptable basis. FIND staff was successful in coordinating with the adjacent property owner so that the contractor could utilize the existing road. An amendment was posted on Friday 26 Aug 2016 which removes the road construction from the contract and addresses contractor questions. A final amendment will be required once the revised real estate certification has been provided to the Corps. The bid receipt date has tentatively been pushed out to 13 Sept 2016. Award of the contract will likely slip into October 2016 due to the evaluation process for a least cost technically acceptable proposal.



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**IWW STATUS UPDATE  
FIND Board of Commissioners Meeting  
September 9, 2016**



**2. WORK ACTIVITY: IWW Broward Reach 1 (Broward County)**

**CONTRACT AMOUNT: TBD**

**DESCRIPTION OF WORK:** A hydro survey was performed by Morgan and Ecklund and provided to the Corps on 26 June 2014. There is approximately 50k cy of material located within the federal channel down to 10' and 80k cy down to 10'+2'. Even at 80k cy, given the small quantity, the most cost effective way to pursue the dredging would be utilization of a Corps of Engineers dredge, either the Currituck or Murden, and dispose of in the nearshore.

**SCHEDULE Broward Reach 1:**

- |  |               |
|--|---------------|
| • Complete Environmental Assessment (incl. public reviews) | 27 March 2017 |
| • Obtain Water Quality Certification                       | 27 March 2017 |
| • Obtain updated Survey                                    | 1 Dec 2016    |
| • Provide Dredge Orders to SAW                             | 1 April 2017  |

**FIND WORK ORDER:** Current path forward is to proceed with dredging with a Wilmington Hopper dredge unless it is determined that the quantity is large enough to justify a standard procurement. Anticipate a work order being presented to the FIND Board in February 2017 for dredging funding.

**NAME OF CONTRACTOR: TBD**

**STATUS:** Based on preliminary discussions with the Hillsboro Inlet Chairman, Mr. Jack Holland, it has been suggested that we consider an alternative that requires us dredging material from the IWW and placing in within the existing Hillsboro Inlet Settling Basin. This would alleviate the need to obtain NEPA on a new nearshore placement area. The Hillsboro Inlet dredge would then move the material to the dry beach south of the Inlet. In order to do this, we would need to modify Broward County's permit or obtain a new stand-alone permit. NEPA would also need to be addressed since IWW material has never been placed in this disposal location.





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**IWW STATUS UPDATE  
FIND Board of Commissioners Meeting  
September 9, 2016**



**3. WORK ACTIVITY: IWW St. Augustine / Matanzas**

**CONTRACT AMOUNT: TBD**

**DESCRIPTION OF WORK:** Development of Plans and Specifications for St. Augustine and Matanzas reach of the IWW. Plan is to combine these two reaches to save in mobilization cost since both require the same equipment and have the same placement method.

**SCHEDULE: (Tentative)**

- |  |               |
|--|---------------|
| • Obtain Survey                        | 6 Nov 2015A   |
| • Initiate P&S                         | 16 Nov 2015A  |
| • Verify NEPA/FDEP permit              | 16 Nov 2015A  |
| • Complete Draft P&S including reviews | 16 May 2016A  |
| • Advertise Contract                   | 28 July 2016A |
| • Bid Opening                          | 30 Aug 2016A  |
| • Contract Award:                      | 23 Sept 2016  |

**FIND WORK ORDER:** P&S will be funded 100% with Federal funding in 2016. A work order was presented to and approved by the FIND Board in April 2016 to fund a portion of the dredging contract. Dredging will be paid for with a combination of FIND Contributed Funds and COE federal funding.

**NAME OF CONTRACTOR: TBD**

**STATUS:** Contract was advertised on 28 July 2016 and bids will be received on 30 August 2016. A pre bid site visit was held on 23 August 2016 where potential bidders could view the two placement areas as the team having the opportunity to coordinate with Anastasia State Park. Award of the contract is tracking for 23 Sept 2016.



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**IWW STATUS UPDATE  
FIND Board of Commissioners Meeting  
September 9, 2016**



**4. WORK ACTIVITY: DMMA O-23 (Martin County)**

**CONTRACT AMOUNT: TBD**

**DESCRIPTION OF WORK:** Development of Plans and Specifications for the construction of DMMA O-23 which is located in Martin County, Florida.

**SCHEDULE: (Tentative)**

- |                                 |               |
|---------------------------------|---------------|
| • Initiate P&S                  | 1 Oct 2016    |
| • Complete NEPA                 | 13 Feb 2017   |
| • Complete P&S with all reviews | 25 April 2017 |
| • Advertise Contract            | 1 May 2017    |
| • Receive Bids                  | 31 May 2017   |
| • Contract Award:               | 30 June 2017  |

**FIND WORK ORDER:** P&S will be funded 100% with Federal funding. Construction of DMMA O-23 will be with FIND Contributed Funds.

**NAME OF CONTRACTOR: TBD**

**STATUS:** NEPA activities for DMMA O-23 kicked off on 16 Nov 2015 and P&S will kick off once DMMA O-7 is awarded. O-23 will utilize the same weir system as O-7. There is a federally listed plant, reindeer lichen, which grows in scrub areas which is present on the site. Probably 10-20sf of the species is estimated to be present which will have to be relocated out of the construction area. Draft schedule shows advertisement of the construction contract in May 2017 and award in June 2017.

Anticipate a work order being presented to the FIND Board in April 2017 for construction funding.



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**IWW STATUS UPDATE  
FIND Board of Commissioners Meeting  
September 9, 2016**




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**5. WORK ACTIVITY: IWW Crossroads (Martin County)**

**CONTRACT AMOUNT: TBD**

**DESCRIPTION OF WORK:** Staff has identified a small problematic shoal within IWW Crossroads and has asked that the Corps investigate the most efficient way to remove it.

**FIND WORK ORDER:** Depending on the order of magnitude for dredging, a FIND work order may be required. Amount to be determined.

**NAME OF CONTRACTOR: TBD**

**STATUS:** There is approximately 10k cubic yards of material in a problematic shoal within the Crossroads reach of the IWW. The plan is to utilize a Corps dredge to remove this small quantity. An EA and FONSI have been completed that evaluated material being dredged from the IWW and placed within the settling basin at St. Lucie Inlet.

After coordination with FDEP, it was determined that the best path forward is to proceed with a MINOR modification to the existing IWW Crossroads permit instead of modifying Martin County's permit. A modification to FDEP permit No. 0296970-001-JC has been submitted. RAI #1 was received on 29 July 2016 and responded to on 17 August 2016. DEP has until 17 Sept 2016 to respond to the RAI.

Once the permit modification is received, project management will coordinate with the Wilmington District to schedule a time for them to proceed with removal of this shoal. May look to combining the effort with 2-3 other small jobs so that mobilization can be split and minimized.



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**IWW STATUS UPDATE  
FIND Board of Commissioners Meeting  
September 9, 2016**



**6. WORK ACTIVITY: IWW Bakers Haulover (Miami Dade County)**

**CONTRACT AMOUNT: TBD**

**DESCRIPTION OF WORK:** Bakers Haulover continues to be one of the highest frequency dredging needs within the IWW. The current plan is to take advantage of regional sediment management practices and dredge Bakers Haulover as a borrow source for the Miami Dade County shore protection project.

**FIND WORK ORDER: N/A**

**NAME OF CONTRACTOR: TBD**

**STATUS:** Project managers for both the IWW and Miami Dade County shore protection project area coordinating on the path forward for utilizing IWW Bakers Haulover material as sand source for the shore protection project. FDEP permit for either the IWW or the shore protection project will have to be modified if the area of placement is not specifically what is currently permitted for placement. Funding for this action would be from FY 16 carryover funding or FY 17 workplan funding.



## PALM BEACH COUNTY PROJECT STATUS UPDATE

SEPTEMBER 2016

### Dredged Material Management Plan

Phase I of the Dredged Material Management Plan (DMMP) for the Intracoastal Waterway in Palm Beach County was completed in 1989. Phase II of the DMMP was completed in 1990 and all major land acquisition was completed in 1991.

The 50-year dredging projection for the 43 miles of channel in Palm Beach County is 2.9 million cu/yds and the storage projection is approximately 5.5 million cu/yds. The majority of this dredging (76%) is associated with Jupiter Inlet. *(Please see the attached location maps).*

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### Dredged Material Management Area Development

Six upland Dredged Material Management Areas (DMMA) have been acquired and two beach placement areas have been secured to manage dredged materials from the Intracoastal Waterway (IWW) in Palm Beach County. DMMA's Peanut Island (PI) and MSA 641A (Delray Beach) have been constructed. Easements have been re-secured for beach placement of IWW material on the beach south of Jupiter Inlet (PB-JB).

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### Waterway Dredging

In 2013, the USACE completed a maintenance dredging project for Cuts P1 through P-4 on the Intracoastal Waterway in the vicinity of Jupiter Inlet. This 30,000 cu/yd project was funded through supplemental Operations & Maintenance funding via Hurricane Sandy relief. This area was previously dredged in 2009, and is regularly dredged approximately every 3 years. It is scheduled to be dredged again in 2016.

A small but navigation-limiting shoal in the vicinity of the Parker Bridge in Palm Beach Dredging Reach II (North Palm Beach) was removed in September of 2013. The dredged material (approximately 5,000 cu/yds) was placed on MSA 617C and hauled away by the contractor.

In 2016, a portion of Palm Beach Reach III of the IWW north of the Port of Palm Beach was deepened from -10' MLW to 17' MLW. The contractor, Cavache, Inc. encountered significant rock in the dredge template but was able to complete dredging of over 100,000 cu/yds for a successful project.

The preliminary engineering and permitting of the deepening of the remainder of Reach III south of the Port of Palm Beach to the City of West Palm Beach was approved by the Board in December of 2015. This project is strongly supported by the Marine Industries of Palm Beach County and will support the future growth of the marine industry throughout the area. *(Please see attached the maps).*

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## PALM BEACH COUNTY PROJECT STATUS UPDATE

SEPTEMBER 2016

### **Waterways Economic Study**

The Palm Beach County Waterways Economic Study was completed in 1998 and updated in 2007 and 2011. The recent study documented up to 831 recreational waterway-related businesses in the county, employing 5,879 people, with salaries of \$297.5 million and a total economic impact of \$1.26 billion. Property values were determined to increase by \$2 billion due to the presence of the IWW channel. There are approximately 33,128 registered vessels in the county. *(Please see the attached economic summary and location map of marine-related businesses).*

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### **Waterways Assistance Program**

Since 1986, the District has provided \$47.3 million in Waterways Assistance Program funding to 185 projects in the County having a total constructed value of approximately \$140 million. The County, fifteen waterfront cities, and the Port of Palm Beach have all participated in the program.

Notable projects funded include: Peanut Island Park, construction or rehabilitation of most of the area's saltwater boat ramps, South Cove, Riviera Beach Marina, Jupiter Riverwalk, Belle Glade Waterfront, Lake Park Marina, Bryant Park, Delray Intracoastal Park, and the West Palm Beach Waterfront Renovations. An additional 6 applications are currently being considered for funding assistance for FY 2015-16. *(Please see the attached list and map).*

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### **Cooperative Assistance Program**

The District's Cooperative Assistance Program has provided funding assistance for the following projects with elements in Palm Beach County: Florida Marine Patrol Officer Funding; Clean Marina Program; Clean Vessel Act; Ocean Avenue bridge replacement; Manatee Acoustic Warning System, and Shoreline Stabilization and Boat lift at the FWC Office. The District's funding assistance for the Palm Beach County portion of these projects was approximately \$2.6 million.

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### **Interlocal Agreement Program**

The District's Interlocal Agreement Program (a sub-set of the WAP and CAP programs) has provided funding assistance for the following projects with elements in Palm Beach County: Clean Marina Program; Clean Vessel Act, Dredging of ICW Cut P-50, and the MSA 614B Mitigation/Enhancement Project. The District's funding assistance for the Palm Beach County portion of these projects was approximately \$565,000.

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### **Waterway Clean Up Program**

The District has partnered with Keep Indian River Beautiful, Inc. for twelve years and the Marine Industry Association of the Treasure Coast for several years on successful waterway clean-up projects in Indian River County.

**PALM BEACH COUNTY PROJECT STATUS UPDATE****SEPTEMBER 2016**

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**Small-Scale Derelict Vessel Removal Program**

The District has assisted with the removal of 21 vessels in Palm Beach County through the Small-Scale Derelict Vessel Removal Program.

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**Small-Scale Spoil Island Enhancement and Restoration Program**

To date, the County has not participated in this program.

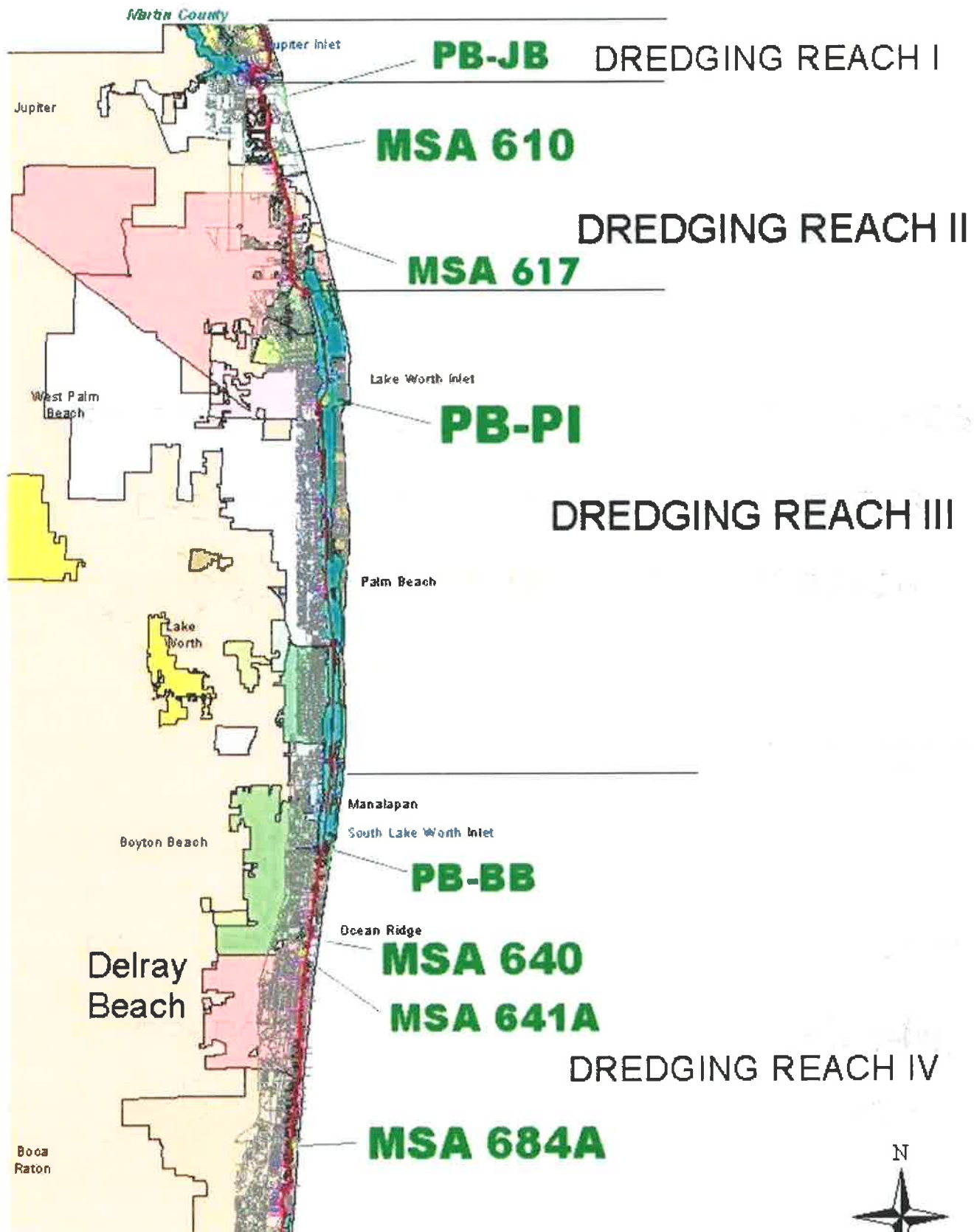
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**Public Information Program**

The District currently prints and distributes brochures with information pertaining to Palm Beach County Waterways. Additional waterway information and useful links are available on the District's website at <http://www.aicw.org/>.



# PALM BEACH COUNTY ICW DREDGING REACHES AND DREDGED MATERIAL MANAGEMENT AREAS





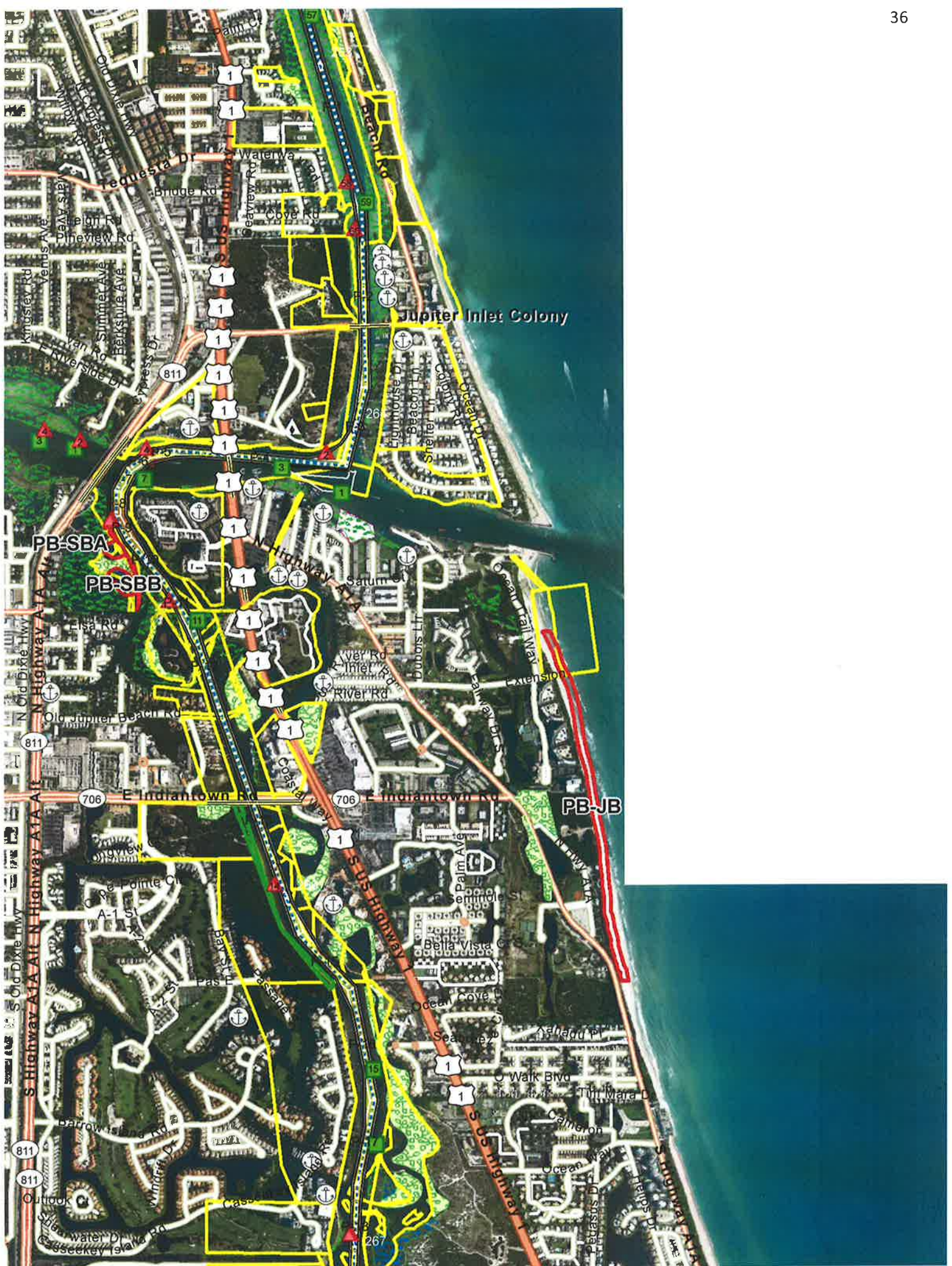


FIND Owned  
Channel  
ICW Right-of-Way

DMMA PB-JIB
















 FIND Owned  
Channel  
ICW Right-of-Way

MSA 610/611







MSA610/611A

OFFICE SITE

OFFICE SITE

OFFICE SITE





FIND Owned  
Channel  
ICW Right-of-Way

MSA 617C







MW

MW

MSA 617C

MW

MSA 617C

MW

MW





 FIND Owned  
Channel  
ICW Right-of-Way

DMMA PB-PI









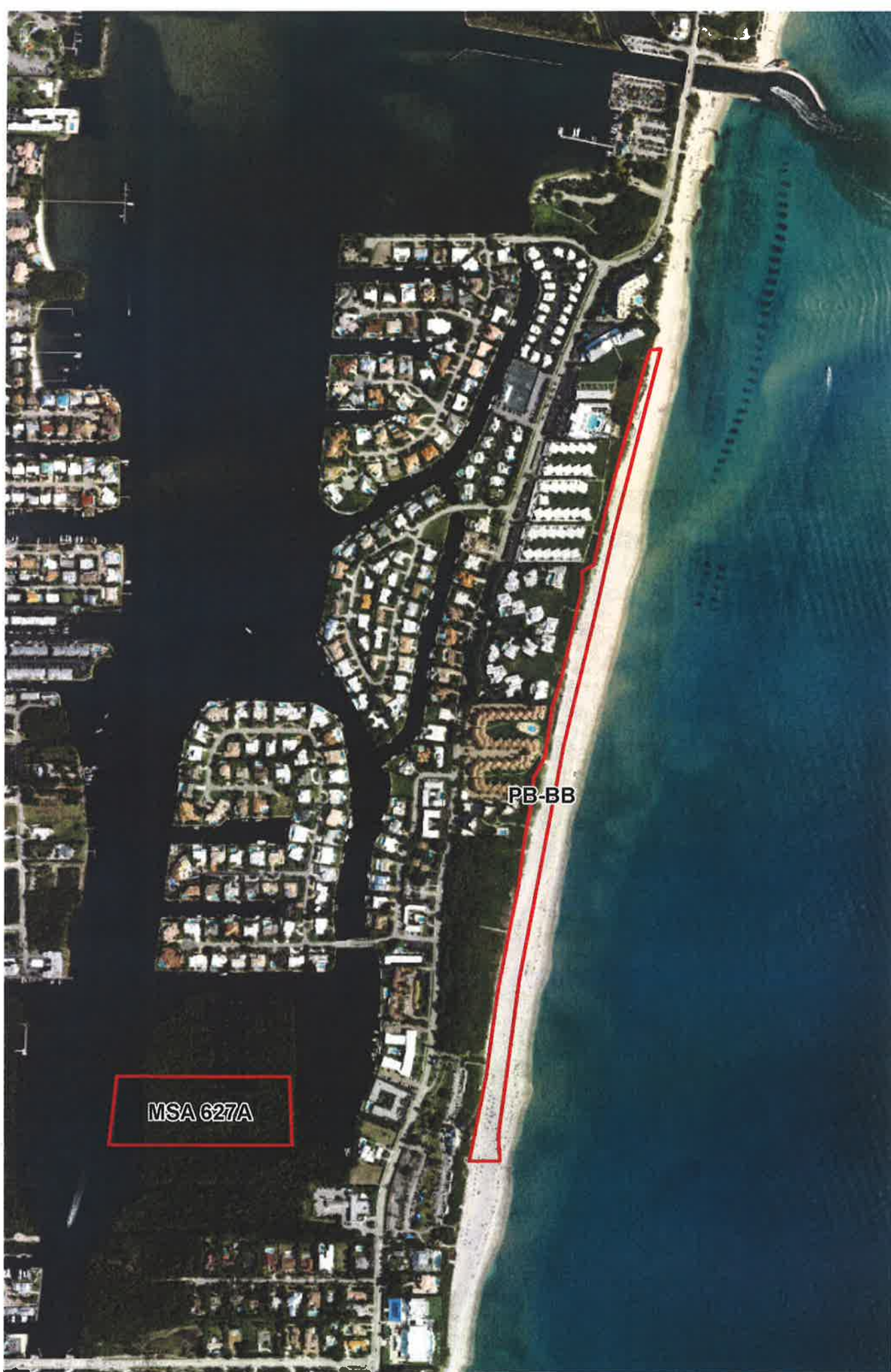


FIND Owned  
Channel  
ICW Right-of-Way

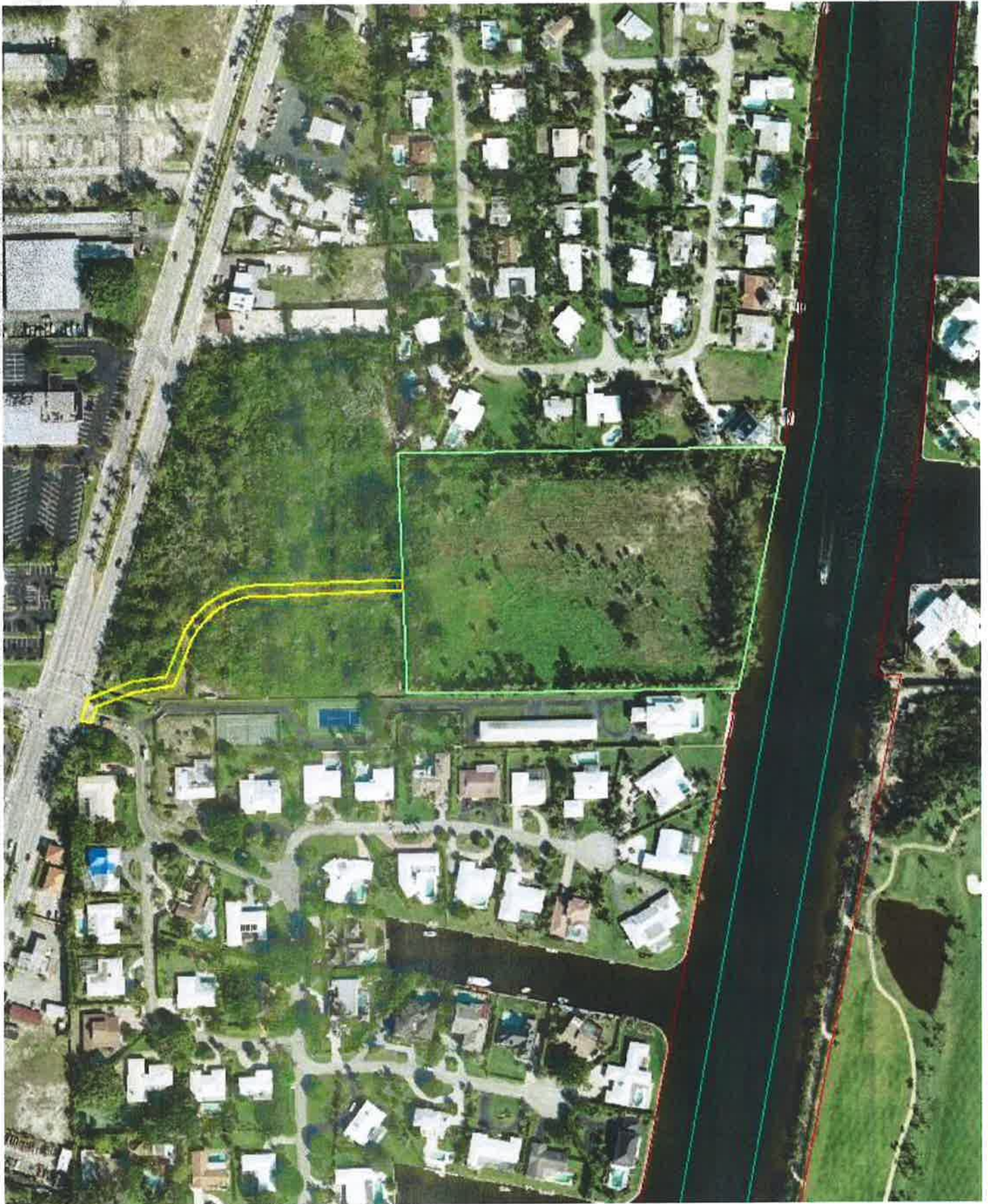
DMMA PB-BB











Findeas  
FIND Owned  
Channel  
ICW Right-of-Way

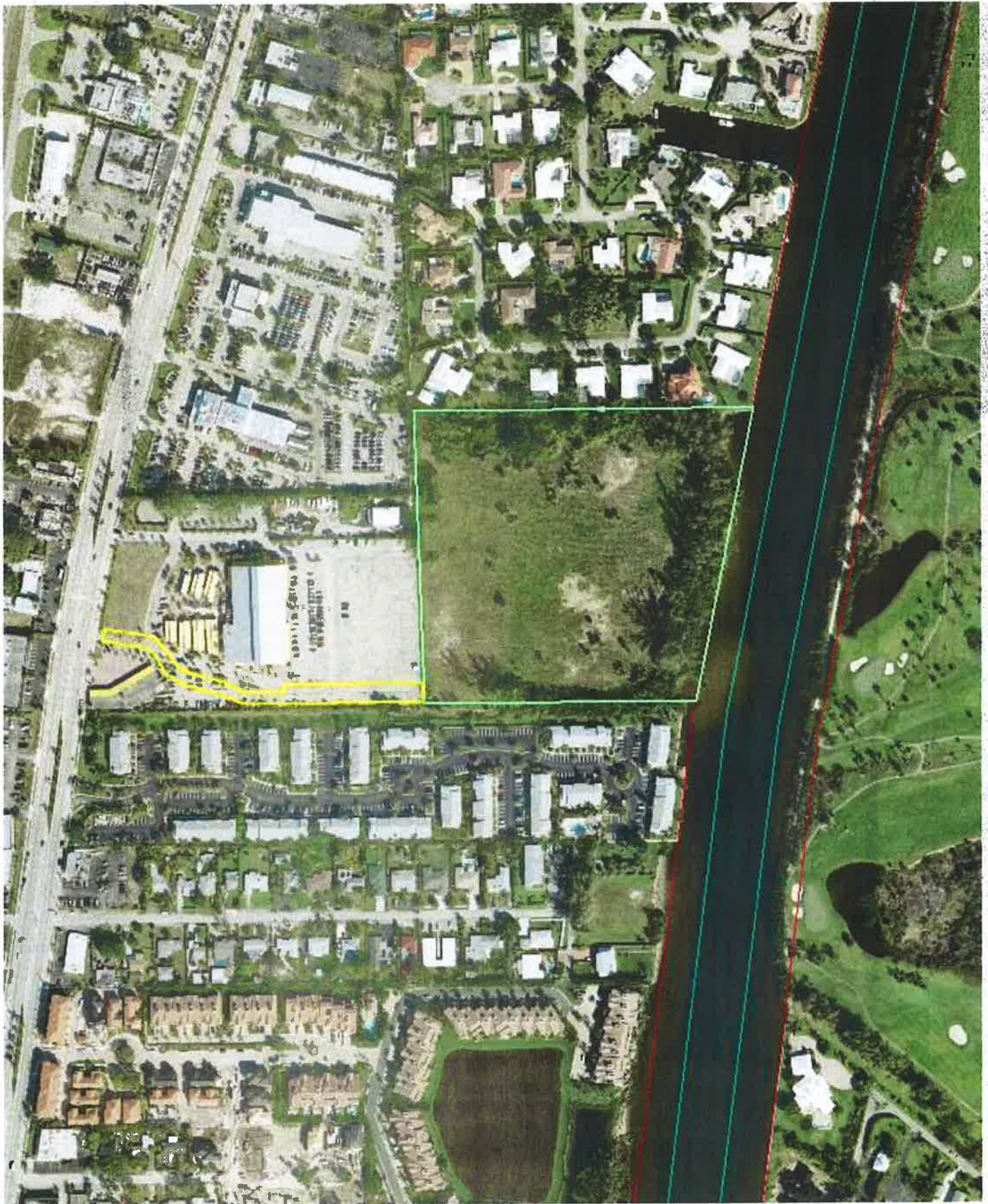
MSA 640/640A











-  Findeas
-  FIND Owned
-  Channel
-  ICW Right-of-Way

MSA 641/641A











Findeas  
FIND Owned  
Channel  
ICW Right-of-Way

MSA 684A







MSA 684A

# ECONOMIC BENEFITS OF THE DISTRICT'S WATERWAYS



## Purpose

To update economic benefits in Palm Beach County of marine-related activities on the District Waterways, as previously estimated in *An Economic Analysis of the District's Waterways in Palm Beach County*, December 2006, and to provide the general public and Federal, State, and local officials with a clear understanding of the importance of maintaining the waterways.

## Scenarios Evaluated

1. Current Existing Conditions
2. Cessation of Waterways Maintenance
3. Increase in Waterways Maintenance
4. Estimated impact of the 2007-2009 U.S. economic recession



## ECONOMIC IMPACTS

### Current Existing Impacts

- \$1.26 billion in business volume
- \$297.5 million in personal income
- 5,879 jobs
- \$53.3 million in tax revenue

### Impacts of Cessation of Waterways Maintenance

- Decrease of \$537.3 million in business volume
- Decrease of \$126.3 million in personal income
- Decrease of 2,640 jobs
- Decrease of \$22.2 million in tax revenue

### Impacts of an Increase in Waterways Maintenance

- Increase of \$147.4 million in business volume
- Increase of \$33.0 million in personal income
- Increase of 686 jobs
- Increase of \$5.7 million in tax revenue

### Impact of the 2007-2009 U.S. Economic Recession

- Decrease of \$779.97 million in business volume
- Decrease of \$182.0 million in personal income
- Decrease of 3,789 jobs
- Decrease of \$31.7 million in tax revenue

## Economic Benefits as of April 2011

PALM BEACH COUNTY





# ECONOMIC BENEFITS OF THE DISTRICT'S WATERWAYS

## PALM BEACH COUNTY

### The Intracoastal Waterway

The Atlantic Intracoastal Waterway (AICW) is a 1,391-mile channel between Trenton, New Jersey, and Miami, Florida. The Waterway along Florida's eastern seaboard is 406 miles long and follows coastal rivers and lagoons past numerous tourism-oriented communities. The channel is authorized to a depth of 12 feet from Nassau County to Fort Pierce, and a 10 foot depth south through Miami-Dade County. Boating activities on the waterways contribute to the existence of numerous marine-related businesses such as marinas and boatyards and have stimulated development of residential properties on the Waterways.

### The Navigation District

The Florida Inland Navigation District, created in 1927, is the local sponsor for the AICW in Florida. In cooperation with the Jacksonville District of the U.S. Army Corps of Engineers, the Navigation District is responsible for maintenance of the AICW in Florida. To maintain navigation, the waterways need to be periodically dredged due to shoaling from currents, upland soil erosion, and the movement of offshore sands through the ocean inlets. Maintenance dredging is projected to cost approximately \$12 to \$16 million annually during the next 50 years, of which 50 percent of the costs are expected to be borne by property owners within the Navigation District's jurisdiction.

The Navigation District also partners with other governments to provide waterway access and improvement facilities for our mutual constituents. These projects include public boat ramps, marinas, side channels, parks, fishing piers, boardwalks, navigation aids, derelict vessel removal, shoreline stabilization, and waterway cleanups.

### Source of Data Used in This Analysis

The economic benefits of the Waterways were estimated in December 2006 in *An Economic Analysis of the District's Waterways in Palm Beach County*.

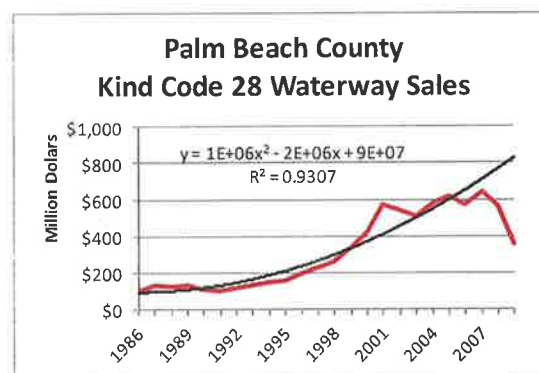
### Updating of Previously Estimated Benefits

The benefits presented in this analysis were estimated by updating the direct marine-business

impacts in the original analysis to current values using the change in gross sales reported by boat dealers to the Florida Department of Revenue (FDOR). The updated direct impacts were used in conjunction with an IMPLAN input/output model to estimate total economic benefits.

### Estimating the Impact of the Recession

The impact of the recession was estimated by determining the trend in gross sales of boat dealers over the 20-year period prior to the onset of the recession. This trend was used to estimate the theoretical gross sales if sales had continued to increase at the rates previously experienced. The red line in the figure below illustrates reported actual gross sales of boat dealers and the black line illustrates the trend of those sales. From 2007 to 2009 gross boat dealer sales in Palm Beach County decreased by 45 percent; if the recession had not occurred, it is estimated that gross sales from 2007 to 2009 would have decreased by only four percent.

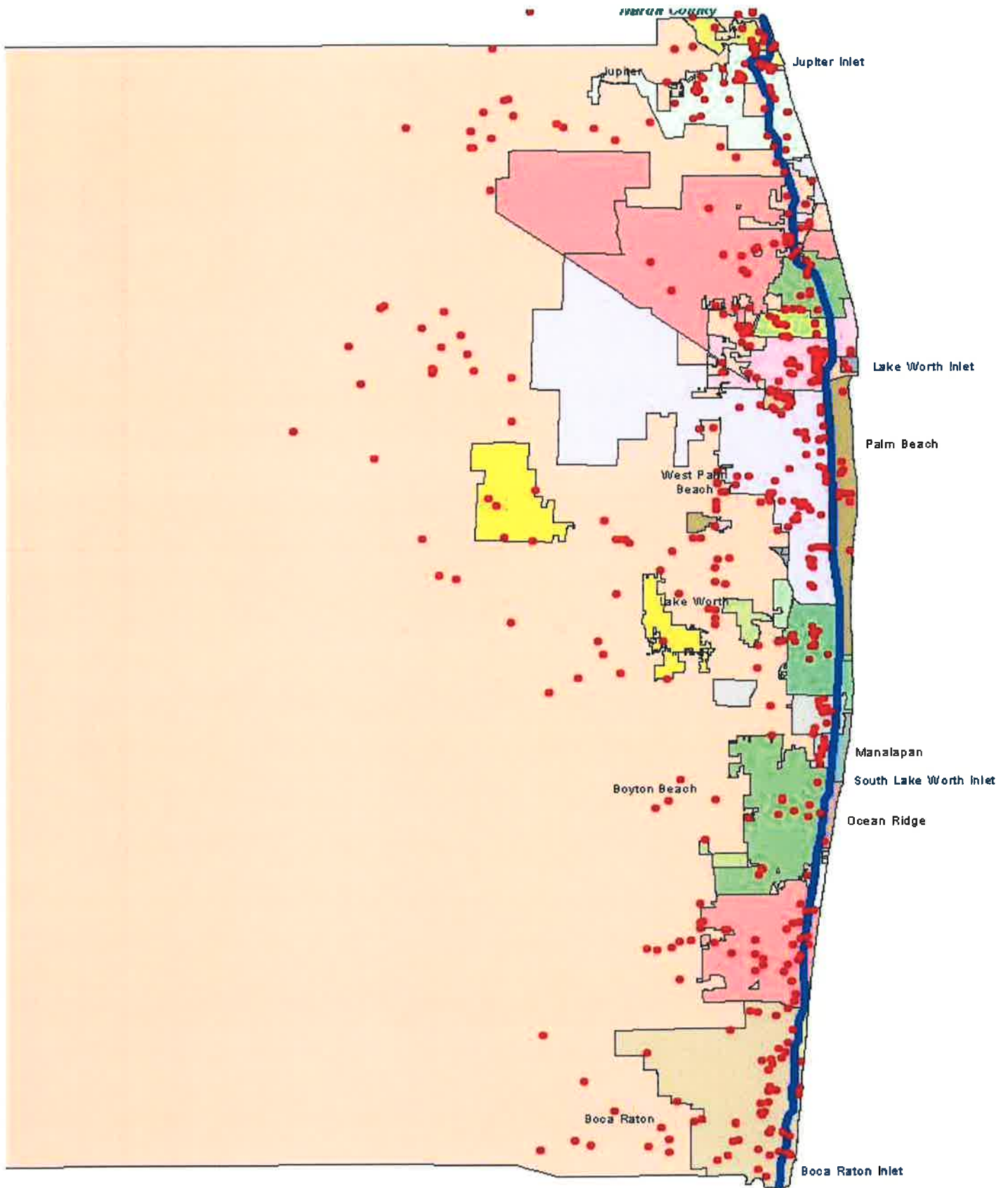


### Annual Boater Spending on Gas, Food, and Drinks at Non-Marine-Related Establishments

- Current existing conditions: \$36.4 million
- Cessation of maintenance: \$22.5 million
- Increased maintenance: \$36.4 million
- Assuming no recession: \$48.5 million

### Vessel Draft Restrictions Assumed for Each Scenario

- Current existing conditions: 6.5 feet MLW
- Cessation of maintenance: 3 feet MLW
- Increased maintenance: 10 feet MLW
- Assuming no recession: 6.5 feet MLW



LOCATION MAP

## Palm Beach County Waterway Related Businesses

**FLORIDA INLAND NAVIGATION DISTRICT  
WATERWAYS ASSISTANCE PROGRAM PROJECTS IN PALM BEACH COUNTY 1986-2015**

Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Peanut Island Development - Phase I V	PB-00-90	Palm Beach County	\$525,000	\$6,344,431
Phil Foster Park - Phase I	PB-01-94	Palm Beach County	\$100,000	\$200,000
Ship For Kids	PB-01-95	Palm Beach County	\$75,000	\$150,000
Lake Worth Wetlands Restoration Project	PB-02-101	Palm Beach County	\$400,000	\$13,968,377
Lake Worth Lagoon Artificial Reef At Kelsey Park	PB-03-107	Palm Beach County	\$100,000	\$200,000
Phil Foster Park Development - Phase I I I	PB-03-108	Palm Beach County	\$720,000	\$1,440,000
Burt Reynolds Park Development - Phase A	PB-04-110	Palm Beach County	\$400,000	\$1,000,000
Du Bois Park - Phase I	PB-05-114	Palm Beach County	\$61,854	\$250,000
Burt Reynolds Park - Phase I I	PB-06-121	Palm Beach County	\$806,750	\$2,413,500
Light Harbor Boat Ramp ( F.K.A. Moroso Whwy Park)	PB-07-126	Palm Beach County	\$987,000	\$2,476,321
S. Lake Worth Inlet Sand Trap & Boat Channel Dredging	PB-07-127	Palm Beach County	\$233,220	\$897,000
John's Island Oyster Reef Project	PB-08-132	Palm Beach County	\$200,000	\$680,000
Snook Islands Public Use Facilities	PB-08-133	Palm Beach County	\$639,575	\$1,279,150
Dubois Park Marina & Shoreline Stabilization	PB-09-140	Palm Beach County	\$987,000	\$2,587,975
Burt Reynolds Park Staging Dock Extension	PB-10-146	Palm Beach County	\$75,000	\$150,000
Jupiter Ridge Shoreline Restoration Project	PB-10-147	Palm Beach County	\$500,000	\$1,479,718
South Cove Restoration And Boardwalk	PB-10-148	Palm Beach County	\$1,000,000	\$4,388,000
Waterway Park Design & Permitting - Phase I (Expired)	PB-10-149	Palm Beach County	\$100,000	\$428,711
Bert Winters Boat Ramp - Phase I	PB-11-152	Palm Beach County	\$90,000	\$180,000
Bryant Park Wetland Restoration & Boat Ramp Facility	PB-11-153	Palm Beach County	\$255,000	\$625,000
John's Island Oyster Reef Project - Phase B	PB-11-154	Palm Beach County	\$406,250	\$812,500
Lake Wyman Restoration Project (Expired)	PB-11-155	Palm Beach County	\$372,868	\$745,736
Burt Reynolds Park - West Side Design - Phase I	PB-12-162	Palm Beach County	\$50,000	\$100,000
Fullerton Island Restoration Project	PB-12-163	Palm Beach County	\$794,030	\$2,532,710
Bert Winters Park Acquisition	PB-13-169	Palm Beach County	\$250,000	\$1,000,000
Highland Beach Mangroves Shoreline Restoration	PB-13-170	Palm Beach County	\$258,037	\$516,075
Juno Dunes Shoreline Restoration	PB-13-171	Palm Beach County	\$280,725	\$561,450
Ocean Inlet Design And Permitting	PB-13-172	Palm Beach County	\$75,000	\$150,000
Waterway Park Development	PB-13-173	Palm Beach County	\$1,420,396	\$2,840,792
Burt Reynolds Park West Side Redevelopment	PB-14-180	Palm Beach County	\$750,000	\$1,500,000
Waterway Park Development - Phase I I B	PB-14-181	Palm Beach County	\$1,254,604	\$2,509,208
Old Bridge Park Natural Area	PB-14-182	Palm Beach County	\$251,875	\$503,750
Torry Island Reef Project	PB-14-183	Palm Beach County	\$118,150	\$236,300
Peanut Island Erosion Control & Reef Project	PB-14-184	Palm Beach County	\$166,800	\$333,600
Bert Winters Boat Ramp	PB-89-5	Palm Beach County	\$71,500	\$143,000

**FLORIDA INLAND NAVIGATION DISTRICT  
WATERWAYS ASSISTANCE PROGRAM PROJECTS IN PALM BEACH COUNTY 1986-2015**

Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Dubois Park Restoration - Phase I	PB-90-7	Palm Beach County	\$15,000	\$30,000
Juno Park Improvements	PB-90-8	Palm Beach County	\$12,500	\$25,000
Ocean Inlet Marina Channel Dredging & Daymarking	PB-91-12	Palm Beach County	\$60,000	\$66,975
Munyon Island Restoration - Phase I	PB-91-13	Palm Beach County	\$100,000	\$202,000
Juno Beach Boat Ramp Improvement	PB-92-18	Palm Beach County	\$60,354	\$120,708
Burt Reynolds Park Boat Ramp Design	PB-92-19	Palm Beach County	\$15,000	\$30,000
Munyon Island Restoration - Phase II	PB-92-20	Palm Beach County	\$211,000	\$442,000
Surveys For Munyon Island Restoration	PB-93-26	Palm Beach County	\$21,704	\$43,408
Burt Reynolds Park Boat Ramp & Parking	PB-93-28	Palm Beach County	\$116,500	\$400,000
Dubois Park Marina Shoreline Stabilization - Phase I	PB-93-29	Palm Beach County	\$96,687	\$222,380
Burt Reynolds Park Boat Ramp Construction & Improvement	PB-94-33	Palm Beach County	\$135,234	\$270,468
Munyon Island Wetland Restoration Phase II	PB-94-34	Palm Beach County	\$223,500	\$1,170,083
Inshore Artificial Reef Project	PB-95-37	Palm Beach County	\$73,687	\$147,374
Peanut Island Development - Phase I	PB-95-38	Palm Beach County	\$456,216	\$912,433
Peanut Island Park - Phase 1 B & 2 A	PB-96-44	Palm Beach County	\$399,050	\$798,100
Red Reef Park Estuarine Enhancement	PB-96-45	Palm Beach County	\$57,270	\$114,540
Light Harbor Marina - Phase I (Expired)	PB-97-51	Palm Beach County	\$80,000	\$164,552
Waterway Safety, Education & Enforcement	PB-97-52	Palm Beach County Sheriffs	\$52,000	\$61,400
Inshore Artificial Reef	PB-97-53	Palm Beach County	\$50,000	\$107,134
CD & Web Site For Lake Worth Lagoon	PB-97-54	Palm Beach County	\$70,000	\$92,000
Light Harbor Marina Construction (Expired)	PB-98-62	Palm Beach County	\$500,000	\$2,100,000
Habitat Enhancement Along Lake Worth Golf Course	PB-98-63	Palm Beach County	\$15,000	\$30,000
Preconstruction Work Munyon Island Boat Dock (Expired)	PB-98-64	Palm Beach County	\$10,000	\$20,000
Exotic Vegetation Removal & Env. Restoration	PB-99-74	Palm Beach County	\$5,250	\$10,500
Inshore Artificial Reef Project	PB-99-75	Palm Beach County	\$30,000	\$60,000
Peanut Island Development - Phase 3	PB-99-76	Palm Beach County	\$97,500	\$195,000
Boat Club Park Navigation Channel Dredging	PB-BB-00-84	City of Boynton Beach	\$22,500	\$25,000
Boat Club Park Navigation Channel Dredging	PB-BB-02-97	City of Boynton Beach	\$18,000	\$40,000
Boat Club Park Fishing/ Viewing Pier	PB-BB-03-105	City of Boynton Beach	\$22,430	\$44,860
Jaycee Park Environmental Education	PB-BB-09-136	City of Boynton Beach	\$77,045	\$154,090
Boat Club Park Channel Maintenance Dredging	PB-BB-91-14	City of Boynton Beach	\$80,000	\$80,000
Mangrove Nature Preserve	PB-BB-92-24	City of Boynton Beach	\$15,250	\$30,500
Boynton Beach Downtown Mangrove Park	PB-BB-94-36	City of Boynton Beach	\$195,000	\$898,234
Safe Waterways	PB-BB-98-71	City of Boynton Beach	\$51,670	\$90,231
Okeechobee Waterway & Inland Marina Channels	PB-BG-08-129	City of Belle Glade	\$480,500	\$961,000
Okeechobee Waterway & Navigation Channels	PB-BG-09-135	City of Belle Glade	\$328,770	\$657,540

**FLORIDA INLAND NAVIGATION DISTRICT  
WATERWAYS ASSISTANCE PROGRAM PROJECTS IN PALM BEACH COUNTY 1986-2015**

Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Restore Boardwalk, Nav. & Dockage, N. Marina Basin-ph I	PB-BG-12-159	City of Belle Glade	\$29,000	\$58,000
North Marina Basin Dock & Boardwalk - Ph II	PB-BG-14-178	City of Belle Glade	\$434,000	\$1,130,513
Pavilion Lake Ramp & Dredging - Phase I	PB-BG-14-179	City of Belle Glade	\$32,500	\$65,000
Boat Ramp Parking Improvement - Belle Glade Marina	PB-BG-92-22	City of Belle Glade	\$32,500	\$65,000
Boca Raton Inlet Navigation Maintenance Program	PB-BR-00-82	City of Boca Raton	\$100,000	\$200,000
Inflatable Rescue Boat Safety Program	PB-BR-00-83	City of Boca Raton	\$13,762	\$18,350
Spanish River Police Dockage Facility	PB-BR-02-96	City of Boca Raton	\$100,000	\$200,000
Boca Raton Fire Rescue Boat	PB-BR-03-104	City of Boca Raton	\$37,502	\$75,004
Boca Raton Inlet Dredging Equipment	PB-BR-12-160	City of Boca Raton	\$109,050	\$218,100
Hillsboro Canal Maintenance Dredge Project - Phase I	PB-BR-13-176	City of Boca Raton	\$75,000	\$100,000
Lake Wyman Park Development	PB-BR-88-4	City of Boca Raton	\$115,800	\$231,600
Boating Safety	PB-BR-96-48	City of Boca Raton	\$32,000	\$56,573
Inlet Navigation & Sand Transfer Project	PB-BR-97-57	City of Boca Raton	\$42,200	\$404,487
Waterways Boating Safety Programs And Equipment	PB-BR-98-66	City of Boca Raton	\$29,994	\$54,994
Boca Raton Inlet Dredging Equipment	PB-BR-98-67	City of Boca Raton	\$240,000	\$546,000
EI Rio Canal Dredging	PB-BR-99-77	City of Boca Raton	\$23,052	\$92,200
Police Boat	PB-DB-00-85	City of Delray Beach	\$47,229	\$62,974
Land Acquisition - Boat Ramp Parking	PB-DB-00-86	City of Delray Beach	\$70,000	\$140,000
Municipal Marina	PB-DB-00-87	City of Delray Beach	\$81,000	\$402,000
Seawall Parks	PB-DB-02-98	City of Delray Beach	\$20,000	\$40,000
Delray Intracoastal Park ( M.S.A. 650)	PB-DB-06-117	City of Delray Beach	\$688,420	\$1,376,840
Mangrove Park Boat Ramp Reconstruction	PB-DB-10-144	City of Delray Beach	\$85,740	\$175,000
Veterans Park - Phase I	PB-DB-90-9	City of Delray Beach	\$157,500	\$315,032
Seawall Rehabilitation Project	PB-DB-94-35	City of Delray Beach	\$164,950	\$408,900
Knowles Park Boat Ramp	PB-DB-97-58	City of Delray Beach	\$77,261	\$154,522
Delray Beach Marina Improvements	PB-DR-88-3	City of Delray Beach	\$75,000	\$150,000
Environmental Boating Education Program	PB-JB-91-15	Town of Juno Beach	\$19,000	\$19,000
Riverwalk - Phase I I	PB-JU-00-88	Town of Jupiter	\$500,000	\$1,000,000
Water Safety Program	PB-JU-00-89	Town of Jupiter	\$13,445	\$17,926
Jupiter Riverwalk	PB-JU-02-99	Town of Jupiter	\$500,000	\$1,002,589
Bridge Park Plaza	PB-JU-03-106	Town of Jupiter	\$246,250	\$492,500
Make Our Waterways Safe ( Withdrawn)	PB-JU-06-118	Town of Jupiter	\$30,000	\$95,000
Inlet Village Marina	PB-JU-07-123	Town of Jupiter	\$200,000	\$400,000
Riverwalk At Harborside - Phase A	PB-JU-09-137	Town of Jupiter	\$827,505	\$1,655,010
Riverwalk At Harborside - Phase B	PB-JU-10-145	Town of Jupiter	\$700,000	\$1,400,000
Jupiter Riverwalk & Public Docks at Marina (Withdrawn)	PB-JU-12-161	Town of Jupiter	\$780,939	\$1,621,466



**FLORIDA INLAND NAVIGATION DISTRICT**  
**WATERWAYS ASSISTANCE PROGRAM PROJECTS IN PALM BEACH COUNTY 1986-2015**

Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Safe Waterways	PB-JU-96-43	Jupiter Police Department	\$35,598	\$60,858
Jupiter Riverwalk - Phase I	PB-JU-99-81	Town of Jupiter	\$429,025	\$1,255,050
North Lake Park	PB-LA-13-175	Town of Lantana	\$104,000	\$208,000
Bicentennial Park	PB-LA-92-25	Town of Lantana	\$57,000	\$114,000
Sportsman's Park	PB-LA-93-31	Town of Lantana	\$152,875	\$340,750
Lantana Nature Preserve	PB-LA-99-79	Town of Lantana	\$143,750	\$495,000
Lake Park Marina Revitalization - Phase I I I	PB-LP-00-91	Town of Lake Park	\$542,000	\$1,145,000
Lake Park Marina Revitalization - Phase I V	PB-LP-01-93	Town of Lake Park	\$451,000	\$902,000
Lake Shore Park Seawall Replacement	PB-LP-04-109	Town of Lake Park	\$187,500	\$375,000
Lake Shore Park Seawall Replacement	PB-LP-07-124	Town of Lake Park	\$205,000	\$410,000
Lake Park Harbor Marina Breakwater-phase I (Withdrawn)	PB-LP-08-130	Town of Lake Park	\$62,254	\$124,508
Lake Park Harbor Marina Breakwater-ph I I (Withdrawn)	PB-LP-09-138	Town of Lake Park	\$349,292	\$698,585
Lake Park Harbor Marina Breakwater-ph I I (Withdrawn)	PB-LP-13-174	Town of Lake Park	\$249,115	\$498,230
Lake Park Municipal Marina Basin & Maintenance Dredging	PB-LP-94-32	Town of Lake Park	\$67,803	\$123,752
Lake Park Marina Revitalization - Phase I	PB-LP-98-73	Town of Lake Park	\$150,000	\$360,000
Lake Park Marina Revitalization - Phase I I	PB-LP-99-80	Town of Lake Park	\$584,000	\$1,168,000
Bryant Park Seawall Restoration - Phase A	PB-LW-07-125	City of Lake Worth	\$802,007	\$1,604,014
Bryant Park Boat Ramp Imp. & Bulkhead Repairs - Phase I	PB-LW-95-39	City of Lake Worth	\$13,000	\$26,000
Bryant Park Boat Ramp Improvements - Ph I I	PB-LW-96-42	City of Lake Worth	\$180,000	\$360,000
Lakeside Park	PB-NPB-06-119	Village of North Palm Beach	\$150,000	\$300,000
Anchorage Park Improvements	PB-NPB-08-131	Village of North Palm Beach	\$200,000	\$700,000
Lakeside Park	PB-NPB-90-11	Village of North Palm Beach	\$53,000	\$106,000
Shoreline Protection Project - NPB Country Club	PB-NPB-92-21	Village of North Palm Beach	\$24,400	\$48,800
Shoreline Protection Program	PB-NPB-95-41	Village of North Palm Beach	\$370,500	\$741,000
Waterways Patrol And Rescue Vessel	PB-NPB-98-70	Village of North Palm Beach	\$30,411	\$44,078
Marina & Access Channel Dredging	PB-PA-02-100	City of Pahokee	\$250,000	\$500,000
Pahokee Marina/ Channel Dredging	PB-PA-04-112ER	City of Pahokee	\$250,000	\$350,000
Marine Reconstruction	PB-PA-05-113	City of Pahokee	\$500,000	\$2,707,000
Shoreline Stabilization & Marina Dredging	PB-PA-06-120	City of Pahokee	\$425,000	\$975,325
Route 2 Channel Markers (Expired)	PB-PA-11-156	Town of Pahokee	\$20,850	\$30,000
Public Marina Wave Attenuator - Phase I (Expired)	PB-PA-11-157	Town of Pahokee	\$37,500	\$75,000
Pahokee Marina and Park	PB-PA-91-16	City of Pahokee	\$80,000	\$195,000
Pahokee Marina Improvements	PB-PA-96-46	City of Pahokee	\$30,000	\$60,000
Pahokee Marina Improvements	PB-PA-98-65	City of Pahokee	\$98,950	\$197,900
Lake Worth Inlet Sand Transfer Plant Renovation	PB-PB-09-139	Town of Palm Beach	\$300,000	\$2,248,000



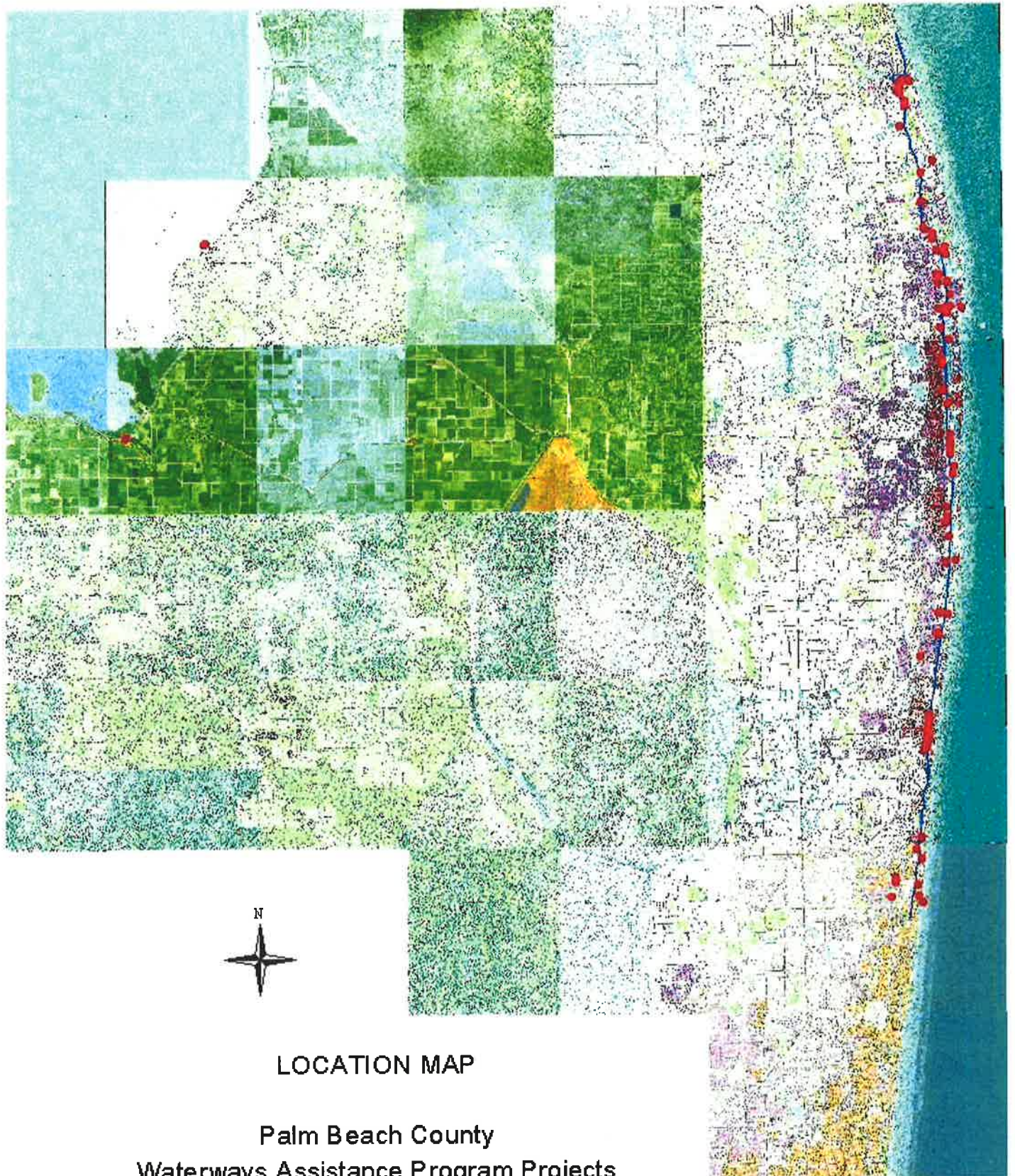
**FLORIDA INLAND NAVIGATION DISTRICT  
WATERWAYS ASSISTANCE PROGRAM PROJECTS IN PALM BEACH COUNTY 1986-2015**

Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Town Of Palm Beach Waterway - Phase I	PB-PB-12-164	Town of Palm Beach	\$40,000	\$80,000
Public Marina Dredging	PB-PB-92-23	Town of Palm Beach	\$200,000	\$250,000
Australian Dock Replacement & Expansion	PB-PB-96-47	Town of Palm Beach	\$21,000	\$105,000
Australian Dock Repl. & Expansion - Phase II	PB-PB-97-56	Town of Palm Beach	\$382,000	\$1,959,482
P.B.S. Inlet Park Redevelopment - Phase I	PB-PBS-02-102	Town of Palm Beach Shores	\$25,000	\$50,000
Inlet Park Construction - Phase II & III	PB-PBS-05-115	Town of Palm Beach Shores	\$150,000	\$300,000
Palm Beach Maritime Museum Environmental Educ. Program	PB-PPB-93-27	Port of Palm Beach	\$60,000	\$60,000
Docks For Environmental Education Project	PB-PPB-97-59	Port of Palm Beach	\$69,521	\$77,246
Municipal Marina Remediation - Phase I	PB-RB-09-141	City of Riviera Beach	\$475,000	\$950,000
Municipal Marina Construction	PB-RB-10-150	City of Riviera Beach	\$850,000	\$4,270,366
Municipal Marina Construction	PB-RB-11-158	City of Riviera Beach	\$1,500,000	\$3,000,000
Bicentennial Park Improvements - Phase I	PB-RB-12-165	City of Riviera Beach	\$50,000	\$100,000
Municipal Marina Construction - Phase B	PB-RB-12-166	City of Riviera Beach	\$1,000,000	\$3,399,000
Municipal Marina Construction - Phase B1	PB-RB-13-177	City of Riviera Beach	\$750,000	\$4,341,396
Riviera Beach Marina Construction - Part B, Phase I	PB-RB-14-185	City of Riviera Beach	\$75,000	\$150,000
Palm Beach Maritime Museum Env. Education (Expired)	PB-RB-91-17	City of Riviera Beach	\$45,000	\$45,000
Palm Beach Seaport Aquarium - Phase I (Cancelled)	PB-RB-96-49	City of Riviera Beach	\$40,000	\$140,000
S.V. Florida, The Ship For Kids (Expired)	PB-RB-96-50	City of Riviera Beach	\$194,700	\$491,600
Riviera Beach Municipal Marina Dredging	PB-RB-98-68	City of Riviera Beach	\$136,200	\$152,000
Bicentennial Park Boardwalk & Fishing Pier (Expired)	PB-RB-99-78	City of Riviera Beach	\$41,945	\$83,890
Boat Ramp Park Expansion - Phase I (Expired)	PB-SB-02-103	City of South Bay	\$76,000	\$152,000
I.C.W. Tributary Channel Improvements - Ph I (Expired)	PB-SB-98-72	City of South Bay	\$15,000	\$27,000
Currie Park Boat Launching & Bulkhead Improvements	PB-WPB-00-92	City of West Palm Beach	\$125,000	\$255,000
West Palm Beach Waterfront Park - Phase I	PB-WPB-04-111	City of West Palm Beach	\$250,000	\$750,000
Waterfront Park - Phase II	PB-WPB-05-116	City of West Palm Beach	\$1,000,000	\$3,500,000
West Palm Beach Waterfront Park - Phase III	PB-WPB-06-122	City of West Palm Beach	\$1,000,000	\$3,000,000
West Palm Beach Waterfront Park - Phase IV	PB-WPB-07-128	City of West Palm Beach	\$1,000,000	\$3,000,000
City Commons & Waterfront Park - Phase V	PB-WPB-08-134	City of West Palm Beach	\$1,000,000	\$2,000,000
City Commons & Waterfront Project - Phase V-2	PB-WPB-09-142	City of West Palm Beach	\$150,000	\$300,000
Currie Park Boating Improvement	PB-WPB-09-143	City of West Palm Beach	\$233,800	\$467,600
City Commons Kayak/ Paddle Boat Launch - Phase I	PB-WPB-10-151	City of West Palm Beach	\$30,000	\$60,000
Currie Park Boat Access Improvement - Phase I	PB-WPB-12-167	City of West Palm Beach	\$25,000	\$50,000
Currie Park Fishing Piers Improvement Project	PB-WPB-12-168	City of West Palm Beach	\$394,000	\$788,000
Currie Park Improvements - Phase I	PB-WPB-89-6	City of West Palm Beach	\$91,750	\$400,000
Currie Park - Phase I	PB-WPB-90-10	City of West Palm Beach	\$100,000	\$230,000
Renovation Of Fishing Pier @ 54th Street Park	PB-WPB-93-30	City of West Palm Beach	\$36,475	\$72,950

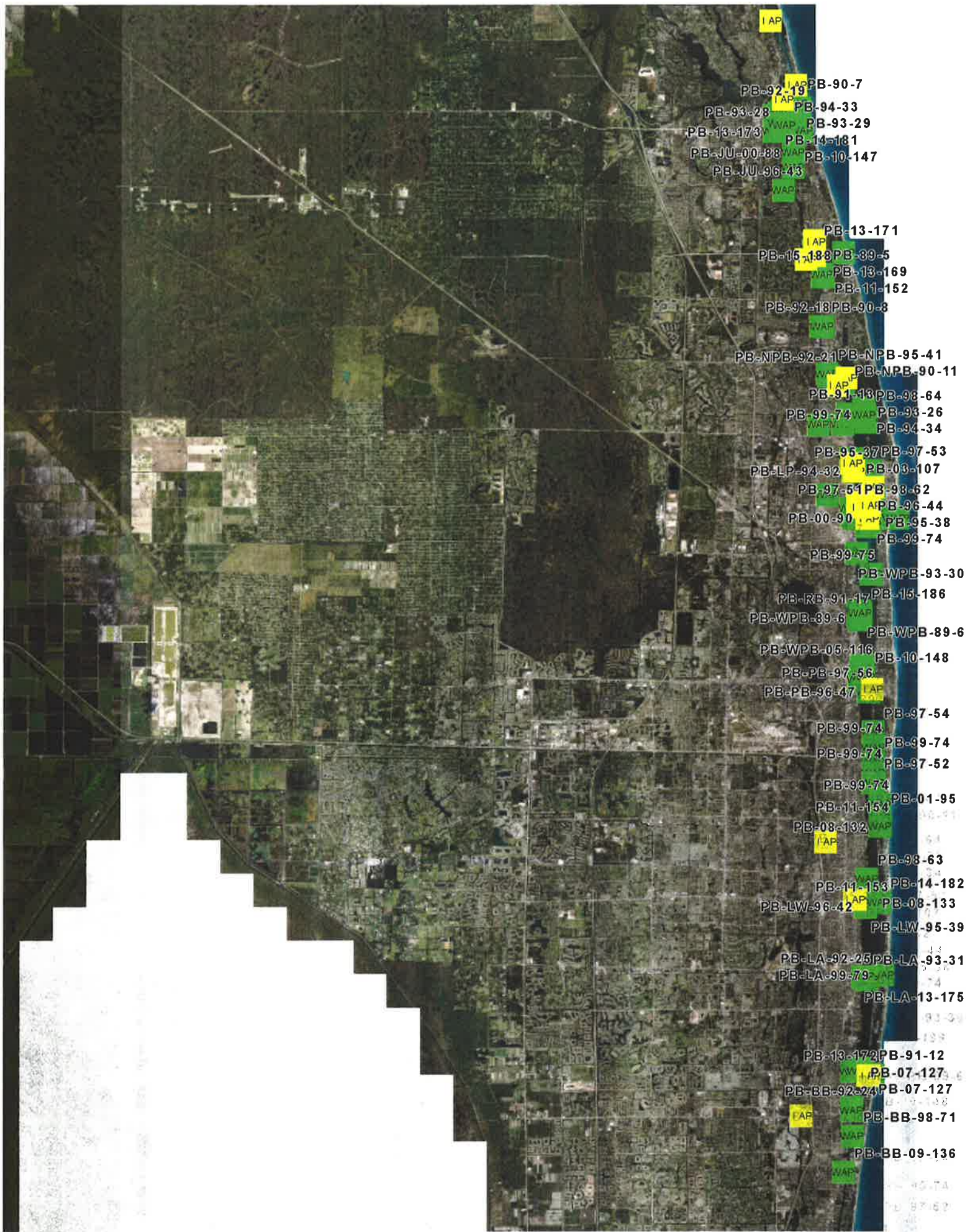
**FLORIDA INLAND NAVIGATION DISTRICT  
WATERWAYS ASSISTANCE PROGRAM PROJECTS IN PALM BEACH COUNTY 1986-2015**

<b>Project Name</b>	<b>Project Number</b>	<b>Project Sponsor</b>	<b>Grant Amount</b>	<b>Total Cost</b>
Downtown Waterfront Park ( Project Expired)	PB-WPB-95-40	City of West Palm Beach	\$37,500	\$75,000
Docks For Environmental Education Project	PB-WPB-97-61	City of West Palm Beach	\$135,882	\$150,980
P. B. Maritime Museum Dock Extension & Building	PB-WPB-98-69	City of West Palm Beach	\$137,550	\$183,400
West Palm Beach Living Shorelines	PB-15-186	Palm Beach	\$391,175	\$782,350.00
Hillsboro Canal Dredging Ph II	PB-BR-15-187	City of Boca Raton	\$412,500	\$550,000.00
Bert Winters Park Phase IIA	PB-15-188	Palm Beach County	\$1,000,000	\$2,000,000.00
Burt Reynolds Park - Westside Phase IIB	PB-15-189	Palm Beach County	\$200,000	\$400,000.00
<b>Totals</b>			<b>\$47,293,678</b>	<b>\$139,631,504</b>









**REQUEST FOR PROPOSAL**  
**FLORIDA INLAND NAVIGATION DISTRICT**  
**GEOGRAPHICAL INFORMATION SYSTEM (GIS) DATA CONVERSION**  
**AND UPDATE FOR THE INTRACOASTAL WATERWAY (IWW)**  
**AND OKEECHOBEE WATERWAY IN PALM BEACH COUNTY, FL.**

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**I. BACKGROUND**

The Florida Inland Navigation District (District) is the state sponsor of the Atlantic Intracoastal Waterway (IWW) in Florida. The District boundaries includes the twelve (12) east coast counties of Florida. The District is also responsible for 62 miles of the Okeechobee Waterway (OWW) in Martin and Palm Beach Counties. As the state sponsor of the Waterways, the District has the responsibility of providing all lands required for their construction, operation and maintenance. At this time, the District's property inventory includes approximately 1,000 parcels of land containing approximately 60,000 acres.

The District also operates two other programs: the Waterways Assistance Program through which the District has participated with local governments within the 12 member counties to develop over 1,000 waterway improvement projects; and the Cooperative Assistance Program, through which the District has participated with State and Regional governments to develop approximately 72 waterway improvement projects.

**II. PROJECT AREA**

The District has decided to initiate this project update for Palm Beach County. Future work could lead to updates to this project in all twelve (12) counties of the District. The intimal project will include the IWW and the OWW in Palm Beach County. Future efforts may include the entire 406 miles of waterway channel from Nassau County to Miami-Dade County (both inclusive), as well as 62 miles of the Okeechobee Waterway in Martin and Palm Beach Counties (entire Project Area).

**III. PROPOSAL LIMITATION**

Proposals submitted in response to this request shall cover the conversion of the District's current GIS coverages from NAD 27 State Plane East to NAD 83 State Plane East for the IWW and OWW in Palm Beach County, and the update of District properties and interest in Palm Beach County. Additional phases of this project may be negotiated with the project contractor in the future, or awarded after a new advertisement and evaluation of proposals is made similar to that described herein. This determination of

alternatives will be made by the District after this contract has been completed. All proposals and contracts generated from this request are subject to the provisions of Chapter 287 Florida Statutes.

#### **IV. SCOPE OF WORK**

See Attachment A.

#### **V. DELIVERABLES**

See Attachment B.

#### **VI. GENERAL INSTRUCTIONS FOR THE PREPARATION AND SUBMISSION OF PROPOSALS**

##### **VI. 1. Issuing Office:**

Florida Inland Navigation District  
1314 Marcinski Road  
Jupiter, FL 33477  
Telephone (561)627-3386  
FAX (561)624-6480  
Project Manager: Brenda Sullivan, Information Manager

##### **VI. 2. Time, Date, and Place Proposals are Due:**

Proposals must be received **NO LATER THAN 2:00 P.M.** local prevailing time on **October 2, 2015.**

Proposals should be addressed or delivered to the issuing office.

**CAUTION:** A proposal received after the time specified for receipt will not be considered, as specified by the provisions of the State Procurement Regulations describing treatment of late proposals, modifications of proposals, and withdrawals of proposals.

##### **VI. 3 Description of Work Being Procured:**

Work to be performed in this project is described in Attachment A and B of this package.

**VI. 4. Type of Contract Contemplated:**

A cost-plus-fixed fee contract with a ceiling price is contemplated for this project; however, the District reserves the right to award another type of contract if such will be more advantageous to the District. The contract agreement will comply with all procurement regulations of the State of Florida. The District will not provide copies of State procurement regulations with the solicitations. Proposers are cautioned that references are made to State procurement regulations and it is the responsibility of the proposers to be familiar with these regulations and their application to this solicitation.

**VI. 5. Number of Awards:**

One award for the Project work will result from this solicitation.

**VI. 6. Contract Acceptance Period:**

The District expects to award a contract approximately sixty (60) days after receipt of proposals.

**VI. 7. Disclosures:**

Information will be disclosed to proposers in accordance with regulations applicable to this solicitation after evaluations are complete.

Written notice will be given to unsuccessful proposers.

**VI. 8. Solicitation Schedule Information:**

The District intends to announce the contract award on or about November 14, 2015 and initiate the contract work on or about December 1, 2015. It is estimated that work products will be delivered and the contracts completed on or before April 15, 2015.

**VI. 9. Costs:**

The District is not liable for any costs incurred by the proposer in responding to this RFP.



## **VII. SPECIFIC INSTRUCTIONS FOR THE PREPARATION OF PROPOSALS:**

The instructions for preparation of this proposal have been prepared in order to minimize costs and response time, and to help ensure that all proposals are reviewed and evaluated in a consistent manner.

**ANY AND ALL INFORMATION SUBMITTED BY A PROPOSER IN VARIANCE WITH THESE INSTRUCTIONS WILL NOT BE REVIEWED OR EVALUATED.**

The proposal shall consist of the following two parts:

### **PART I: TRANSMITTAL LETTER (limit 1 page)**

This is to serve only as the document covering transmittal of the proposal package. The letter should provide the name, title, address, and telephone number of the proposer's official contact and alternate. These individuals shall have the authority to bind the proposer and shall be available to be contacted by telephone or attend meetings as may be appropriate on or about the dates stipulated in Item VI. 8.

### **PART II. TECHNICAL PROPOSAL (limit 25 pages)**

A page shall consist of one type-written side of standard size 8 1/2 x 11 inch stationery.

**The Technical Proposal shall contain the following six sections:**

#### **(1) Introduction**

The content of this section shall be at the discretion of the proposer.

#### **(2) Technical Understanding**

The proposer shall describe in precise terms his technical understanding of the scope of the contract services outlined in Attachments A and B with emphasis on those tasks deemed important by the proposer.

#### **(3) Technical Approach**

The proposer shall describe clearly the technical approach which will be used to accomplish the scope of work for this project.



The proposer shall identify any problems that are anticipated in completing the work outlined in Attachments A and B of this RFP. A plan to be used in solving these problems shall be provided.

The proposer shall outline the technical approach to the preparation of all reports.

**(4) Project Organization and Management**

The proposer shall describe the project organization and management methods to be used to perform the contract services. The management methods shall address monitoring and control of costs. The services of subcontractors shall be described in detail.

**(5) Personnel Assigned and Level of Effort**

Personnel assigned to the project, including the name(s) and key personnel of all subcontractors shall be identified and their qualifications provided. Specific project positions shall coincide with paragraph (4) above. Specific information shall be provided concerning the expertise and experience of the key personnel in the area of geographic system development, training and support. The project requires a dedicated GIS individual with at least ten (10) years experience and not a student or apprentice. Familiarity with coastal work is preferred.

The availability and permanent work station of assigned personnel shall be stated. For each individual assigned to the project, his estimated level of effort for this project and his current workload shall be provided, both in man-hours per year and as a percentage of his total workload. Secretarial personnel shall be included when such services are a direct cost item.

**(6) Past Performance Record**

The proposer will list a minimum of three references for which the proposer has performed a geographic information system development project for in the last three years. Specific contact names and telephone numbers shall be provided for all references listed.

**(7) Schedule**

Compliance with the schedule provided in paragraph VI. 8. is of prime importance. The proposer shall state compliance with this schedule, or identify any variance along with a plan for resolving the variance. The proposer shall provide a schedule of work activities to meet the required close-out date.

**VIII. NUMBER OF PROPOSAL COPIES TO BE SUBMITTED.**

Three (3) signed copies each of the Transmittal Letter and Technical Proposal are to be submitted as directed under paragraph VI.2. Each copy of the Technical Proposal is to be packaged individually.

**IX. PROPOSAL EVALUATION**

a. The factors to be used in conducting evaluations of each proposal are indicated in Attachment C.

b. At the discretion of the District the top rated proposers may be invited to make an oral presentation prior to a final decision on the award of a contract.

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## ATTACHMENT A

### SCOPE OF WORK

#### FLORIDA INLAND NAVIGATION DISTRICT

#### GEOGRAPHICAL INFORMATION SYSTEM DATA CONVERSION FOR THE ATLANTIC INTRACOASTAL WATERWAY NASSAU COUNTY TO MIAMI-DADE COUNTY (BOTH INCLUSIVE) AND OKEECHOBEE WATERWAY (MARTIN COUNTY ONLY)

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The Florida Inland Navigation District (District) is seeking consulting services in the update and conversion of our Geographic Information System (GIS) project for the Intracoastal Waterway (IWW) in Palm Beach County, Florida. This project will serve as the prototype for a GIS capable of supporting the District's spatial data management needs for the foreseeable future. The services required for the project will include the following tasks:

- Review of user current needs
- Conversion of all shape files from NAD 27 State Plane East to NAD 83 State Plane East
- Update miscellaneous parcel, easement, and utility shape files
- Verify dredging reaches, channel miles and dredging cuts
- Update (60) Waterways Assistance Program project locations (point only)
- Update (4) Cooperative Assistance Program project locations (point only)
- Update (8) Interlocal Agreement Program project locations (point only)
- Incorporate 2014 IWW Hydrographic Survey Data
- Update Data Dictionary
- Instruction to staff on GIS update and use of developed applications

#### **Task 1 - Review of User Needs**

The contractor shall familiarize themselves with the District's current GIS hardware and software systems, and should visit the office to meet with District staff to review the District's current GIS system and assess the District's status and capabilities. This review will assist the contractor to more completely understand the District's operations and programs, including existing computer hardware and software and future needs. The information gathered in this visit will allow the contractor to develop, in a cost effective manner, hardware recommendations and a project capable of meeting the District's needs.

#### **Task 2 - Conversion and Update of Shape Files**

Task 2 will include the conversion and update to the District's GIS system using ARC/GIS Version 10 or above. The task includes converting all the shape files from NAD 27 State Plane East to NAD 83 State Plane East, updating shape files and attributes, and update the District's GIS Data Dictionary.

Information gathered in Task 1 will be used to update the District's GIS program to accommodate the program needs of the District. The update and conversion by the contractor must be achievable through existing, cost effective technology.

The project data base for Palm Beach County will include the following:

A seamless base map constructed of available aerial photography 2014 or later at 1:800 minimum resolution and of the Atlantic Intracoastal Waterway (IWW).

### **Task 3 - GIS Hardware and Software Recommendations**

Based on information collected in Task 1 - Review of User Needs, and Task 2 - Data Base Design, the contractor will recommend a hardware and software system (or updates) capable of supporting the District's anticipated GIS needs. It is anticipated that ARC/INFO will serve as the core GIS software for the District. The contractor will review the existing hardware in use at the District and recommend any additional hardware or software necessary to support the installation of the updated GIS data. The District's goal is to own a system that provides District users access to current functions and the new GIS data and applications while incorporating the existing hardware to the extent possible.

### **Task 4 - Scanning of Hard Copy Drawings or other Pertinent Data**

This will include engineering and design drawings and other specified data that are in hard copy form. These data will be converted to ARC Imagery format and linked to the appropriate site or area.

### **Task 5 - GIS Update Review & of Developed Application**

Task 5 includes an on-site overview of the final product.

### **Deliverables/Services**

The deliverables/services for this project are shown in Attachment B.

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**ATTACHMENT B**  
**PROJECT DELIVERABLES**  
**FLORIDA INLAND NAVIGATION DISTRICT**  
**GEOGRAPHICAL INFORMATION SYSTEM (GIS) DATA CONVERSION**  
**FOR THE INTRACOASTAL WATERWAY (IWW)**  
**AND OKEECHOBEE WATERWAY,**  
**PALM BEACH COUNTY, FL**

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**Task 1 - Review of User Needs**

Task 1 will include a brief on-site visit by contractor's senior GIS application developer to evaluate existing computer hardware and software and the District's future GIS needs. The results of this evaluation will be provided to the District in a summary letter report. These results will be discussed with the District's project manager.

**Task 2 - Conversion and Update of Shape Files**

Task 2 will include the conversion and update to the District's GIS system using ARC/GIS Version 10 or above. The task includes converting all existing shape files from NAD 27 State Plane East to NAD 83 State Plane East, updating shape files and attributes, defining attribute files for efficient processing, and an update of the District's GIS Data Dictionary.

**Task 3 - GIS Hardware and Software Recommendations**

Based on the information obtained in Task 1 - Review of User Needs, and Task 2 - Data Base Design, a letter report will be prepared by the contractor providing system requirements and/or updates. These requirements will include software, hardware and overall functional requirements. A configuration diagram will be included which will illustrate the recommended system.

**Task 4 - Scanning of Hard Copy Drawings or other Pertinent Data**

Task 4 will include engineering and design drawings and other specified data that are in hard copy form. This data will be converted to ARC Imagery format and linked to the appropriate site or area.

**Task 5 - GIS Update Review and Use of Developed Application**

Task 5 includes an on-site overview of the final product.



August 29, 2016

Mr. Mark Crosley  
Executive Director  
Florida Inland Navigation District  
1314 Marcinski Rd.  
Jupiter, FL 33477

RE: Geographic Information System (GIS) Data Conversion for the Intracoastal Waterway in Nassau, Duval, St. Johns and Flagler Counties

Mr. Crosley:

Per your request, please find enclosed a scope of services and cost proposal for the GIS Data Conversion Project for the Intracoastal Waterway in Nassau, Duval, St. Johns and Flagler Counties. The four primary tasks include (1) District-wide GIS dataset updates, (2) County specific GIS dataset updates, (3) Application/Web development and (4) GIS training and District coordination.

Taylor Engineering will perform these services within approximately six months for \$96,052.76.

If you have any questions concerning this proposal, please contact Patrick Lawson, GISP, CFM at [plawson@taylorengineering.com](mailto:plawson@taylorengineering.com) or me at [mdelcharco@taylorengineering.com](mailto:mdelcharco@taylorengineering.com).

Sincerely,

Michael DelCharco, P.E.  
Vice-President

Attachments (2)

# **GEOGRAPHIC INFORMATION SYSTEM (GIS) DATA CONVERSION FOR THE INTRACOASTAL WATERWAY (ICWW) IN NASSAU, DUVAL, ST. JOHNS AND FLAGLER COUNTIES**

## **SCOPE OF SERVICES**

### **INTRODUCTION**

The Florida Inland Navigation District (District) is currently updating geographic information system (GIS) databases on a county-by-county basis. This scope of services describes the tasks needed to provide GIS data updates for Nassau, Duval, St. Johns and Flagler Counties. This scope is a follow up to the pilot project "Geographic Information System (GIS) Data Conversion for the Intracoastal Waterway and Okeechobee Waterway in Palm Beach County."

Note that references to "existing" data refer to data that were created for the Palm Beach County GIS conversion pilot project. New data will be added to these existing datasets. Once data for all of the counties within the District's boundaries have been assembled, continuous/District-wide datasets will be available.

### **TASK 1 DISTRICT-WIDE GIS DATASET UPDATES**

Taylor Engineering will provide the following datasets in District-wide format for this project: Aids to Navigation, ICWW channel centerline and seagrass delineations. Future county specific GIS projects will incur cost savings with the delivery of these datasets in District-wide format. This effort includes clipping the aforementioned datasets to District boundaries and adding the datasets to the existing Palm Beach County datasets.

### **TASK 2 COUNTY SPECIFIC GIS DATASET UPDATES**

Taylor Engineering will create or update the following datasets within the boundaries of Nassau, Duval, St. Johns and Flagler Counties only.

#### **2.1 2014 survey data**

Taylor Engineering will convert Morgan & Eklund's 2014 bathymetric survey data to GIS data. This includes converting these data from x, y, z data sheets to point feature classes. Taylor Engineering will convert these point feature classes into bathymetric terrain datasets for future District analysis.

#### **2.2 Scan hardcopy drawings and other pertinent documents; create hyperlinks of scanned documents**

Many, if not all, of the District's documents pertaining to their assistance programs, DMMA's and easements are in hardcopy format and are not geospatially linked to their physical locations. Taylor Engineering will use a Xerox Color C70 600 dpi printer/scanner to scan all documents up to 11 x 17 inches. Larger documents are scanned using an Epson SureColor T7270D plotter/scanner. Hyperlinking these scanned documents to their associated assistance program point feature, District-owned easement, use-agreement, or utility polygon feature will allow expedited access to District documentation.



## GEOGRAPHIC INFORMATION SYSTEM (GIS) DATA CONVERSION FOR THE INTRACOASTAL WATERWAY (ICWW) IN NASSAU, DUVAL, ST. JOHNS AND FLAGLER COUNTIES

### SCOPE OF SERVICES

#### **2.3 Update District-owned, easement, use-agreement and utility parcels**

Taylor Engineering will use the legal descriptions — if provided by the District — or spatial property appraiser data to update the miscellaneous District-owned, easement, use agreement, and/or utility parcels that the District manages. Dredge Material Management Area (DMMA) attribute data within the District-owned dataset will include updated attribute data from Taylor Engineering's county specific Dredge Material Management Plans (DMMP). These parcel polygon features provide quick access to property locations and documents associated with each location.

#### **2.4 Update Waterways Assistance Program (WAP) project locations (points only), Cooperative Assistance Program (CAP) project locations (points only) and Interlocal Agreement Program (IAP) project locations (points only)**

Taylor Engineering will update the existing point feature classes for each assistance program with data for the four counties that are assigned to this scope. Updates consist of creating new project location points for assistance programs that were established after 2008 and importing historic project location point data (pre-2008) from the District's archived GIS data. These points provide quick access to project locations and documents associated with each project. The previously created "FIND GIS Toolbar" links project point locations to the District's Access databases.

#### **2.5 Update channel specific data**

Taylor Engineering will update the existing reach polygon feature class and station point feature class with data from Taylor Engineering's DMMP.

#### **2.6 Update DMMA specific data**

Taylor Engineering will update DMMA specific data with data provided from the District's archived datasets. Updates will occur on the following existing data: dikes, fences, gates, weirs and wells.

#### **2.7 Other miscellaneous data**

Taylor Engineering will update existing data for reefs, seagrass mitigation sites, and District managed signs. We will use data from state, local, and District sources to update to reef data. We will use our (Taylor Engineering's) seagrass mitigation plan projects to update seagrass mitigation data. Sign data is updated with data from the District's archived data and other input from the District.





## GEOGRAPHIC INFORMATION SYSTEM (GIS) DATA CONVERSION FOR THE INTRACOASTAL WATERWAY (ICWW) IN NASSAU, DUVAL, ST. JOHNS AND FLAGLER COUNTIES

### SCOPE OF SERVICES

#### 2.8 Aerial base map data

Taylor Engineering will download the best available aerial photography for each county and will create raster catalogs from the aerial photography. We will store them in the District's existing base map database.

### TASK 3 APPLICATION/WEB DEVELOPMENT

Taylor Engineering will complete application and web development tasks to create efficiency and ease of use of the District's data. Development tasks will include custom development tools within ArcMap and website development to effectively share the District's data with the public.

#### 3.1 Well Attribution tool

Taylor Engineering will create a custom tool to include in the existing "FIND GIS" toolbar in ArcMap called "Well Attribution". The Well Attribution tool will include a custom form to provide an easy method for District staff to add well information and link relevant documents and images to each well. The well information will reside in the District's geodatabase.

#### 3.2 Map Portal setup and installation

Taylor Engineering will setup and install a map portal residing on the existing (or new) FIND website. The map portal will provide a gateway for the public to view the District's spatial data. Users will be able to browse the data in a map, identify attributes, view metadata, and download shapefile or KML versions of the data. These functions may be restricted depending on the data according to the District's specifications.

#### 3.3 Map Portal customization

Upon the successful setup of the District's map portal, District staff will provide feedback to Taylor Engineering on the layout, theme, functionality, and data contained in the portal. Taylor Engineering will spend up to five days to incorporate changes and customize the portal to the District's approval.

### TASK 4 GIS TRAINING AND DISTRICT COORDINATION

Taylor Engineering will make four office visits to the District for this project. These office visits will provide opportunities for project coordination and training as needed.



## GEOGRAPHIC INFORMATION SYSTEM (GIS) DATA CONVERSION FOR THE INTRACOASTAL WATERWAY (ICWW) IN NASSAU, DUVAL, ST. JOHNS AND FLAGLER COUNTIES

### SCOPE OF SERVICES

On-site project coordination will include discussions about the District's future web mapping applications and methods to provide links between GIS data and other District data (including scanned data and other tabular data). Additional training will include training for the District's Trimble GPS unit and the use of additional tools provided for this project.

### SCHEDULE

We anticipate the following six-month schedule for this project.

No.	Task	Total Days
1	District-wide datasets	1
2	County specific datasets	N/A
2.1	Survey 2014 data	8
2.2	Scan hardcopy drawings and other pertinent documents	20
2.3	Update District-owned, easement, use-agreement and utility parcels	60
2.4	Update WAP, CAP and IAP project locations	40
2.5	Update channel specific data	3
2.6	Update DMMA specific data	3
2.7	Update other miscellaneous data	2
2.8	Aerial base map data	2
3	Application/Web development	N/A
3.1	Well Attribution tool	3
3.2	Map Portal setup and administration	3
3.3	Map Portal customization	5
4	GIS training and District coordination	4

**TAYLOR ENGINEERING, INC.**  
**COST SUMMARY BY TASK**  
**P2016-165: FIND GIS - Nassau, Duval, StJohns and Flagler**

<b>TASK 1: District-wide GIS datasets</b>				
	<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst		6	\$ 678.00	
Total Man-Hours		6		
Labor Cost			\$	678.00
<i>Total Task 1</i>			\$	678.00

**TASK 2: County specific GIS datasets**

<b>TASK 2.1: 2014 Survey Data</b>				
	<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst		64	\$ 7,232.00	
Total Man-Hours		64		
Labor Cost			\$	7,232.00
<i>Total Task 2.1</i>			\$	7,232.00

<b>TASK 2.2: Scan hardcopy data; create hyperlinks</b>				
	<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst		100	\$ 11,300.00	
Total Man-Hours		100		
Labor Cost			\$	11,300.00
<i>Total Task 2.2</i>			\$	11,300.00

<b>TASK 2.3: Update district owned, easement, use-agreement and utility parcels</b>				
	<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst		238	\$ 26,894.00	
Total Man-Hours		238		
Labor Cost			\$	26,894.00
<i>Total Task 2.3</i>			\$	26,894.00



**TASK 2.4: Update WAP, CAP and IAP data**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst	200	\$ 22,600.00	
Total Man-Hours	200		
Labor Cost			\$ 22,600.00
<i>Total Task 2.4</i>			\$ 22,600.00

**TASK 2.5: Update channel specific data**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst	20	\$ 2,260.00	
Total Man-Hours	20		
Labor Cost			\$ 2,260.00
<i>Total Task 2.5</i>			\$ 2,260.00

**TASK 2.6: Update DMMA specific data**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst	20	\$ 2,260.00	
Total Man-Hours	20		
Labor Cost			\$ 2,260.00
<i>Total Task 2.6</i>			\$ 2,260.00

**TASK 2.7: Update other miscellaneous data**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst	16	\$ 1,808.00	
Total Man-Hours	16		
Labor Cost			\$ 1,808.00
<i>Total Task 2.7</i>			\$ 1,808.00

**TASK 2.8: Aerial basemap**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst	16	\$ 1,808.00	
Total Man-Hours	16		
Labor Cost		\$	1,808.00
<i>Total Task 2.8</i>			1,808.00

**TASK 3: Application/Web development****TASK 3.1: Well attribution tool**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Programmer	24	\$ 2,712.00	
Total Man-Hours	24		
Labor Cost		\$	2,712.00
<i>Total Task 3.1</i>		\$	2,712.00

**TASK 3.2: Map Portal setup and administration**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Programmer	24	\$ 2,712.00	
Total Man-Hours	24		
Labor Cost		\$	2,712.00
<i>Total Task 3.2</i>		\$	2,712.00

**TASK 3.3: Map Portal customization**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Programmer	40	\$ 4,520.00	
Total Man-Hours	40		
Labor Cost		\$	4,520.00
<i>Total Task 3.3</i>		\$	4,520.00

**TASK 4: GIS Training and District Coordination**

<i>Labor</i>	Hours	Cost	Task Totals
Senior GIS Analyst	32	\$ 3,616.00	
Senior GIS Programmer	32	\$ 3,616.00	
Total Man-Hours	64		
Labor Cost			\$ 7,232.00
<i>Non-Labor</i>	Units	Cost	
Meeting car mileage	2,140.00	\$ 1,155.00	
Meeting per-diem	4	\$ 256.00	
Meeting lodging	4	\$ 440.00	
Non-Labor Cost		\$ 1,851.00	
Fee @ 10%		\$ 185.00	
<i>Total Task 4</i>			\$ 9,268.00
<b>Project Total</b>			<b>\$96,052.00</b>



**FLORIDA INLAND NAVIGATION DISTRICT**

**REQUEST FOR QUALIFICATIONS FOR AN UPDATE OF THE  
ECONOMIC ANALYSIS OF THE DISTRICT WATERWAYS**

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**I. BACKGROUND**

The Florida Inland Navigation District (District) is the state sponsor for the following federal navigation projects in Florida: the Atlantic Intracoastal Waterway (AIWW); the Intracoastal Waterway (IWW); and a 15-mile portion of the Okeechobee Waterway (OWW) in Martin and Palm Beach Counties (herein after collectively referred to as the "Waterways"). The District's boundaries include twelve east coast counties of Florida (Nassau County through Miami-Dade County). As the state sponsor of the Waterways, the District has the responsibility of providing all lands required for the construction, operation and maintenance of the Waterways. The Federal sponsor of the Waterways is the U.S. Army Corps of Engineers (USACE), coordinated through the Jacksonville District office. The Federal sponsor is responsible for all construction and dredging activities related to the waterways.

The District has completed a Long-Range Dredged Material Management Plan (DMMP) for the Waterways which provides a permanent infrastructure of lands for the perpetual management of the Waterways. The District also operates three other main programs. These programs include the Waterways Assistance Program (WAP), through which the District has participated with local governments within the 12-member counties to cost-share and develop over 1,100 Waterways improvement projects such as: public boat ramps; public marinas; waterfront parks; navigation channel development and maintenance; boating safety; environmental education; inlet management; and beach nourishment. The District also administers the Cooperative Assistance Program (CAP) through which the District has participated with federal, State and Regional governments to cost-share and develop approximately 80 Waterways improvement projects. Through the Public Information Program, the District provides free information to the public concerning the Waterways.

With the administration of these programs, the District has identified a need to invest over \$500 million in the continued development, maintenance, operation and management of the Waterways during the next 50 years. Since 1927, the federal and local sponsors have invested approximately \$950 million in the Waterways.

In 2001, the District initiated and contracted for a District-wide study of the economic value and impact of the Waterways within the 12-member counties. This study was updated in 2008, and there is again a need to thoroughly update this study at this time. It has been estimated that the Waterways are currently generating approximately \$10 billion in annual economy within the District and over 20,000+ jobs. These figures need to be accurately quantified and updated to support the future public investment in the Waterways.

The District seeks to employ a qualified professional firm capable of performing an analysis of the economic contribution of the Waterways, including a complete update of the most recent economic studies. The project will be a multi-year effort that will result in an economic

report (with separate summary) for each of the District's twelve (12) counties, and a compilation report for the entire District at the end of the project (for a total of 13 distinct work products). An economic report for each county will include, at minimum, the information listed in Attachment A, and the deliverables listed in Attachment B, with adherence to the proposed schedule (Attachment D). It is anticipated that the economic analysis of the waterways in Palm Beach County will be initiated first. The project should build upon the success of the existing economic analysis effort, as well as propose any new analysis or data that would be beneficial to the desired report. The draft report for each County will be reviewed and approved prior to proceeding with the analyses for the other District counties. It is anticipated that the other counties will be initiated through work orders and up to two or three counties may be analyzed at any one time. The fee and exact scope of work for each county will be negotiated separately.

## **II. PROJECT AREA**

The Project Area is the District boundaries, Nassau through Miami-Dade Counties, Florida. The project will be addressed on a county basis.

## **III. REQUEST FOR QUALIFICATIONS (RFQ) LIMITATION**

All responses and agreements generated from this request are subject to the provisions of Chapter 287, Florida Statutes.

## **IV. SCOPE OF WORK**

Please see Attachment A.

## **V. DELIVERABLES**

Please see Attachment B.

## **VI. GENERAL INSTRUCTIONS FOR THE PREPARATION AND SUBMISSION OF THE RFQ**

### **VI. 1. Issuing Office:**

Florida Inland Navigation District  
1314 Marcinski Road  
Jupiter, FL 33477  
Telephone (561) 627-3386  
FAX (561) 624-6480  
Project Manager: Mark Crosley, Executive Director

### **VI. 2. Time, Date, and Place RFQs are Due:**

RFQs must be received **NO LATER THAN 4:30 P.M.** local prevailing time on August 18, 2016.

RFQs should be addressed or delivered to the issuing office.

**CAUTION:** A RFQ received after the time specified for receipt will not be considered.

**VI. 3. Description of Work Being Procured:**

Work to be performed in this project is described in Attachments A and B of this package.

**VI. 4. Type of Agreement Contemplated:**

The District anticipates a multi-year agreement with a fixed fee for each of thirteen work orders. There will be a work order for each county and a work order for the compilation report.

**VI. 5. Number of Awards:**

One award for the work will result from this solicitation. The District retains the right to reject all responses to this RFQ and not issue an award from this solicitation.

**VI. 6. Agreement Acceptance Period:**

The District expects to select a firm and approve an agreement within approximately sixty days after receipt of response to the RFQ.

**VI. 7. Disclosures:**

Information will be disclosed to proposers in accordance with regulations applicable to this solicitation after evaluations are complete.

Written notice will be given to unsuccessful proposers.

**VI. 8. Solicitation Schedule Information:**

The District intends to announce the selection of a firm on or about September 09, 2016 and initiate the project on or about September 26, 2016.

**VI. 9. Costs:**

The District is not liable for any costs incurred by the proposer in responding to this RFQ.

**VI. 10. Additional Requirements:**

The selected firm shall be required to complete a sworn statement under Section 287.133 (3) (a), Florida Statutes, on Public Entity Crimes and will also be required to provide professional liability insurance covering all actions, omissions and errors in a minimum amount of \$1 million.



## **VII. SPECIFIC INSTRUCTIONS FOR THE PREPARATION OF RFQ RESPONSES:**

The instructions for preparation of this RFQ been prepared in order to minimize costs and response time, and to help ensure that all RFQs are reviewed and evaluated in a consistent manner.

**ANY AND ALL INFORMATION SUBMITTED BY A PROPOSER IN VARIANCE WITH THESE INSTRUCTIONS WILL NOT BE REVIEWED OR EVALUATED.**

Failure to follow the instructions for preparation of your RFQ response may lead to dismissal of the entire response from further evaluation.

The RFQ response shall consist of the following two parts:

### **PART I: TRANSMITTAL LETTER (limit 1 page)**

This is to serve only as the document covering transmittal of the RFQ package. The letter should provide the name, title, address, and telephone number of the proposer's official contact and alternate. These individuals shall have the authority to bind the proposer and shall be available to be contacted by telephone or attend meetings as may be appropriate on or about the dates stipulated in Item VI. 8.

### **PART II. TECHNICAL RESPONSE (limit 25 pages)**

A page shall consist of one type-written side of standard size 8-½ x 11 inch stationary.

**The Technical Response shall contain the following six sections:**

#### **(1) Introduction**

The content of this section shall be at the discretion of the proposer.

#### **(2) Technical Understanding**

The proposer shall describe in precise terms his technical understanding of the scope of the agreement services outlined in Attachments A and B with emphasis on those tasks deemed important by the proposer.

#### **(3) Technical Approach**

The proposer shall describe clearly the technical approach which will be used to accomplish the scope of work for this project. The proposer shall identify any problems that are anticipated in completing the work outlined in Attachments A and B of this RFQ. A plan to be used in solving these problems shall be provided. The proposer shall outline the technical approach to the preparation of all reports.

#### **(4) Project Organization and Management**

The proposer shall describe the project organization and management methods to be used to perform the project services. The management methods shall address monitoring and control of costs. The services of subcontractors (if any) shall be described in detail.

**(4) Firm Accessibility and Knowledge**

The proposer shall describe the firm's local project knowledge and accessibility. Preference shall be considered for firms (both prime and sub-contractors, if any) operating from a Florida-based office.

**(6) Personnel Assigned and Level of Effort**

Personnel assigned to the project, including the name(s) and key personnel of all subcontractors (if any) shall be identified and their qualifications provided. Specific project positions shall coincide with paragraph (4) above. Specific information shall be provided concerning the expertise and experience of the key personnel in the area of large scale public and/or waterway economic analysis.

The availability of assigned personnel shall be stated. For each individual assigned to the project, their estimated level of effort for this project and their current workload shall be provided, both in person-hours per year and as a percentage of their total workload.

**(7) Past Performance Record**

The proposer will list a minimum of three references for which the proposer has performed a large scale public economic analysis for in the last three years. Specific contact names and telephone numbers shall be provided for all references listed. Contractors without applicable past performance need not apply.

**(8) Schedule**

Compliance with the schedule provided in Attachment D is of prime importance. The proposer shall state compliance with the schedule, or identify any variance along with a place for resolving the variance. The proposer shall provide a schedule of work activities that meet the required closeout date.

**VIII. NUMBER OF COPIES TO BE SUBMITTED.**

Five (5) signed copies each of the Transmittal Letter and Technical Response are to be submitted as directed under paragraph VI.2. Each copy of the Technical Response is to be packaged individually. Copies will be distributed, so simple and compact binding is preferred!

**IX. QUALIFICATIONS PACKAGE EVALUATION**

The factors to be used in conducting evaluations of each RFQ response are indicated in Attachment C. At the discretion of the District the top rated proposers may be invited to make an oral presentation prior to a final decision on the selection of a firm and the execution of an agreement.

## ATTACHMENT A

### FLORIDA INLAND NAVIGATION DISTRICT ECONOMIC ANALYSIS UPDATE OF THE DISTRICT WATERWAYS SCOPE OF WORK

#### A. INTRODUCTION

The Intracoastal Waterway and its connected tributaries (herein "Waterways") within the District allow the existence of, and contribute to, the operation of waterway-dependent and waterway-related businesses. Some of the businesses that are related to the Waterways are obvious; these include such enterprises as charter boat services and marine repair facilities that are located on and are directly dependent on the Waterways. Other business operations that are related to the Waterways are less obvious but readily identifiable. These businesses include tackle shops and marine supply stores which are not located on the Waterways, but directly benefit from the Waterways by selling goods and services to businesses located on the Waterways. The reliance on the Waterways of other business activities are not obvious at all. These are the businesses that supply goods and services to the businesses that supply the firms located on the Waterways. In addition, economic activity is generated by businesses whose operations are not directly related to the Waterways, but are impacted through the sale of household goods and services (such as food, clothing, shelter, gas, etc.) to people who are employed by businesses operating on the Waterways or businesses servicing firms operating on the Waterways. All of these business activities are related to, or linked to, the operation of the Waterways and contribute to the local economy by generating business sales, employment, and personal income within the local economy.

The U.S. Army Corps of Engineers (USACE) has historically played a prominent role in the development and maintenance of the inland waterway system and the Waterways within the District are no exception. Waterway projects have been evaluated by the USACE to determine economic feasibility based on National Economic Development (NED) benefits, which are economic benefits to the Nation, primarily as a result of transportation cost savings. The NED analysis virtually ignores the importance of the Intracoastal Waterway project as an economic development engine for stimulating national and regional economic growth resulting from the development of the project. In other words, NED benefits ignore the importance of the impact of business activity generated by or linked to the Waterways.

Regional Economic Development (RED) benefits are above and beyond the net benefits accruing to the Nation. These can include transfer of income from other regions and secondary benefits that accrue to a region, such as business activity that is linked to the Waterways. These local or regional impacts include: enhanced regional economic development; employment and income from waterway operation and maintenance; the expansion of existing firms in the region; the entry of new firms into the region; induced and indirect impacts from expansion and entry of firms; increased tax revenue; and increases in property value (both residential and commercial) resulting from maintaining and operating the Waterways.

Maintaining navigation on the Waterways within the District will allow waterway-related businesses to continue to contribute to the local economy. This business activity results in additional spending by businesses serving the marine-related businesses within the District that experience the

## ATTACHMENT A

initial business sales, and by persons employed by these firms. In short, maintaining navigation on the Waterways will result in dollars being pumped into the District which will generate both short-term and long-term direct, indirect and induced economic benefits in the area; benefits which include increased business activity (sales), personal income, employment, and property values.

To generate support for waterway maintenance, the District should attempt to educate the public of the local economic benefits that result from the Waterways. Typically, this type of information is developed by using a model that measures the economic activity in a region resulting from an initial increase in business activity (sales). An Input-Output (I/O) Model can be used to estimate regional economic impacts, including primary and secondary local business activity, income, and employment. The model should produce estimates of annual impacts in terms of business activity, personal income, and employment generated by the Waterways project within each industry impacted by the Waterways.

To generate support for the District's mission, the District will require specific economic analyses on an "as needed basis". Typically, this type of information is developed to measure the economic activity generated by a specific District activity.

### B. OBJECTIVE

The objective of this study effort is to identify, quantify and update the regional economic development impacts (including business activity, personal income, employment, and property values) generated within all of the District's 12-member counties (beginning with Palm Beach County), that result from maintaining navigation on the Waterways within the District. The reductions or increases to the current economic impact of the Waterways under two Waterway maintenance scenarios will also be quantified.

### C. SCOPE

The contractor shall provide all work and materials necessary to estimate the regional economic development benefits accruing within each of the District's 12-member counties (beginning with Palm Beach County) as a result of maintaining navigation on the Waterways. As part of the work effort, the contractor will review existing studies of the Waterways; estimate the initial (direct) impact to marine-related businesses within the District; acquire and modify an I/O (or other suitable) model capable of simulating the economic activity of each county within the District; estimate the indirect and induced business activity, employment, personal income, and property values attributable to the Waterways; and estimate the impacts to the local economy of two Waterways maintenance scenarios. The findings of the analysis are to be documented in a draft and final report, an easy to read executive summary, and public information brochures.

### D. PROJECT TASKS

Tasks 2 through 5 will be conducted similarly, but separately, for each county analyzed, beginning with Palm Beach County. The District will review and approve the Palm Beach County Report before proceeding with other counties.



## ATTACHMENT A

### 1. Literature review:

The contractor shall conduct a literature review of available analysis of the economic impact of marine-related businesses on local economies in Florida.

### 2. Interview/survey commercial and recreational marine-related businesses and quantify their direct economic impact:

This task consists of attempting to interview/survey all marine-related businesses and recreational Waterway users within the District to determine the impact of the Waterways on their operations, interviewing recreational boaters and fishermen to determine the current recreational spending patterns attributable to the Waterways, and estimating the direct economic impact of the Waterways. The contractor will estimate the direct economic impact of the Waterways using the acquired samples of business and recreational boater interviews and available data, including, but not limited to, tax revenue data and County Business pattern data.

### 3. Estimate the current total economic impact of the Waterways in terms of business sales, income, and employment:

This task consists of acquiring and modifying an economic input/output model, to be approved by FIND, to simulate the local economy and estimating the total economic impact of the Waterways, using the direct impacts developed in Task 2 to estimate indirect and induced economic impacts. Total business sales, employment, earnings, and tax revenue attributable to the Waterways will be estimated for each county. The expenditures for dredging will be considered. The multipliers used to estimate economic impacts will be explained.

### 4. Identify and quantify the value of property within the District:

The purpose of this task is to estimate the value of property within the District and to estimate the influence of the Waterways on those values. The contractor shall collect, combine, store, analyze, and make summary reports of property value data, including both land and structure value, with consistent parameters of use, location, and proximity to specific Waterways. Data from the county property appraiser will be used. In general, an inventory of property values adjacent to, near to, and away from the Waterways will be used to establish the value of real property within the District and to determine the influence of the Waterways on those values. These properties will include residential and commercial properties. The contractor will determine if the Waterways influence the construction of more luxurious homes, determine the impact on property values of different Waterway maintenance scenarios, including 10-foot deep waterways and restricted waterways, and determine the value of marinas, including boat slips. The analysis should consider the impact of ocean inlets.

### 5. Quantify Changes in the Economy and Property Values Under Two Future Waterways Maintenance Scenarios:

The purpose of this task is to quantify the impacts to business sales, personal income, employment, and property values under two alternative Waterway maintenance scenarios:

**ATTACHMENT A**

(a) A cessation of maintenance (at which point drafts on the Waterways will be limited to three feet), and

(b) A higher state of maintenance (which would result from the full implementation of the District's Dredge Material Management Plan for the Intracoastal Waterway).

The contractor will estimate the initial change in business activity of marine-related firms due to changes in vessel draft restrictions and will estimate the total change in business activity (sales), employment, and personal income under the two Waterway maintenance scenarios. The contractor will estimate the change in land values resulting from changes in vessel draft restrictions as a result of the two Waterway maintenance scenarios. To determine the impact to commercial/industrial land values due to draft limitations, in addition to using the above mentioned methodology, changes in land values could be based on the expected decrease in business due to the draft restrictions.

## ATTACHMENT B

### FLORIDA INLAND NAVIGATION DISTRICT ECONOMIC ANALYSIS UPDATE OF THE DISTRICT WATERWAYS PROJECT DELIVERABLES

Upon completion of the analysis, the following deliverables will be produced and submitted to the District:

**1. Draft Report:**

The findings of the entire analysis will be documented in a draft report to be presented to the District. The report will include a detailed description of the methodology used and a discussion of the findings of each task completed during the analysis.

**2. Final Report.**

Comments received from the District on the draft report will be addressed and incorporated into a final report detailing the findings of the analysis. Two (2) copies (one hard copy, one electronic copy) of each summary will be submitted to the District.

**3. Final Report Presentation:**

The findings of the analysis will be presented to the District in a formal presentation.

**4. Executive Summary Report:**

An Executive Summary of the analysis (six to eight pages in length) will be produced describing the procedures and findings of the analysis in laymen's terms. The Executive Summary will include a one to two-page description of the methodology used in the analysis, a color cover, and color charts and graphs that can be copied in black and white. Two (2) copies (one hard copy, one electronic copy) of the summary will be submitted to the District.

**5. Public Information Release:**

Thirteen (13) 1-page, double-sided information summary sheets and thirteen (13) tri-fold brochures shall be created for distribution to the public. The summaries shall include one for each of the District's twelve (12) counties, plus one District-wide executive summary. Two (2) copies (one hard copy, one electronic copy) of each summary will be submitted to the District.

**6. Additional Economic Analysis (As Needed):**

A process for providing additional economic analysis of specific projects in the regions which they serve will be developed. The intended goals are to engage and inform the public on the benefits of specific projects, as available.

## ATTACHMENT C

**FLORIDA INLAND NAVIGATION DISTRICT**  
**ECONOMIC ANALYSIS UPDATE OF THE DISTRICT'S WATERWAYS**  
**QUALIFICATION PACKAGE EVALUATION**

**NAME OF FIRM:** \_\_\_\_\_

<u>EVALUATION CATEGORIES</u>	<u>Relative Weight</u>	<u>Rating Score</u>
<b>Technical Understanding &amp; Approach</b> - Demonstration of the technical understanding of the problem. Completeness and sufficiency of the technical approach.	<b>25</b>	
<b>Project Organization and Management</b> - Sufficiency of project organization and management to efficiently perform the project while responding to the District's needs and controlling costs.	<b>15</b>	
<b>Firm Accessibility and Knowledge</b> - Is the firm readily accessible? Is the firm knowledgeable of Florida issues?	<b>10</b>	
<b>Personnel Assigned and Level of Effort</b> - Degree of experience and qualifications of key personnel assigned to the project and their availability to the project in terms of location and work load.	<b>20</b>	
<b>Past Performance Record</b> - Adequate record in the past three years of the satisfactory development OF Waterways economic study projects.	<b>20</b>	
<b>Schedule</b> - Past record which demonstrates the ability to satisfactorily meet deadlines along with workload during contract periods	<b>10</b>	
<b>TOTALS</b>	<b>100</b>	

**Evaluator's Initials:** \_\_\_\_\_



## ATTACHMENT D

**FLORIDA INLAND NAVIGATION DISTRICT**  
**ECONOMIC ANALYSIS UPDATE OF THE DISTRICT'S WATERWAYS**  
**STUDY SCHEDULE**

COUNTY	STUDY COMPLETION DATE
NASSAU	To initiate 2017
DUVAL	To initiate 2017
ST. JOHNS	To initiate 2017
FLAGLER	To initiate 2017
VOLUSIA	To initiate 2017
BREVARD	To initiate 2017
INDIAN RIVER	To initiate 2017
ST. LUCIE	To initiate 2017
MARTIN	To initiate 2017
PALM BEACH	To initiate 2016
BROWARD	To initiate 2017
MIAMI-DADE	To initiate 2016



August 26, 2016

Mr. Mark Crosley  
Executive Director  
Florida Inland Navigation District (FIND)  
1314 Marcinski Road  
Jupiter FL 33477

RE: Scope of Construction Administration Services  
Dredged Material Management Area (DMMA) DU-2 Weir Replacement  
Atlantic Intracoastal Waterway (AIWW), Duval County, Florida

Mr. Crosley:

Per your request, Taylor Engineering has prepared the attached Scope of Services (Attachment A) and cost proposal (Attachment B) for the following services related to the above-referenced DMMA weir replacement project:

Task 1 – Bid Assistance  
Task 2 - Construction Administration  
Task 3 - Project Closeout and Certification

This scope of work generally entails bid administration, construction administration, contractor oversight, and contract closeout services for the DMMA DU-2 Weir Replacement project. The project will demolish the existing half pipe weirs, corrugated metal piping, and timber structure and replace it with new steel box weirs, high-density polyethylene discharge piping system, and a new aluminum framed walkway. Site DU-2, shown in the figure provided in Attachment C, is expected to receive dredged material from the upcoming Nassau Reach I maintenance dredging project, scheduled for Spring 2017. Total anticipated construction time, including mobilization and demobilization, will be approximately 150 calendar days. Taylor Engineering will complete the work described herein for a cost-plus-maximum fee of \$84,245.94.

We appreciate this opportunity to serve the FIND. Please contact me if you have questions or comments.

Sincerely,

Jerry Scarborough, P.E.  
Senior Advisor, Waterfront Engineering  
Attachments (3)

**SCOPE OF CONSTRUCTION ADMINISTRATION SERVICES**  
**DREDGED MATERIAL MANAGEMENT AREA DU-2 WEIR REPLACEMENT**  
**DUVAL COUNTY, FLORIDA**

**ATTACHMENT A**  
**TAYLOR ENGINEERING, INC.**  
**SCOPE OF SERVICES**

## **SCOPE OF SERVICES**

### **CONSTRUCTION ADMINISTRATION FOR DREDGED MATERIAL MANAGEMENT AREA DU-2 WEIR REPLACEMENT DUVAL COUNTY, FLORIDA**

#### **INTRODUCTION**

Observations by the USACE in 2013 and Taylor Engineering in 2016 documented that the Dredged Material Management Area (DMMA) DU-2 weirs are in poor condition and must be replaced. Taylor Engineering is currently preparing the design and technical specifications for replacement weirs. The Florida Inland Navigation District (FIND) intends to hire a contractor to replace the weirs prior to the site's anticipated use in spring 2017. In July 2016, the FIND asked Taylor Engineering to submit a scope of services for construction administration for the weir replacement.

In response, Taylor Engineering developed this scope of services. In preparing this scope of services, we have made the following assumptions:

- The total construction time (including mobilization/demobilization) will be approximately 150 calendar days ( $\pm$  21 weeks), based on a five-day week, 12-hour day operating schedule.
- Project construction will not result in any substantial deviations from the project drawings and specifications.

Should any of these assumptions prove incorrect, Taylor Engineering will work with the FIND to develop an appropriate additional scope of services and cost.

#### **SCOPE OF SERVICES**

##### **TASK 1 BID ASSISTANCE**

Taylor Engineering will help the FIND administer the bidding process and help select the contractor. We will remain available at our Jacksonville offices to clarify and interpret project documents and prepare addenda, if required. We will coordinate and attend a pre-bid meeting to answer questions concerning elements of the project for which Taylor Engineering is responsible.

We will help review the bids received and provide the FIND with our recommendations for contractor selection. This work includes reviewing the submitted bid documents, checking technical references of the responsive bidders, and preparing and transmitting a written recommendation for contractor selection. Taylor Engineering will limit its review and recommendations to engineering and technical issues. The FIND will take responsibility for legal review and evaluation of contractors' financial condition, business licenses or authorizations, bonding, contractual requirements, and any other non-engineering or non-technical information.

##### **TASK 2 CONSTRUCTION ADMINISTRATION**

###### **2.1 Pre-Construction Meeting**

Taylor Engineering will conduct a pre-construction meeting. We will discuss the project, answer contractor's questions concerning any technical aspects of the work, and achieve a mutual understanding with the contractor of required quality control and environmental monitoring. In addition, we will discuss



## ATTACHMENT A

lines of engineer and contractor authority, general and specific contract conditions, contract administration, progress payment, correspondence procedures, project schedule, submittal register, and labor requirements. We will take minutes of the meeting and distribute them to the attendees. We assume the coordination meeting will occur at or near the project site in Duval County. This meeting will occur after the Notice of Award and before the Notice to Proceed.

## **2.2 Pre-Construction Submittal Review**

Taylor Engineering will review the contractor's pre-construction submittals. These submittals may include (among others) an updated schedule of values, list of subcontractors, signature authority, construction schedule, submittal register, environmental protection plan, and quality control plan.

## **2.3 Metal Fabrication Shop Visit**

Taylor Engineering will visit the metal fabrication facility chosen by the contractor up to two times while the contractor is fabricating the metal components. These visits are intended as a quality control measure to inspect the fabrication facility and methods as well as meet with the fabricators to clarify all design intent and answer any questions about the intended design and fabrication of metal components.

## **2.4 Site Visits**

### *2.4.1 Bi-Monthly Progress Meetings*

We will meet with the contractor on-site for bi-monthly (twice per month) project meetings to discuss project progress and address questions pertaining to engineering, design, permitting issues, and proposed changes to the project design; these meetings will provide a setting to address and resolve any conflicts on the project. Expected attendees include Taylor Engineering staff, representatives from the construction contractor and the FIND staff, if available. The progress meeting agenda will generally include review of minutes of previous meetings, work progress since the previous meeting, and upcoming work (i.e. construction schedule, submittal register, quality control/quality assurance testing, contract quality for materials and workmanship, pending contract modifications, changes and substitutions of materials), and other business as appropriate.

### *2.4.2 Site Observation Visits*

We will make on-site observations two or three days a week, as project conditions warrant, with an observer located on site approximately four to six hours each observation day. Taylor Engineering's observers will ascertain whether work is progressing in general conformance with the project drawings and specifications and will note discrepancies from the construction documents. Following each site visit, Taylor Engineering will prepare a construction observation report, which will become part of the project record. The report will include the name of the observer, weather conditions, date, personnel/visitors on site, the contractor's personnel and equipment, and daily summary of events.

Taylor Engineering will not direct the contractor's means, methods, or sequencing of construction. Taylor Engineering will not be responsible for jobsite safety.

## **2.5 Review and Approve Contract Related Items**

## ATTACHMENT A

We will review the contractor's shop drawings and submittals, progress pay applications, release of lien, contractor affidavits, and contractor's certifications. We will, if required, assist with preparation of change orders.

We will remain available through construction to provide advice and consultation to the FIND through site visits and teleconferences. In this role, we will address questions pertaining to engineering, design, and any proposed changes to project design. We will notify the FIND of any work stoppages or conflicts, and recommend to the FIND ways to resolve these issues.

### **TASK 3 PROJECT CLOSEOUT AND CERTIFICATION**

#### **3.1 Monitoring Visits for Grassing Establishment**

Taylor Engineering will not certify the construction work and the FIND will not close the construction contract until it is determined that newly planted grass on reconstructed embankments is established. Taylor Engineering has budgeted to visit the site up to four times, post-construction, to inspect and monitor grassing establishment.

#### **3.2 Project Closeout and Certification**

When the contractor requests certification that the project is substantially complete, we will visit the project site to make our determination of the degree of completion. If we cannot certify substantial completion, we will develop preliminary and subsequent final punch lists of items for the contractor to complete or correct. With concurrence from the FIND, we will transmit this list to the contractor. Upon completion of punch list items, we will certify the project substantially complete. We have budgeted for two on-site meetings during this stage of the project. We will collect and review the following information from the contractor before project closeout: (1) final waiver and release of lien from all subcontractors and suppliers, (2) final pay application, (3) post-construction/as-built survey, (4) final contractor certification, and (5) final contractor affidavit.

### **SCHEDULE**

The project schedule for Tasks 1 and 2 will follow the construction schedule with a total construction time (including mobilization/demobilization) of approximately 150 calendar days. The total construction duration is based on an assumed five-day week, 12-hour day contractor operating schedule with an additional two weeks for project closeout and certification.

**SCOPE OF CONSTRUCTION ADMINISTRATION SERVICES**  
**DREDGED MATERIAL MANAGEMENT AREA DU-2 WEIR REPLACEMENT**  
**DUVAL COUNTY, FLORIDA**

**ATTACHMENT B**  
**TAYLOR ENGINEERING, INC.**  
**COST PROPOSAL**

## ATTACHMENT B

**TAYLOR ENGINEERING, INC.**  
**COST SUMMARY BY TASK**  
**P2016-154: DU-2 WEIR REPLACEMENT CONSTRUCTION ADMINISTRATION**

**TASK 1: BID ASSISTANCE**

<i>Labor</i>	Hours	Cost	Task Totals
Senior Advisor	7.0	1,316.00	
Senior Professional	22.0	3,256.00	
Project Professional	32.0	3,488.00	
Technical Editor	3.0	306.00	
Administrative	6.0	312.00	
Total Man-Hours	70.0		
Labor Cost			8,678.00
<i>Non-Labor</i>	Units	Cost	
Pre-Bid Meeting Car Rental	1.0	110.00	
Pre-Bid Meeting milage	56.0	30.24	
Steel Fabrication Shop Visit Car Rental	2.0	220.00	
Steel Fabrication Shop Visit Milage	200.0	108.00	
Non-Labor Cost		468.24	
Fee @ 10.0%		46.82	
Total Non-Labor Cost			515.06
<i>Total Task 1</i>			9,193.06



## ATTACHMENT B

**P2016-154: DU-2 WEIR REPLACEMENT CONSTRUCTION ADMINISTRATION****TASK 2: CONSTRUCTION ADMINISTRATION**

<i>Labor</i>	Hours	Cost	Task Totals
Senior Advisor	20.0	3,760.00	
Senior Professional	169.0	25,012.00	
Project Professional	24.0	2,616.00	
Staff Professional	312.0	26,832.00	
Senior CAD Designer	12.0	1,356.00	
Administrative	11.0	572.00	
Total Man-Hours	548.0		
Labor Cost			60,148.00
<i>Non-Labor</i>	Units	Cost	
Car rental (r/t Jax to Black Hammock Island)	1.0	110.00	
Trucking mileage (r/t Jax to Black Hammock Island)	56.0	30.24	
Car rental (6 x r/t Jax to Black Hammock Island)	6.0	660.00	
Trucking mileage (6 x r/t Jax to Black Hammock Island)	336.0	181.44	
Trucking mileage (34 x r/t Jax to Black Hammock Island)	1,904.0	1,028.16	
Non-Labor Cost		2,009.84	
Fee @ 10.0%		200.98	
Total Non-Labor Cost			2,210.82
<b>Total Task 2</b>			<b>62,358.82</b>

**TASK 3: PROJECT CLOSEOUT AND CERTIFICATION**

<i>Labor</i>	Hours	Cost	Task Totals
Vice President	1.0	187.00	
Senior Advisor	10.0	1,880.00	
Senior Professional	8.0	1,184.00	
Project Professional	72.0	7,848.00	
Senior CAD Designer	4.0	452.00	
Administrative	8.0	416.00	
Total Man-Hours	103.0		
Labor Cost			11,967.00
<i>Non-Labor</i>	Units	Cost	
Reproductions and delivery	1.0	100.00	
Assessing Establishment Site Visits Car Rental	4.0	440.00	
Grassing Establishment Site Visits Mileage	224.0	120.96	
Non-Labor Cost		660.96	
Fee @ 10.0%		66.10	
Total Non-Labor Cost			727.06
<b>Total Task 3</b>			<b>\$ 12,694.06</b>

**Project Total \$ 84,245.94**

**SCOPE OF CONSTRUCTION ADMINISTRATION SERVICES**  
**DREDGED MATERIAL MANAGEMENT AREA DU-2 WEIR REPLACEMENT**  
**DUVAL COUNTY, FLORIDA**

**ATTACHMENT C**  
**TAYLOR ENGINEERING, INC.**  
**FIGURE**

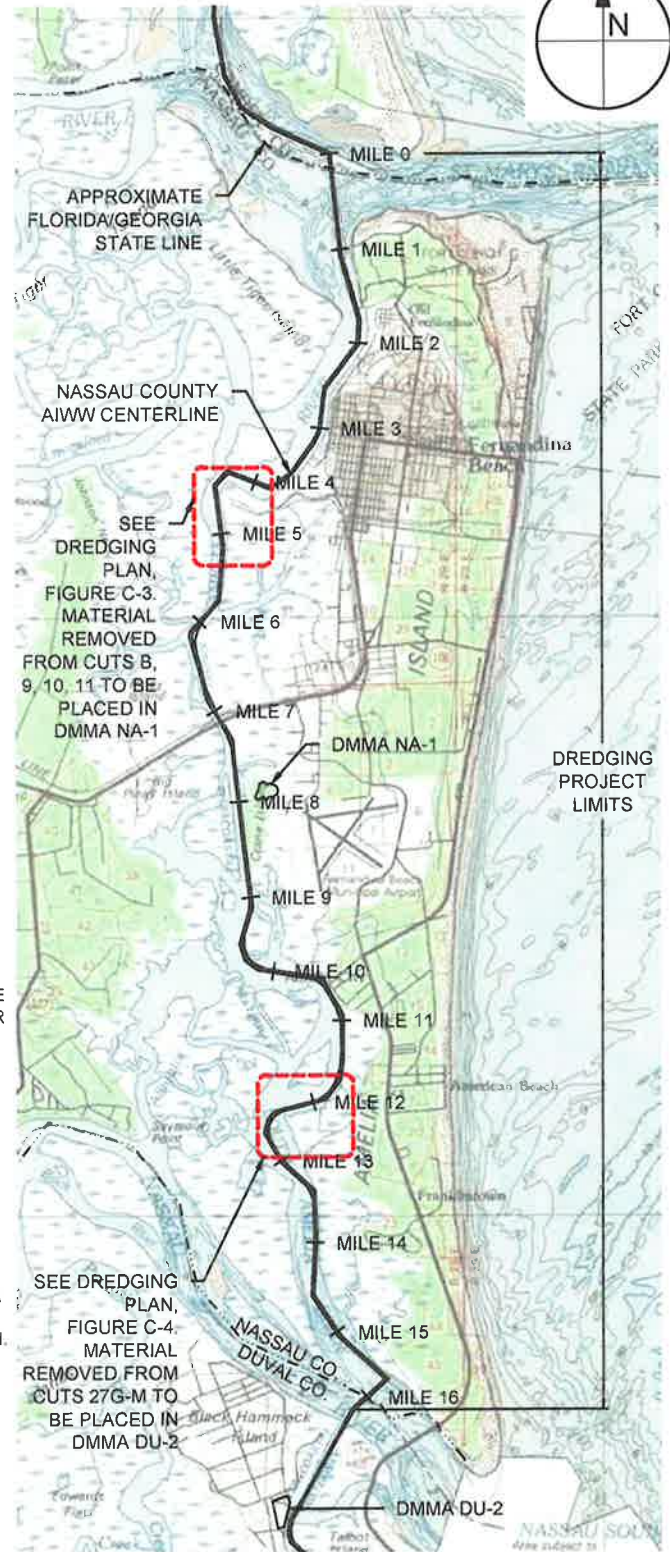


### DRAWING INDEX

- C-1 TITLE SHEET
- C-2 OVERVIEW
- C-3 DREDGING PLAN CUTS A, B, 11, 10
- C-4 DREDGING PLAN CUTS 27-G THRU 27-M
- C-5 DREDGING PLAN CUTS A, B, 11, 10, BEST WATER ROUTE
- C-6 DMMA DU-2 PLAN
- C-7 DMMA NA-1 PLAN
- C-8 TYPICAL DREDGING SECTIONS

#### GENERAL NOTES:

1. DREDGING IS PROPOSED IN ONLY TWO SPECIFIC AREAS: FHP CUT-9 THROUGH AIWW CUT-B; AIWW CUT-27L THROUGH CUT-27G.
2. HORIZONTAL DATA ARE IN FEET AND RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR FLORIDA, EAST ZONE (0901), NORTH AMERICAN DATUM, (NAD) OF 1983, 1990 ADJUSTMENT.
3. VERTICAL DATA ARE IN FEET AND RELATIVE TO MEAN LOWER LOW WATER (MLLW). MEAN LOWER LOW WATER WAS TRANSLATED FROM THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) UTILIZING THE LATEST VERSION OF VDATUM (VERTICAL DATUM TRANSFORMATION) PROVIDED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS).
4. INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA CHANNEL BATHYMETRY SURVEY WAS CONDUCTED ON JULY 9-11, 2014 AND JANUARY 31, 2015 BY SEA DIVERSIFIED, INC.
5. TOPOGRAPHIC SURVEY OF FIND DMMA DU-2 WAS CONDUCTED BY SEA DIVERSIFIED, INC ON OCTOBER 7-8, 2015.
6. AERIAL IMAGERY TAKEN IN 2014 AND OBTAINED FROM GOOGLE EARTH. AERIAL IMAGERY DISPLAYED HEREON FOR INFORMATIONAL PURPOSES ONLY, NO PHOTOGRAPHIC ACCURACY IS IMPLIED BY THIS MAP.
7. FEDERAL NAVIGATION CHANNEL LIMITS OBTAINED FROM THE U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT.
8. ALL DREDGE SPOIL WILL BE DISCHARGED WITHIN FLORIDA INLAND NAVIGATION DISTRICT (FIND) OWNED UPLAND DREDGED MATERIAL MANAGEMENT AREAS (DMMA) NA-1 AND DU-2.
9. DMMAS ARE SITED TO REMAIN ON UPLAND PROPERTY ABOVE THE MEAN HIGH WATER LINE. DMMAS WILL INCLUDE STAKED HAY BALES AND TURBIDITY CURTAINS AT ANY CONTROLLED OVERFLOW/DISCHARGE AREAS.



VICINITY MAP  
1"= 10,000'



**TAYLOR ENGINEERING INC.**

10151 DEERWOOD PARK BLVD.  
BLDG. 300, SUITE 300  
JACKSONVILLE, FL 32256  
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE C-1  
TITLE SHEET  
NASSAU CO. AIWW MAINT. DREDGING PERMIT  
NASSAU COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2015-048	AF	1 of 8	JAN 2016

SEAL

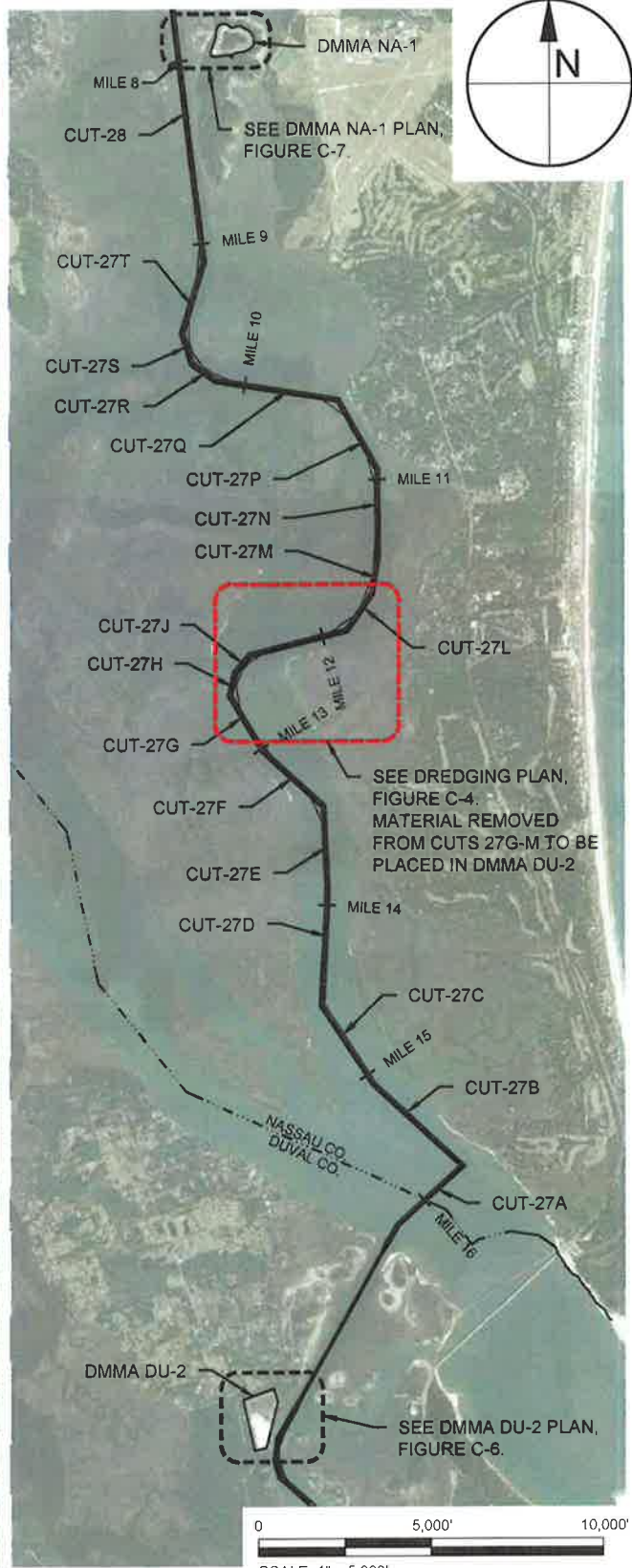
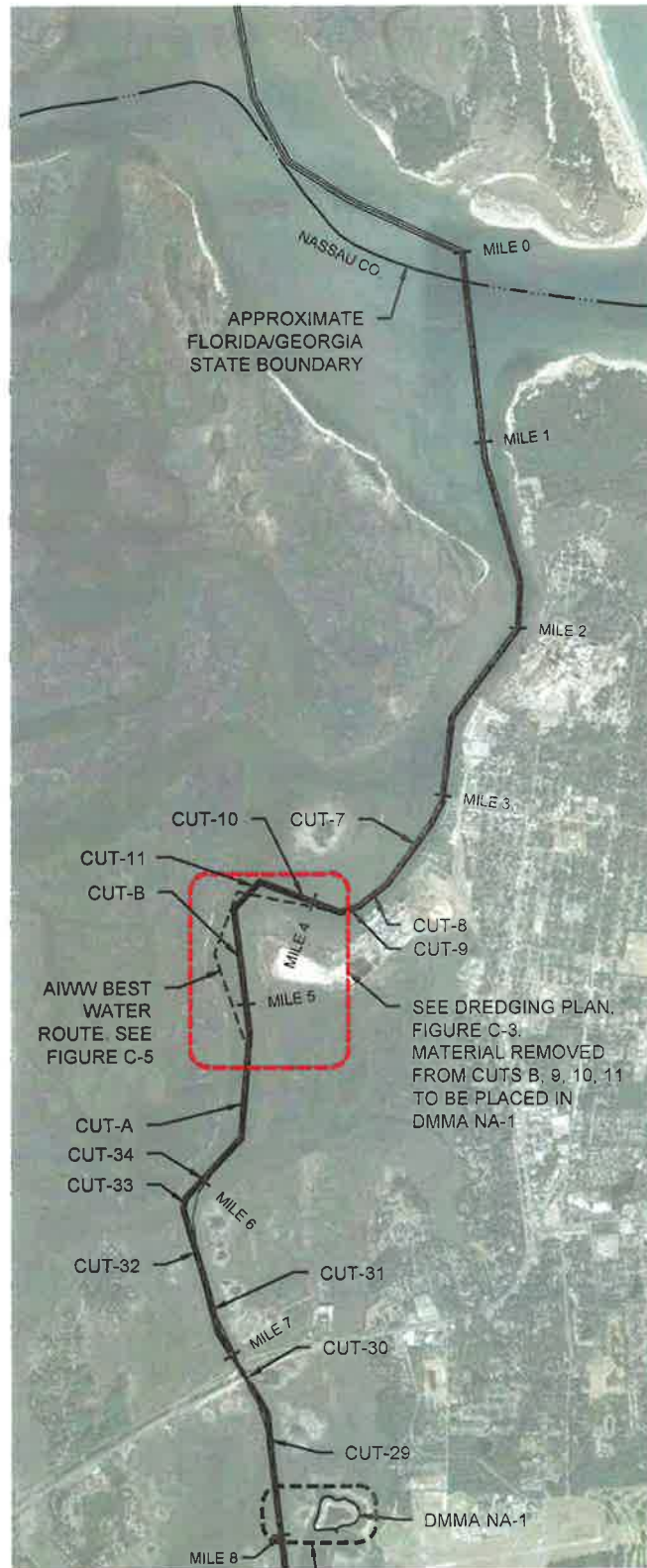
**DRAFT**

BILL ALEY, PG. #16747

DATE



NOTE: DREDGING IS PROPOSED IN ONLY TWO SPECIFIC AREAS: FHP CUT-9 THROUGH AIWW CUT-B; AIWW CUT-27L THROUGH CUT-27G.



ANTON FLEWELLING X 1575 PROJECTS\2015\048 FHP NASSAU REACH 1\PERMIT\2015-048-P-DREDGE OVERVIEW.DWG 4/19/2016 3:34:25 PM



**TAYLOR ENGINEERING INC.**

10151 DEERWOOD PARK BLVD.  
BLDG. 300, SUITE 300  
JACKSONVILLE, FL 32256  
CERTIFICATE OF AUTHORIZATION # 4815

**FIGURE C-2  
OVERVIEW**

**NASSAU CO. AIWW MAINT. DREDGING PERMIT  
NASSAU COUNTY, FLORIDA**

PROJECT C2015-048 DRAWN BY AF SHEET 2 of 8 DATE JAN 2016

SEAL

**DRAFT**

BILL ALEY, PG. #16747

DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



# AGREEMENT

THIS AGREEMENT ("Agreement") is entered into as of the \_\_\_\_ day of \_\_\_\_\_, 2016 between Florida Inland Navigation District, an independent special taxing district of the State of Florida, whose address is 1314 Marcinski Road, Jupiter, FL 33414 ("FIND") and MCA Delray Preserve Owner, LLC, a Delaware limited liability company authorized to do business in the State of Florida, whose address is 2001 Summit Park Drive, Suite 300, Orlando, FL 32810 ("Owner").

## WITNESSETH:

WHEREAS, Owner owns a parcel of land in the City of Delray Beach, Florida located at 2001 North Federal Highway on which it is developing a residential project known as "Delray Preserve"; and

WHEREAS, FIND owns a dredged material management area lying east of and abutting Delray Preserve, known as "MSA 641"; and

WHEREAS, FIND and Owner have entered into an Amended and Restated Permanent Access Easement Agreement ("Easement") dated June 11, 2015 and recorded in the Public Records of Palm Beach County, Florida at OR Book 27899, Page 1638, granting FIND an access easement across Delray Preserve between North Federal Highway and MSA 641; and

WHEREAS, the easement agreement relocated the eastern terminus of the Easement to the northwest corner of MSA 641, making it necessary to reconfigure the roadway and access gate on MSA 641; and

WHEREAS, Owner has contracted with Kast Construction Company, LLC ("Kast") to construct Delray Preserve; and

WHEREAS, Kast has expressed its willingness to enter into a change order to reconfigure the roadway and gate on MSA 641; and

WHEREAS, Owner has expressed its willingness to enter into the change order if FIND pays the cost; and

WHEREAS, FIND has determined that it is in the public interest to enter into this Agreement to pay the costs of Kast's work on MSA 641.

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00), the mutual promises and benefits, and other good and valuable consideration, FIND and Owner hereby agree as follows:

1. The foregoing recitals are true, correct and incorporated herein by reference.
2. Owner shall cause Kast to perform the scope of work as described in Change Order No. 81, a copy of which is attached hereto as Exhibit "A" (the "Work").
3. FIND shall pay Owner \$27,126.02 within three (3) business days of the Effective Date of this Agreement and the balance of \$27,126.02 within ten (10) business days following substantial completion of the Work.
4. Owner shall supervise Kast to make sure that the Work is completed in a good, workmanlike manner.
5. FIND hereby grants Kast a license to enter upon MSA 641 as necessary to complete the Work. Kast shall coordinate the access with Mark Tamblyn, FIND's Field Project Coordinator.
6. Owner shall require Kast to make FIND an additional insured under its comprehensive general liability policy and provide a certificate of insurance prior to commencing work on MSA 641.

7. Neither Owner nor Kast, or any of their respective subcontractors or material suppliers shall attempt to place any construction lien against MSA 641, which is government property and exempt from construction liens pursuant to Section 713.01(26), Florida Statutes.
8. Owner shall require Kast to warrant the Work against defects in materials and workmanship for 1 year after substantial completion and shall assign this warranty to FIND.
9. The Effective Date shall be the date on which the last of the parties has executed this Agreement.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the date first above written.

FLORIDA INLAND NAVIGATION DISTRICT

MCA DELRAY PRESERVE OWNER, LLC

By: \_\_\_\_\_

By: \_\_\_\_\_

Donald Cuozzo, Chair

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

ORB 9441 Pg 591

1658h/8

EXHIBIT "A"

(FIND Property)

Being a part of the Southwest Quarter of the Southeast Quarter of the Southeast Quarter hereinafter noted as Tract No. 1 and a part of the Southeast Quarter of the Southwest Quarter of the Southeast Quarter, hereinafter noted as Tract No. 2 of Section 4, Township 46 South, Range 43 East, Palm Beach County, Florida, lying West of the Westerly Right-Of-Way Line of the Intracoastal Waterway from Jacksonville to Miami, Florida, as that right-of-way line is shown on the plat recorded in Plat Book 17, at Page 14-B of the Public Records of said Palm Beach County, Florida, and more fully and particularly described as follows:

Tract No. 1 - Lying in the Southwest Quarter of the Southeast Quarter of the Southeast Quarter, Section 4, Township 46 South, Range 43 East.

Commencing at the Southeast corner of Section 4, Township 46 South, Range 43 East, as a point of reference; thence along the South boundary line of said Section 4, South 89° - 48' - 05" West, 1364.47 feet to an intersection with the Westerly right-of-way line of the hereinbefore mentioned Intracoastal Waterway; thence along said Westerly right-of-way line North 11° - 36' - 46" East, 73.05 feet to an intersection with the West line of the Southeast Quarter of the Southeast Quarter of said Section 4, to the Point of Beginning, identical with the Point of Beginning of a tract of land known as Maintenance Spoil Area 641 and recorded in Deed Book 506, at Page 92, of the said Public Records of Palm Beach County, Florida; thence along the West line of said Maintenance Spoil Area 641 identical with the West line of said Southeast Quarter of the Southwest Quarter of Section 4, Township 46 South, Range 43 East, North 01° - 38' 32" West, 616.56 feet to the North line of the Southwest Quarter of the Southeast Quarter of the Southeast Quarter of said Section 4; thence along said North line North 89° - 46' 14" East, 144.45 feet to the Westerly right-of-way line of the Intracoastal Waterway; thence along said Westerly right-of-way line South 11° - 36' - 46" West, 629.82 feet to the Point of Beginning, containing 1.02 acres, more or less.

Tract No. 2 - Lying in the Southeast Quarter of the Southwest Quarter of the Southeast Quarter, Section 4, Township 46 South,

ORB 9441 Pg 592

Range 43 East. The Point of Reference and the Point of Beginning being identical with those of the hereinabove described Tract No. 1.

From said Point of Beginning run along the hereinbefore mentioned Westerly right-of-way line of the Intracoastal Waterway from Jacksonville to Miami, Florida, South  $11^{\circ} - 36' - 21''$  West, 73.05 feet to the South boundary line of Section 4, Township 46 South, Range 43 East, thence along said South boundary line South  $89^{\circ} - 48' - 05''$  West 647.10 feet to the Southwest corner of the Southeast Quarter of the Southwest Quarter of the Southeast Quarter of said Section 4, marked by a concrete monument; thence along the Westerly line of said Southeast Quarter of the Southwest Quarter of the Southeast Quarter, North  $1^{\circ} - 29' - 36''$  West, 687.72, feet to the North line of said Southeast Quarter of the Southwest Quarter of the Southeast Quarter, said North line being identical with the Westerly prolongation of the hereinbefore mentioned North line of the Southwest Quarter of the Southeast Quarter of the Southeast Quarter of Section 4; thence along said North line North  $89^{\circ} - 46' - 14''$  East, 662.06 feet to the Northwest corner of the hereinbefore described Tract No. 1; thence along the West line of said Tract No. 1, South  $01^{\circ} - 38' - 32''$  East, 616.56 feet to the Point of Beginning, containing 10.46 acres, more or less.




**KAST CONSTRUCTION COMPANY, LLC**

701 NORTHPOINT PARKWAY, SUITE 400  
WEST PALM BEACH, FL 33407

**Request for Change Order No. 81**

Date: 7/29/2016

**Project: 15-006-01 DELRAY PRESERVE**

**To:** Gerard Van Der Laan  
ZOM Delray Preserve  
2001 Summit Park Drive,  
Suite 300,  
Orlando, FL 32810

**From:** KAST CONSTRUCTION COMPANY, LLC  
701 NORTHPOINT PARKWAY  
SUITE 400  
WEST PALM BEACH, FL 33407

**Description:** FIND Dredge Management Proposal

You are directed to make the following changes in this Contract:

This change order is for the proposed work to build access gates to the FIND Management Area to the east of Delray Preserve. Hughes Construction is to perform.

The above-mentioned changes are established from attached documentation.

The total direct cost to perform this work is .....				\$50,100.00
(Please refer to attached sheet for details.)				
	SDI	\$50,100.00	1.35%	\$676.35
	Gen. Liability Insurance	\$50,776.35	1.08%	\$548.38
	Fee	\$51,324.73	5.00%	\$2,566.24
	Bond	\$53,890.97	0.67%	\$361.07
			<b>Total:</b>	<b>\$54,252.04</b>

Response Due:


**KAST CONSTRUCTION COMPANY, LLC**

701 NORTHPOINT PARKWAY, SUITE 400  
WEST PALM BEACH, FL 33407

**Request for Change Order No. 81**

Date: 7/29/2016



ARCHITECT  
**MSA Architects**  
7695 South West 104th Street  
Miami, FL 33156

CONTRACTOR  
**KAST CONSTRUCTION COMPANY, LLC**  
701 NORTHPOINT PARKWAY  
WEST PALM BEACH, FL 33407

OWNER  
**ZOM Delray Preserve**  
2001 Summit Park Drive,  
Orlando, FL 32810

By: \_\_\_\_\_

By: \_\_\_\_\_

*K. Campbell*  
7/29/16

By: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Cc: KAHLIL CAMPBELL

**KAST CONSTRUCTION COMPANY, LLC**

701 NORTHPOINT PARKWAY, SUITE 400  
WEST PALM BEACH, FL 33407

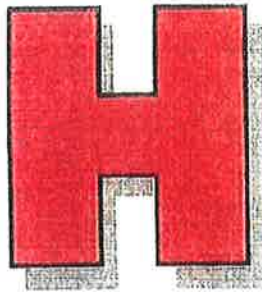
**Request for Change Order No. 81**

Date: 7/29/2016

**Price Breakdown Continuation Sheet**

**Description:** FIND Dredge Management Proposal

Description	Cost Code	Labor	Material	Equipment	Subcontract	Other	Price
FIND Management Install	02-300				\$47,100.00		\$47,100.00
Fence Repair/Relocation Allowance					\$3,000.00		\$3,000.00
<b>Subtotal:</b>							<b>\$50,100.00</b>



**HUGHES  
CONSTRUCTION  
INDUSTRIES  
INC.**

SITE DEVELOPMENT ♦ UNDERGROUND UTILITIES

Kast Construction  
Attn: Mr. Kahlil Campbell  
701 Northpoint Parkway Suite 400  
West Palm Beach FL 33407

4/19/2016  
Revised 7/28/16  
Proposal

**F.I.N.D. Dredge Material Management Area MSA-641A**

Mobilization	1	LS @	2,500.00	\$	2,500.00
Clear & Grub Trees	1	LS @	3,200.00	\$	3,200.00
Import Fill for Transition	30	LD @	180.00	\$	5,400.00
L&E To Remove/Grade Entranceway	3	DY @	2,675.00	\$	8,025.00
Relocate Existing 30" HDPE	60	LF @	50.00	\$	3,000.00
Relocate Existing HDPE MES	2	EA @	1,750.00	\$	3,500.00
Install New Stabilized Road	245	SY @	35.00	\$	8,575.00
Install Rip Rap 18" Min per Detail	4	LD @	1,175.00	\$	4,700.00
1" Sod Strip	1	Mir @	2,500.00	\$	2,500.00
Erosion Control Blanket Material	4	RL @	675.00	\$	2,700.00
Survey & Asbuilt	1	LS @	3,000.00	\$	3,000.00
<b><u>TOTAL:</u></b>				<b>\$</b>	<b><u>47,100.00</u></b>

Fence & Gate Removal/Replacement by Others. Permits by Others

**Add Aletrnate Pricing**

New Materials if Ex are Unsuitable	1	LS @	3,800.00	\$	3,800.00
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# FLORIDA INLAND NAVIGATION DISTRICT

COMMISSIONERS

AUGUST 15, 2016

**DONALD J. CUOZZO**  
CHAIR

MARTIN COUNTY

**JON NETTS**

VICE-CHAIR

FLAGLER COUNTY

**SUSANNE McCABE**

TREASURER

VOLUSIA COUNTY

**DON DONALDSON**

SECRETARY

ST. LUCIE COUNTY

**J. CARL BLOW**

ST. JOHNS COUNTY

**E. TYLER CHAPPELL**

BROWARD COUNTY

**T. SPENCER CROWLEY, III**

MIAMI-DADE COUNTY

**PAUL U. DRITENBAS**

INDIAN RIVER COUNTY

**CHARLES C. ISIMINGER**

PALM BEACH COUNTY

**MICHAEL O'STEEN**

DUVAL COUNTY

**JERRY H. SANSOM**

BREVARD COUNTY

**LYNN A. WILLIAMS**

NASSAU COUNTY

**MARK T. CROSLEY**

EXECUTIVE DIRECTOR

**JANET ZIMMERMAN**

ASSISTANT EXECUTIVE  
DIRECTOR

To: Potential Bidders

From: Mark M. Tamblyn, Field Projects Coordinator

Subject: Duval, St. Johns & Nassau Counties Site Mowing Project.

Enclosed are the bid documents and scope of work for the referenced project. **Bids are due in the District office no later than 2:00 PM on SEPTEMBER 2, 2016.** A bid will consist of the completed bid submittal forms. Sealed bids are required in accordance with Section 5.0 of the Project Specifications and shall be mailed or hand delivered.

There will be one award of this contract to the lowest qualified bidder, however, the District reserves the right to not award a contract based on its discretion. The District also reserves the right to expand or reduce the scope of work of this contract upon negotiation with contractor.

Please contact me should you have any questions concerning this matter.



**FLORIDA INLAND NAVIGATION DISTRICT**  
**DUVAL / ST. JOHNS & NASSAU COUNTIES**  
Site Mowing Project  
Bid Package  
AUGUST 15, 2016



**SCOPE OF WORK**  
**DUVAL & ST. JOHN'S COUNTIES SITE MOWING PROJECT**  
**AUGUST 15, 2016**

Dredge Material Management Areas (DMMA's) DU-2, DU-6, DU-7, DU-8, DU-9 DU-20 are located in Duval County. DMMA's SJ-14, SJ-20, SJ-29 are located in St. Johns County. DMMA NA-1 is located in Nassau County, Florida. The Florida Inland Navigation District manages dredged materials from the Atlantic Intracoastal Waterway on these sites. The specific locations of the ten (10) sites are referenced in Attachments A.

The contractor will mow the designated grassed areas within the selected ten (10) District sites up to four (4) times a year as directed by the District. The contractor will use flat bed mowers for the level planes, boom mowers for the berms, elevated slopes, perimeter ditches, and other mow able areas on these District sites. Attachments B, figures 1-10 show site locations with aerial photo parameters of the areas to be mowed. Along with the dimensions of the site an estimated area of mowing is depicted in Attachments B, figures 1-10. The contractor will also mow access trails to District monitoring wells on the sites, if any have already been established. The contractor will also be required to clear vines and brush from any weir on the mowed property, this activity may be required bi-annually.

## ATTACHMENT A

### DUVAL, ST. JOHNS AND NASSAU COUNTIES SITE MOWING PROJECT

#### PROJECT SPECIFICATIONS

##### **SECTION 1.0 GENERAL**

The Florida Inland Navigation District, hereinafter referred to as the "District", desires to enter into an agreement with a qualified and insured mowing contractor, hereinafter referred to as the "Contractor", to mow TEN (10) District properties known as DU-2 (N. E. Black Hammock), DU-6 (Fanning Island), DU-7 (W. Atlantic), DU-8 (Moody Marine), DU-9 (San Pablo) DU-20 (Central Black Hammock Island) in Duval County, and SJ-14 (Palm Valley), and SJ-20 (St. Augustine Shores) SJ-29 (PALENCIA) in St. Johns County. NA-1 (Amelia Island) in Nassau County.

##### **SECTION 2.0 PROPERTY DESCRIPTION DU-2**

The location and boundaries of Site DU-2 are shown in Attachments B, FIG. 1. The Site is 50 acres. The area to be mowed is approximately 10 acres. This site consists of a very large berm area, flat space mowing areas, and monitoring wells with access to them on site.

##### **SECTION 2.1 PROPERTY DESCRIPTION DU-6**

The location and boundaries of the Site DU-6 are shown in Attachments B, FIG. 2. The Site is 71 acres. The area to be mowed is approximately 15 acres. This site consists of a very large berm area, a landscaped area, it has large perimeter ditches which lie outside of the berm area, and monitoring wells are on site.

##### **SECTION 2.2 PROPERTY DESCRIPTION DU-7**

The location and boundaries of the Site DU-7 are shown in Attachments B, FIG. 3. The Site is 32 acres. The area to be mowed is approximately 18 acres. This site consists of a large open space area, and special considerations should be recognized regarding the limited access from the bridge approaches.

##### **SECTION 2.3 PROPERTY DESCRIPTION DU-8**

The location and boundaries of the Site DU-8 are shown in Attachments B, FIG. 4. The Site is 36 acres. The area to be mowed is approximately 10 acres. This site consists of a very large berm area, it also has a large perimeter ditches which lie outside of the berm area, and monitoring wells are on site.

##### **SECTION 2.4 PROPERTY DESCRIPTION DU-9**

The location and boundaries of the Site DU-9 are shown in Attachments B, FIG. 5. The Site is 180 acres. The area to be mowed is approximately 22 acres. This site consists of a very large berm area, it has large perimeter ditches which lie outside of the berm area, and it has monitoring wells on site. This site has regulated access and will require special access code to be provided by the District.



## **SECTION 2.5 PROPERTY DESCRIPTION DU-20**

The location and boundaries of the Site DU-20 are shown in Attachments B, FIG. 6. The site is 63 acres. The area to be mowed is approximately 35 acres. This site consists of a very large berm area, it has large perimeter ditches which lie outside of the berm area, and it has monitoring wells on site.

## **SECTION 2.6 PROPERTY DESCRIPTION SJ-14**

The location and boundaries of the Site SJ-14 are shown in Attachments B, FIG. 7. The Site is 202 acres. The area to be mowed is approximately 30 acres. This site consists of a very large berm area, two very large landscaped areas, it has large perimeter ditches which lie outside of the berm area, and it has monitoring wells on site.

## **SECTION 2.7 PROPERTY DESCRIPTION SJ-20**

The location and boundaries of the Site SJ-20 are shown in Attachments B, FIG. 8. The Site is 44 acres. The area to be mowed is approximately 15 acres. This site consists of a very large open space area.

## **SECTION 2.8 PROPERTY DESCRIPTION SJ-29**

The location and boundaries of the Site SJ-29 are shown in Attachments B, FIG. 9. The Site is 48 acres. The area to be mowed is approximately 15 acres. This site consists of a very large open space area.

## **SECTION 2.9 PROPERTY DESCRIPTION NA-1**

The location and boundaries of the Site NA-1 are shown in Attachments B, FIG. 10. The Site is 45 acres. The area to be mowed is approximately 16 acres. This site consists of large earthen berms, perimeter ditches and flat mowing of the large open spaces. Instruments, and associated pipes are throughout the berm area. Contractor should make allowable mowing tolerances to avoid damage or contact with these areas.

## **SECTION 3.0 PROJECT DESCRIPTION**

Project work will consist of the routine mowing of level grassed areas with conventional high production style mowing equipment and the mowing of sloped areas that will require the use of specialized equipment. Hand labor and small machine mowers may be required to perform the specified work in certain areas or during certain times of the year.

Vegetation to be mowed will consist of all grasses, part grass and part weed growth, or all weed growth within the areas to be mowed. The areas to be mowed consist of a dike, which includes the top, back and front slopes. The dike ramps, the grassed areas around the dike and the perimeter ditching. If the interior of the dike is ponded it will not require mowing. Vehicular access roads within the fences should be maintained to allow free clear travel (branch free) during each mowing interval. A ten (10) foot branch free corridor should be maintained in this space, and any access to monitoring wells on the District properties shall be maintained to the same level.

The dike slopes will be mowed with equipment that will not damage the dike or the grasses. These areas will normally require specially designed mowing equipment. Ditch areas that are saturated with water or too wet for standard mowing equipment will be required to be mowed by hand or specialized mowing equipment. No rutting or damage to the ditches or the dike will be allowed. Damage of this nature will be the contractor's responsibility to repair at no cost to the District. All grasses and vegetation will be cut to a height of six inches maximum.

The sites will be mowed up to four (4) times annually on an as needed basis. The District will determine the mowing schedule. The District reserves the right to expand this contract as additional properties are developed or extend the contract for subsequent years. A bi-annual mowing around the weir will be required to maintain clear access, free of vines and or brush in around and on the weir structure.

#### **SECTION 4.0 EQUIPMENT**

The Contractor will be required to use the minimum of one (1) flat bed mower or bat wing mower for the level surfaces, and one (1) slope or boom mower to mow the surfaces which are on contoured slopes. The equipment used by the contractor must be in good repair and shall be maintained as to produce a clean, sharp cut and uniform distribution of the cuttings at all times. The Contractor will provide a complete list of the equipment, which will be utilized on these District sites. This list shall accompany the bid form upon submittal.

#### **SECTION 4.1 FUELING**

Fueling on site will be conducted with authorized and approved fueling containers and or equipment to avoid spillage. The fueling activities shall be conducted on level ground and on the most appropriate a hard, road base surface on site. All spills shall be immediately reported to the District. The spill shall be immediately contained, and the impacted soil shall be excavated and placed into an impervious container to be removed from the District property by the Contractor.

#### **SECTION 5.0 BIDS**

Bids shall be submitted on Attachment D the Bid Submittal Form. The total bid amount shall include all costs to perform one (1) mowing event of all sites. Qualified bids or bids with exception will not be accepted. A qualified bid will also include a completed Equipment List Form which is Attachment C. Bids will be made by sealed bid only. The sealed bid shall be marked clearly on the outside envelope "Sealed Bid Duval-St. John Nassau Mowing Project" and shall be submitted inside another envelope. Bids can be mailed or hand delivered. All bids are due by 2:00 pm September 2, 2016.

#### **SECTION 6.0 PROJECT MANAGER**

The District's project manager for this agreement will be Mark M. Tamblyn. He can be contacted at the District office 1314 Marcinski Road, Jupiter, Florida 33477 Telephone (561) 627-3386, Fax (561) 624-6480 EMAIL [mtamblyn@aicw.org](mailto:mtamblyn@aicw.org).

**SECTION 7.0 PROJECT SUPERVISION**

The District's Project Manager shall give notice regarding the approximate date and time of the initial mowing and completion of the mowing. The project manager will make available personnel to assist in the resolution of any questions or problems that may arise. The District sites are locked and secured, and will remain this way prior to mowing and upon completions of mowing activities. The contractor will maintain security of gates and notify the District of damage or vandalism to them at the time of mowing events.

**SECTION 8.0 INSURANCE REQUIREMENTS**

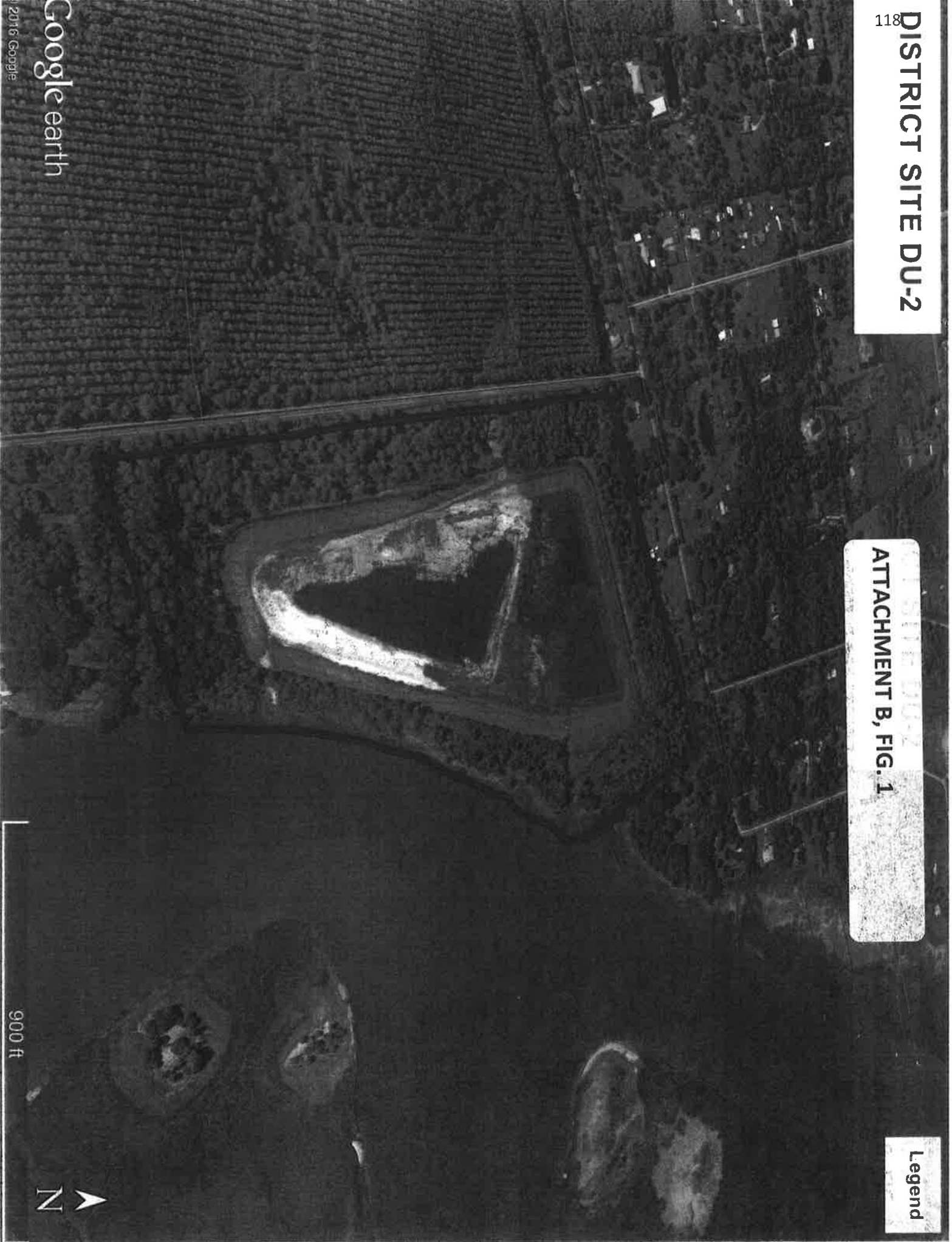
The contractor will be required to provide a minimum of \$ 500,000.00 insurance policy covering general liability and workman's compensation coverage with the District as an insured party.

**SECTION 9.0 PAYMENT**

The contractor will submit the District certification form along with an invoice at the completion of a mowing event. Upon District inspection and approval the District will release payment to the contractor.

ATTACHMENT B, FIG. 1

Legend



N

900 ft



ATTACHMENT B, FIG. 2

Legend



900 ft





ATTACHMENT B, FIG. 3

Legend



Google earth

900 ft

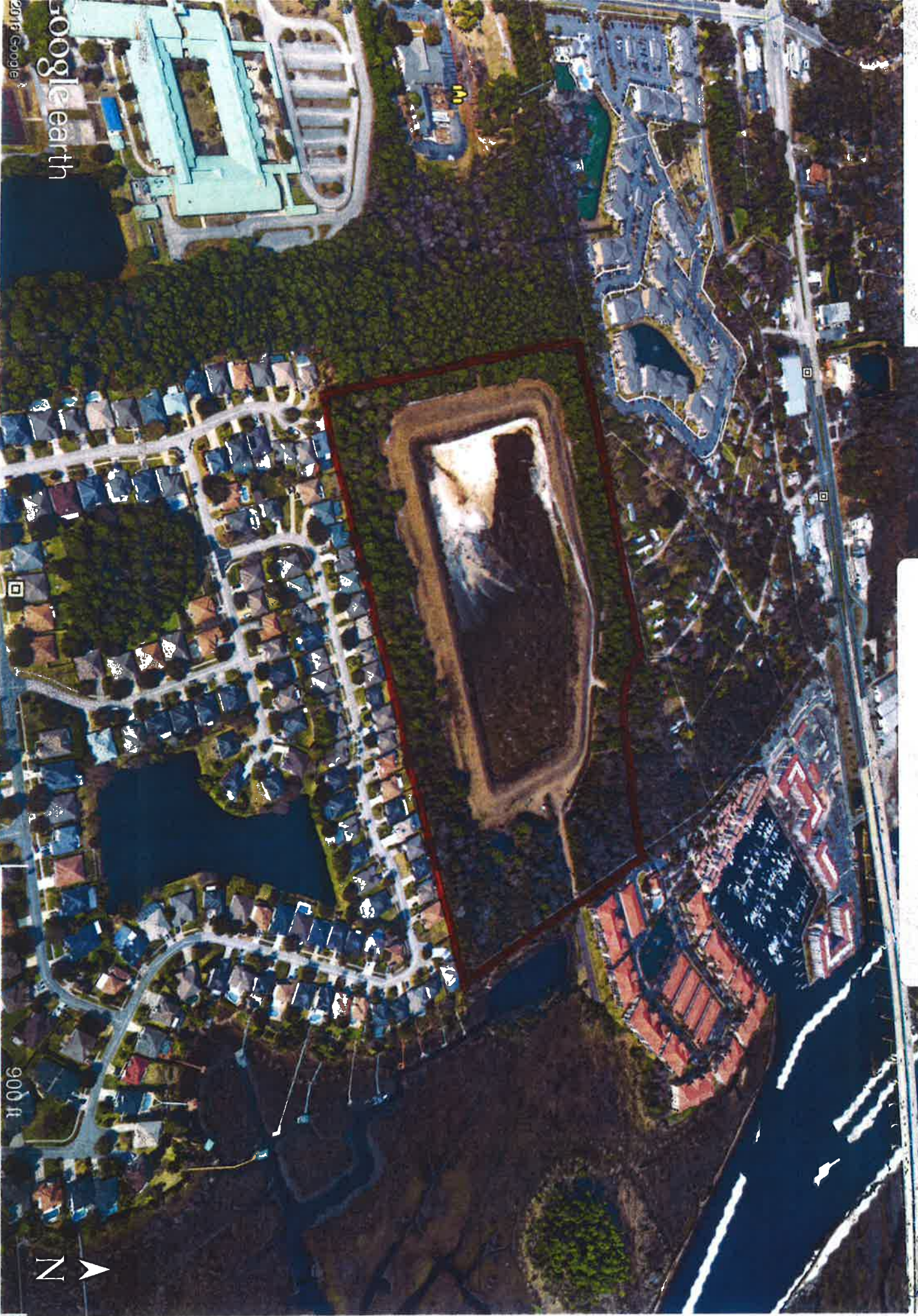




DISTRICT SITE DU-8

LOT SITE DU-8  
ATTACHMENT B, FIG. 4

Legend





ATTACHMENT B, FIG. 5

Legend



1000 ft





ATTACHMENT B, FIG. 6

Legend





ATTACHMENT B, FIG. 7

Legend



10000 ft



ATTACHMENT B, FIG. 8

Legend





ATTACHMENT B, FIG. 9

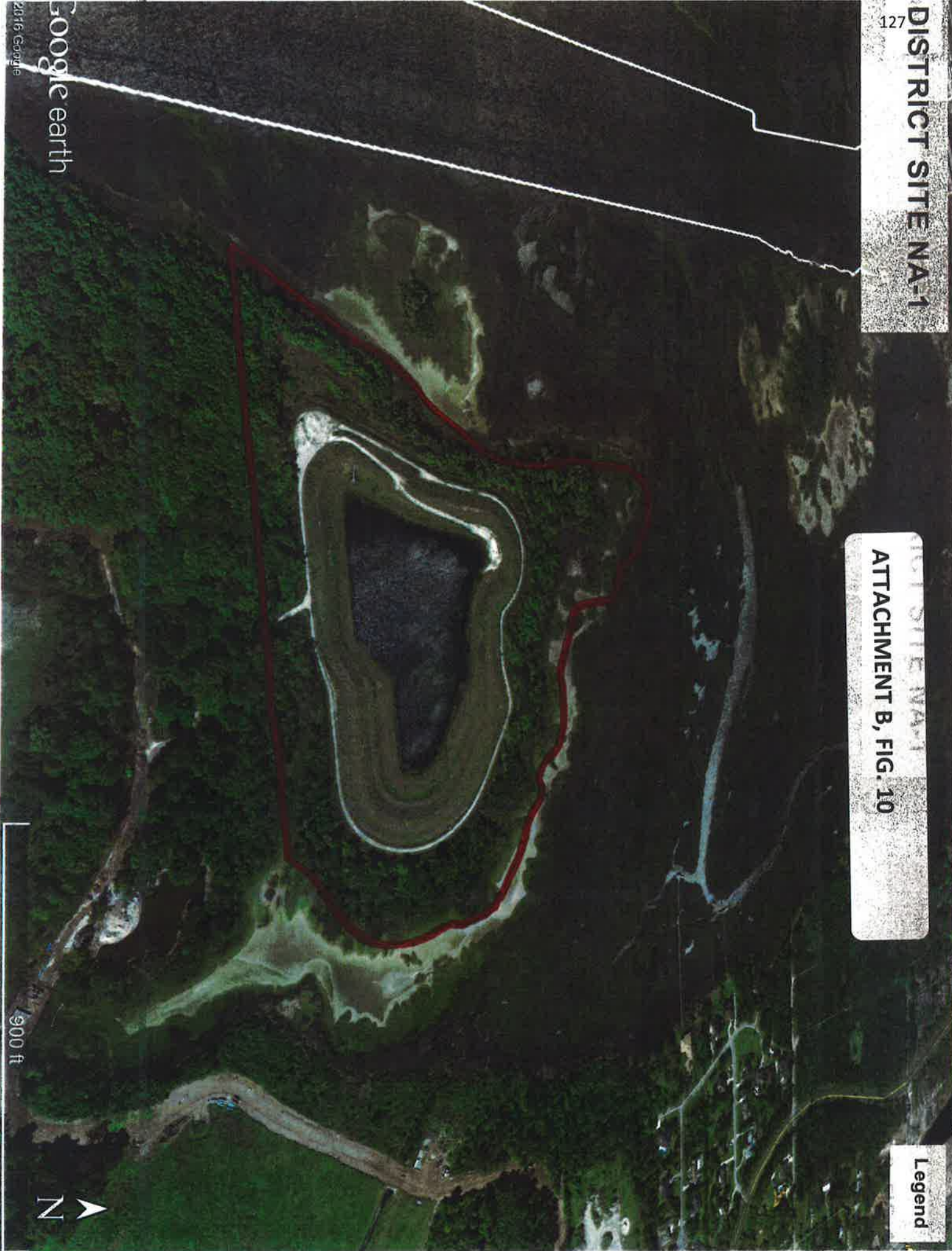
Legend





ATTACHMENT B, FIG. 10

Legend



900 ft



**ATTACHMENT C**  
**FLORIDA INLAND NAVIGATION DISTRICT**  
**DUVAL, ST. JOHNS & NASSAU COUNTY SITE**  
**MOWING PROJECT**  
**EQUIPMENT LIST FORM**

NAME OF FIRM: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE AND FAX: \_\_\_\_\_

LISTING OF EQUIPMENT TO BE USED ON THIS DISTRICT PROJECT:

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_

\_\_\_\_\_

4. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

**ATTACHMENT D****FLORIDA INLAND NAVIGATION DISTRICT****DUVAL, ST. JOHNS AND NASSAU COUNTIES SITE  
MOWING PROJECT****Bid Submittal Form**

Bids are to be made on a total cost basis and shall include all costs necessary to complete one mowing event of the TEN (10) sites in the specification. Bids shall not be qualified, incomplete or include extra costs to be determined later or on a unit basis. One award will be made to the low qualified bidder.

NAME OF FIRM: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

REFERENCES: (Name, Address, Phone, Contact Person)

1. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TOTAL PROJECT BID COST \$ \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title



TAYLOR ENGINEERING, INC.

*Delivering Leading-Edge Solutions*

REVISED  
April 14, 2016

Mr. Mark Crosley  
Executive Director  
Florida Inland Navigation District (FIND)  
1314 Marcinski Road  
Jupiter, FL 33477

Re: SJ-14: Marsh Harbor Easement and Pipeline Modifications  
Professional Engineering Services

Mr. Crosley:

Taylor Engineering is pleased to submit the enclosed scope of work (Attachment A) and fee proposal (Attachment B) for professional engineering services for engineering review and field construction observation of the proposed easement and permanent pipeline relocation at SJ-14.

Taylor Engineering will perform these services on a cost plus basis, for a total cost not to exceed \$17,653 (Attachment B).

We appreciate this opportunity to continue to serve FIND. Please contact me with any questions or comments.

Sincerely,

John Adams, P.E.  
Senior Advisor, Waterfront Engineering

Attachments (2)



**SJ-14: MARSH HARBOR EASEMENT AND PIPELINE MODIFICATIONS  
ST. JOHNS COUNTY, FLORIDA**

**ATTACHMENT A  
SCOPE OF WORK**

## **SCOPE OF WORK**

### **SJ-14: MARSH HARBOR EASEMENT AND PIPELINE MODIFICATIONS ST. JOHNS COUNTY, FLORIDA**

#### **INTRODUCTION**

This scope of work (scope) for professional engineering services describes Taylor Engineering's effort to review and conduct field observations of a proposed project by the Cabbage Hammock Company, LLC (CHC) to modify a portion of the Florida Inland Navigation District (FIND) pipeline easement and pipeline installation from Dredged Material Management Area (DMMA) SJ-14 to the Intracoastal Waterway. The project will involve the relocation of about 700 feet of 42" HDPE buried pipe that carries water discharges from SJ-14. FIND requests Taylor Engineering's assistance with engineering review and field observations of this effort. Taylor Engineering developed this scope based on the following assurances CHC communicated to FIND:

1. The relocated easement will allow no less than 30 feet between the road with associated drainage and the easement's north boundary to allow for pipeline maintenance, repair, and installation of the dredge pipe during dredging.
2. CHC will obtain any permits necessary to relocate the permanent buried pipeline and to provide access for maintenance, repair, and installation of the temporary dredge pipe.
3. The proposed residential road and haul road will not adversely impact the buried pipeline.
4. CHC understands that during dredging operations (approximately once every 15+years), protection measures, such as fencing, may be required to isolate the dredging operations from public access.
5. The new relocated buried pipe and manholes will not settle or leak when pressurized during dredging operations.
6. Installation and relocation of the pipeline may require dewatering of the existing pipeline. There exists an increased risk that locally high groundwater conditions will cause sections of the pipeline to float and displace earthen cover. CHC's modified design must address and mitigate this risk.
7. CHC will provide a detailed description of how the existing buried pipe will be dewatered, how the continuous water flow from SJ-14 will be maintained, and how the transition from the existing pipe to the new pipe will be accomplished.
8. CHC's engineer will serve as the Engineer of Record for the design and construction of the relocated buried pipeline. Taylor Engineering, FIND's Engineer, will review the work, provide comments regarding CHC's design and general compliance with the original project specifications. Taylor Engineering will provide limited observation during construction to ascertain FIND'S final acceptance of the relocated buried pipeline.

#### **TASK 1: ENGINEERING REVIEW**

In conjunction with FIND's approval of the pipeline relocation, Taylor Engineering will review and comment on the final engineering drawings and specifications for the project as prepared by CHC's engineer. Taylor Engineering will conduct a subsequent review, if needed, to ensure comments have been adequately addressed.

#### **TASK 2: FIELD OBSERVATIONS**

Taylor Engineering will perform a minimum of six field observations of the on-going pipe relocation during the construction period. Comments, as appropriate, will be provided to FIND with deficiencies noted as to compliance with aforementioned assurances.

## ATTACHMENT A

**ANTICIPATED SCHEDULE**

Taylor Engineering will be ready to begin work on this project immediately upon receipt of FIND's work order authorizing services. However, the overall schedule will be dictated by CHC's schedule for completion of design and commencement of construction.

**SJ-14: MARSH HARBOR EASEMENT AND PIPELINE MODIFICATIONS  
ST. JOHNS COUNTY, FLORIDA**

**ATTACHMENT B  
COST PROPOSAL**



**TAYLOR ENGINEERING, INC.**  
**COST SUMMARY BY TASK**

**P2016-072: SJ-14: Marsh Harbor Easement and Pipeline Modifications**

**TASK 1: ENGINEERING REVIEW**

<i>Labor</i>	Hours	Cost	Task Totals
Vice President	8	1,496.00	
Senior Advisor	12	2,256.00	
Senior Professional	24	3,552.00	
Total Man-Hours	44		
Labor Cost			7,304.00
<i>Total Task 1</i>			7,304.00

**TASK 2: FIELD OBSERVATIONS**

<i>Labor</i>	Hours	Cost	Task Totals
Vice President	4	748	
Senior Advisor	18	3,384.00	
Senior Professional	40	5,920.00	
Total Man-Hours	62		
Labor Cost			10,052.00
<i>Non-Labor</i>	Units	Cost	
Site Visit Mileage/Trip Costs	6	270	
Non-Labor Cost		270	
Fee @ 10%		27	
<i>Total Task 2</i>			10,349.00

**Project Total     \$17,653.00**

# 2014-2015 ASSISTANCE PROJECTS REQUIRING A ONE (1) YEAR EXTENSION

Project Sponsor	Project Name	Project Number	Reason for Extension
St. Johns County	Vilano Beach Fishing Pier Remediation	SJ-14-58	Additional time needed for completion
City of Holly Hill	Sunrise Park South - Dredging & Boat Ramp Improv.	VO-HH-14-103	Waiting on Permits
Town of Marineland	Marineland Marina Phase B Construction	FL-ML-14-24	Additional time needed for completion
City of Riviera Beach	Riviera Beach Marina Construction - Part B, Phase I	PB-RB-14-185	Waiting on Permits
City of Fernandina Beach	Marina Welcome Center Deck	NA-FB-14-13	Additional time needed for completion
City of Miami	Baywalk Floating Dock Regatta Park - Phase I	DA-MI-14-164	Waiting on Permits
City of Miami	Seybold Canal & Wagner Creek Dredging - Phase D	DA-MI-14-162	Additional time needed for completion
City of Miami	"Biscayne Bay Spoil Island "C" Tiki Shelter to Swim Area"	SI-MI-14-02	Additional time needed for completion
City of Miami	"Biscayne Bay Spoil Island "C" Dock to Tiki Shelter Path"	SI-MI-14-01	Additional time needed for completion



## St. Johns County Board of County Commissioners

Parks & Recreation Department

August 22, 2016

Janet Zimmerman  
Assistant Executive Director  
Florida Inland Navigation District  
1314 Marcinski Road  
Jupiter, Florida 33477

RE: SJ-14-58 Vilano Beach Fishing Pier Remediation

Dear Janet,

On behalf of St. Johns County, I would like to request an extension for the above referenced project. While remediation/renovation is well underway the projected finish timeline is past the 2 year completion date. The projected target finish date is now March of 2017. We are confident that the contractor will be completed at that time without any significant weather events that may impact that completion date. Once complete, we will have the closeout documentation to you for project completion and final reimbursement.

Thank you for your consideration of this request. Please do not hesitate to contact me if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read "William C. Smith".

William C. Smith, Director  
St. Johns County Parks and Recreation Department  
2175 Mizell Road  
St. Augustine, Florida 32080  
Office (904)209-0324  
Cell (904)669-5468  
wsmith@sjcfl.us



# CITY OF HOLLY HILL

The City with a Heart

1065 Ridgewood Avenue ♥ Holly Hill, Florida 32117

[www.hollyhillfl.org](http://www.hollyhillfl.org)

**Building,  
Zoning,  
Licensing &  
Inspections**  
386-248-9442  
Fax 386-248-9498

**City  
Clerk**  
386-248-9441  
Fax 386-248-9448

**City  
Manager**  
386-248-9425  
Fax 386-248-9448

**Community  
Services**  
386-248-9435  
Fax 386-248-9448

**Economic  
Development**  
386-248-9424  
Fax 386-248-9444

**Finance**  
386-248-9427  
Fax 386-248-9497

**Human  
Resources**  
386-248-9440  
Fax 386-248-9448

**Information  
Technology**  
386-248-9459  
Fax 386-248-9448


**Public  
Works**  
386-248-9463  
Fax 386-248-9499

**Utility  
Billing**  
386-248-9432  
Fax 386-248-9458

**Community  
Development &  
Resource Center**  
386-248-9453  
Fax 386-248-9437

August 15, 2016

Janet Zimmerman, Assistant Executive Director  
Florida Inland Navigation District (FIND)  
1314 Marcinski Road  
Jupiter, FL 33477

REC'D   
AUG 18 2016  
Florida Inland  
Navigation District

RE: Request for extension; Project #VO-HH-14-103

Dear Ms. Zimmerman,

The City of Holly Hill would like to request an extension of the Sunrise Park South – Dredging and Boat Ramp Improvements project #VO-HH-14-103. The reason for this request is that the City is awaiting approval of permitting. Until such time as permits are pulled, the final payment to the contractor is being withheld. As such, we do not yet have all cancelled checks to request reimbursement for City expenditures.

Although this process will likely be completed in a more timely manner, the City would like to request that the extension be made for a full year allowing for any unforeseen punch list items. This would revise the completion date of this grant project to September 1, 2017.

If you have any questions or require any further information, please let me know.

Sincerely,



Steven Juengst, Facilities Supervisor  
City of Holly Hill  
Department of Public Works  
453 LPGA Blvd  
Holly Hill, Florida 32117  
(386) 248-9463  
(386) 248-9499  
[sjuengst@hollyhillfl.org](mailto:sjuengst@hollyhillfl.org)  
[www.hollyhillfl.org](http://www.hollyhillfl.org)

cc: Catherine Colwell, Assistant Finance Director, City of Holly Hill



Marineland Marina  
101 Tolstoy Lane  
Marineland, FL 32080



Office: (904)814-9886  
Email: MarinelandMarina@gmail.com

August 25, 2016

Janet Zimmerman  
Assistant Executive Director  
Florida Inland Navigation District  
1314 Marcinski Road  
Jupiter, FL 33477-9427

Re: FY 2014-2015 Waterways Assistance Program – Grant Application Marineland Marina Phase 2

Dear Ms. Zimmerman,

The Town of Marineland would like to request a one-year extension for FY 2014-2015 Waterways Assistance Program. We have a pending application for the 2016 Waterways Assistance Program and the availability of funding will determine the final budget for this phase of the rebuilding of the Town of Marineland Marina. Construction will begin shortly thereafter.

Thank you for your consideration.

Sincerely,

Chris Kelley  
Dockmaster, Town of Marineland Marina

JH Sprague Consulting LLC  
10918 Larch Ct  
Palm Beach Gardens, FL 33418  
561-723-5418 spragueconsulting@me.com

Ms. Janet Zimmerman  
Assistant Executive Director  
Florida Inland Navigation District  
1314 Marcinski Road  
Jupiter, Florida 33477

As the Marina Consultant and grant coordinator for the City of Riviera Beach, I formally request that grant # PB-RB-14-185 be extended for one year, pursuant to your rules. We expect the USACE permit for dock G any day and have received the DEP permit for this dock and the associated dredging next to it for 15ft with the over dredge. We are finalizing the permit process for F dock with DEP and have the permit from the USACE. We are continuing work on dredging permitting for the rest of the area and dock E of the marina to allow the marina to utilize the ICW deepening that FIND recently completed.

Please feel free to contact me at 561 723-5418 should you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "John H Sprague", with a stylized flourish at the end.

John H Sprague  
CC: City of Riviera Beach



August 22, 2016

Janet Zimmerman  
Assistant Executive Director  
Florida Inland Navigation District  
1314 Marcinski Road  
Jupiter, FL 33477-9427

RE: Marina Welcome Center Deck  
NA-FB-14-13

Dear Ms. Zimmerman:

The City of Fernandina Beach requests a one-year extension of the above-cited grant agreement to September 30, 2017. The deck has been constructed; however, the contractor is awaiting skirt panels that are to be placed at ground level around the building deck area. These panels had to be custom made to match the existing panels on the building. The panels, unfortunately, have been delayed in shipping.

As soon as the deck has been completed, we will send you photographs and request your approval of an acknowledgement sign, before closing out the grant.

Thank you for this opportunity to request a grant agreement extension for the Marina Welcome Center Deck project. If you require more information or have questions, please contact our grants administrator, Cheryl Lilly, at 904-310-3104.

Sincerely,

Dale L. Martin  
City Manager

DLM/cl

# City of Miami



DANIEL J. ALFONSO  
City Manager

August 29, 2016

Janet Zimmerman, Assistant Executive Director  
Florida Inland Navigation District  
1314 Marcinski Rd  
Jupiter, Florida 33477

RE: Baywalk Floating Dock Regatta Park - Phase I, B-30182A  
Project No. DA-MI-14-164

Dear Ms. Zimmerman:

The City of Miami respectfully requests a one-year extension of time for the above referenced agreement. The plans are going through the permitting approval process and are currently at 60% within said process. Bid phase is projected to begin October 2016 with an anticipated construction start of March 2017.

Your approval to extend the grant agreement would be gratefully appreciated. Should you have any questions, do not hesitate to contact me at (305) 416-1225.

Sincerely,

Jeovanny Rodriguez, P.E.  
Director

JR/wj

cc: Hector Badia, Assistant Director, CITP  
Lillian Blondet, Director, Office of Grants Administration  
Lai-Wan McGinnis, Budget & Financial Reporting Administrator, OMB  
Giraldo Marquez, P.E., Chief of Horizontal, CITP  
Carlos Vasquez, RA, Project Manager, CITP



# City of Miami



DANIEL J. ALFONSO  
City Manager

August 29, 2016

Janet Zimmerman, Assistant Executive Director  
Florida Inland Navigation District  
1314 Marcinski Rd  
Jupiter, Florida 33477

RE: Seybold Canal & Wagner Creek Dredging - Phase D, B-50643  
Project No. DA-MI-14-162

Dear Ms. Zimmerman:

The City of Miami respectfully requests a one-year extension of time for the above referenced agreement. The City let this project under a Design-Build Services solicitation (RFP 15-16-010); however, the bids were rejected. The City re-issued the project bid last week and anticipates for construction to start January 2017.

Your approval to extend the grant agreement would be gratefully appreciated. Should you have any questions, do not hesitate to contact me at (305) 416-1225.

Sincerely,

Jeovanny Rodriguez, P.E.  
Director

JR/wj

c: Hector Badia, Assistant Director, CITP  
Lillian Blondet, Director, Office of Grants Administration  
Lai-Wan McGinnis, Budget & Financial Reporting Administrator, OMB  
Giraldo Marquez, P.E., Chief of Horizontal, CITP  
Carlos Vasquez, RA, Project Manager, CITP

# City of Miami



DANIEL J. ALFONSO  
City Manager

August 29, 2016

Janet Zimmerman, Assistant Executive Director  
Florida Inland Navigation District  
1314 Marcinski Rd  
Jupiter, Florida 33477

RE: Biscayne Bay Spoil Island C Tiki Shelter Path, B-30825C  
Project No. SI-MI-14-01

Dear Ms. Zimmerman:

The City of Miami respectfully requests a one-year extension of time for the above referenced agreement. Mr. Spencer Crowley recommended for the continued use of this FINID grant to fund other park amenities and improvements to the waterfront along the Spoil Island C.

Your approval to extend the grant agreement would be gratefully appreciated. Should you have any questions, do not hesitate to contact me at (305) 416-1225.

Sincerely,

Jeovanny Rodriguez, P.E.  
Director

JR/wj

cc: Hector Badia, Assistant Director, CITP  
Lillian Blondet, Director, Office of Grants Administration  
Lai-Wan McGinnis, Budget & Financial Reporting Administrator, OMB  
Giraldo Marquez, P.E., Chief of Horizontal, CITP  
Carlos Vasquez, RA, Project Manager, CITP

# City of Miami



DANIEL J. ALFONSO  
City Manager

August 29, 2016

Janet Zimmerman, Assistant Executive Director  
Florida Inland Navigation District  
1314 Marcinski Rd  
Jupiter, Florida 33477

RE: Biscayne Bay Spoil Island C Tiki Shelter to Swim Area, B-30825C  
Project No. SI-MI-14-02

Dear Ms. Zimmerman:

The City of Miami respectfully requests a one-year extension of time for the above referenced agreement. Mr. Spencer Crowley recommended for the continued use of this FINE grant to fund other park amenities and improvements to the waterfront along the Spoil Island C.

Your approval to extend the grant agreement would be gratefully appreciated. Should you have any questions, do not hesitate to contact me at (305) 416-1225.

Sincerely,

Jeovanny Rodriguez, P.E.  
Director

JR/wj

c: Hector Badia, Assistant Director, CITP  
Lillian Blondet, Director, Office of Grants Administration  
Lai-Wan McGinnis, Budget & Financial Reporting Administrator, OMB  
Giraldo Marquez, P.E., Chief of Horizontal, CITP  
Carlos Vasquez, RA, Project Manager, CITP

**ALCALDE & FAY**

GOVERNMENT &amp; PUBLIC AFFAIRS CONSULTANTS

August 26, 2016

**MEMORANDUM**

**TO:** Mark Crosley, Executive Director  
Janet Zimmerman, Assistant Executive Director

**FROM:** Jim Davenport

**SUBJECT: Federal Legislative Report**

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**FY 2017 ENERGY AND WATER APPROPRIATIONS BILL**

Congress is more than halfway through a seven week recess that began on July 18<sup>th</sup>. They are scheduled to return the day after Labor Day. Prior to recess, Congress failed to make significant progress on fiscal year (FY) 2017 appropriations legislation, including the Energy and Water Appropriations Bill. House Republicans are considering postponing all work on FY 2017 appropriations bills until later this year or when new president takes office next year. Members are reluctantly coming to the realization that there is almost no time left to pass regular spending bills for the fiscal year that begins October 1, 2016, and House conservatives are recoiling at the idea of having to negotiate an omnibus appropriations bill in November or December with President Barack Obama in his final weeks in office.

**LEGISLATIVE LANGUAGE PERTAINING TO COMPENSATORY MITIGATION**

With a compressed fall calendar, it might be difficult for Congress to find the time, or the will, to pass a Water Resources Development Act (WRDA). As you know, we received revised language from the U.S. Army Corps of Engineers (USACE) clarifying that compensatory mitigation is not required for maintenance dredging by non-federal entities in authorized waterways. We sent the revised language to the Water Resources Subcommittee Minority Staff for review, and have followed up, but have not heard back. We are hopeful that the new language will be accepted by Subcommittee staff as they move forward with WRDA.

We will continue to keep you apprised of our efforts.