

PRELIMINARY AGENDA

FLORIDA INLAND NAVIGATION DISTRICT Board of Commissioners Meeting

9:00 a.m., Friday, April 14, 2023

**Hammock Beach Resort
200 Ocean Crest Drive
Palm Coast (Flagler County), Florida, 32137-3272**

Item 1. Call to Order.

Chair Blow will call the meeting to order.

Item 2. Pledge of Allegiance.

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

Item 3. Roll Call.

Secretary Boehning will call the roll.

Item 4. Consent Agenda.

The consent agenda items are presented for approval. Commissioners may remove any items from this agenda that they have questions on or would like the Board to discuss in depth. Any items removed would then be included in the regular agenda in an order assigned by the Chair.

- a) Waterway Cleanup Assistance to Volusia County for the Annual International Coastal Cleanup, Volusia County, FL.
- b) LagoonKeepers.org Small-Scale Derelict Vessel Removal Program Application, Palm Beach County, FL.
- c) Waterway Cleanup Assistance to the Marine Industries Association of the Treasure Coast (MIATC) for the Annual Treasure Coast Waterway Cleanup in Indian River, St. Lucie and Martin Counties, FL.

(Please see back up pages 5-21)

RECOMMEND: Approval of the Consent Agenda.

Item 5. Additions or Deletions.

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

RECOMMEND: Approval of a Final Agenda.

Meeting Agenda

April 14, 2023

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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.*

Item 7. **Board Meeting Minutes.**

The minutes of the following meetings are presented for approval.

- March 17, 2023 – Personnel Committee Mtg. *(Please see back up pages 22-23)*
- March 17, 2023 – Finance & Budget Com. Mtg. *(Please see back up pages 24-25)*
- March 17, 2023 – Board Meeting *(Please see back up pages 26-32)*

RECOMMEND: Approval of the minutes as presented.

Item 8. **Staff Report on Flagler County Area Status and Projects.**

Staff will present a report on the District's Flagler County area status and projects.

(Please see back up pages 33-43)

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

Item 9. **Comments and Project Status from the U.S. Army Corps of Engineers.**

Staff of the U.S. Army Corps of Engineers (USACE) Intracoastal Waterway Project Management is scheduled to present an update on projects and activities.

(Please see back up pages 44-55)

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

Item 10. **Material Storage Area 617-C Final Preliminary Design and Approval, Palm Beach County, FL**

On September 10, 2021, the Board approved a preliminary path forward for the design of Material Storage Area (MSA) 617-C in northern Palm Beach County. At that time, it was requested that Taylor Engineering return with partially complete plans to share with the Board. Staff and Taylor Engineering have worked with Commissioner Isiminger and members of the site's surrounding community to develop a site that could be utilized for typical hydraulic dredging as well as the storage and transport of bulk materials (ex. rock, lumber, mechanical dredged material etc.), and reduce visual and activity impacts to the surrounding community. Taylor Engineering will provide a brief presentation of the preferred design for MSA 617-C.

(Please see back up page 56)

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

Item 11. **Presentation of a Disaster Relief Application - City of Stuart Boardwalk and Pier Repairs, Martin County, FL.**

In accordance with Rule 66B-2.0061 Disaster Relief, applications may be submitted to the District and considered by the Board at any time during the year to aid an eligible applicant with the removal of navigation obstructions, and for the repair or replacement of waterway facilities damaged by a declared natural disaster. Eligibility continues by noting that the District shall consider these applications in accordance with the applicable sections of Rule 66B-2.

On Wednesday, November 9, 2022, the City of Stuart's boardwalk, docks, and pile guides suffered damage as a result of Hurricane Nicole. Approximately 40 linear feet (LF) of boardwalk and 10-LF of guardrail behind City Hall were damaged and had to be closed to the boating public and pedestrians. Additionally, two finger piers broke loose and were floating in the river. The excessive wave action impacted numerous stainless steel pile guide assemblies rendering them unusable. The total cost of repairs is estimated at \$155,339.00. The City of Stuart is seeking reimbursement for 25% of the total cost of emergency repairs which equals \$38,800.00.

The FY 2022-2023 FIND Budget allocated \$3,000,000 for Disaster Relief, of which \$2,750,000 is currently available for new requests on a first-come, first-served basis. In accordance with the referenced rules and procedures, the Applicant will present their project and the Board will rate and evaluate the project. If the project scores an average of 35 or above, the Board can award the requested funding accordingly.

(Please see back up pages 57-80)

RECOMMEND: Review and consideration of City of Stuart's request for Disaster Relief funding for Boardwalk and Pier Repairs in the amount of \$38,800.00, Martin County, FL.

Item 12. **Scope of Professional Services and Cost Proposal for the Design, Engineering and Permitting of a Material Transfer Area at Hoover Dike (HD)-1, Martin County, FL.**

Taylor Engineering has prepared a scope of work and fee quote for the design, engineering and permitting of Material Transfer Area (MTA) HD-1. This site is unique as it is a U.S. Army Corps of Engineers (USACE) easement inside the Lake Okeechobee dikes and will take additional coordination with the USACE, South Florida Water Management District etc. prior to design and permitting.

This site would be primarily be utilized for the transfer of construction materials and dredged material to and from the lake. This is identified in the 50-year Long Range Dredged Material Management Plan, and is essential for supporting management operation of the Okeechobee Waterway (OWW) within the lake. In addition, the site would prove to be useful to other lake management agencies and interests.

(Please see back up pages 81-133)

RECOMMEND: Approval of a scope of professional services and fee quote in the amount of \$295,638.50, (including \$99,000.00 for geotechnical sub-consultant work) for the design, engineering and permitting and HD-1, Martin County, FL.

Meeting Agenda

April 14, 2023

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Item 13. 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.

Item 14. Tallahassee Report.

The District's state governmental relations firm has submitted a status report concerning activity on state issues that could be of interest to the District.

(Please see back up pages 134-139)

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

Item 15. Washington D.C. Report.

The District's federal governmental relations firm has submitted status reports concerning activity pertaining to the District's federal issues.

(Please see back up pages 140)

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

Item 16. Personnel Committee Report.

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

(Please refer to the Personnel Committee Agenda Package)

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

Item 17. Additional Staff Comments and Additional Agenda Items.

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Item 18. Additional Commissioners Comments.

Item 19. 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.

PRELIMINARY CONSENT AGENDA
FLORIDA INLAND NAVIGATION DISTRICT
Board of Commissioners Meeting

9:00 a.m., Friday, April 14, 2023

Hammock Beach Resort
200 Ocean Crest Drive
Palm Coast (Flagler County), Florida, 32137-3272

Item a. **Waterway Cleanup Assistance to Volusia County for the Annual International Coastal Cleanup in Volusia County.**

Volusia County has submitted a request for its Annual International Coastal Cleanup Project in Volusia County. The District has funded this cleanup for many years, and it has been very successful. The request is for \$5,000. The proposal is consistent with the District's program rules.

(Please see back up pages 6-10)

RECOMMEND: Approval of the request from Volusia County for assistance funding for the 2023 International Coastal Cleanup project in Volusia County in an amount not to exceed \$5,000.

Item b. **LagoonKeepers.org Small-Scale Derelict Vessel Removal Program Application, Palm Beach County, FL.**

Lagoon Keepers.org has submitted a funding assistance request for the removal of one (1) derelict vessel located on the District's waterways within Palm Beach County. The total project cost is estimated to be \$9,100.00 Consistent with Rule 66B-2.015, Small-Scale Derelict Vessel Removal Projects, the project is eligible for up to 75% District funding reimbursement. LagoonKeepers.org is requesting \$6,825.00 (75%) District funding reimbursement.

(Please see back up pages 11-14)

RECOMMEND: Approval of LagoonKeepers.org request for up to \$6,825.00 cost-share funding through the District's Small-Scale Derelict Vessel Removal Projects program, Palm Beach County, FL.

Item c. **Waterway Cleanup Assistance to the Marine Industries Association of the Treasure Coast for the Annual Treasure Coast Waterway Cleanup in Indian River, St. Lucie and Martin Counties.**

The Marine Industries Association of the Treasure Coast (MIATC) has submitted a funding request for its Annual Treasure Coast Waterway Cleanup Project in Indian River, St. Lucie, and Martin Counties. The District has funded this cleanup for many years, and it has been very successful. The request is for \$5,000 per county, for a total of \$15,000. The proposal is consistent with the District's program rules.

(Please see back up pages 15-21)

RECOMMEND: Approval of the request from Marine Industries Association of the Treasure Coast (MIATC) for funding assistance with the Annual Treasure Coast Waterway Cleanup Project in Indian River, St. Lucie and Martin Counties in an amount not to exceed \$15,000.



Growth and Resource Management Department
 Environmental Management
 440 S. Beach Street, Daytona Beach, FL 32114
www.volusiaseaturtles.org

March 9, 2023

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

Dear Mr. Crosley:

This letter is a request for the Governing Board's consideration for Waterway Cleanup Assistance in the amount of \$5,000 to help fund the annual East Volusia Beach and River, International Coastal Cleanup on September 16, 2023. This annual event has been sponsored by F.I.N.D. since 2012. Prior to that date, two separate events which were the Halifax and Indian River Lagoon (HIRL) and Ocean Conservancy International Coastal Cleanup (ICC) were also supported by F.I.N.D.

In 2022, this popular event was once again well attended and a large quantity of trash was removed from our waterways and beaches. The event garnered a total of **1,566 volunteers**. In total, participants cleaned **8,500 pounds of trash and recyclables** from Volusia County coastlines via walking, motor boats, paddleboards and kayaks.

During this annual event, participants not only remove and dispose of the trash and recyclables from our waterways, but also record the types of trash found through the Ocean Conservancy's "CleanSwell" app or on a data card provided by the organization. In total during **2022, 58,982 total trash items** were collected and recorded by volunteers. A summary of the top ten items are included in the table below. These categories are historically the most common items found. In 2021, cutlery (plastic, paper & foam) were in the top ten list as well with 808 counted.

<u>Top Ten Trash Items Found During Clean-ups</u>	<u>2020 Total</u> <u>Items</u>	<u>2021 Total</u> <u>Items</u>	<u>2022 Total</u> <u>Items</u>
Cigarettes/Cigarette Filters	8,036	22,156	20,771
Plastic/ Foam Pieces	9,403	10,069	10,958
Bottle Caps, Lids (Plastic)	3,801	3,081	3,687
Food Wrappers/Containers (Plastic & Foam)	2,362	3,714	3,308
Glass Beverage Bottles & Beverage Cans	1,319	2,764	3,009
Beverage Bottles (Plastic)	917	1,521	1,732
Other Waste	1,550	2,544	1,692

Straws & Stirrers	859	1,343	1,548
Other Plastic Waste	38	827	1,457
Other bags (plastic)	741	1,165	1,397
<i>Top Ten Total Items Removed</i>	<i>29,026</i>	<i>49,184</i>	<i>49,559</i>

More clean-up information and photographs from the 2022 event can be viewed at our website at www.volusia.org/cleanup.

2023 event planning has begun and the thirty three (33) proposed cleanup site locations for 2023 are listed below. Also enclosed is a map showing these locations, indicating which sites are along the river or beach. The Project Budget Estimate is also enclosed. We are looking forward to another successful event in 2023.

Meeting Site Name	Meeting Location Address	City
Highbridge Park (Ormond Scenic Loop sites)	35 High Bridge Rd	Ormond Beach
Tomoka State Park (Ormond Scenic Loop sites)	2099 N. Beach St.	Ormond Beach
Sea Oats Terrace Area	Sea Oats Terrace	Ormond-By-The-Sea
Bicentennial Park	1800 N. Oceanshore Blvd.	Ormond-By-The-Sea
Tom Renick Park	1575 Oceanshore Blvd.	Ormond-By-The-Sea
Sanchez Park	329 Sanchez Ave.	Ormond Beach
Granada Approach	Granada Approach	Ormond Beach
Andy Romano Park	839 S. Atlantic Ave.	Ormond Beach
Sunrise Park South	1135 Riverside Dr.	Holly Hill
Sunsplash Park	611 S. Atlantic Ave.	Daytona Beach
City Island Park	105 E. Magnolia Ave.	Daytona Beach
Van Avenue Park	3101 S. Atlantic Ave.	Daytona Beach Shores
Riverside Pavillion Park	3431 Ridgewood Ave.	Port Orange
Port Orange Causeway Park	93 Dunlawton Ave.	Port Orange
Dahlia Park	3625 S. Atlantic Ave.	Daytona Beach Shores
Toronita Approach	Toronita Approach	Wilbur by the Sea
Winter Haven Park	4589 S. Atlantic Ave.	Ponce Inlet
Spruce Creek Preserve/ Doris Leeper Park	30 Divito Dr.	New Smyrna Beach
Inlet Harbor Walkover	Inlet Harbor Walkover	Ponce Inlet
Lighthouse Point Park (Beach)	5000 S. Atlantic Ave.	Ponce Inlet
Lighthouse Point Park (River)	5000 S. Atlantic Ave.	Ponce Inlet
NSB Jetty area	NSB Jetty area	New Smyrna Beach
Smyrna Dunes Park	2995 N. Peninsula Ave.	New Smyrna Beach
Turnbull Bay	2880-2902 Sunset Dr.	New Smyrna Beach
North Beach Community Park	Sapphire Road & North Atlantic Ave.	New Smyrna Beach
Flagler Beach Park	100 Buenos Aires	New Smyrna Beach
Callalisa Creek	429 East 3 rd Avenue	New Smyrna Beach
Smyrna Yacht Club	1201 S. Riverside Drive	New Smyrna Beach

27th Ave. Park	3701 S. Atlantic Ave	New Smyrna Beach
George Kennedy Park	103 N Riverside Dr.	Edgewater
Hiles Blvd. approach	Hiles Blvd. approach	New Smyrna Beach
Mary McLeod Bethune Beach Park	6656 S. Atlantic Ave.	New Smyrna Beach
River Breeze Park	250 H.H. Burch Rd.	Oak Hill

Historically, the Governing Board has generously supported the work of Volusia County and approval of this request would continue that valued tradition. Environmental Management is honored to coordinate this event and will administer the grant funds according to program guidelines.

If I can be of further assistance regarding this request, please contact me at anytime at (386) 238-4716 or aputillo@volusia.org.

Sincerely,

Alexa Putillo

Alexa Putillo, Cleanup Coordinator/Habitat Conservation Plan Field Manager
County of Volusia Environmental Management Division
440 S. Beach Street
Daytona Beach, FL 32114
(386) 238-4716
(386) 238-4772 (fax)

cc: Jennifer Winters, Protected Species Activity Manager
Jaymie Reneker, Sea Turtle HCP Program Manager

**FLORIDA INLAND NAVIGATION DISTRICT
WATERWAY CLEANUP ASSISTANCE PROGRAM**

PROJECT BUDGET ESTIMATE

PROJECT TITLE: East Volusia Beach and River International Coastal Cleanup

APPLICANT: Volusia County Environmental Management

Expenditures	Estimated Cost (\$)	Applicant Responsibility (\$)	FIND Proposed Assistance (\$)
Staff mileage	250	250	0
Staff coordination time	3,500	3,500	0
Other misc. supplies	300	300	0
Advertising	Unknown	All	0
Gloves	200	200	0
Posters (donated by the Ocean Conservancy)	Unknown	0	0
Garbage bag (donated by the Ocean Conservancy)	Unknown	0	0
Trash/ recyclable material removal (beach sites) (donated by CFB Outdoors)	Unknown	0	0
Trash removal (river sites) (donated by Waste Pro)	Unknown	0	0
Tipping Fees at landfill (sponsored by Keep Volusia County Beautiful)	Unknown	0	0
Pavillion Rentals (donated by Volusia County Coastal Division, Volusia County Parks & Recreation, Ormond Beach Leisure Services, City of New Smyrna Beach, City of Holly Hill, City of Daytona Beach, City of Port Orange, Edgewater Leisure Services)	Unknown	0	0
Promotional participant give-away	5,000	0	5,000
Total Expenses:	\$9,250.00	\$4,250.00	\$5,000.00

ATTACHMENT A
FLORIDA INLAND NAVIGATION DISTRICT
SMALL-SCALE DERELICT VESSEL REMOVAL PROGRAM APPLICATION

Applicant: LagoonKeepers.org

Project Title: "Glory B"

Contact Person: Gregory Reynolds

Title: Executive Director

Address: 901 West 15th Street

Riviera Beach Zip Code: 33404

Telephone: 561-255-6974 Fax: 561-828-7700

Email: gregory@Lagoonkeepers.org

Number of Vessels and waterway locations: one
(Please include pictures and map locations on a separate worksheet)

Vessel Distance from the Intracoastal Waterway appx 200' north of Gateway Marina

Total Estimated Costs to removal all vessels: \$ 9,100.00 ; FIND Funding Requested: \$ 6,825.00
% of total cost: 75 . Please complete and attach a cost estimate sheet (Form # 01-06) for each vessel to be removed, in addition to a contractor bid sheet)

Amount and Source of Applicants Matching Funds: Palm Beach County ERM 25% \$2,275.00


Other (non-FIND) Assistance applied for (name of program and amount) -

Have all vessels been identified by the Florida Fish & Wildlife Conservation Commission (FFWCC) (or other applicable marine law enforcement agency) as derelict? yes If not, explain: -

Have all necessary permits and or approvals been approved for the removal of the derelict vessels? yes

If not, please explain: -

I hereby certify that the information provided in this application is true and accurate.

SIGNATURE:  DATE: 3-28-2023

ATTACHMENT B

**FLORIDA INLAND NAVIGATION DISTRICT
SMALL-SCALE DERELICT VESSEL REMOVAL PROGRAM APPLICATION**

PROJECT COST ESTIMATE

(See Rule Sections 66B-2.005, 2.008 & 2.015 for eligibility and funding ratios)

APPLICANT: LagoonKeepers.org

PROJECT: "Glory B"

VESSEL LOCATION AND IDENTIFICATION: appx 200' north of Gateway Marina, FL 7822 HK

Project Elements <i>(Please list the project cost elements and provide a general cost break out for each one.)</i>	Quantity Estimated Cost (Number or cost per vessel)	Applicant's Cost	FIND Cost
FL 7822 HK, 26' sailboat; Raise, pump, tow, haul out, transport, remove all environmental sensitive materials, complete disposition of the vessel, prepared and transported to the landfill.	\$ 9,100.00	\$ 2,275.00	\$ 6,825.00

**** TOTALS =** \$ 9,100.00 \$ 2,275.00 \$ 6,825.00

ATTACHMENT C
Small-Scale Derelict Vessel Removal Projects Funding Policy
(Rule 66B-2.015)

Proposals shall be accepted for financial assistance for the removal of derelict vessels within the District's waterways. The applicable provisions of this rule apply to these applications with the following additions or exceptions:

(1) Application Procedure — Applications shall be submitted on a completed FIND Form No. 05-01 (effective date 04-24-06), hereby incorporated by reference and available from the District office. Applications may be submitted to the District and considered by the Board at any time during the year.

(2) The District shall only fund applicants that have identified derelict vessels to be removed and have an outstanding bid for removal for such vessels, subject to eligibility under these program rules.

(3) The program must be sponsored by an eligible government agency or not-for profit organization.

(4) District funding shall be limited to \$75,000 per county, per year, provided on a reimbursement basis only.

(5) The eligible applicant must provide the remaining matching funds for project completion. In no case shall the District's cost-share contribution exceed 75% of the total project costs. In-house project management or administration costs are not eligible costs or matching costs.

(6) The derelict vessel must be located in, the District's waterways, as defined in subsection 66B-2.003(28) "Waterways".

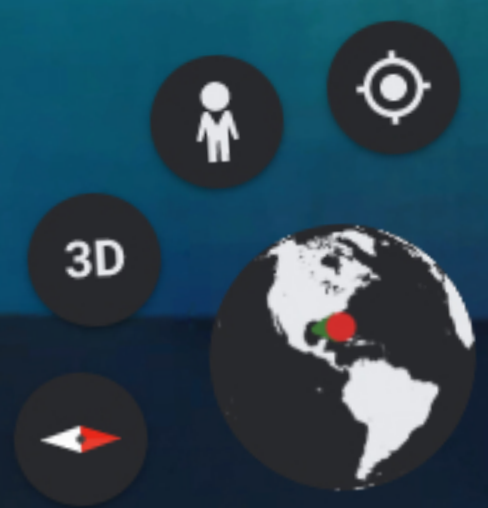
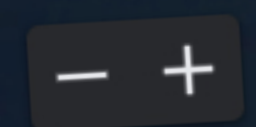
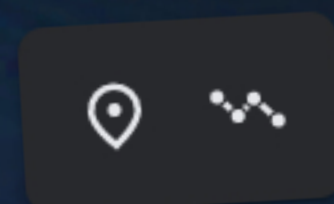
(7) The District shall be recognized when possible in all written, audio or video advertising and promotions as a participating sponsor of the program.

(8) The funding provided by the District shall only be allocated for removal of derelict vessels. The District is providing program reimbursement funds only and shall be held harmless with regards to the activities initiated by the applicant.

(9) The applicant shall be responsible for all maintenance, management, disposal and operating expenses associated with the program.

(10) Funds derived from the sale of any derelict vessels or vessel parts removed through this grant program must be reinvested into the applicant's derelict vessel removal program.

(11) The District Board shall make all final decisions concerning the provision of funding for this program.



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March 28, 2023

Janet Zimmerman
Florida Inland Navigation District
1314 Marcinski Road
Jupiter, FL 33477

Dear Ms. Zimmerman:

The Marine Industries Association of the Treasure Coast will be conducting the 16th Annual Treasure Coast Waterway Clean Up in Indian River County, to be held in conjunction with the St. Lucie and Martin County cleanups on Saturday, July 22, 2023. Since 2008, our combined efforts have removed 99.25 tons of trash from our waterways. We have engaged more than 13,500 volunteers and boaters.

This is our request for FIND sponsorship for the event. Our request is for \$5,000. In addition to FIND sponsorship we will be soliciting local businesses for sponsorship. Our proposed budget is included.

Our plan is to conduct a three county wide coordinated effort to clean up the Intracoastal Waterway including the spoil islands, Taylor Creek and the North Fork of the St. Lucie River. We will utilize the similar drop off locations as in 2022, as well as our weeklong self-reporting component.

As we enter our 16th year, we are excited to continue this community event and to demonstrate our commitment to safe and responsible boating on the Treasure Coast.

I look forward to your response. Please feel free to contact me at (772) 692-7599, if you have any questions.

Sincerely,

Justin Beard,
Executive Director

16th Annual Treasure Coast Waterway Clean Up
(proposed budget)

16

Income:

MIATC Sponsorships (includes in-kind)	\$ 15,500
FIND Sponsorship	5,000

Total Income:	\$ 20,500

Expenses Supported by FIND Grant:

Advertising Materials (includes printing, mailings, brochures, banners and posters)	400
Media (news releases, photo services, television, radio, social media & print media)	6,000
Promotional Supplies (t-shirts & burgees)	3,500
Insurance	700
Logistical Supplies (trash bags, gloves, trash hauling, law enforcement, park and recreation fees and water)	5,200
Other Expenses:	
Staff Support (includes committee meetings)	\$ 4,700

Total Expenses:	\$ 20,500





March 28, 2023

Janet Zimmerman
Florida Inland Navigation District
1314 Marcinski Road
Jupiter, FL 33477

Dear Ms. Zimmerman:

The Marine Industries Association of the Treasure Coast will be conducting the 16th Annual Treasure Coast Waterway Clean Up in St. Lucie County, to be held in conjunction with the Indian River and Martin County cleanups on Saturday, July 23, 2023. Since 2008, our combined efforts have removed 99.25 tons of trash from our waterways. We have engaged more than 13,500 volunteers and boaters.

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Sincerely,

Justin Beard,
Executive Director

16th Annual Treasure Coast Waterway Clean Up
(proposed budget)

18

Income:

MIATC Sponsorships (includes in-kind)	\$ 15,500
FIND Sponsorship	5,000

Total Income:	\$ 20,500

Expenses Supported by FIND Grant:

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Promotional Supplies (t-shirts & burgees)	3,500
Insurance	700
Logistical Supplies (trash bags, gloves, trash hauling, law enforcement, park and recreation fees and water)	5,200
Other Expenses:	
Staff Support (includes committee meetings)	\$ 4,700

Total Expenses:	\$ 20,500





March 28, 2023

Janet Zimmerman
Florida Inland Navigation District
1314 Marcinski Road
Jupiter, FL 33477

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Sincerely,

Justin Beard,
Executive Director

16th Annual Treasure Coast Waterway Clean Up
(proposed budget)

20

Income:

MIATC Sponsorships (includes in-kind)	\$ 15,500
FIND Sponsorship	5,000

Total Income:	\$ 20,500

Expenses Supported by FIND Grant:

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Media (news releases, photo services, television, radio, social media & print media)	6,000
Promotional Supplies (t-shirts & burgees)	3,500
Insurance	700
Logistical Supplies (trash bags, gloves, trash hauling, law enforcement, park and recreation fees and water)	5,200
Other Expenses:	
Staff Support (includes committee meetings)	\$ 4,700

Total Expenses:	\$ 20,500



Site Disposal List

16th Annual Treasure Coast Waterway Cleanup

	Site Name	Contact Name	Site Address	Home/Office #	Cell #	E-Mail Address
	Martin County:			April Price (772) 285-1646		
1	Shephard Park	Anne Ellig	600 SW Ocean Blvd., Stuart, FL 34994	(772) 600-1206	(772) 321-1013	aellig@ci.stuart.fl.us
2	Blowing Rocks	Kate Tillary	574 South Beach Road, Hobe Sound, FL 33455-2804	(561) 744-6668 ext. 103	(321) 482-3305	Kate.Brown@TNC.org
3	Indian Riverside Park Boat Ramp	Mimi Adkins	Indian River Drive, Jensen Beach, FL 34957		(203) 214-3626	Mimi.adkins@gmail.com
4	Jensen Beach Cswy Boat Ramp	Jim Moir	SE Jensen Beach Cswy, Jensen Beach, FL 34957		(772) 341-4953	jbmoir@aol.com
5	Jimmy Graham Boat Ramp	Jay Booth	8555 SE Gomez Avenue, Hobe Sound, FL 33455		(561) 929-7657	JayBooth@adt.com
6	Leighton Park	Thomas Triarsi	1701 SW Cornell Ave., Palm City, FL 34990		(305) 684-5828	triarsi@i@mail.irsc.edu
7	Manatee Park	Butch Olsen	Park and Bayview, Port Salerno, FL		(772) 263-1735	butchnett@gmail.com
8	Sandsprit Park	Michelle Miller	3443 SE St. Lucie Boulevard, Stuart, FL 34997		(561) 758-9130	mmiller.miatc@gmail.com
9	Stuart Causeway Boat Ramp	Rosemary Badger	6500 SE Ocean Blvd, Stuart, FL 34997	(772) 225-0505, ext 109	(772) 359-2144	rbadger@floridaocean.org
	St. Lucie County:			Valerie Lindh (772) 486-6460		
10	C24 Canal Park	Georgette Beck/Judith Sekscenski	500 SE Oakridge Drive, Port St. Lucie, FL 34984	(786) 362-0981 Georgette	(772) 285-9713 Judy	gbeck@cityofpsl.com / judithsellsflorida@gmail.com
11	Fort Pierce Yacht Club	Forest Blanton	700 N. Indian River Drive, Ft. Pierce, FL 34950		(954) 205-8105	commodorefpyc@gmail.com
12	Jaycee Park	Sharon Stanish	S. Ocean Dr. & Melaleuca Dr., Ft. Pierce, FL 34949		(954) 483-7644	sharon.stanish@gmail.com
13	Manatee Center/ Moore's Creek BR	Wren Underwood	480 N. Indian River Dr, Ft. Pierce, FL 34950	(772) 466-1600 ext 3337	(863) 835-1252	underwood@fpua.com
14	River Park Marina @ Prima Vista	Terry Knorrston	500 E Prima Vista Blvd., PSL 34952		(772) 342-8092	katsdrago03@gmail.com
15	Safe Harbor Harbortown	Allison Ledlow	1936 Harbortown Dr., Ft. Pierce, FL 34946	(772) 466-7300		aledlow@shmarinas.com
16	Smithsonian	Roger Templeton	414 Seaway Dr., Ft. Pierce, FL 34949	(772) 408-8175	(248) 640-9711	411@cadcondesign.com
17	Stan Blum Boat Ramp	Irene Arpayoglou	North Beach Causeway, Ft. Pierce, FL 34946	(772) 429-2995 ext 24	(772) 828-0691	Irene.Arpayoglou@dep.state.fl.us
18	Veteran's Memorial Park @ Rivergate	Isabelle Briand	2200 SE Veteran's Memorial Parkway, Pt. St. Lucie, FL 34952		(772) 240-6713	IsabelleMBriand@gmail.com
19	White City Park	Tessa Roberts	2081 W Midway Road, Fort Pierce, FL 34981	(772) 785-5833		robertst@stlucieco.org
	City of Ft. Pierce Grapple Truck:	Ernest R.			772-361-3635	
	Indian River County:					
20	Riverside Park Boat Ramp	Christopher Spagnolia	Riverside Dr. @ SE end of the Merrill Barber Bridge 32963		(701) 425-2623	cspagnolia2019@fau.edu
21	Sebastian Inlet Marina	Dori Carroll	8685 US1., Micco, FL 32976	(772) 664-8500		doric@sebastianinletmarina.com
22	Sebastian Main Street Boat Ramp	Kim Haigler	Main Street and N. Indian River Dr., Sebastian, FL 32958	(772) 388-8206	(321) 332-8981	khaigler@cityofsebastian.org
23	Vero Beach Municipal Marina	Sean Collins	3611 Rio Vista Blvd, Vero Beach, FL 32963	(772) 231-2819		scollins@covb.org
24	Wabasso Cswy Park Boat Ramp (SR 510)	Meghan Carpenter	1820 Wabasso Beach Rd., Vero Beach, FL	(772) 589-5050 ext. 106	(605) 212-7641	meghan@discoverelc.org
	Auxiliary Groups(not public sites):					
25	Stuart Beach / SLRPS	Stephen Shultz		772-220-7545	404-771-7158	stephen.shultz@edwardjones.com
26	Venture III/ Holiday Out	Cheryl Bryson	10701 S. Ocean Dr. #687, Jensen	(772) 233-5478		cherylbryson@bellsouth.net
27	North Beach Association on North Hutchinson Island	Sharon Stanish			(954) 483-7644	sharon.stanish@gmail.com
	April Price (772) 285-1646		Valerie Lindh (772) 486-6460			

3/29/2023

**MINUTES OF THE
FLORIDA INLAND NAVIGATION DISTRICT's**

Personnel Committee Meeting

8:30 a.m., Friday, March 17, 2023

**Hampton Inn & Suites Downtown
611 20th Place
Vero Beach (Indian River County), Florida, 32960-5443**

ITEM 1. Call to Order.

Chair Blow called the meeting to order at 8:30 am.

ITEM 2. Roll Call.

Assistant Executive Director Janet Zimmerman called roll and Chair Blow and Commissioners Crowley, Boehning, Davenport, and Williams were present. Ms. Zimmerman stated a quorum was present. Also present was Executive Director Mark Crosley.

ITEM 3. Additions or Deletions.

There were no additions or deletions to the agenda.

ITEM 4. Public Comments.

There were no public comments.

ITEM 5. Assistant Executive Director Candidate Review.

Ms. Zimmerman stated that the top seven candidates' resumes have been placed before the red page in the agenda. There are four of the seven candidates that staff recommends for interviews.

Committee Chair Crowley stated that he has reviewed all of the resumes and worked with staff to come up with a shortlist of four candidates to interview if the rest of the committee agrees.

Commissioner Davenport noted that he concurred with this shortlist of candidates that staff has come up with unless other members of the Board would like to include anyone else.

Commissioner Boehning stated there was an incredible response and diverse number of applicants, and supported moving forward with the four recommended candidates.

Commissioner Williams motioned to move forward with the top four candidates in Committee Chair Crowley's memorandum. Commissioner Davenport seconded the motion. All were in favor and the motion passed unanimously.

Mr. Crosley noted that staff is recommending a workshop in April before the Board meeting to interview the candidates before Thursday's outreach. The candidates will be invited to the outreach as well.

The Commissioners discussed starting the interview process earlier in the day to give everyone enough time without rushing the process.

ITEM 6. Additional Agenda Items or Staff Comments.

There were no additional items or staff comments.

ITEM 7. Additional Commissioners Comments.

Commissioner Davenport asked if a final decision will be made at the April Board meeting. Mr. Crosley noted that he was hoping to have a final ranking of the applicants by the meeting but there is still plenty of time if a decision cannot be made.

ITEM 8. Adjournment.

The meeting was adjourned at 9:26 am.

Spencer Crowley, Committee Chair

Attest: Stephen Boehning, Secretary

(SEAL)

**MINUTES OF THE
FLORIDA INLAND NAVIGATION DISTRICT
Finance and Budget Committee Meeting
8:45 a.m., Friday, March 17, 2023
Hampton Inn & Suites Downtown
611 20th Place
Vero Beach (Indian River County), Florida, 32960-5443**

ITEM 1. Call to Order.

Commissioner Sansom called the meeting to order at 9:03 a.m.

ITEM 2. Roll Call.

Assistant Executive Director Janet Zimmerman called the roll and Commissioners Gernert, Davenport, Boehning, Blow, and Sansom were present. Ms. Zimmerman stated a quorum was present. Also in attendance were Executive Director Mark Crosley and Finance Director Glenn Scambler.

ITEM 3. Additions or Deletions.

There were no additions or deletions. Chair Blow motioned to approve the agenda as presented. Commissioner Davenport seconded the motion. All were in favor and the motion passed unanimously.

ITEM 4. Public Comments.

There were no public comments.

ITEM 5. Financial Statements for December 2022 and January 2023.

Mr. Crosley presented the District's December 2022 and January 2023 financial statements. He noted that Mr. Scambler is shopping rates for the CDs that are maturing and that interest rates are rising close to 5%. He noted that there is approximately \$2M in accounts payable, which mostly reflects grant funds. He stated that tax collections are continuing to come in through January.

Commissioner Boehning asked if any emergency funds have been distributed. Ms. Zimmerman stated that St. Augustine requested funds to repair marina breakwater, but no other finalized grant applications are ready for review. The Commissioners discussed the emergency funding process and the Clean Marina program.

Chair Blow motioned to approve the Financial Statements for December 2022 and January 2023. Commissioner Boehning seconded the motion. All were in favor and the motion passed unanimously.

ITEM 6. December 2022 and January 2023 Budget Summary and Project Status Expenditure Reports.

Mr. Crosley presented the Budget Summary and Project Status Expenditure Reports for December 2022 and January 2023. He asked questions and there were none.

ITEM 7. Delegation of Authority Report.

Mr. Crosley noted a change order on page 46 with Petticoat-Schmitt for DMMA SJ-14 and discussed an update at SJ-14 for the Board. He noted that the pipeline was completed on time and the dredging project is ready to begin. He stated that staff is recommending letting the contractor depart and FIND completing the site restoration after the dredging project is complete at the District's expense. The committee concurred.

ITEM 8. Additional Agenda Items or Staff Comments.

There were no additional items or staff comments.

ITEM 9. Additional Commissioners Comments.

There were no additional commissioner comments.

ITEM 10. Adjournment.

Commissioner Sansom stated that hearing no further business the meeting was adjourned at 9:29 am.

Carl Blow, Chair

Attest: Stephen Boehning, Secretary

(SEAL)

**MINUTES OF THE
FLORIDA INLAND NAVIGATION DISTRICT
Board of Commissioners Meeting
9:00 a.m., Friday, March 17, 2023
Hampton Inn & Suites Downtown
611 20th Place
Vero Beach (Indian River County), Florida, 32960-5443**

ITEM 1. Call to Order.

Chair Blow called the meeting to order at 9:42 a.m.

ITEM 2. Pledge of Allegiance.

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

ITEM 3. Roll Call.

Secretary Boehning called the roll and Chair Blow, Vice Chair Crowley, Commissioners Gernert, Cuozzo, Davenport, Isiminger, Sansom, Stapleford, and Williams were present. Commissioner O'Steen was absent. Ms. Zimmerman stated that a quorum was present. Also in attendance were Executive Director Mark Crosley, Finance Director Glenn Scambler, Attorney Peter Breton, Ms. Jessica Fentress of Volusia County, and Mr. Jim Marino and Mr. Jerry Scarborough of Taylor Engineering.

ITEM 4. Consent Agenda.

Commissioner Sansom motioned to approve the consent agenda. Commissioner Boehning seconded the motion. All were in favor and the motion passed unanimously.

ITEM 5. Additions or Deletions.

Chair Blow asked if there were any additions or deletions of the agenda. Mr. Crosley stated he would like to include the Personnel Committee report as Item 13b and the Finance and Budget Committee report as Item 13c. He also has additional information about shoaling in Jupiter to discuss under staff comments. Commissioner Isiminger declared a conflict of interest for Item 13b. Commissioner Boehning motioned to approve the agenda as modified. Commissioner Davenport seconded the motion. All were in favor and the motion passed unanimously.

ITEM 6. Public Comments.

There were no public comments.

ITEM 7. Board Meeting Minutes.

Chair Blow asked if there were any comments or questions regarding the January 20, 2023, Board Meeting minutes and Finance minutes. There were none. Commissioner Stapleford motioned to approve the minutes as presented. Commissioner Cuzzo seconded the motion. All were in favor and the motion passed unanimously.

ITEM 8. Staff Report on Indian River County Area Status and Projects.

Mr. Crosley reviewed the status report for Indian River County projects beginning on page 78 of the agenda. He stated the District is looking to build DMMA IR-14, and plans to relocate a FDOT ditch. There were no additional questions or comments.

ITEM 9. Comments and Project Status from the U.S. Army Corps of Engineers.

Mr. Eduardo Marin, the IWW Project Manager with the U.S. Army Corps of Engineers (USACE), reviewed the status of DMMA O-23 and noted that USACE was able to award the stormwater conflict modification last week. He noted that the current settlement is around \$400k, half of what the Board approved. The completion date is estimated for May 30.

For IWW Palm Valley South Reach, the NTP was issued on March 1.

At IWW Volusia, USACE submitted a work order request for the Corps to hopper dredge to provide temporary relief for this area. Placements will be in the nearshore disposal area located south of Ponce Inlet. In addition to Ponce Inlet, there will also be a small component for the Coast Guard included within the procurement. He noted USACE received the FDEP permit modification, however there is a condition that USACE is working to get removed.

Mr. Crosley noted that executing the work order gives USACE the most flexibility.

Mr. Crosley stated that the District had a navigation project scheduled for this area, and there is critical sand shoaling here. The County had significant beach erosion north of the inlet, but has no permits or easements to place sand there. The County has requested that the USACE delay navigation dredging so they can get easements and permits to place sand on the north side of inlet. Staff is concerned it will take the County a while to resolve the easement issue. He suggested having USACE vessel Murden come in to keep navigation open and allow time for the offloading of MSA-434, and for the County to get the permits.

Commissioner Sansom motioned to approve the work order. Commissioner Davenport seconded the motion. All were in favor and the motion passed unanimously.

Mr. Marin stated that at AIWW Sawpit Reach, USACE has to collect advanced maintenance hydrographic survey data. They are currently on schedule with Matanzas dredging but there is not enough manpower to do both projects at the same time and suggested moving Sawpit to April 2024.

Mr. Crosley asked for a general consensus from the Board that delaying Sawpit is concerning.

Commissioner Williams stated this is critical but not critically shoaled at this point, and the idea of FIND taking it on might be a good idea.

Mr. Marin noted that at IWW Matanzas, USACE is working with design and tracking with advertisement in June and awarding in August. They anticipate a combination of Federal funding and FIND contributed funds.

Under miscellaneous, Mr. Marin noted that the contributive funds agreement is slowly moving along and currently going through USACE attorney review.

ITEM 10. Volusia County Beach Erosion Control District Update.

At the January 2023 Board meeting, staff from the Volusia County Beach Erosion Control District approached the Board for additional beach-quality material from Dredged Material Management Area (DMMA) V-26 (in Edgewater) to be utilized for emergency beach and dune repairs.

At that meeting, the County also inquired about material available at Material Storage Area (MSA) 434-S (aka Rattlesnake Island), located near Ponce Inlet. Approximately 550,000 cubic yards of beach compatible material is available to the County that could be placed on the beaches to the north of the inlet. Originally this material was scheduled to be removed in conjunction with the forthcoming Intracoastal Waterway (IWW) maintenance dredging project by the U.S. Army Corps of Engineers (USACE). As previously noted, the offloading of MSA 434-S can be delayed awaiting Volusia County to secure permits and easements for the beaches north of the inlet. However, shoaling along this area of the IWW is becoming critical, and the dredging project cannot be delayed and must move forward.

Ms. Fentress stated that Volusia County has executed a \$5M grant from Governor DesSantis' office. Part of the funding is for full offload of V-26. Ms. Fentress discussed Volusia County's plan for the use of trap bags as temporary control measures for sand placement on private beach properties to maintain sand until permits are in place. Once the County receives FDEP

permits, they will place sand on the Volusia beaches. The County is working with Taylor Engineering on a county-wide feasibility study, and an RFQ is out now for the offloading of MSA 434.

Commissioner Stapleford motioned to approve the material removal agreement for the offloading of MSA 434. Commissioner Davenport seconded the motion. All were in favor and the motion passed unanimously.

ITEM 11. Scope of Professional Services and Cost Proposal for the Design and Permitting of Material Storage Area MSA 504-C, Martin County, FL.

Taylor Engineering has prepared a scope of work and fee quote for the design and permitting of the recently acquired/reconfigured Material Storage Area (MSA) 504-C, located near Hobe Sound in south Martin County. With Board approval, the District completed the reconfiguration and partial exchange of this site with the neighboring Loblolly Association. The timing is favorable to move forward with the development of this site, one of the District's identified long-term permanent facilities.

Taylor has provided a thorough and fair cost-plus estimate for this work. With Board approval and completion of this phase, site construction could begin within two (2) to three (3) years.

Commissioner Cuzzo motioned to approve the scope and fee quote. Commissioner Sansom seconded the motion. All were in favor and the motion passed unanimously.

ITEM 12. Tallahassee Report.

Mr. Crosley reviewed the report from Mr. Jon Moyle beginning on page 151 of the agenda.

He stated that the Town of Palm Beach Shores is pursuing state funding for the dredging of the channel northeast side of Peanut Island.

ITEM 13. Washington D.C. Report and Contract Renewal.

Mr. Crosley reviewed the Washington, D.C., report beginning on page 157 of the agenda. He stated that staff is planning a trip to Washington, D.C., around the third week of April and it will be beneficial to meet newly-elected officials who may not be aware of FIND.

In addition, the three (3) year contract with the District's federal legislative coordinator, Mr. Jim Davenport with Thorn Run Partners (TRP), LLC., will expire in April of 2023. Commissioner Cuzzo motioned to approve the three-year agreement for Mr. Davenport. Commissioner Sansom seconded the motion. All were in favor and the motion passed unanimously.

Commissioner Sansom suggested that Mr. Davenport be aware of how supportive Congressman Bean has been to the District.

ITEM 13b. Personnel Committee Report.

Commissioner Isiminger declared a conflict of interest for this item and provided the form to Ms. Zimmerman. Mr. Crosley noted that he is able to discuss the item but cannot vote.

Chair Blow stated that the committee agreed to move forward with interviewing the four candidates that were included in the March 14 memorandum. Commissioner Cuzzo motioned to approve the report. Commissioner Davenport seconded the motion. All were in favor and the motion passed unanimously.

ITEM 13c. Finance Committee Report.

Commissioner Sansom motioned to approve the Finance Committee report to the full Board. Commissioner Boehning seconded the motion. All were in favor and the motion passed unanimously.

ITEM 14. Office Update.

The current District office at 1314 Marcinski Road was constructed in 1987. The original configuration was developed for two staff members and included a space for meetings for the eleven (11) Board members. Over the years the office was adopted to accommodate up to six (6) staff members, and provide working areas for large maps, copiers, file cabinets, etc.

The office has not been updated since its original construction. It is in need of (at minimum): a new roof; new windows; updated lighting; updated electrical and communications, new flooring and air conditioning units (2), and general space configuration. With the digitization of most of the District's paper records, numerous file cabinets have been placed in storage, freeing up space to construct a proper area for servers for a needed office network, as well as a small break room.

The only way to properly conduct this renovation would be to temporarily relocate staff and perform the necessary improvements while the building is unoccupied. The Bureau of Land Management (BLM) has office space available near the historic Jupiter Lighthouse. These former Coast Guard quarters are in need of minor improvements to allow them to be useable. The BLM has proposed to allow FIND to utilize one of these buildings in return for building improvements, in lieu of lease payments.

The Commissioners discussed permits and building codes.

Commissioner Sansom asked if staff wanted to stay in the current location, which they agreed they do.

Commissioner Williams motioned to approve the lease agreement with the Bureau of Land Management. Commissioner Boehning seconded the motion. All were in favor and the motion passed unanimously.

ITEM 15. Additional Staff Comments and Additional Agenda Items.

Mr. Crosley stated that he received notification of major shoaling issues at Jupiter that has developed within the last few months. The District has a dredging project scheduled at Jupiter and Crossroads a year off, but dredging needs to be done sooner. FIND has a great cooperative relationship with the Jupiter Inlet District. Mr. Crosley noted that it may be possible for the contractor currently dredging their sand trap to remove 10k c/y to maintain navigation.

Mr. Jim Marino stated that this is a critical section in terms of traffic and it is a safety issue. He suggested dredging a larger amount of material to be safer.

Commissioner Isiminger motioned to authorize staff, with Taylor's assistance, to negotiate the removal of up to 25k c/y of material. Commissioner Davenport seconded the motion.

The Commissioners discussed the possibility of funding from FEMA.

Commissioner Davenport motioned to amend the motion to go up to 30k c/y. All were in favor and the motion passed unanimously.

Ms. Zimmerman stated that grant applications are due by 4:30 pm on March 27.

Ms. Zimmerman discussed the logistics of the upcoming waterway tour.

ITEM 16. Additional Commissioners' Comments.

Commissioner Davenport noted a shoal is emerging at the north bridge in New Smyrna that needs attention, and also thanked staff and the Board for the outreach.

Commissioner Isiminger thanked Commissioner Boehning for the outreach and noted it was good to see everyone.

Commissioner Sansom stated he was sorry to miss the outreach, and it was good to see everyone in person again.

Commissioner Cuzzo was also sorry to miss the outreach but happy to be at the meeting.

Commissioner Stapleford thanked Commissioner Boehning and staff for a great outreach.

Commissioner Boehning thanked the Board for coming up to Vero Beach.

Commissioner Williams noted he was sorry to miss the outreach in person. He noted that during the meeting, he learned that another shoal is emerging at NA-1 that will need attention quickly.

ITEM 17. Adjournment.

Chair Blow adjourned the meeting at 12:11 pm.

Carl Blow, Chair

Attest: Stephen Boehning, Secretary

(SEAL)



FLAGLER COUNTY PROJECT STATUS UPDATE

APRIL 2023

Dredged Material Management Plan

Phase I of the Dredged Material Management Plan for the Intracoastal Waterway in Flagler County was completed in 1993. Phase II of the DMMP was completed in 1994 and updated in 2016. All major land acquisition was completed in 1996. *(Please see the attached maps).*

The revised (2016) 50-year dredging projection for the 20 miles of channel in Flagler County is 771,830 cy/yds and the storage projection is approximately 1,659,434 cy/yds, a slight *decrease* from previous estimates. However, estimated volumes in Reach I have increased significantly.

Phase I construction has been completed for all three upland sites in Flagler County, DMMA FL-3, DMMA FL-8 and DMMA FL-12. All the sites have been fenced and the buffer of DMMA FL-12 was landscaped several years ago. Stabilization of the shoreline of DMMA FL-8 has been completed along with the installation of a pedestrian pathway along the shoreline that connects an existing waterfront walkway to the City of Palm Coast's Waterfront Park. Plans, specifications and permitting for DMMA FL-3 were completed in 2013. Construction of this site was completed in 2015 and received material from the 2019 maintenance dredging project. In 2023, Flagler County signed an agreement to remove material from the site for shoreline restoration.

Waterway Dredging

Routine maintenance dredging of the Intracoastal Waterway in the vicinity of the Matanzas Inlet and in Cut F-2 was completed in September of 2011, March of 2017 and in late 2019. The 2019 USACE project removed an estimated 350,000 cu/yds of material from the waterway, some of which originated from Hurricane Dorian. All of these projects placed the beach-quality material on the beaches at Summer Haven south of the inlet. In addition, the District contracted for a maintenance dredging project in Flagler Reach I in late 2019, moving an estimated 180,000 cu/yds of material into DMMA FL-3. The area is again scheduled for maintenance dredging in 2023.

Waterways Economic Study

The Flagler County Waterways Economic Study was completed in 2002 and updated in 2011 and 2018. It is currently undergoing another general, District-wide update. The latest update found that the waterway related businesses in the county employ over 1,300 people, with boaters alone contributing \$22 million of the annual total economic impact of \$137 million. Property values were determined to be increased by approximately \$456 million due to the presence of the IWW channel. There are approximately 5,000 registered vessels in the county. *(Please see the attached map).*

Waterways Assistance Program

Since 1986, the District has provided \$3.5 million in Waterways Assistance Program funding to 35 projects in the County having a total constructed value of \$8.2 million. The County, the City of Flagler Beach, Marineland and the City of Palm Coast have all participated in the program. *(Please see the attached listing).*

Notable projects funded include: Bings Landing; Moody; Grand Haven South and North Park boat ramps; Marineland Marina; and Flagship Harbor Preserve.



FLAGLER COUNTY PROJECT STATUS UPDATE

APRIL 2023

Cooperative Assistance Program

The District's Cooperative Assistance Program has provided funding assistance to 23 projects with elements in Flagler County. Notable projects include: Florida Marine Patrol Officer Funding; Manatee Acoustic Warning System; FWC Officer Equipment Funding; and Environmental Education Exhibits at Gamble Rogers State Park. The District's funding assistance for the Flagler County portion of these projects was approximately \$492,100.

Interlocal Agreement Program

The District's Interlocal Agreement Program (which is a sub-set of the WAP and CAP programs) has provided funding assistance to two projects. The District's funding assistance for the Flagler County portion of these projects was approximately \$25,000.

Waterway Clean Up Program

The District has consistently partnered with the City of Palm Coast for many years on waterway cleanup projects in Flagler County, in the amount of \$5,000 per year.

Small-Scale Derelict Vessel Removal Program

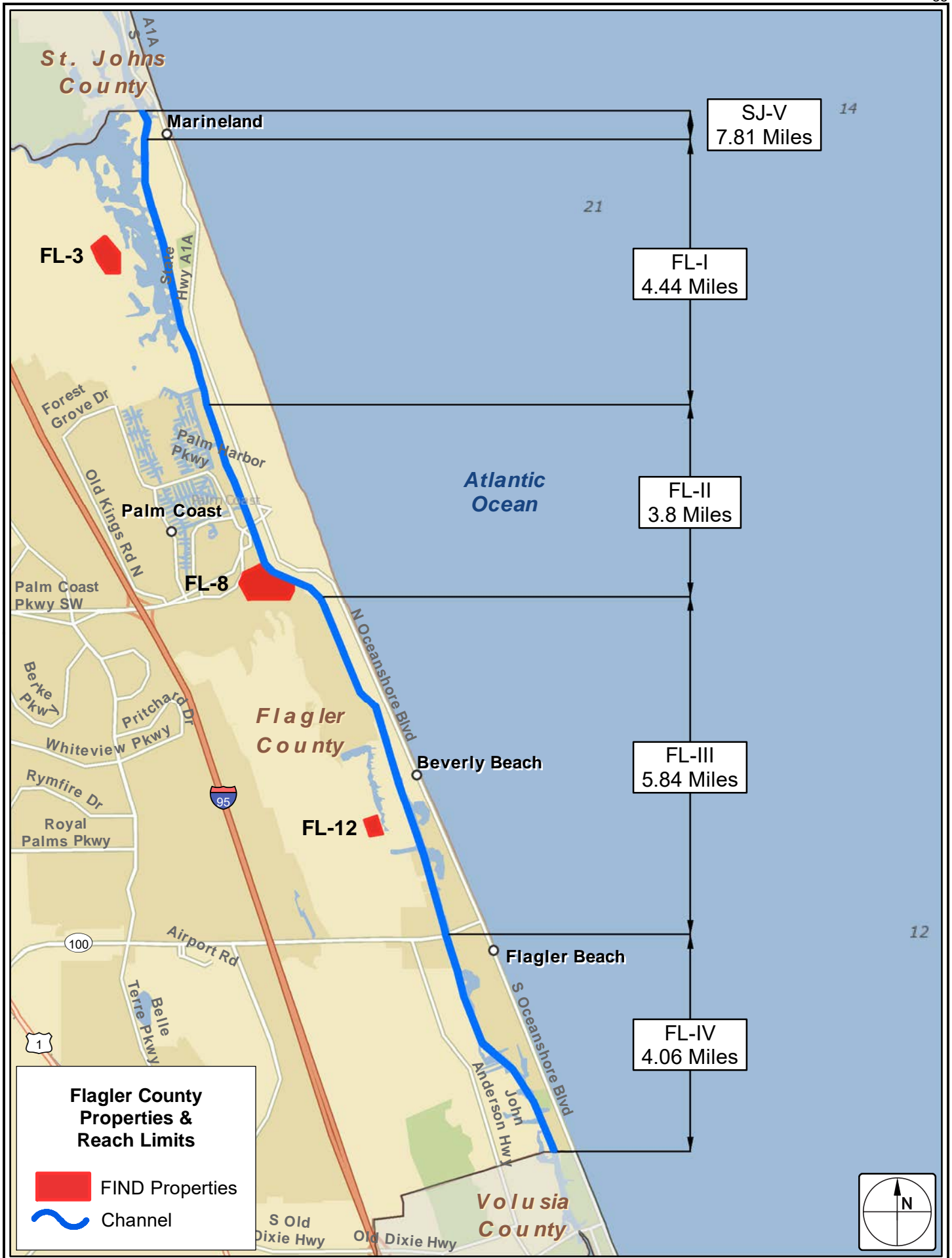
Flagler County and the Town of Marineland have previously participated in the Small-Scale Derelict Vessel Removal Program with \$13,240 in District-contributed funding.

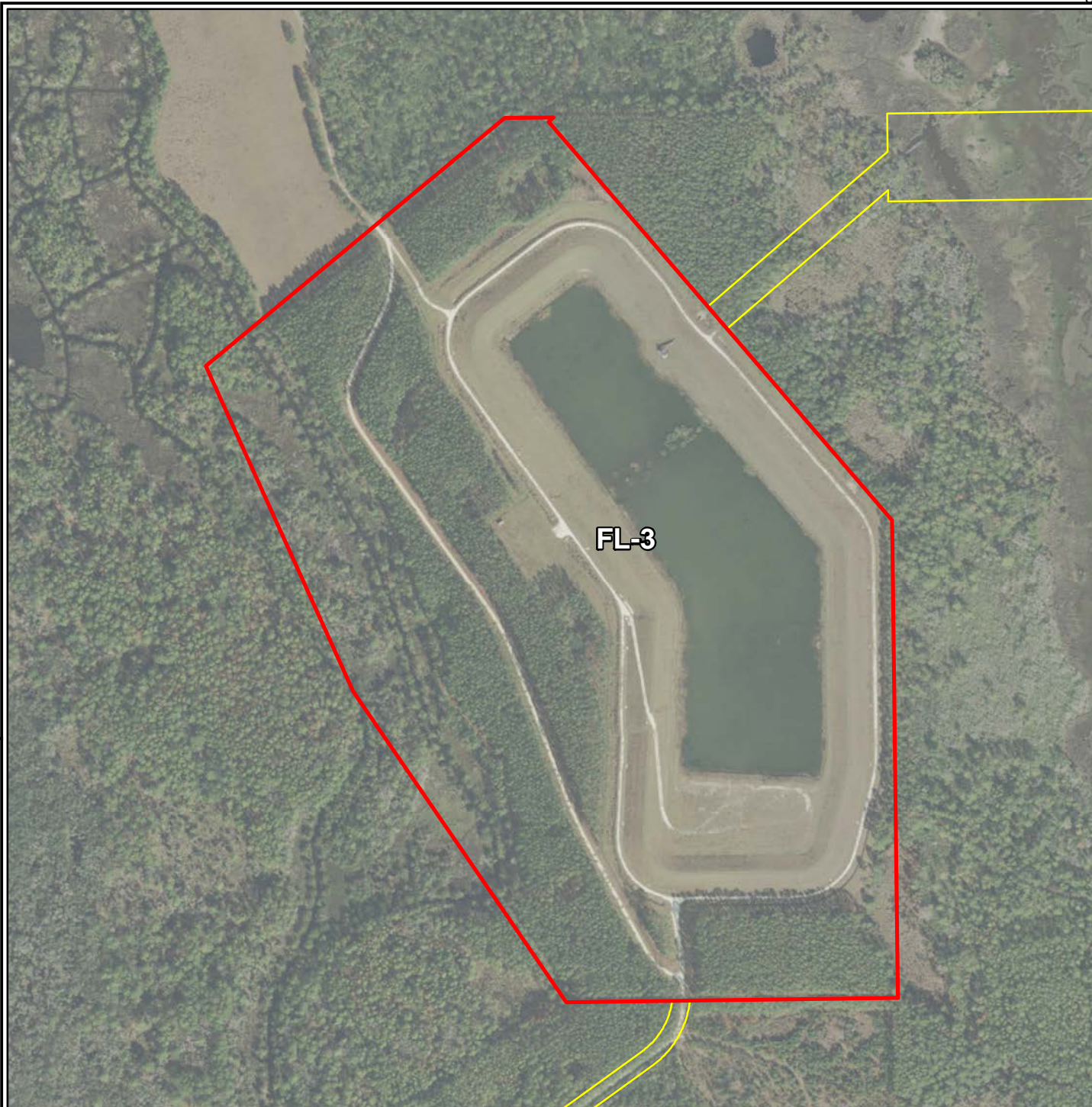
Small-Scale Spoil Island Enhancement and Restoration Program

To date, no spoil island enhancement or restoration projects have been funded in Flagler County.

Public Information Program

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



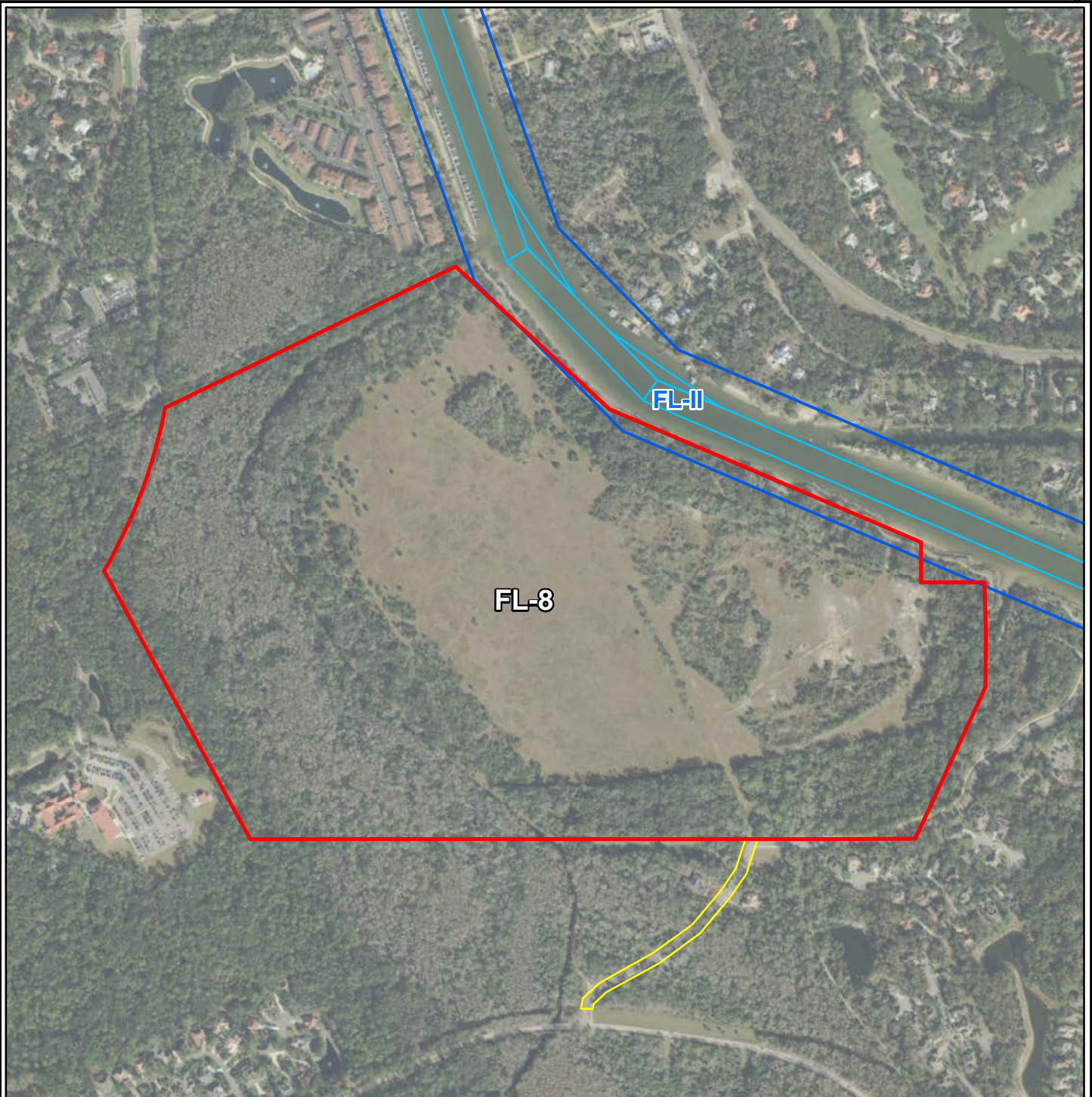


Site	FL-3
Common Name	Flagler South
County/City	Flagler/Unincorporated
Geographic Proximity	Marineland to N/Canal, Palm Coast
Acquisition Dates	11/13/1996, 9/19/1997
Status	Constructed
Year Constructed	2015
Reach/Cuts	FL-1 / F-2 to F-10
Site Acres	106.3
Basin Acres	44.29
Design Capacity (cy)	777,740

0 250 500 750 1,000 1,250 1,500
Feet

Legend

- Property Boundary
- Easement (if shown)
- Reaches (if shown)
- Cuts (if shown)



Site	FL-8
Common Name	Flagler North Site
County/City	Flagler/Palm Coast
Geographic Proximity	N. Canal, Palm Coast to N. End Fox Cut
Acquisition Dates	12/21/1989, 11/13/1996, 12/9/1997
Status	Property Acquired
Year Constructed	NA
Reach/Cuts	FL-II / F-11 to F-19
Site Acres	213.5
Basin Acres	101.22
Design Capacity (cy)	1,767,893

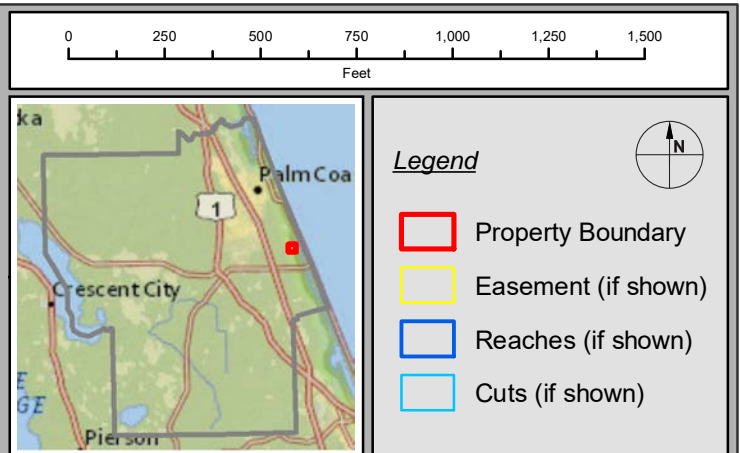
0 750 1,500 2,250
Feet

Legend

- Property Boundary
- Easement (if shown)
- Reaches (if shown)
- Cuts (if shown)



Site	FL-12
Common Name	Flagler Central Site
County/City	Flagler/Palm Coast
Geographic Proximity	N. End/Fox Cut to Flagler/Volusia County Line
Acquisition Dates	11/13/1996, 12/9/1997
Status	Property Acquired
Year Constructed	NA
Reach/Cuts	FL-III & IV / F-20 to F-32
Site Acres	37.4
Basin Acres	10.13
Design Capacity (cy)	101,476



Economic Benefits of the District Waterways

FLAGLER COUNTY



TOTAL ANNUAL ECONOMIC IMPACT

Annual value created by the ICW and ICW activities

\$137 MILLION

\$85 Million¹

Generated annually by **tourism spending** from 77,000 tourists



\$22 Million²

Generated annually by local **boater spending** from Flagler County registered vessels



\$29 Million³

Portion of annual **property sales value** attributable to ICW proximity.



The **UF Whitney Laboratory for Marine Bioscience** is one of many important operations located along the ICW in Flagler County. It is home to 9 faculty-led research laboratories with over 70 researchers and staff who study biology and its applications.

The Intracoastal Waterway (Marine I-95) currently supports **1,304 jobs** in Flagler County.

FIND INVESTMENT

In the ICW of **\$11,670**⁴ annually avoids lost revenue of **\$12 Million** and **131** lost jobs.



ADDITIONAL TAX BENEFITS

Federal Tax Revenue



\$10 Million

State and Local Tax Revenue



\$9 Million

Registered Vessels Utilizing the ICW: 4,922⁵



⇒ Pleasure Boating: 3,002



⇒ Fishing: 1,329



⇒ Sailing and other activities: 98



⇒ Watersports: 492

¹ Includes both in-state and out-of-state tourists. Out-of-state tourist number based on a national survey; respondents who reported ICW in Flagler County as a primary activity. In-state tourists reported visiting from outside Flagler County; based on survey results, respondents who reported ICW in Flagler as a primary activity

² Based on survey of locally registered boaters, adjusted for boaters spending 3 or more days on the ICW

³ Based on hedonic modelling of premium associated with frontage or proximity to ICW; Flagler County property values total about \$12 billion. Details for all calculations can be found in Final Report.

⁴ The average annual investment from FIND to dredging projects. Does not reflect the total average annual cost of dredging projects.

⁵ Based on actual 2017 registration data and survey results. This number is an estimate of the number of registered vessels that utilize the ICW annually.

Economic Benefits of the District Waterways

FLAGLER COUNTY



Within Flagler County, The Florida Inland Navigation District (District) is the state sponsor for Federal navigation projects along the Intracoastal Waterway (ICW). Nearly \$3 million has been invested in the Flagler portion of the ICW in the past 10 years. These investments and the ICW itself generate significant economic impact throughout the twelve-county region and beyond.

Different modeling techniques were used to estimate the value created by the ICW. To find the share of property value that is attributable solely to the proximity to the ICW, hedonic modeling was used. Hedonic modeling for Flagler County showed that proximity to the Intracoastal Waterway adds value to homes within 1500m of the ICW. In total, the ICW makes up about \$489 million, or 4%, of the \$12 billion in Flagler County property values. Annualized, the ICW makes up about \$29.3 million in actual sales value yearly.

Portion of Property Value Attributable to ICW Proximity

Property Type	% of sales value attributable to proximity to ICW	Sales value attributable to ICW—all properties
Waterfront	35%	\$169 million
Canal/River Access to ICW	20%	\$118 million
Non waterfront - 500m from ICW	10% - 7%	\$145 million
500m - 1500m from ICW	5% - 2%	\$64 million



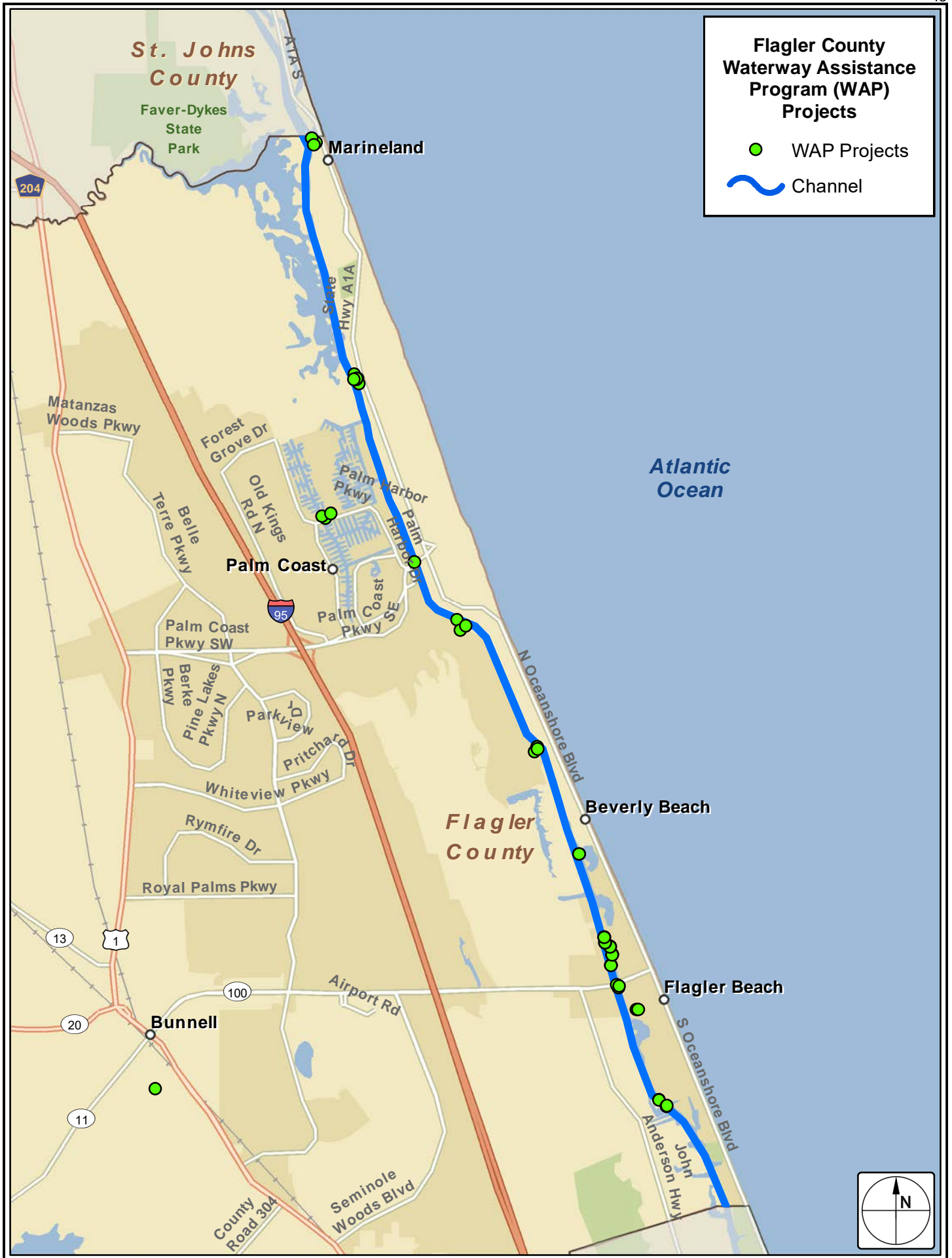
**Waterways Assistance Program Projects
Flagler County 1986-2022**

PROJECT NUMBER	PROJECT NAME	PROJECTS SPONSER	GRANT AMOUNT	TOTAL COST
FL-07-13	Bing's Landing Park Addition Improvements - Phase I	Flagler County	\$25,000.00	\$105,000.00
FL-09-15	Bing's Landing Addition County Park	Flagler County	\$80,310.00	\$160,620.00
FL-09-16	Bing's Landing Dredging	Flagler County	\$93,750.00	\$187,500.00
FL-1	Moody Boat Ramp	Flagler County	\$40,000.00	\$80,000.00
FL-12-18	Accessibility Improvements At Bing's Landing	Flagler County	\$64,040.00	\$151,540.00
FL-12-19	Bing's Landing Restroom & Basin Dock	Flagler County	\$76,900.00	\$182,850.00
FL-12-20	Eyes On Navigation	Flagler County	\$22,210.00	\$50,000.00
FL-14-23	FCSO Boating Safety Program	Flagler County Sheriff's Off	\$30,000.00	\$60,000.00
FL-15-25	Boater Improvements at Herschel King Park	Flagler County	\$62,436.00	\$124,872.00
FL-15-26	Moody Boat Launch & Restroom	Flagler County	\$113,187.00	\$226,374.00
FL-20-30	Bing's Landing Seawall and Access Improvements	Flagler County	\$100,000.00	\$200,000.00
FL-88-2	East Bridge Park Dev. (Transferred to Moody Boat Ramp)	Flagler County	\$38,000.00	\$160,000.00
FL-90-3	Bings Landing Park Development	Flagler County	\$66,000.00	\$132,000.00
FL-93-4	Flagship Harbor Preserve - Phase I	Flagler County Board Of Co	\$71,996.00	\$135,479.00
FL-96-5	Flagship Harbor Preserve - Phase I I	Flagler County Board Of Co	\$52,468.00	\$104,936.00
FL-98-7	Grand Haven South Park - Phase I	Flagler County	\$72,743.97	\$235,075.37
FL-99-8	Flagler County Sheriff's Office Marine Unit	Flagler County Sheriff's Off	\$55,500.00	\$74,000.00
FL-FB-00-9	Public Navigation Channel Dredging - Phase I I	City Of Flagler Beach	\$75,000.00	\$150,000.00
FL-FB-01-10	Public Navigation Dredging - I I	City Of Flagler Beach	\$90,000.00	\$109,500.00
FL-FB-02-11	Smith's Creek Shoreline Stabilization	City Of Flagler Beach	\$17,200.00	\$30,000.00
FL-FB-18-29	Pal Parker Park and Kayak Launch, Part I (2018-22)	City of Flagler Beach	\$196,663.00	\$393,325.00
FL-FB-97-6	Public Navigation Channel Dredging - Phase I (Expired)	City Of Flagler Beach	\$8,910.00	\$9,900.00
FL-MA-16-27	Marineland Marina, PH IIB	Town of Marineland	\$200,000.00	\$400,000.00
FL-ML-10-19	Marineland Marina	Town Of Marineland	\$202,160.00	\$404,320.00
FL-ML-14-24	Marineland Marina Phase B Construction	Town of Marineland	\$136,983.00	\$630,000.00
FL-ML-17-28	Marineland Marina, PH 3 (2017-2022)	Town of Marineland	\$175,000.00	\$350,000.00
FL-PC-05-12	North Park	City Of Palm Coast	\$130,810.00	\$261,620.00
FL-PC-08-14	Waterfront Park - Phase I I	City Of Palm Coast	\$296,750.00	\$653,500.00
FL-PC-09-17	Long's Landing Estuary - Phase I	City Of Palm Coast	\$75,000.00	\$150,000.00
FL-PC-13-21	Long's Landing Estuary - Phase I I	City Of Palm Coast	\$167,843.00	\$469,400.00
FL-PC-14-22	Long Creek Nature Preserve Navigational Signs	City of Palm Coast	\$10,000.00	\$20,000.00
FL-PC-20-31	Waterfront Park Part 1	City of Palm Coast	\$146,000.00	\$700,000.00

**Waterways Assistance Program Projects
Flagler County 1986-2022**

42

FL-PC-21-32	Waterfront Park Phase IIA	City of Palm Coast	\$211,250.00	\$422,500.00
FL-PC-22-33	Waterfront Park Phase IIB	City Of Palm Coast	\$175,750.00	\$351,500.00
FL-ML-22-34	Marineland Marina, PH 4	Town of Marineland	\$140,250.00	\$350,000.00
TOTALS:			\$3,520,109.97	\$8,225,811.37





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IWW STATUS UPDATE FIND Board of Commissioners Meeting April 14, 2023



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

CONTRACT AMOUNT: \$4,174,500.00

DESCRIPTION OF WORK: Development of Plans and Specifications and Construction of DMMA O-23. DMMA will utilize the same weir system as O-7 and will have a 240k cy capacity. 100% of the funds for construction will be contributed funds from FIND.

SCHEDULE:

- | | |
|-------------------------------|------------------------------------|
| • Complete draft P&S | 9 Apr 2020A |
| • NEPA/ERP complete | 20 Apr 2021A |
| • BCOE Certification complete | 20 Apr 2021A |
| • Re Advertised | 20 Jul 2021 A |
| • Open Bids | 19 Aug 2021A |
| • Award | 17 Sept 2021A |
| • Construction Complete | 17 DEC 2022 01 Nov 2023 |

FIND WORK ORDER: FIND work order for construction was approved at the Sept 2020 FIND Board meeting.

NAME OF CONTRACTOR: Contract was awarded on 17 Sept 2021 to Dickerson Florida, Inc out of Fort Pierce, FL in the amount of \$4,173,500.00.

STATUS: Clearing and grubbing has been completed. Work on the dike lifts is at approximately 75%, drainage blanket at 85%, perimeter ditch at 90%, demolition of existing structures is at approximately 98%. Earthwork for pond 1 is complete while pond 3 is 75% complete and pond 4 is 90% complete. The stormwater structure conflict modification was issued on 13 March 2023 and has added 125 calendar days to the construction completion date. Contractor's schedule shows completion of 1 November. Real estate certification at the Business Park may have to be extended further depending on the outcome of the stormwater modification.

ACTION: Information Only. No action by the Board is required.



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2. WORK ACTIVITY: IWW Palm Valley South Reach (St. Johns County)

CONTRACT AMOUNT: TBD

DESCRIPTION OF WORK: Maintenance dredging of the IWW Palm Valley South Reach in St. Johns County. There is approximately 250k cy of material within the reach. Dredge material will be placed in DMMA SJ-14.

SCHEDULE (DRAFT):

- | | |
|-------------------------------|----------------------------------|
| • Complete draft P&S | 31 March 2022A |
| • BCOE Certification complete | 30 Sep 22 02 Dec 22A |
| • Advertise | 22 Jul 22A |
| • Bid Opening | 30 Sep 22 13 Dec 22A |
| • Award | 2 March 23 12 Jan 23A |

FIND WORK ORDER: FIND work order was approved at the May 2022 Board meeting and funds have been received. The project is a combination of Federal and FIND funds.

NAME OF CONTRACTOR: Southwind

STATUS: Contractor is still mobilizing its equipment. Currently fusing dredge pipeline between IWW and DMMA SJ-14. Current schedule shows dredging commencing in early April. Return pipeline manholes appeared to be damaged. Government is inspecting the manholes to the next course of action.

ACTION: Information only. No action required by the board.



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3. WORK ACTIVITY: IWW Volusia (Volusia County)

CONTRACT AMOUNT: TBD

DESCRIPTION OF WORK: Maintenance dredging of the IWW Volusia Reach. Anticipate 300k-400k cy of material to be dredged out of the federal channel. Dredge material will be placed in the nearshore disposal area located south of the Ponce Inlet. This effort will be consolidated with Ponce Inlet O&M dredging as was done in the 2017/2018 event.

SCHEDULE (DRAFT):

- | | |
|----------------------|------------|
| • P&S Kick off | 27 Apr 22A |
| • BCOE Certification | 07 Apr 23 |
| • Advertise | 21 Apr 23 |
| • Award | 11 Jul 23 |
| • NTP | 31 Jul 23 |

FIND WORK ORDER: Board approved work order.

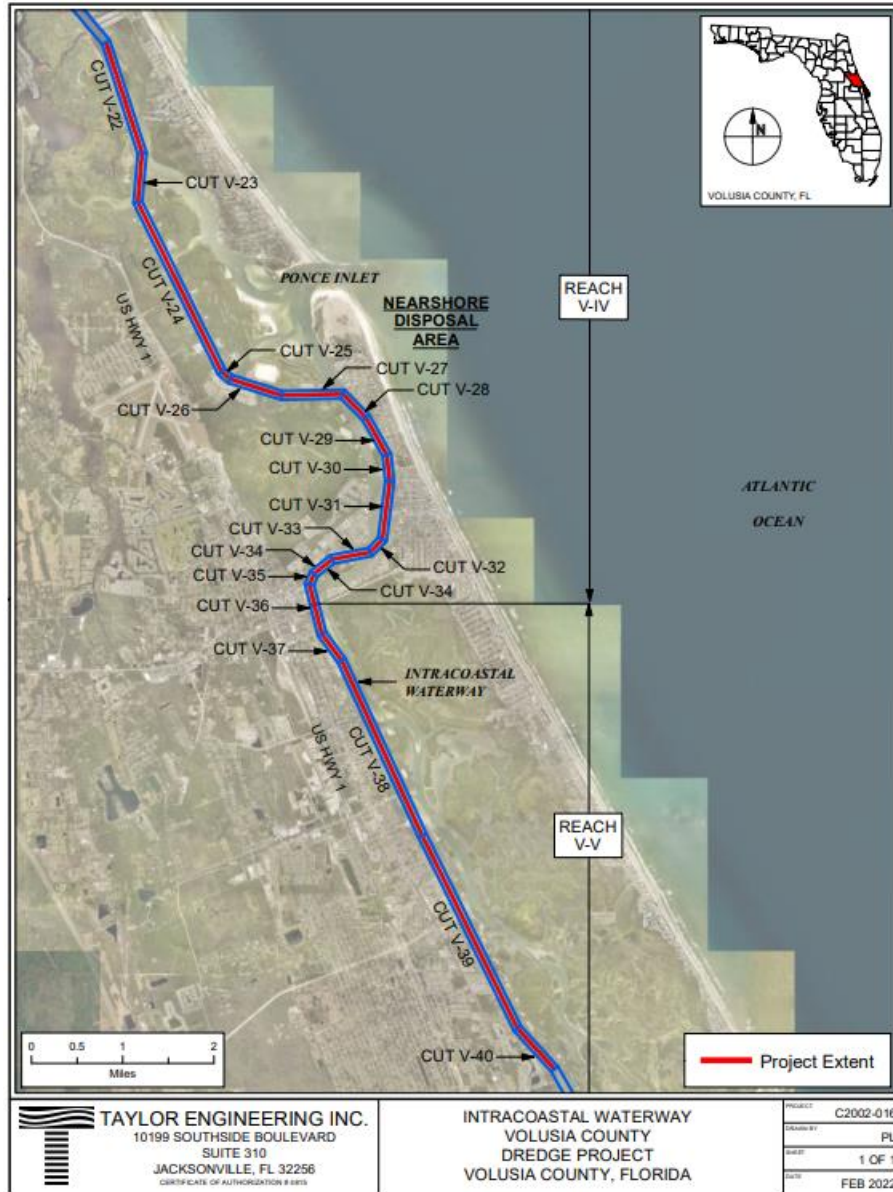
STATUS: Due to the FDEP permit condition that required additional easements, it was decided to bring in the Murden to perform emergency dredging. The Murden is to start dredging the first week of May and stay for 40-45 days. A multi-agency including FIND is being scheduled mid-April to determine a long-term solution for future dredging placement. The solution will produce a FY24 maintenance dredge event.

ACTION: Informational, no action is required by the Board.



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4. WORK ACTIVITY: AIWW Sawpit Reach (Nassau County)

CONTRACT AMOUNT: TBD

DESCRIPTION OF WORK: USACE received \$5M in infrastructure funding for the AIWW Sawpit. Project will include maintenance dredging of the AIWW Sawpit Reach in Nassau County. We anticipate 400k-600k cy of material within the federal channel. 95% of the material will be placed on the beach at the State Park, with the remaining 5% being placed upland in DU-2.

SCHEDULE (DRAFT):

- | | |
|----------------------|----------------------------------|
| • Kick off P&S | 26 Apr 22A |
| • BCOE Certification | 30 Jun 23 31 Jan 24 |
| • Advertise | 18 Jul 23 28 Feb 24 |
| • Award | 25 Sep 23 30 April 24 |

FIND WORK ORDER: TBD – anticipate a combination of Fed funding and FIND contributed funds depending on the size of the contract. If required a work order will be presented to the Board in April 23.

NAME OF CONTRACTOR: TBD

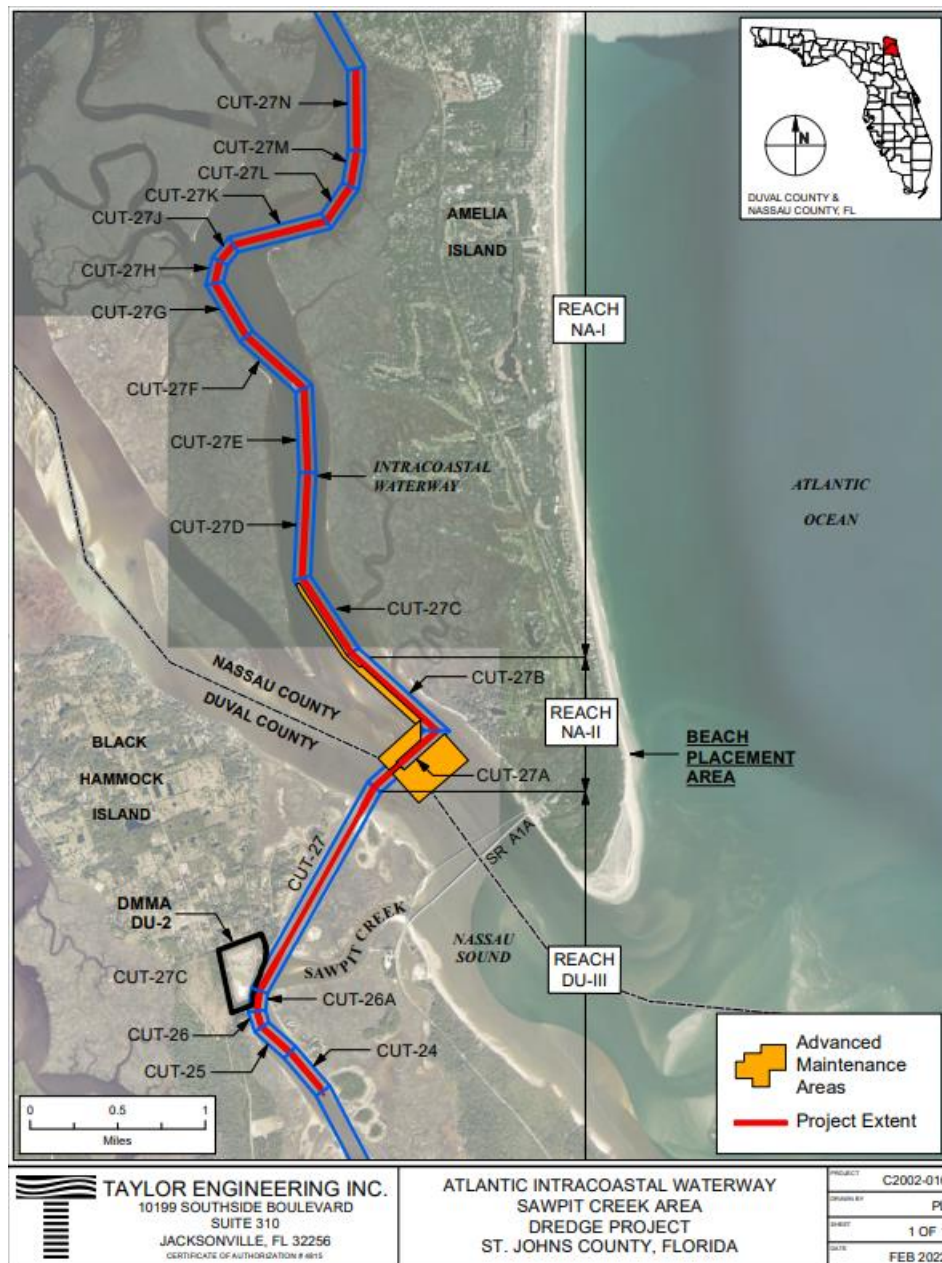
STATUS: P&S kicked off on 26 Apr 22. Real Estate is getting close to a Use Agreement between FIND, USACE and the State Park for placement on their beach. Additional hydrosurveys to respond to DEP RAI #3 is scheduled for collection in May 2023. This has pushed receiving the DEP permit potentially to September 2023. Also, due to Sawpit and Matanzas having concurrent schedules and with District limited resources, it was decided to move Sawpit into FY 24 award.

ACTION: Informational, no action is required by the Board.



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5. WORK ACTIVITY: IWW Matanzas

CONTRACT AMOUNT: TBD

DESCRIPTION OF WORK: USACE expected to receive \$4M in FY 23 President's Budget. Project will include maintenance dredging of the IWW Matanzas in Nassau County. It's anticipated that 300k-400k cy of material is within the federal channel. Placement of material will occur on the beach just south of Matanzas Inlet.

SCHEDULE (DRAFT):

- | | |
|----------------------|------------|
| • Kick off P&S | 12 Jan 23A |
| • BCOE Certification | 5 Jun 23 |
| • Advertise | 29 Jun 23 |
| • Award | 28 Aug 23 |

FIND WORK ORDER: TBD – anticipate a combination of Fed funding and FIND contributed funds depending on the size of the contract. If required a work order will be presented to the Board in April 2023.

NAME OF CONTRACTOR: TBD

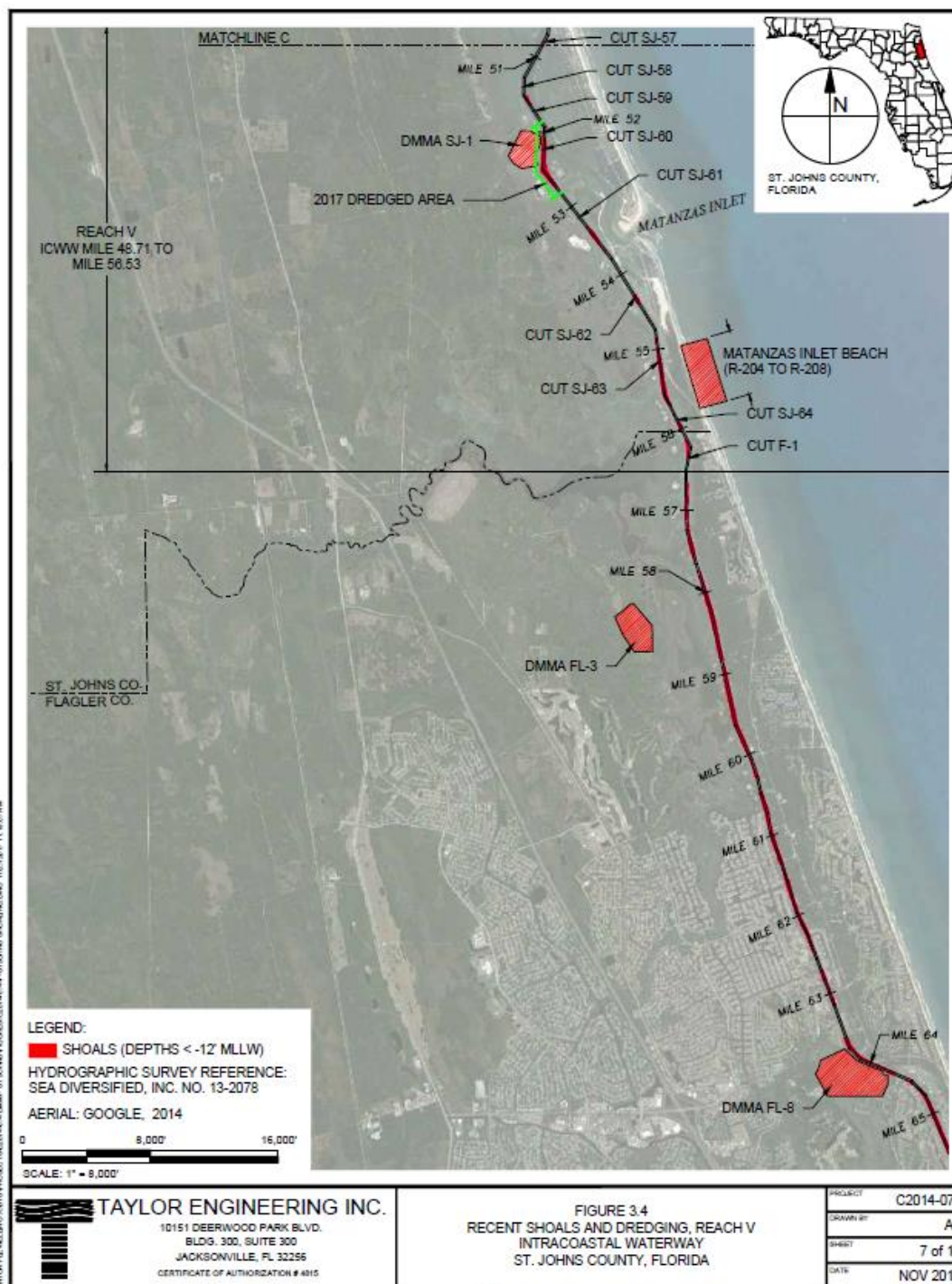
STATUS: P&S kicked off on 12 January. All indications that the project is on track for FDEP permit as well as all environmental and geotechnical investigations are valid. Coordinated with St. Johns County given the conditions at Summer Haven. All indications the project is on track for 28 August 23.

ACTION: Informational, no action is required by the Board.



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6. MISCELLANEOUS:

A. Establish FIND as the local sponsor for Martin and Palm Beach Counties along the OWW.

USACE OC has met with SFWMD OC regarding the path forward to make FIND the local sponsor for Martin and Palm Beach Counties along the OWW.

Background: In 2005 Florida legislature amended Section 374.984, Florida Statutes to assign responsibility and authority to FIND for the portion of the OWW located in Martin and Palm Beach Counties (link to the full statute:)

http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&Search_String=&URL=0300-0399/0374/Sections/0374.984.html.

Section 374.984 falls under Part II of Chapter 374, where Part II is “Florida Inland Navigation District Law”. Paragraph 6.h. of Section 374.984 states, “(h) The district is designated the local interest sponsor for the sole purpose of maintaining navigability of that portion of the Okeechobee Waterway located in Martin and Palm Beach Counties.”

Next step:

1. SFWMD will submit a letter to SAJ recognizing the Florida law that designates FIND as responsible for maintaining navigability of that portion of the OWW and requesting the termination of its responsibilities as non-federal sponsor (NFS) of the portion, with a copy furnished to FIND. - **DONE**

2. In parallel with SFWMD’s letter, FIND will submit a letter to SAJ requesting to be the NFS for the portion of the OWW within Martin and Palm Beach Counties, with a copy furnished to the SFWMD. - **DONE**

3. SAJ will draft an agreement for FIND to assume O&M responsibilities for the portion of the OWW within Martin and Palm Beach Counties. – **More resources have been added to complete the draft agreement.**

-SAJ can prioritize executing a Contributed Funds Agreement (CFA) while drafting the Project Partnership Agreement (PPA). FIND as requested to prioritize the CFA. – **Currently addressing the comments for the Congressional notification package. Once comments are addressed then it continues upward to SAD.**

4. After execution of the PPA, SAJ will send a letter to SFWMD acknowledging the termination of its role as a NFS for the specified portion of the OWW and clarifying the SFWMD’s continued role as NFS for the remaining portion of the OWW, with a copy furnished to FIND.

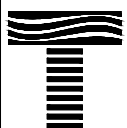
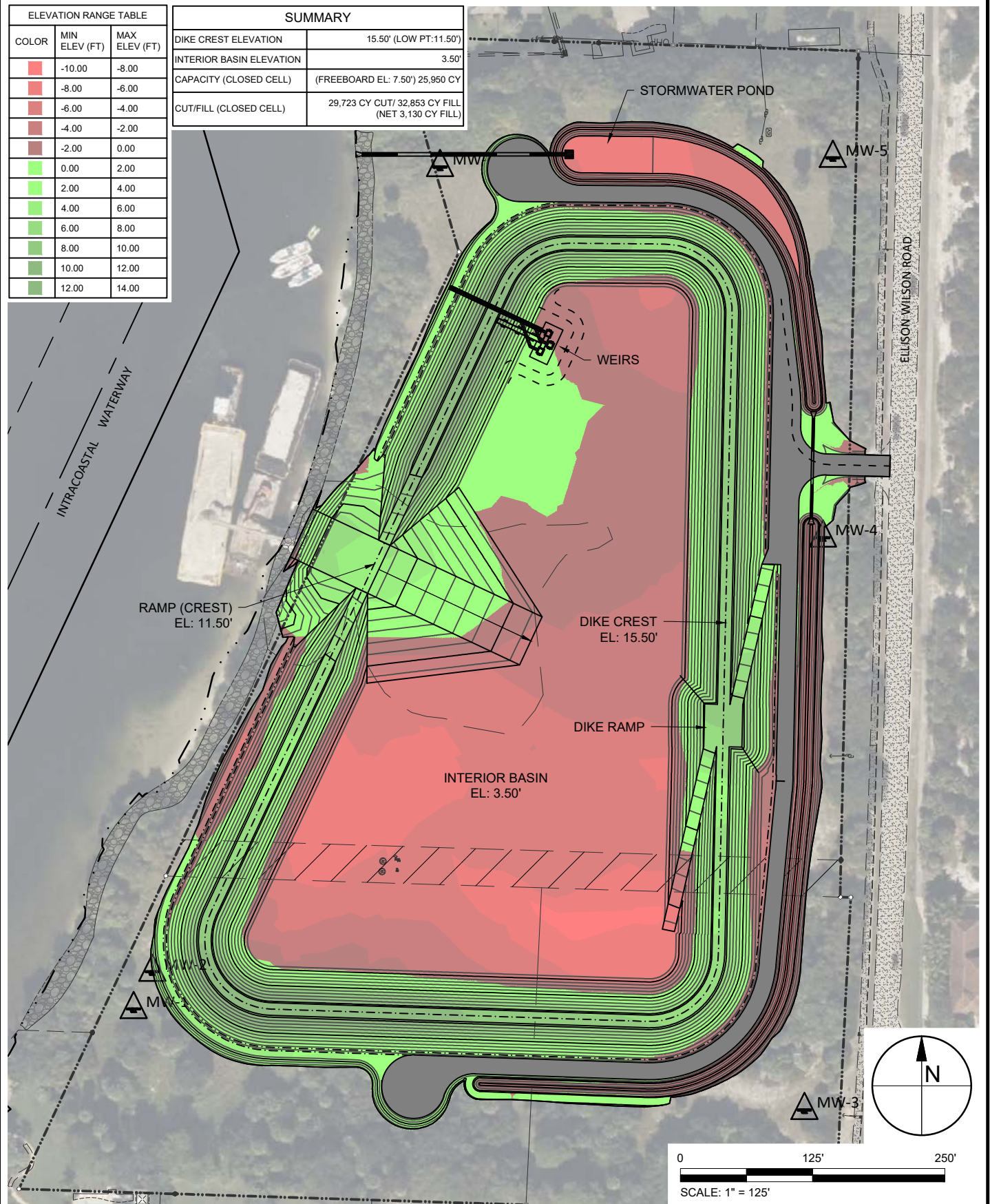


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**IWW STATUS
UPDATE
FIND Board of
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5. The next item needed is a contributed funds agreement for the OWW. The contributed funds agreement unfortunately will not be of the magnitude of the IWW/AIWW one in that the new model only allows for a smaller duration and funding limit. For example, effort should be made for the maximum agreement duration, likely a 7-10 year contributed funds agreement with specific areas outlined (as compared to the existing IWW/AIWW agreement that is a 50-year agreement with no maximum contribution or specific reaches listed).



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD
SUITE 310
JACKSONVILLE, FLORIDA 32256
REGISTRY # 4815

FIGURE 5
CLOSED DIKE SURFACE CUT/FILL
FIND MSA FO 617C DESIGN AND PERMITTING
PALM BEACH COUNTY, FLORIDA

PROJECT	C2021-068	DRAWN BY	CAS	SHEET	5 of 5	DATE	JULY 2022
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ATTACHMENT E-2
APPLICANT INFORMATION & PROJECT SUMMARY
 WATERWAY ASSISTANCE PROGRAM FY 2023

APPLICANT INFORMATION			
Applicant: City of Stuart			
Department: Public Works Department			
Project Title: Hurricane Nicole Damage/Emergency Re-Construction & Repairs			
Project Director: Marc Rogolino		Title:	Project Manager
Project Liaison: <small>(if different from Director)</small>	Jacqui May Grant Admin	Title:	Grant Administrator
Mailing Address:	121 SW Flagler Avenue		
City: Stuart	Zip Code:	34994	
Email Address: jmay@ci.stuart.fl.us	Phone #:	772-600-1244	
Project Address:	121 SW Flagler Avenue - Stuart, FL 34994		

*** I hereby certify that the information provided in this application is true and accurate. ***

SIGNATURE:  DATE: 3/22/2023

PROJECT NARRATIVE (Please summarize the project in space provided below in 2 paragraphs or less.)

On Wednesday, November 9, 2022, the City of Stuart' s boardwalk, docks, and pile guides suffered damage as a result of Hurricane Nicole. Approximately 40LF of boardwalk and 10LF of guardrail behind City Hall were damaged and had to be closed to the boating public and pedestrians. Additionally, two finger piers broke loose and were floating in the river. The excessive wave action impacted numerous stainless steel pile guide assemblies rendering them non-useful.

As a result, the City initiated emergency repairs and re-construction to prevent further damage and/or harm to individuals and vessels. Contractors were hired to remove damaged materials, replace and temporarily repair (where possible) damaged sections of the boardwalk and handrails. The finger piers that had broken loose were craned onto a barge and transported over to and disposed via the City's Shepard Park. Replacement finger piers were installed at the original site.

Subsequent assessment of the pile guides has resulted in a proposal for their repair/replacement as necessary. The total cost of repairs is \$155,339.00. The City of Stuart is seeking reimbursement for 25% of the total cost of emergency repairs which equals \$38,800.

ATTACHMENT E-3**PROJECT INFORMATION****WATERWAY ASSISTANCE PROGRAM FY 2023**

Applicant: City of Stuart	Project Title: Hurricane Nicole Damage/Emergency Re-Construction & Repairs	
Total Project Cost: \$ 155,339.	FIND Funding Requested: \$ 38,800.	% of Total Cost: 25%
Amount of Applicant's Matching Funds:	\$116,550.	
Source of Applicant's Matching Funds:	City Manager Contingency	

1. Ownership of Project Site (check one): Own: ☐ Leased: ☒ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

The project site property has been leased to the City of Stuart by the State of Florida. A copy of lease number 432916926 has been included with this application. Please note the lease expired on November 5, 2016. The Florida Department of Environmental Protection and the City are currently working through a lease renewal.

3. Has the District previously provided assistance funding to this project or site? Yes ☒ No: ☐

4. If yes, please list:

Fixed pier, floating courtesy dock with boat slips and Riverwalk.

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

The current level of public access consists of 400 LF of fixed pier and 530 LF of floating courtesy dockage providing 13 boat slips.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

N/A – This is a request for emergency re-construction and repair funds.

7. Are fees charged for the use of this project? No ☒ Yes ☐ **

****If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A <input type="button" value="v"/>		
DEP	N/A <input type="button" value="v"/>		
ACOE	N/A <input type="button" value="v"/>		

ATTACHMENT E-4 EVALUATION WORKSHEET

WATERWAY ASSISTANCE PROGRAM FY 2023

DIRECTIONS:

All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

*****Please keep your answers brief and do not change the pagination of Attachment E-4*****

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

Project Title:	Hurricane Nicole Damage/Emergency Re-Construction & Repairs
Applicant:	City of Stuart

1) PRIORITY LIST:

- a) Denote the priority list category of this project from Attachment C in the application. (The application may only be of **one** type based upon the predominant cost of the project elements.)

11. Public waterfront parks and boardwalks and associated improvements.

+ Emergency Re-Construction



- b) Explain how the project fits this priority category.

Category 11. Public waterfront parks, boardwalks, and associated improvement.

+ Emergency Re-construction.

The emergency repairs and re-construction of the FIND-funded boardwalk, handrails, finger piers, and pile guides fits the priority category as it will restore the City of Stuart's public docking and pedestrian facilities, therefore, restoring free public access along the City's waterfront and existing boardwalk (Riverwalk).

(For reviewer only)

Max. Available Score for application 45

Question 1. Range of Score (1 to 3 points)

2) WATERWAY RELATIONSHIP:

a) Explain how the project relates to the ICW and the mission of the Navigation District.

The area impacted by Hurricane Nicole lies within the St. Lucie River, which is part of the Okeechobee Waterway System that the District serves as the local navigation sponsor for. The site is approximately 1,200 feet downstream of the Roosevelt Bridge. The area provides benefit to vessels traveling north and south on the Atlantic Intracoastal.

b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

The repair and re-construction of this previously funded F.I.N.D project will restore use of public and private facilities and encourage greater awareness and enjoyment of the Intracoastal Waterways. Additionally, public access to the Riverwalk and links with Historic Downtown Stuart will be strengthened providing a safer and more effective use of the community's waterfront and the larger public pedestrian network.

(For reviewer only)

(1-6 points)

3) PUBLIC USAGE & BENEFITS:

a) Describe how the project increases/improves boater/public access. Estimate the amount of total public use.

It is estimated 1,450 boaters access the existing floating dock annually. The repair and re-construction will allow for continued use ensuring steady numbers of visitors to the waterfront district. Boaters will be able to continue to access the area via the Okeechobee Waterway.

b) Discuss the regional and local public benefits provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

The City of Stuart is in northern Martin County, Florida. The damage occurred at the heart of Stuart, an increasingly popular municipality with ten miles of waterfront. The courtesy docks lead visitors directly onto the Riverwalk and into the unique pedestrian-friendly historic district which includes free amenities such as museums and parks. The project's location on the St. Lucie River allows for easy access for residents from the District's 11 other counties.

c) Has the local Sponsor implemented or plans to implement any boating access, speed zone, commercial access or other restrictive use of this site?

No boating access, speed zone, commercial access, or other restrictions to the use of the site will be implemented.

(For reviewer only)

(1-8 points)

4) TIMELINESS:

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

In the interest of public safety and eliminating marine hazards the storm damage repair and reconstruction to the boardwalk and replacement of the finger piers was completed as soon as contractors were available. Repairs to the pile guides will commence in May 2023 and be completed as soon as possible.

- b) Briefly explain any unique aspects of this project that could influence the timeline.**

None.

(For reviewer only)
(1-3 points)

5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project including any cash match or matching grant funds.**

Funding for the repairs and re-construction came from City of Stuart General Funds. We are seeking reimbursement for 25% of the total repair work.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

N/A

- c) Are there any fees associated with the use of this facility? If so, please list or attach fee sheet.**

No fees are or will be charged for use of this facility.

- d) If there are any fees, please explain where these fees go and what they are used for. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

No fees are or will be charged for use of this facility.

(For reviewer only)
(1-6 points)

6) PROJECT VIABILITY:
a) Why is the project necessary and what need will it fill? Why are existing facilities insufficient to meet demand?

Damage caused by Hurricane Nicole to the City of Stuart's existing boardwalk, finger piers, and pile guides resulted in emergency repairs for public and mariner safety. The boardwalk and courtesy docks serve as a conduit for pedestrians and the boating public to access Stuart's historic downtown.

b) Clearly demonstrate how the project will continue to be maintained and funded after funding is completed.

The repaired facilities will be maintained by the City of Stuart's Public Works Department with annual funding as needed. The City has an excellent track record in maintaining similar facilities (i.e., FIND funded projects including the existing fixed and floating courtesy dock, downtown Riverwalk and festival deck, anchorage and dinghy dock, and numerous improvements at Shepard Park (fishwalk, public restrooms, boat ramp, seawall, additional boat/trailer parking).

c) Is this project referenced or incorporated in an existing maritime management, public access or comp plan?

This project is not referenced or incorporated in an existing maritime management, public access, or comp plan

(For reviewer only)

(1-7 points)

SUB-TOTAL _____

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

ATTACHMENT E-4A
EVALUATION WORKSHEET
DEVELOPMENT & CONSTRUCTION PROJECTS

WATERWAY ASSISTANCE PROGRAM FY 2023

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A DEVELOPMENT OR CONSTRUCTION PROJECT BUT **IS NOT** AN INLET MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

7) PERMITTING:

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)
If permits are NOT required, explain why not.**

Repairs to the damage by Hurricane Nicole did not required permits because they were repairs to an exisiting facility.

- b) If the project is a Phase I project, please provide a general cost estimate for the future Phase II work.**

N/A

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

N/A

(For reviewer only)
(1-4 points)

8) PROJECT DESIGN:

a) Has the design work been completed?

If this is a Phase I project, has a preliminary design been developed?

The repair and re-construction of Hurricane Nicole damage to the FIND-funded boardwalk and finger piers have been completed. It is estimated work on the pile guides caused will commence in May 2023.

b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?

The City of Stuart's waterfront serves as the "front door" to our vibrant historic downtown for members of the boating public. Additionally, the waterfront and boardwalk offer wide-water views of the St. Lucie River for all members of the public. This repair and re-construction of these facilities will enable the boating public to resume use.

(For reviewer only)

(1-2 points)

9) CONSTRUCTION TECHNIQUES:

a) Briefly explain the construction techniques and materials to be utilized for this project. Identify any unique construction materials that may significantly alter the project costs. If a Phase 1, elaborate on potential techniques.

Repair and re-construction of damage caused by Hurricane Nicole includes repairs to pile guides, boardwalk, and handrails as follows. Boardwalk repairs included: lumber for bucks, stringers & hardware for boardwalk; Top plate, side rails & pickets for the guardrail. The contractor was able to reuse & reinstall the existing decking & toe kicks; Remove, repair, and reinstall one aluminum bracket and remove and replace with new sections of guardrail including the top plate, side rails and pickets. For the proposed pile guide repairs: Recover pile guide from river bottom repair, and replace; Straighten, weld, and replace SS plate; rebolt and re-weld rollers, and replace hardware; Repair concrete on piling, including brackets as needed; Replace wood fenders.

b) What is the design life of the proposed materials compared to other available materials?

Repair and re-construction materials will incorporate latest technology, as well as stainless steel components, selected to maximize the longevity of the repaired and re-constructed areas and reduce future maintenance costs.

(For reviewer only)

(1-3 points)

10) ENVIRONMENTAL COMPONENTS:

a) How has the facility where the project is located demonstrated commitment to environmental compliance, sustainability, and stewardship?

The City of Stuart declared its full commitment to environmental compliance, sustainability, and stewardship with a 2020 proclamation as the "Year of Climate Action." Our Sustainability Action Plan (SAP) outlines actions including ones relating to climate resiliency, waste reduction, transportation, and built environment. The repairs and re-construction of the boardwalk, finger piers, and pile guides align with the City's goals relating to sustainability as they reduce auto traffic and enhance pedestrian access in our historic waterfront community.

b) What considerations, if any, have been made for sea level rise impacts in the design and life span of this project?

The repair and re-construction of the boardwalk and handrails were designed with sea level rise impacts in-mind. The pile guide repairs will incorporate latest technology for maximum life-span.

(For reviewer only)
(1-3 points)

RATING POINT TOTAL _____

Note:

The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.

Form No. 91-25A

Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)

ATTACHMENT E-4F
EVALUATION WORKSHEET
EMERGENCY RE-CONSTRUCTION

WATERWAY ASSISTANCE PROGRAM FY 2023

THIS ATTACHMENT IS TO BE COMPLETED ONLY IF YOUR PROJECT IS A WATERWAY PROJECT THAT WAS DAMAGED BY A NATURAL DISASTER AS DECLARED BY A STATE OF EMERGENCY UNDER CHAPTER 252, FLORIDA STATUTES.

11. (EXTRA) STORM DAMAGE EVALUATION:

- a) List the State of Emergency declaration order or proclamation & the name and date of the storm/event.**

Hurricane Nicole DR-4680. November 10, 2022

- b) Has this site/project previously received funding from FIND**

Yes. FIND has previously funded the City of Stuart's boardwalk, courtesy dock, and design of future dock expansion and wave attenuator device.

- c) Detail the other funding mechanisms and financial assistance that will be applied to defray the reconstruction costs or damage repair.**

The balance of repair and re-construction costs will come from City of Stuart City Manager Contingency Funds.

- d) What is the current status of your FEMA paperwork for the project?**

N/A the City of Stuart will not be applying for FEMA support for these emergency repairs/re-construction.

(For reviewer only)
(0-3 points)

ATTACHMENT E-5 PROJECT COST ESTIMATE

WATERWAY ASSISTANCE PROGRAM FY 2023

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

Project Title:	Hurricane Nicole Damage/Emergency Re-Construction & Repairs
Applicant:	City of Stuart

Project Elements <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	Total Estimated Cost	Applicant's Cost (To the nearest \$50)	FIND Cost (To the nearest \$50)
Boardwalk repairs & reconstruction	38,739.00	29,050.00	9,700.00
Pile guide repairs	66,910.00	50,200.00	16,700.00
Replacement of 2 piers	49,690.00	37,300.00	12,400.00

**TOTALS =	\$ 155,339.00	\$ 116,550.00	\$ 38,800.00
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ATTACHMENT E-6 PROJECT TIMELINE

WATERWAY ASSISTANCE PROGRAM FY 2023

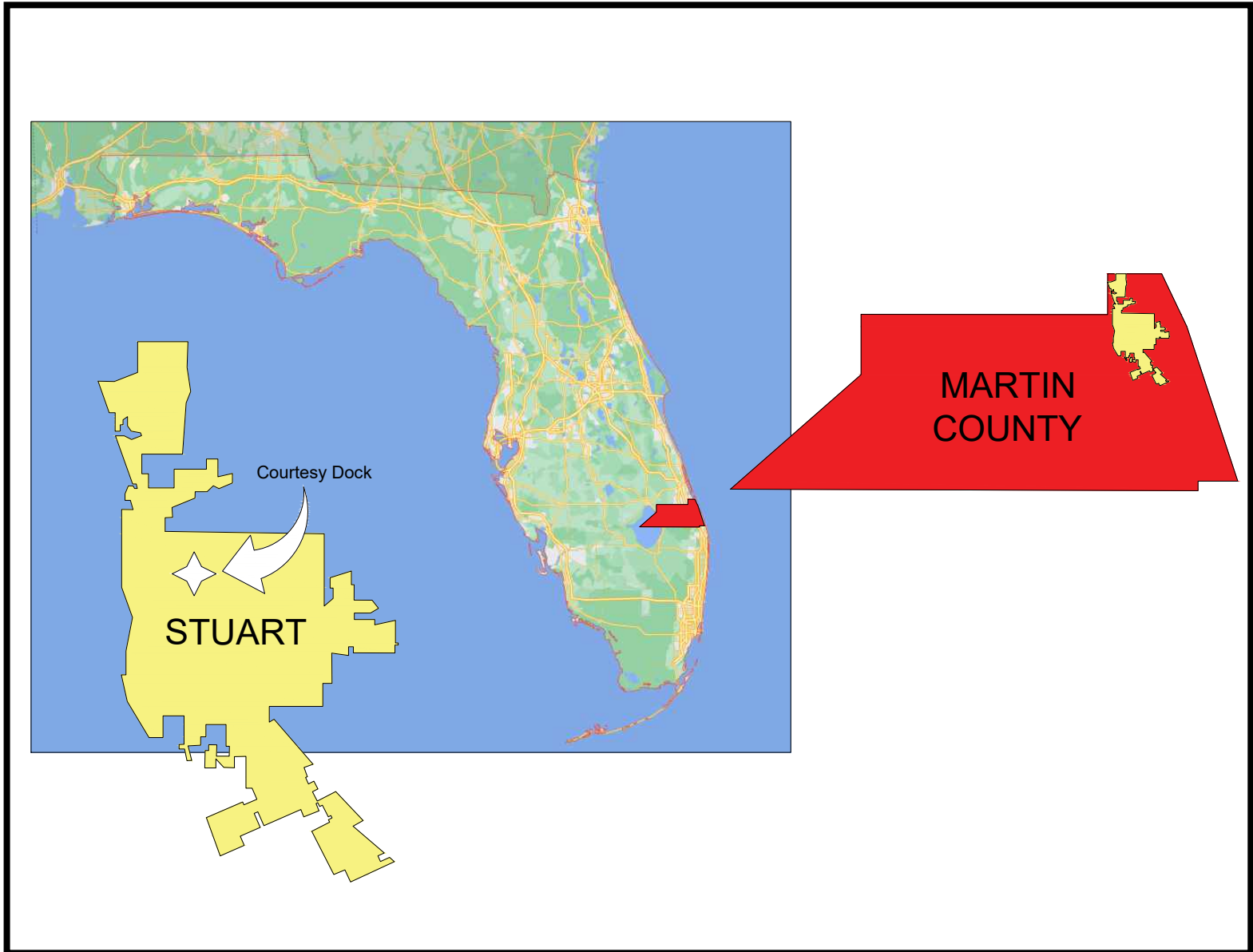
Project Title:	Hurricane Nicole Damage/Emergency Re-Construction & Repairs
Applicant:	City of Stuart

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

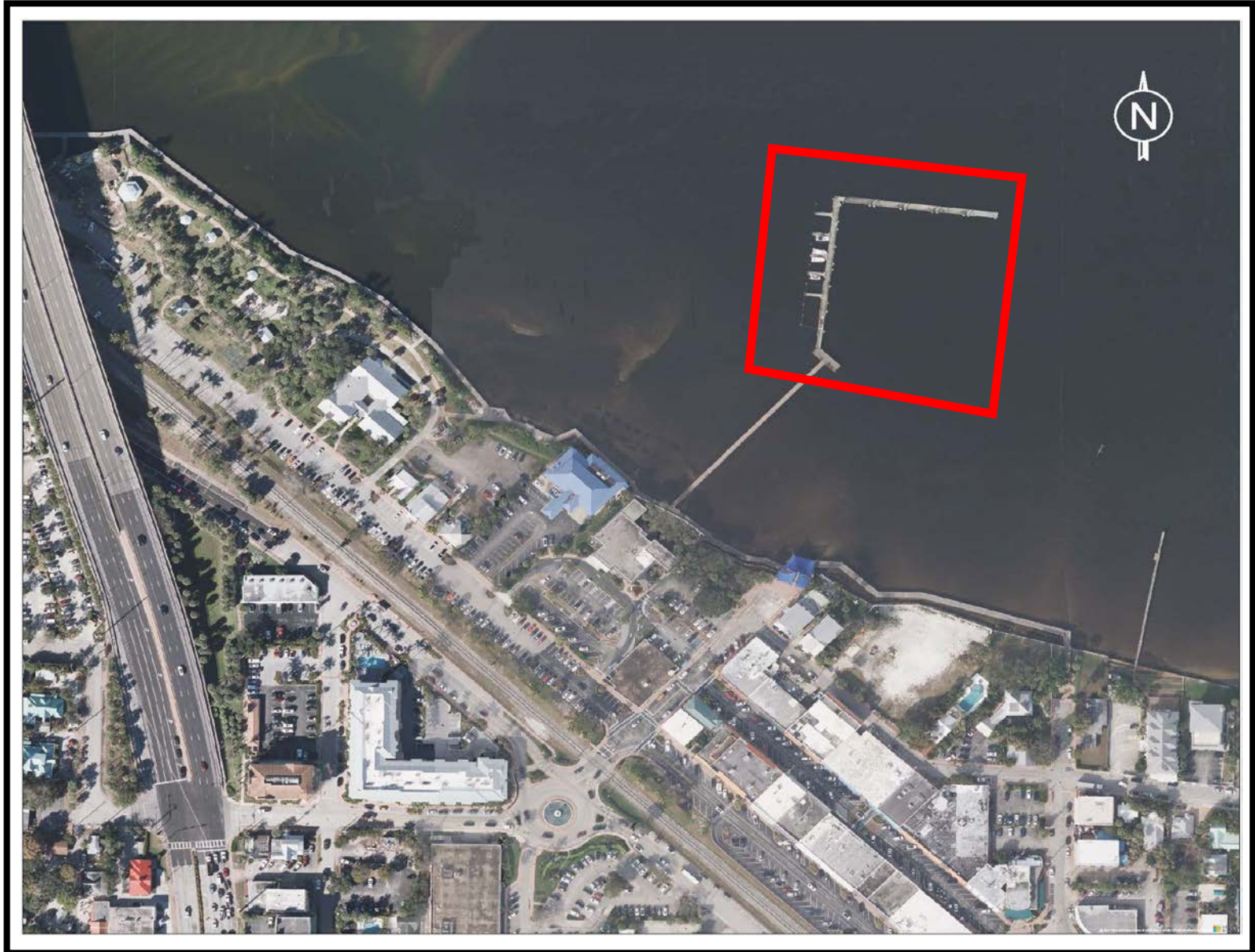
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Date	Component
November 2022	Removal of damaged finger piers
December 2022	Repair/reconstruction of boardwalk, handrail, repalced finger piers
May 2023	Commence repair/reconstruction of pile guides

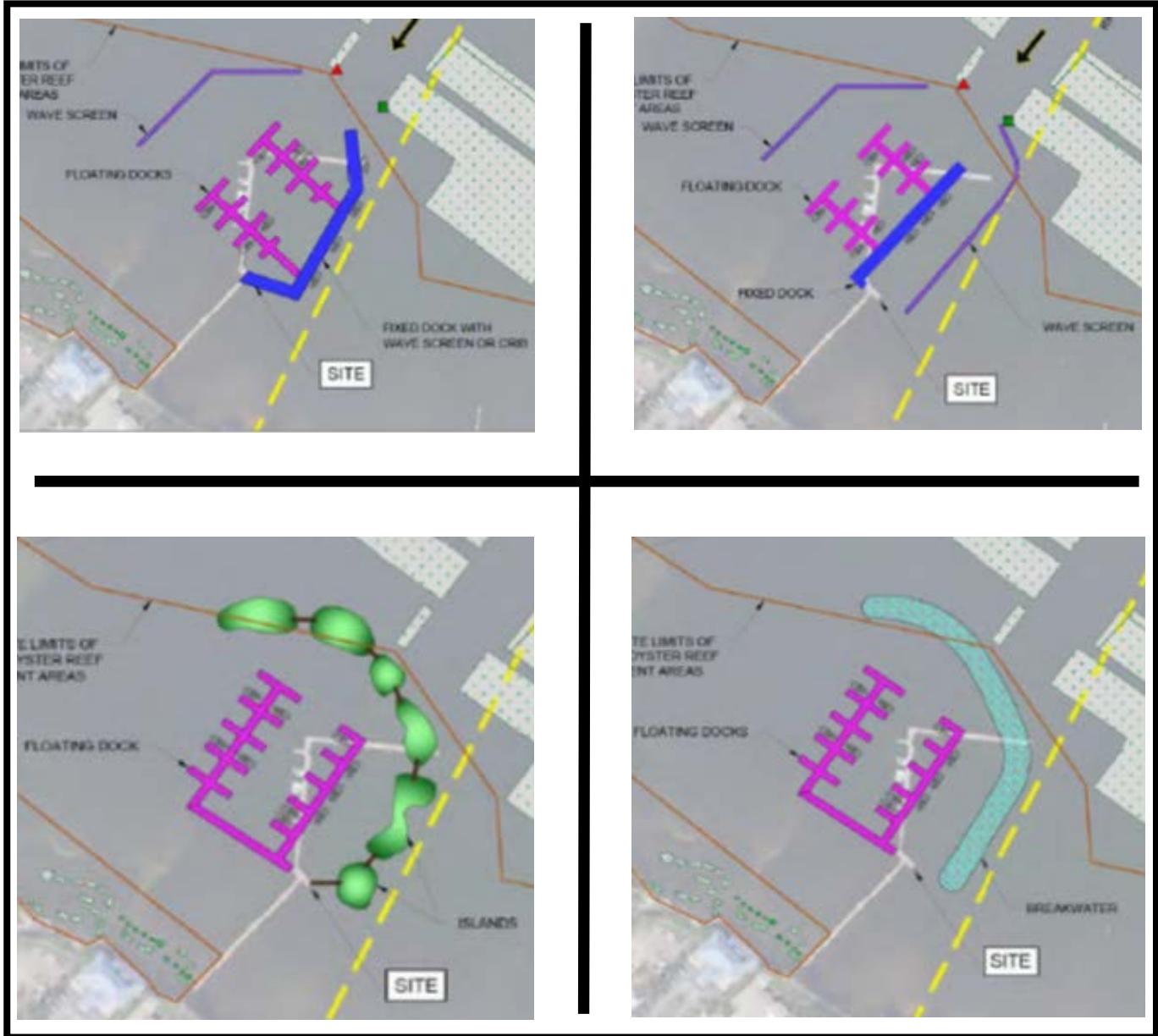
County/City Location Map



Project Boundary Map



Site Development Plan



NOTE: This is a Phase I project; therefore, the design has not yet been completed. The City currently has several conceptual layouts drafted. The intent is to finalize these conceptual layouts and bring forth to the City Commission in August 2022 with a recommendation to move forward with the design and permitting for one of them.





















February 3, 2023

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

RE: Scope of Professional Engineering and Environmental Services
HD-1 Permitting and Final Design
Martin County, Florida

Mr. Crosley:

Per your request, we prepared the enclosed scope of work (Attachment A) and cost proposal (Attachment B) for engineering and environmental services required to permit and design dredged material unloading site HD-1. As detailed in the enclosed documents, our proposed services include field investigation, environmental permitting, preliminary and final design, and preparation of bid documents.

Taylor Engineering will perform these base services on a cost-plus basis for an amount not to exceed \$395,638.50. Of this amount, \$99,000 represents the proposed fee for our geotechnical sub-consultant, Terracon Consultants, Inc (Terracon).

If you have any questions concerning this proposal, please contact Terry Cake, P.E. or me. We can begin work immediately upon your notice to proceed.

Sincerely,



Jerry Scarborough, P.E.
Senior Advisor, Waterfront Engineering

Attachments:

- A -Scope of Work
- B - Cost Summary
- C - Sub-contractor Proposals

**SCOPE OF PROFESSIONAL ENGINEERING AND ENVIRONMENTAL SERVICES FOR HD-1
OFFLOADING/TRANSFER SITE PERMITTING AND FINAL DESIGN
MARTIN COUNTY, FLORIDA**

INTRODUCTION

Taylor Engineering is currently under contract to Florida Inland Navigation District (FIND) for the Lake Okeechobee Cross Lake Channel Maintenance Dredging project. Under this contract, Taylor Engineering prepared digital preliminary design level drawings for maintenance dredging in Cut-1 and Cut-2 of Route 1 of the Okeechobee Waterway (OWW). Further design and permitting activities require developing dredged material unloading and placement areas. Dredge material management site HD-1 (Figure 1) has been identified for material offloading and handling. Under the proposed dredged material management strategy, a contractor will mechanically load barges with dredge material and transport it to the designated lakefront site, HD-1. Figure 2 provides a preliminary site plan for the facility. The site will include an approach channel and berthing basin constructed between the OWW Route 2 channel, a bulkhead with exposed height of approximately 20 ft, and unloading facility to facilitate barge offloading and material handling. From the unloading facility, the material can be offloaded and temporarily stockpiled and dewatered before transfer via truck haul to other sites for placement or long-term storage. The development of HD-1 would serve the proposed dredging for future dredging projects within the Okeechobee Waterway (OWW). The following scope provides engineering services required to complete permitting and design of this site. We have based our scope of services on the following assumptions and exclusions:

1. FIND will negotiate with the state and federal governments and agencies to establish an easement or land use agreement for the usage of the HD-1 site. Because the proposed project would require alteration to a federally-authorized project (Herbert Hoover Dike), the USACE Civil Works Program will require permission under Section 408 (33 USC 408).
2. Taylor Engineering will design HD-1 to offload, and temporarily stockpile mechanically dredged material from the Okeechobee Cross Lake Channel.
3. Taylor Engineering will design a bulkhead of approximately 300 LF for barge berthing at HD-1. The bulkhead will have a total exposure height of approximately 20 ft and allow for heavy equipment loads on the upland.
4. The design will include development of a berthing basin between the bulkhead and Route 2 of the OWW to provide barge access. The berthing area will be dredged to +5.56' NGVD (+4.33' NAVD88).
5. Taylor Engineering will design appropriate drainage control measures at HD-1 to drain the stockpiled material. The design will include the appropriate stormwater treatment and erosion control.
6. The bulkheaded offloading area and all mooring facilities, the dredged berthing basin, and the ramp that connects the temporary stockpiling area with the dike crest road will remain as permanent site features. For each future dredging event, the dike's crest, lakeside slope, and foreshore areas at site HD-1 shall be restored to pre-construction conditions following dredging, as described in Chapter 4 of the HD-1 Management Plan – December 2009.
7. State and federal regulatory agencies will require a natural resources survey (wetlands, submerged resources, vegetation communities) of the entirety of the site to document existing natural resource conditions. These agencies will require compensatory mitigation

for unavoidable, permanent impacts to wetlands or submerged resources (e.g. submerged aquatic vegetation [SAV]). If necessary, FIND will mitigate for unavoidable wetland impacts through purchase of in-kind mitigation credits from an approved wetland mitigation bank. Due to the uncertainty involved, this scope of work excludes mitigation planning and design for unavoidable impacts to SAV. Should SAV mitigation planning and design become necessary, Taylor Engineering will provide FIND an amended scope of work and fee proposal for those services.

8. Regulatory agencies will not require mitigation for temporary wetland impacts, if any.
9. FIND will pay all permit application fees directly to the regulatory agencies.
10. Because a gopher tortoise (*Gopherus polyphemus*) survey is only valid for 90-days, identification of active gopher tortoise burrows and the relocation permit (required for construction) is not included in this proposal. FIND will address gopher tortoise permitting and relocation requirements, if any, separate from this contract and closer to the expected construction start date.
11. No cultural or archeological resources occur on site.

If any of these assumptions prove incorrect, Taylor Engineering will notify FIND of the changes and submit a proposal for any additional services necessitated by the changes. This proposal does not include construction-phase services.

SCOPE OF SERVICES

TASK 1 FIELD INVESTIGATION

This task involves data collection of existing site conditions necessary for preparation of state and federal regulatory permit applications and to complete the final engineering design of HD-1 transfer/offloading site.

1.1 Natural Resources Survey

Wetland Delineation: State and federal regulatory agency policy requires wetland delineation performed within the past five years. Taylor Engineering will perform a jurisdictional wetlands delineation of HD-1, primarily focused on the lake shoreline. The wetlands delineation methodologies will follow the protocols mandated by the Florida Department of Environmental Protection (FDEP) and the U. S. Army Corps of Engineers (USACE). Taylor Engineering will install sequentially numbered stakes or flags to mark the wetland-upland interface. Succeeding markers will be clearly visible from the previous marker location, and the distance between markers will not exceed 100 feet. We will fill out all data sheets required by FDEP and USACE. Taylor Engineering will schedule and participate in an on-site meeting with FDEP and USACE staff to verify the jurisdictional wetland boundary and, if necessary, adjust the boundary based on agency staff field observations and comments.

Submerged Aquatic Vegetation (SAV): Taylor Engineering will complete an SAV survey of the proposed berthing basin. The survey will include a preliminary reconnaissance covering the entire basin area to determine the presence or absence of SAV. If SAV occurs, Taylor Engineering will employ qualitative and quantitative assessment methods consistent with state and federal agency guidelines to map and characterize SAV resources.

Habitat Characterization and Listed Species Assessment: Taylor Engineering will use the FLUCCS to map (via aerial interpretation and ground truthing) and characterize all natural communities within the HD-1, including the proposed berthing basin area. Characterizations will include qualitative descriptions of each identified community, lists of dominant vegetation by species, and documentation of observed and likely occurrences of wildlife. We will also assess the property for potential use by state- and federally-listed species. This scope of work excludes species-specific surveys for listed species.

Natural Resource Survey Report: Taylor Engineering will develop a report summarizing the results of the natural resources survey. The report will include:

- Descriptions of the methods and results of the field investigation
- Qualitative descriptions of natural communities including uplands, wetlands, and submerged resources
- FLUCCS map including acreages for each community type
- Wetland boundary map
- SAV boundary map
- Completed wetland delineation forms
- Descriptions of wildlife utilization (both observed and likely occurring)
- Assessment of potential use by state- and federally-listed species

1.2 Geotechnical Investigation

Taylor Engineering's subconsultant, Terracon, will complete a geotechnical investigation to provide key design information for developing HD-1. The subconsultant will collect several Standard Penetration Test (SPT) borings waterward and landward of the proposed bulkhead as well as around the designated site area. A laboratory will conduct geotechnical engineering testing and analysis and provide the design parameters. We will compile all the information into a report. This proposal assumes that a Drilling Program Plan, approved by USACE will be required for drilling activities on the Herbert Hoover Dike. Additional permits or reviews are not included with this proposal.

1.3 Site Surveys

Taylor Engineering will perform a hydrographic survey at the material offloading berthing basin and its access channel to supplement the topographic survey performed in 2008 at HD-1. A Taylor Engineering survey crew will verify the elevations collected during the 2008 topographic survey to assess the need for updated topography along the upland portion of HD-1. If updated topography is needed, we will submit a new proposal describing the work needed and costs to accomplish the work.

Taylor Engineering will perform a boundary survey at HD-1 using the legal description to verify property corners and verify control and monumentation at the DMMA sites.

1.4 Drone Aerials & Mapping

Taylor Engineering will perform a site visit to collect high-resolution aerials and geo-referenced maps of HD-1 sites. This information will show the existing conditions at the site and serve as the updated aerial for the construction drawings of this project.

1.5 Geotechnical and Sediment Chemistry Data Collection

Taylor Engineering will collect a maximum of 10 grab samples for geotechnical analysis in the planned berthing basin between the bulkhead and the Route 2 channel. A maximum of 5 samples will be collected for chemical analyses; these may be individual or composited samples. An aliquot of each

sediment sample will be frozen and archived in the event that additional analyses are required. Site water will be collected and archived for possible future analysis. The sample locations will be selected after review of the hydrographic survey described in Task 1.3. The purpose of the chemical analyses is to support upland disposal on either private or public property.

Taylor Engineering will collect samples in accordance with DEP-SOP-001/01 FS 4000, Sediment Sampling and deliver the samples to a NELAP- and FDEP-certified laboratory for chemical analyses. Anticipated chemical parameters to be analyzed are presented in Table 1. The data will allow assessment of the likely level of sediment contaminants in situ and after temporary placement for dewatering. If FDEP requires additional laboratory analysis beyond those included in this proposal, we will submit a new proposal describing the work needed to satisfy agency requests and costs to accomplish the work.

Table 1. Chemical Analysis Parameters

SEDIMENT CHEMICAL ANALYSIS (for any sample that is >10% fines (passing a #200 mesh sieve)) Polynuclear Aromatic Hydrocarbons (PAHs) Metals Total Petroleum Hydrocarbons (TPH) Pesticides Nitrogen, Ammonia Total Phosphorus Total Organic Carbon (TOC)

Taylor Engineering will perform gradation analysis per ASTM D 6913 for a graduated US Standard Sieve series from No. 3/4" to No. 200. All samples will be classified, described, and tested under the direction and supervision of a Florida-registered Professional Geologist or Engineer. Taylor Engineering will perform laboratory classification and index property tests to determine the suitability of the dredged material for placement at upland sites or for beneficial use as construction material for offsite projects.

TASK 2 PRELIMINARY ENGINEERING DESIGN

Taylor Engineering will prepare preliminary engineering design documents sufficient for permit review by regulatory agencies. For the preliminary and final design tasks (Task 4), Taylor Engineering will build on the updated site layout as presented in the 2007 OWW Phase II Management Plan and Engineering Narrative for HD-1 sites and will revise the design as necessary to accommodate site conditions and regulatory agency guidance.

2.1 Site Reconnaissance Visit

Taylor Engineering will visit the site at least once to examine the physical characteristics site as they relate to the overall design of the project.

2.2 Preliminary Design

Taylor Engineering will design the site layouts for HD-1, develop a grading plan, and provide a preliminary engineering design for the bulkhead structure.

Site Plan: Based on the wetland delineation and geotechnical report, Taylor Engineering will update, as necessary, the project site plan to be consistent with the environmental and buffer requirements and any design changes necessary to accommodate site conditions. The HD-1 site plan will include the location of the berthing basin, bulkhead, offloading and material stockpile, earthen berm, access ramp, and existing road.

Volume Calculations: Taylor Engineering will calculate earthworks volumes for the access ramp at HD-1, and erosion control berms, if required.

Bulkhead Design: Taylor Engineering will provide a preliminary design analysis of the bulkhead structure at HD-1. Design components include sheet pile material and length, cap size, and type of anchor system. The bulkhead structural design will consider geotechnical design parameters, lateral hydrostatic and earth pressure loads, and vertical loads due to expected material offloading equipment.

2.3 Permit Drawings

Taylor Engineering will also prepare digital permit drawings for HD-1. The permit set will include photo-based sheets depicting the project area with aerial photography. These drawings will provide plan, cross section, and detail views of the proposed work at HD-1. We will provide signed and sealed permit drawings in appropriate hardcopy format and in digital (AutoCAD and PDF) format.

TASK 3 ENVIRONMENTAL PERMITTING AND SECTION 408 REVIEW

Construction of HD-1 transfer/offloading site will require permits from FDEP (Environmental Resource Permit) and U.S Department of the Army (Section 404 permit and Section 408 authorization). Task 3 includes preparation and submittal of state and federal permit applications for the construction of HD-1 and includes time to respond to requests for additional information (RAI) and coordinate with regulatory agency staff throughout the review process.

3.1 Pre-Application Meetings

Taylor Engineering will develop materials for, coordinate, and conduct up to two pre-application meetings with the FDEP and USACE (one per agency). During these meetings, we will introduce the project to regulatory agency staff, discuss foreseeable permit application issues, and solicit agency recommendations concerning the content and format of the application materials. Following completion of the pre-application meetings, Taylor Engineering will compile and submit meeting minutes to all attending parties.

3.2 Environmental Permit Applications

Based on data collected in Task 1, the proposed site plan layout, and agency comments made during the pre-application meetings, Taylor Engineering will prepare and submit separate applications to the FDEP and the USACE. In addition to all appropriate application forms, the application will include signed and sealed permit-level design drawings and narratives describing the (1) overall project and

conceptual design, (2) location of on-site sensitive natural habitats, (3) best management practices and impact avoidance and minimization techniques, (4) natural resource impact analysis and mitigation, (5) alternatives analysis, and (6) construction methodology and schedule.

3.3 Natural Resource Impact Analysis and Mitigation Planning

Based on findings of Task 1, Taylor Engineering will overlay the project footprint on the mapped natural resource features to locate and quantify unavoidable impacts areas. We will apply the FDEP's Uniform Mitigation Assessment Method (UMAM) to assess natural resource impacts and mitigation requirements. The regulatory agencies' mitigation preference is the use of an approved mitigation bank. If required, Taylor Engineering will identify the available mitigation bank options and associated costs. Taylor Engineering will provide this information to FIND. Due to the uncertainty and level of effort typically required for SAV mitigation, this scope of work excludes SAV mitigation planning and design. Should SAV mitigation become necessary, Taylor Engineering will provide FIND with an amended scope of work and fee proposal for SAV mitigation planning and design services.

3.4 Responses to Requests for Additional Information (RAI) and Agency Coordination

Following submission of the permit applications, FDEP and USACE will likely respond with one or more RAI. A RAI typically includes a series of questions requiring additional explanation of the proposed project work, requested changes to the project to meet specific concerns, and specific design changes to meet agency design guidance. This proposal includes a maximum budget of \$15,000 to respond to agency RAIs. If RAI responses require additional labor, field investigations, or laboratory tests beyond the budget included in this proposal, we will submit a new proposal describing the work needed to satisfy agency requests and costs to accomplish the work. Taylor Engineering will provide all RAI responses to FIND for review before submitting them to the agencies.

The single most important activity during the permitting process is the establishment and maintenance of a clear line of communications between the applicant and the participating agencies. To that end, Taylor Engineering will coordinate with local, state, and federal agencies staff during the application review process. These agencies include, but are not limited to, the FDEP and USACE, U.S. Fish and Wildlife Service, Florida Fish and Wildlife Conservation Commission, and Martin County. We will maintain consistency between the state and federal permit applications and other environmental documentation and strive to resolve environmental issues that arise during the review period.

3.6 Section 408 Review Coordination

Because the proposed project will require alteration to a federally-authorized project (Herbert Hoover Dike), the USACE Civil Works Program will require permission under Section 408 (33 USC 408). This process is in place to ensure that a proposed alteration will not be injurious to the public interest and will not impair the usefulness of the Civil Works project. Under this scope of work, Taylor will develop and submit a Section 408 permission request package to the USACE for review. Taylor will actively coordinate with USACE staff throughout the process and will address requests for additional information as necessary during the completeness review. This scope of work includes a total budget of \$8,000 to complete the Section 408 review process with the USACE. If the level of effort and labor required to complete the Section 408 review exceeds this limited budget, Taylor will provide FIND with an amended scope of work and fee proposal for additional coordination services.

TASK 4 FINAL ENGINEERING DESIGN

With receipt of the permit or with FIND authorization, if desired sooner, Taylor Engineering will advance the preliminary design of HD-1 transfer/offloading site, to 90% design. We will provide construction drawings in PDF format, contract documents including technical specifications, and updated opinion of probable cost. Following receipt of FIND's comments, we will schedule a meeting to review the 90% design.

4.1 90% Design Drawings

Construction drawings will provide plan, cross-sectional, and detail views of all features included in HD-1 site.

4.2 90% Contract Documents

Taylor Engineering will prepare the Division 0 and 1 contract documents (Contract Documents) and prepare Division 2 and higher contract documents (Technical Specifications) for construction of the project.

4.3 90% Opinion of Probable Cost

Taylor Engineering will prepare an opinion of probable cost for constructing the HD-1.

4.4 100% Design

After FIND reviews the 90% design and construction documents, Taylor Engineering will develop the final design and construction documents. We will provide two (2) sets of signed and sealed copies of the construction drawings, technical specifications, and bid schedule in preparation for bidding.

4.5 Bid Documents

Taylor Engineering will prepare bid documents for the completed design project. We will provide construction drawings in appropriate hard-copy format and in digital (AutoCAD) format, as well as record drawings signed and sealed by a Florida-Registered Professional Engineer.

We will prepare a bid schedule with estimated quantities for all bid items. In preparation for project bidding and bid administration, Taylor Engineering will develop a digital bid document package including digital copy of the final drawings and specifications for FIND to advertise the bid and upload onto its FTP site. Taylor Engineering will provide construction phase services under a future authorization.

TASK 5 BID ADMINISTRATION

Taylor Engineering will help FIND administer the bidding process and assist in selecting a contractor. We will remain available at our Jacksonville offices to clarify and interpret project documents and prepare addenda, if required. Our project engineer will attend a pre-bid meeting to answer questions concerning elements of the project for which Taylor Engineering is responsible. We will assist with reviewing the bids received and provide FIND with our recommendations for contractor selection. This work includes reviewing the submitted bids, checking 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. 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 6 AIDS TO NAVIGATION COORDINATION

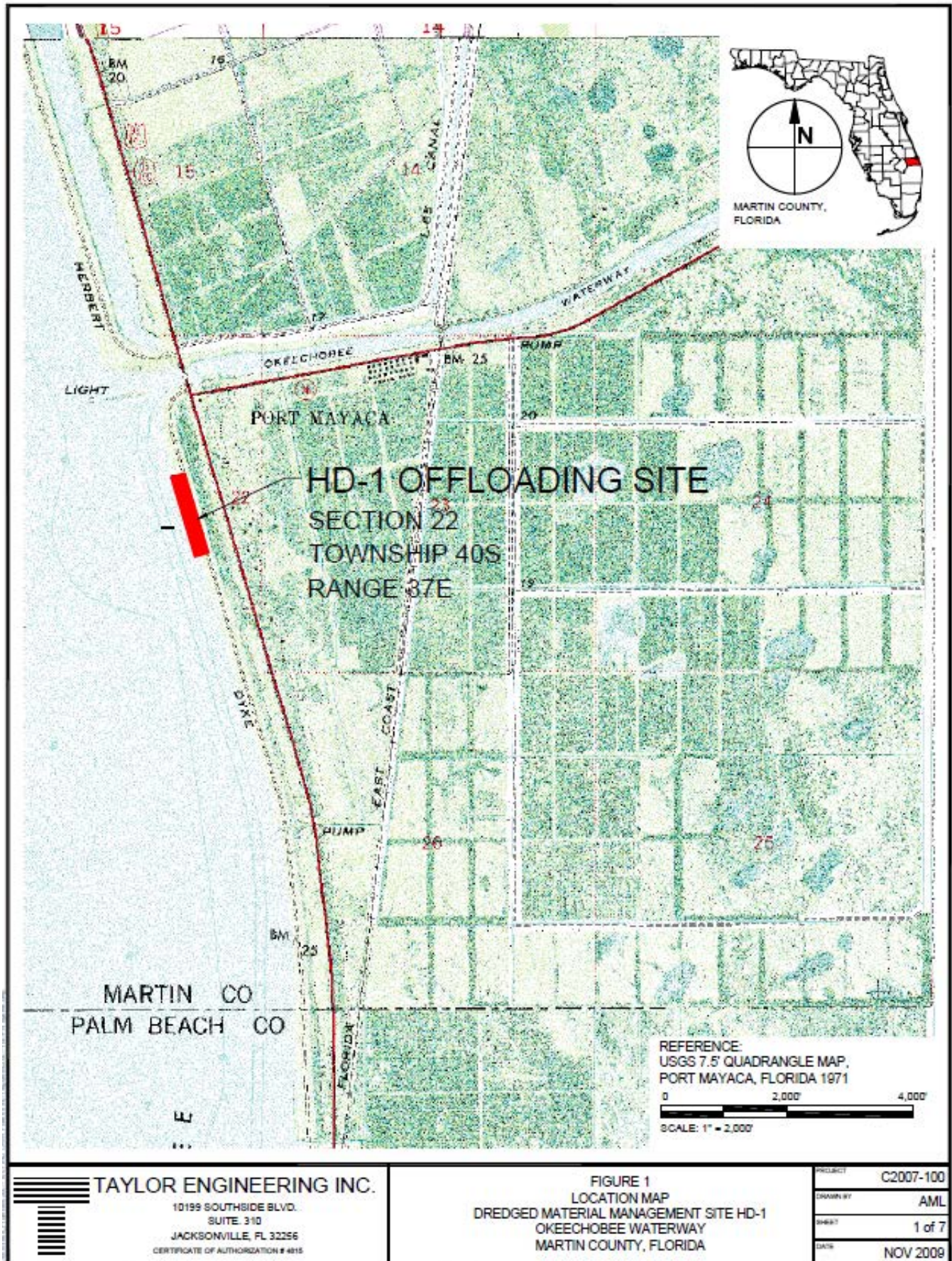
Taylor Engineering previously provided photos and survey data for all located ATONs to the appropriately responsible USCG Office and recommended locations for installation of additional ATONs. Based on initial observations provided to USCG, Taylor Engineering will arrange coordination meetings between FIND and USCG, as necessary. Following initial coordination, Taylor Engineering will maintain regular contact, via telephone and electronic mail, with USCG for coordination related to any ATON additions or maintenance requests. This scope of services includes regular USCG coordination for up to six months following the initial meeting.

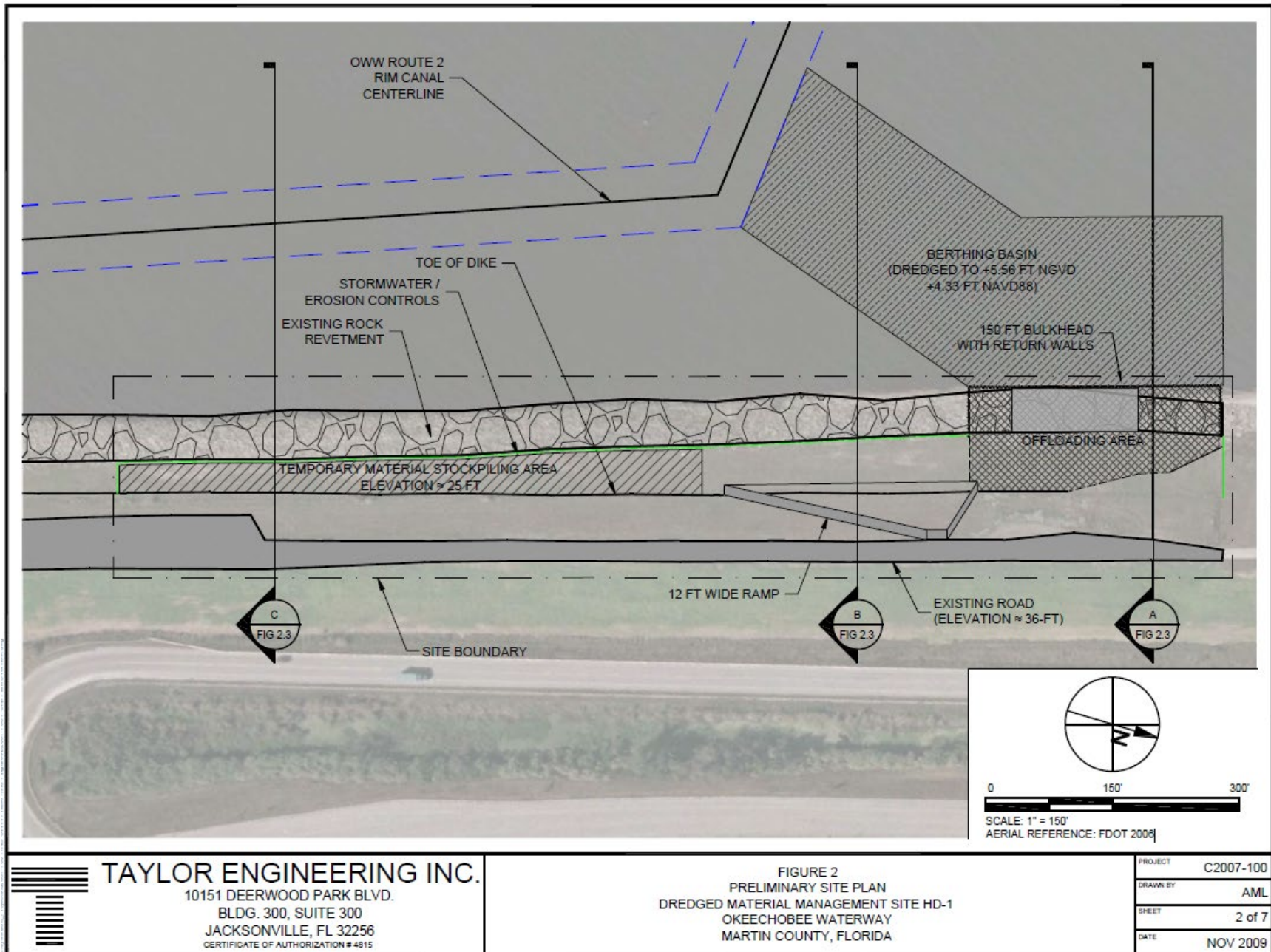
Proposed Additional ATON Locations

Proposed ATON	Latitude	Longitude
Red Beacon #8	26.82239	-80.7916
Green Beacon #15	26.79829	-80.8039
Green Beacon #17	26.79899	-80.8307
Red Beacon #18	26.80202	-80.8307

ESTIMATED SCHEDULE

No.	Task	Months from Notice to Proceed																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	FIELD INVESTIGATION																		
2	PRELIMINARY ENGINEERING DESIGN																		
3	ENVIRONMENTAL PERMITTING AND SECTION 408 REVIEW																		
4	FINAL ENGINEERING DESIGN																		
5	BID ADMINISTRATION																		
6	AIDS TO NAVIGATION COORDINATION																		





Attachment B

Cost Summary by Task

TAYLOR ENGINEERING, INC.
COST SUMMARY BY TASK
SCOPE OF PROFESSIONAL ENGINEERING AND ENVIRONMENTAL SERVICES

TASK 1: FIELD INVESTIGATION

<i>Labor</i>	Hours	Cost	Task Totals
Vice President/Principal	9.0	2,412.00	
Senior Advisor	10.0	2,690.00	
Program Manager	40.0	9,280.00	
Senior Professional	36.0	7,560.00	
Project Professional	80.0	13,440.00	
Staff Professional	110.0	13,750.00	
Senior CAD Designer	16.0	2,720.00	
Project GIS Specialist	18.0	2,214.00	
Administrative/Intern	15.0	1,050.00	
Total Man-Hours	334.0		
Labor Cost			55,116.00
<i>Non-Labor</i>	Units	Cost	
Rental Car (NRS Work)	4.0	400.00	
Per Diem (NRS Work)	4.0	256.00	
Hotel (NRS Work)	4.0	600.00	
Rental Car (Sed Collection)	2.0	200.00	
Per Diem (Sed Collection)	2.0	128.00	
Hotel (Sed Collection)	2.0	300.00	
Boat (Sed Collection and SAV survey)	2.0	500.00	
Lab Chemical Analysis	1.0	3,100.00	
Sample Shipping	1.0	1,000.00	
Physical Analysis	1.0	1,950.00	
Drone	1.0	100.00	
Survey Equipment	2.0	1,000.00	
Survey Boat	2.0	600.00	
Hotel (HD-1)	4.0	600.00	
Meals (HD-1)	4.0	256.00	
Rental Car (HD-1)	4.0	800.00	
Geotechnical Investigation (Terracon)	1.0	99,000.00	
Non-Labor Cost		110,790.00	
Fee @ 10.0%		11,079.00	
Total Non-Labor Cost			121,869.00
<i>Total Task 1</i>			176,985.00

SCOPE OF PROFESSIONAL ENGINEERING AND ENVIRONMENTAL SERVICES

TASK 2: PRELIMINARY ENGINEERING DESIGN

<i>Labor</i>	Hours	Cost	Task Totals
Vice President/Principal	8.0	2,144.00	
Senior Advisor	12.0	3,228.00	
Senior Professional	94.0	19,740.00	
Project Professional	72.0	12,096.00	
Staff Professional	74.0	9,250.00	
Senior CAD Designer	60.0	10,200.00	
Administrative/Intern	4.0	280.00	
Total Man-Hours	324.0		
Labor Cost			56,938.00
<i>Non-Labor</i>	Units	Cost	
Rental Car	2.0	200.00	
Per Diem	4.0	256.00	
Hotel	2.0	300.00	
Non-Labor Cost		756.00	
Fee @ 10.0%		75.60	
Total Non-Labor Cost			831.60
<i>Total Task 2</i>			57,769.60

TASK 3: ENVIRONMENTAL PERMITTING AND SECTION 408 REVIEW

<i>Labor</i>	Hours	Cost	Task Totals
Vice President/Principal	9.0	2,412.00	
Senior Advisor	9.0	2,421.00	
Program Manager	6.0	1,392.00	
Senior Professional	58.0	12,180.00	
Project Professional	58.0	9,744.00	
Staff Professional	84.0	10,500.00	
Senior CAD Designer	20.0	3,400.00	
Administrative/Intern	24.0	1,680.00	
Total Man-Hours	268.0		
Labor Cost			43,729.00
<i>Total Task 3</i>			\$ 43,729.00

SCOPE OF PROFESSIONAL ENGINEERING AND ENVIRONMENTAL SERVICES

TASK 4: FINAL ENGINEERING DESIGN

<i>Labor</i>	Hours	Cost	Task Totals
Vice President/Principal	16.0	4,288.00	
Senior Advisor	10.0	2,690.00	
Senior Professional	140.0	29,400.00	
Project Professional	156.0	26,208.00	
Staff Professional	120.0	15,000.00	
Senior CAD Designer	120.0	20,400.00	
Administrative/Intern	26.0	1,820.00	
Total Man-Hours	588.0		
Labor Cost			99,806.00
<i>Total Task 4</i>			\$ 99,806.00

TASK 5: Bid Administration

<i>Labor</i>	Hours	Cost	Task Totals
Vice President/Principal	1.0	268.00	
Senior Advisor	2.0	538.00	
Senior Professional	32.0	6,720.00	
Project Professional	24.0	4,032.00	
Administrative/Intern	4.0	280.00	
Total Man-Hours	63.0		
Labor Cost			11,838.00
<i>Total Task 5</i>			\$ 11,838.00

TASK 6: Aids to Navigation

<i>Labor</i>	Hours	Cost	Task Totals
Vice President/Principal	1.0	268.00	
Senior Advisor	7.0	1,883.00	
Senior Professional	16.0	3,360.00	
Total Man-Hours	24.0		
Labor Cost			5,511.00
<i>Total Task 6</i>			\$ 5,511.00

Project Total \$ 395,638.60

Sub-Contractor Proposals
Teracon, Inc.

January 31, 2023

Taylor Engineering, Inc.
10199 Southside Boulevard, Suite 310
Jacksonville, Florida

Attn: Terrance Cake, P.E., Senior Engineer
P: 352-538-1556
E: tcake@taylorengeering.com

RE: Revised Proposal for Geotechnical Engineering Services
DMMA HD-1 Offloading Site Permitting and Final Design
Okeechobee Waterways
Martin County, Florida
Terracon Proposal No. PH4225231

Dear Mr. Cake:

We appreciate the opportunity to submit this revised proposal to Taylor Engineering, Inc. (Taylor Engineering) to provide Geotechnical Engineering services for the above referenced project. The following are exhibits to the proposal document.

Exhibit A	Project Understanding
Exhibit B	Scope of Services
Exhibit C	Safety, Assumptions, and Exclusions
Exhibit D	Compensation and Project Schedule
Exhibit E-1	Site Location Map
Exhibit E-2	HD-1 Site Location Map and Nearby Geotechnical Projects
Exhibit F	HD-1 Anticipated Exploration Plan
Exhibit G	Furnished Preliminary Permit Design Plans and Drawings

This proposal includes revisions to our field exploration plan (i.e., elimination of one water based boring because of reduction in the proposed bulkhead length from 300 feet to 150 feet) and supersedes our original proposal dated January 5, 2023, and includes scope changes as discussed with Taylor Engineering on January 26, 2023.

Our base fee to perform the Scope of Services described in this proposal (see **Exhibit B**) is \$99,000 as discussed in **Exhibit D**. The base fee includes a subcontractor fees for water based drilling, and private utilities locates for field exploration program as discussed

in **Exhibit B**. Please refer to **Exhibit C** for details of our safety, assumptions, and exclusions. **Exhibit D** includes details of our fees and consideration of additional services as well as a general breakdown of our anticipated schedule. **Exhibits E and F** provide site location maps and field exploration plans, respectively, while **Exhibit G** contains pertinent preliminary permit plans and drawings provided to Terracon at the time of this writing.

Your authorization for Terracon to proceed in accordance with this proposal can be issued in the form of a Subcontract Agreement between Taylor Engineering, Inc. and Terracon Consultants, Inc.

We appreciate the opportunity to submit this proposal, and we look forward to working with you on this project. If you have any questions, please do not hesitate to contact us.

Sincerely,
Terracon

Karishma R. Desai, P.E.
Senior Engineer

Douglas S. Dunkelberger, P.E.
Principal/ Geotechnical Department Manager

Proposal for Geotechnical Engineering Services
DMMA HD-1 Offloading Site Permitting and Final Design | Martin County, Florida
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Exhibit A – Project Understanding

Our Scope of Services is based on our understanding of the project as described by Taylor Engineering and the expected subsurface conditions as described below. We visited the project site on December 21, 2022, to confirm the information provided and to evaluate site conditions for access. Aspects of the project, undefined or assumed, are highlighted as shown below. We request Taylor Engineering and/or the design team verify all information prior to our initiation of field exploration activities.

Planned Construction

Project Description

The purpose of this project is to provide material handling and long-term dredged material management of sediments accumulated within the Okeechobee Waterway (OWW) contained by the Herbert Hoover Dike (HHD). We understand the Florida Inland Navigation District (F.I.N.D.) has identified two sites for design and construction. The HD-1 will serve as the material handling and offloading facility, while the LT-4A will provide storage requirements for the dredging of the eastern portions of the Lake Okeechobee Cross Lake Channel – Route 1 in Martin and Palm Beach Counties, Florida.

This proposal includes our field exploration and laboratory testing program and associated engineering analyses for HD-1 site only. By request, LT-4A geotechnical exploration and engineering analyses will be part of a separate proposal provided at a later date.

Previous Nearby Studies

Terracon has previously completed several geotechnical engineering studies for similar types of projects and in the general vicinity of this project. Some of these studies were documented in our reports entitled:

- New Control Building at Julian Keen Jr. Boat Lock
204 Lock Road
Moore Haven, Florida
Terracon Project No. HD205083
Report Dated: March 8, 2022
Prepared for: Pennoni Associates, Inc., Delray Beach, Florida
- New Control Building at WP Franklin Boat Lock

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1661 South Franklin Lock Road
Alva, Florida
Terracon Project No. HD205083
Report Dated: March 8, 2022
Prepared for: Pennoni Associates, Inc., Delray Beach, Florida

- New Control Building at Port Mayaca Boat Lock
18100 SW Conners Highway
Port Mayaca, Florida
Terracon Project No. HD205083
Report Dated: February 22, 2022
Prepared for: Pennoni Associates, Inc., Delray Beach, Florida
- Preliminary Rock Survey
Trucane Sugar Sod Farm
Porty Mayaca, Florida
Terracon Project No. WPB-08-7213 (Dunkelberger Engineering & Testing, Inc.)
Report Dated: April 1, 2008
Prepared for: Trucane Sugar Corporation, West Palm Beach, Florida

Reference to **Exhibit E** should be made for general vicinity of these previous projects.

Furnished Information

The plans and documents for the proposed project were provided to us by Taylor Engineering during the period of December 12, 2022, to January 26, 2023, and are summarized below:

- Request for Proposal for Geotechnical Engineering Services Document
Prepared By: Taylor Engineering, Inc.
Dated: December 12, 2022
Furnished on: December 12, 2022
- Addendum to Attachment A – Request for Proposal (Item I, No. 6)
Request for Proposal for Geotechnical Engineering Services Document
Prepared By: Taylor Engineering, Inc.
Dated: December 12, 2022
Furnished on: December 19, 2022

Proposal for Geotechnical Engineering Services
DMMA HD-1 Offloading Site Permitting and Final Design | Martin County, Florida
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- Topographic and Bathymetric Survey
Of Lake Okeechobee Waterway
Designated Site HD-1
Palm Beach County, Florida
Sheet Nos. 1 through 6, including Cover
Prepared For: Taylor Engineering, Inc.
Prepared By: Morgan & Eklund, Inc.
Drawings Dated: October 17, 2008
Date of Survey: April 10, 2008

- AutoCAD file of Topographic and Bathymetric Survey Of Lake Okeechobee
Waterway Designated Site HD-1
Palm Beach County, Florida
File Name: HD1.dwg

- Boundary & Topographic Survey
F.I.N.D. Site LT-4A
Palm Beach County, Florida
Sheet Nos. 1 through 6, including Cover
Prepared For: Taylor Engineering, Inc.
Prepared By: Morgan & Eklund, Inc.
Drawings Dated: March 17, 2009
Date of Survey: March 11, 2009

- AutoCAD Boundary & Topographic Survey
F.I.N.D. Site LT-4A
Palm Beach County, Florida
File Name: 5482-01_LT-4A-BOUNDARY.dwg

Proposal for Geotechnical Engineering Services
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■ FIND OWW Dredged Material Management Area LT-4A Plan Sheets

Palm Beach County, Florida

- Figure 1.1 – Location Map (Sheet 1 of 6)
- Figure 2.1 – Vegetation and Land Use Map (Sheet 2 of 6)
- Figure 2.2 – HD-1 and HD-3 Reach Limits (Sheet 3 of 6)
- Figure 2.3 – Site Plan (Sheet 4 of 6)
- Figure 2.4 – Sections (Sheet 5 of 6)
- Figure 3.1 – Truck Route from Site HD-1 and HD-3 to LT-4A (Sheet 6 of 6)

Prepared For: Taylor Engineering, Inc.

Drawings Dated: September 2009

■ Dredged Material Management Site HD-1 Plan Sheets

Martin and Palm Beach County, Florida

- Figure 1.1 – Location Map (Sheet 1 of 7)
- Figure 2.1 – Preliminary Site Plan (Sheet 2 of 7)
- Figure 2.2A – Preliminary Site Plan (Detail 1 of 2) (Sheet 3 of 7)
- Figure 2.2B – Preliminary Site Plan (Detail 2 of 2) (Sheet 4 of 7)
- Figure 2.3 – Cross-Sections (Sheet 5 of 7)
- Figure 2.4 – Proposed Truck Haul Route Offloading/Transfer Site HD-1 to Long Term Storage Site LT-4A (Sheet 6 of 7)
- Figure 2.5 – Land Use And Vegetation (Sheet 7 of 7)

Prepared For: Taylor Engineering, Inc.

Drawings Dated: November 2009

The request for proposal document included *DRAFT Preliminary Borehole Plan*, Sheet 1 of 2 and dated July 2022, for HD-1 and showed the location of five borings. The Sheet 2 of 2 for LT-4A included three boring locations. Note, as of January 4, 2023, LT-4A borings will not be part of this study.

In addition to these documents, several photographs from Taylor Engineering's site visit from Summer of 2022 were provided in an email dated December 16, 2022.

On January 23, 2023, Terracon was provided the following plan, which included the revised location of the 150 feet long bulkhead:

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- Figure 2
Preliminary Site Plan
Dredged Material Management Site HD-1
Okeechobee Waterway
Martin County, Florida
Prepared For: Taylor Engineering, Inc.
Drawings Dated: November 2009

Taylor Engineering also provided us with a report documented in the following:

- Management Plan HD-1
Dredged Material Management Area
Martin County, Florida
Prepared for Florida Inland Navigation District
Prepared by: Taylor Engineering, Inc.
Report Dated: December 2009

This report contained preliminary plans set for HD-1 along with the location plan and logs of borings performed by others, as shown on **Exhibit F**. Several grain size distribution curves were also included in this report.

Proposed Structures/Features

The HD-1 site comprises approximately 7 acres from the crest of the existing Herbert Hoover Dike (HHD) to the adjacent portions of the lake's shoreline and nearshore waters. We understand the HD-1 site will be designed and constructed to receive, dewater, and temporarily store material removed from Reach IA of the OWW, just south of the Port Mayaca Lock during maintenance dredging operations.

Based on the furnished plans and drawings, the offloading area will be located on the north side of the HD-1 site and east of the berthing basin. Initially, a 300 feet long bulkhead (in the north-south direction) with return walls (approximately 60 feet long) on its north and south are proposed within the offloading area, on the northwest side of the HD-1 site. This bulkhead has now been reduced to 150 feet (refer to Exhibit G – Furnished Preliminary Permit Design Plans and Drawings). The maximum proposed dredge depth is approximately 4½ feet or elevation +5.56 feet, NGVD29. We understand the edge of the lake water is at elevation +10 feet, NGVD29. We understand dredging operations will take place from a floating barge and materials will likely be unloaded by a crane on land at the top of the proposed bulkhead.

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The temporary material stockpiling area will be located along the HDD crest and the existing rock revetment, i.e., along the upstream side. The stockpiling area will have a maximum width of approximately 35 feet with a crest at approximate elevation +25 feet, NGVD29, which is the toe of the HDD and crest of the rock revetment. A 12 feet wide ramp is proposed from the existing HDD road to the temporary material stockpiling area. We assume heavy duty construction equipment/vehicles and dump trucks will access the site. We further assume this ramp would be temporary and constructed compacted native fill material. The existing HDD scenic road is at elevation +36 feet, NGVD29. Refer to Exhibit G for preliminary plans and drawings for additional details provided by Taylor Engineering.

The LT-4A site will be designed to provide long-term storage of sediments as a dredge material management area (DMMA). As stated previously, the LT-4A site geotechnical exploration will be provided under a separate cover.

We assume Taylor Engineering will coordinate with F.I.N.D. and USACE to obtain as-builts plans and drawings for the existing HDD. We also request engineering design properties and reports of the HDD to incorporate into our design. Based on our discussion with Taylor Engineering, the location of the seepage cutoff wall along the HDD will also be provided to us prior to our field operations.

If any of the information provided above is incorrect/changed or becomes invalid, Terracon should be notified immediate to re-evaluate the scope of work provided in this proposal.

Site Location and Anticipated Conditions

Item	Description
Parcel Information	<p>The project is located at Okeechobee Waterways in Martin County, Florida.</p> <p>Specifically, the HD-1 offloading facility will be located within Section 22, Township 40S, and Range 37E, and approximately 1,500 feet south and southeast of the Port Mayaca Lock, at the intersection of the St. Lucie Canal and Lake Okeechobee, in Martin County, Florida. The site is located within the United States Army Corps of Engineers (USACE) right-of-way (ROW).</p> <p>The HD-1 site is at approximately Latitude 26.9793947° North and Longitude 80.6165619° West, (See Exhibit E).</p>

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Current Ground Cover and Existing Topography	Based on a review of available maps and data, and our recent site visit on December 21, 2022, the HD-1 site, from the rock revetment to the paved scenic road, is gently sloping (approximately elevation +36 feet, NGVD29 (east side) to elevation +20 feet, NGVD29 (west side), towards the lake. The groundcover along the side slopes consists of overgrown grass and vegetation.
Site Access	See Exhibit C – Safety, Assumptions, and Exclusions .
Expected Subsurface Conditions	<p>Our experience near the vicinity of the proposed project indicates subsurface conditions generally consist of gravel, fine sand, slightly clayey to clayey fine sand, sandy silt, and silty peat in the upper 4 to 6 feet below existing grade. Thereafter soft to hard silty and sandy limestone exists to depths of approximately 8 to 16 feet. The limestone is underlain by slightly silty to silty fine sand to depths of 20 to 25 feet below grade. Groundwater is generally encountered at approximately 1 to 4 feet below existing grade.</p> <p>Variability in subsurface conditions, i.e., overburden soils, limestone strength and depths, and groundwater levels, are expected at the project sites. Topsoil, muck and fill materials are also anticipated.</p> <p>Borings in the vicinity of the Port Mayaca Lock near the HD-1 site have encountered limestone from depths of approximately 35 to 50 feet or proposed boring depths. The groundwater depths at these sites have ranged from 8 to 23 feet below grade or approximate elevation +2 to +15 feet, NGVD29.</p>

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Exhibit B - Scope of Services

Our proposed Scope of Services consists of field exploration, laboratory testing, and engineering/project delivery. These services are described in the following sections.

Field Exploration

Based on our communication with Taylor Engineering and our understanding of the project requirements, the proposed project features and our experience with similar types of projects in the vicinity of the project site, the following field exploration program is recommended:

Site Location	Type of Test	Number of Tests	Test Designation	Planned Boring Depth (feet) ^{2,3}	Planned Location ⁴
Water	Boring ¹	1	HD-1-W1R	75	Bulkhead
Land	Borings ¹	4	HD-1-B1 through HD-1-B4	50	Temporary Offloading Storage Facility

1. Standard Penetration Test (SPT) borings.
2. Below existing mudline (water boring) or ground surface (land borings).
3. Based on our past experience and the anticipated geology in the vicinity of the project site, borings would be terminated at depths shown in the table above, unless as determined by the Geotechnical Engineer if difficulty drilling is encountered.
4. The planned boring locations are shown on the attached [Exhibit F, Anticipated Exploration Plan](#).

Based on our understating of the project, and our past experience in the project vicinity, we propose to perform geotechnical field services provided in the table above. We will also hire a private utility locating company to clear utilities at the proposed boring locations at the site. The cost of this is included in our fee estimate provided in [Exhibit D](#).

Our fees do not include fees for permitting. We assume if permitting is required, it will be obtained by Taylor Engineering. [Exhibit E](#) should be referenced the boring designations and locations.

Boring locations may be adjusted at the time of drilling based on utility clearance.

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Note, the lateral spacing between the boring locations generally ranges from approximately 400 to 500 feet, with the exception of the bulkhead boring (see [Exhibit F](#) for the proposed locations). In our professional opinion, these spacings should be sufficient to assess the subsurface conditions at the site to providing engineering evaluation and recommendations, as an adjustment (i.e., increase) to boring locations provided on the furnished Preliminary Borehole Plans.

Boring Layout and Elevations: We will use handheld GPS equipment to locate borings with an estimated horizontal accuracy of +/-20 feet. Field measurements from existing site features may be utilized. If available, approximate elevations will be obtained by interpolation from a site specific, surveyed topographic map. We can alternatively coordinate with Taylor Engineering to include locations and surface elevations in project information. Terracon recommends a location and topographical survey of the boring locations be performed by a licensed surveyor. These services are not part of our scope of work; however, we recommend Taylor Engineering hire a licensed surveyor.

Subsurface Exploration Sequence and Procedures: Prior to drilling, in accordance with the USACE requirements, a Drilling Program Plan (DPP) for HD-1 site will be prepared by Terracon and provided to Taylor Engineering for review and approval. Prior to mobilization, we will also stake boring locations and subcontract a private utility locating services company to clear drilling locations of utility conflict.

We will advance the land based borings with a truck-mounted drill rig (along HDD). We will subcontract a drilling contractor who will mobilize a barge mounted drill rig to drill water boring. A boat ramp located approximately 9 miles south of HD-1 site will be utilized to launch marine equipment. Weather depending, during our field operations, we plan to anchor/stabilize the barge onsite using spuds.

Drilling will be performed using rotary wash boring technique. Five samples (i.e., 2-foot centers) will be obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter to maximum boring depths presented in the table above or refusal, if encountered. Soil sampling will be performed using split-barrel sampling procedures. The split-barrel samplers are driven in accordance with the standard penetration test (SPT). The samples will be placed in appropriate containers, and taken to our soil laboratory for testing, and visually classified by a Geotechnical Engineer. In addition, we will observe and record groundwater levels during drilling and sampling. A Terracon geotechnical engineer or a geologist will provide drilling oversight and visual soil classification of the borings performed for within the HD-1 site.

Up to six (6) Undisturbed (Shelby tubes) samples may be obtained for cohesive samples, if encountered, within the proposed construction areas. The Shelby tubes will be capped

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and sealed in the field and transported to our soil laboratory for subsequent laboratory testing, where they will be visually classified by a Geotechnical Engineer.

Borings will be drilled to the maximum depths shown in the table above, unless unforeseen conditions are encountered, at which time we will access the subsurface conditions encountered and communicate with Taylor Engineering to possibly extend boring depths or add boring locations. We will subsequently request for a change of scope and fees based on approval of additional field services.

Rock coring will not be performed for this project.

Our proposed budget considers water is available on-site. We plan to use the lake water for HD-1 field operations otherwise, Terracon will be required to rent a water truck. Our base fees provide in [Exhibit D](#) does not include this cost; however, we have provided approximate cost for renting a water truck in [Exhibit D](#) under Additional Services .

Our exploration team will prepare field boring logs as part of standard drilling operations including sampling depths, penetration distances, and other relevant sampling information. Field logs include visual classifications of materials observed during drilling and our interpretation of subsurface conditions between samples. Final boring logs, prepared from field logs, represent the Geotechnical Engineer's interpretation and include modifications based on observations and laboratory tests.

Property Disturbance: Terracon will take reasonable efforts to reduce damage to the property. However, it should be understood that in the normal course of our work some disturbance could occur including rutting of the ground surface and damage to landscaping and/or crops.

Upon completion of drilling and sampling, we will backfill the borings (land and water) with bentonite pellets/ cement-bentonite grout mix using tremie pipe grouting methods. Containing and disposal of drilling spoils is not included as part of our scope of services.

Reference to [Exhibit C – Safety, Assumption, and Exclusion](#) section should be made for additional safety considerations and our assumptions and exclusions.

Laboratory Testing

The project engineer will review field data and assign laboratory tests to understand the engineering properties of various soil and rock strata. The actual number and type of tests will be contingent on the samples encountered by our borings, and the method of sample

recovery (disturbed or undisturbed) until completion of fieldwork, but we anticipate the following laboratory testing may be performed:

- Water Content
- Atterberg Limits (plasticity)
- Grain Size Distribution
- Fines Content (percent of soil particles finer than the No. 200 mesh sieve)
- Organic Content (loss-on-ignition)
- One Dimensional Consolidation
- Unit Dry Weight
- Unconfined Compressive Strength
- Unconfined Unconsolidated Triaxial Shear

The laboratory testing will be performed in accordance with ASTM standards.

Our laboratory testing program often includes examination of soil samples by an engineer. Based on the results of our field and laboratory programs, we will describe and classify soil samples in accordance with the Unified Soil Classification System (USCS).

If bedrock samples are obtained (SPT methods only), rock classification will be conducted using locally accepted practices for engineering purposes.

Engineering and Project Delivery

The results of our field and laboratory programs will be evaluated, and a geotechnical engineering report will be prepared under the supervision of a licensed professional engineer. The geotechnical engineering report will provide the following:

- Site Location and Exploration Plans.
- Subsurface exploration procedures.
- Boring logs with field and laboratory data, including soil chemical testing.
- Stratification based on visual soil (and rock) classification.
- Description of subsurface conditions.
- Groundwater levels observed during (if applicable) and after the completion of drilling.
- Recommended soil design parameters for bulkhead design by others.
- Recommendations for single, vertical allowable pile (open end steel pipe piles for two sizes only) load capacity for support of bulkhead deep foundation.
- Lateral earth pressure parameters for buried structures.

Proposal for Geotechnical Engineering Services

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- Evaluation of global slope stability of the HD-1 for one dredge cut and minimum bulkhead tip determination (Figure 2.3, Section A) **using Spencer's Method**.
- Evaluation of global slope stability of the HD-1 proposed berthing basin/ramp (Figure 2.3, Section B) and temporary material stockpiling area (Figure 2.3, Section C) **using Spencer's Method**.
- Guideline recommendations for erosion control on the dike/berm slopes.
- Estimates of settlement due to fill placement (earthen embankment).
- Guideline comments relative to natural sinkhole development potential in the project vicinity based on available data.
- An evaluation of the acceptability of the soils to be excavated from the proposed berthing basin for re-use as structural fill material (dredged material from the lake) for future construction of the DMMA dike/berm.
- An evaluation of unsuitable material or anomalies encountered.
- Earthwork recommendations including site/subgrade preparation.

In addition to an emailed report, your project will also be delivered using our Client Portal. Upon initiation, we provide you and your design team the necessary link and password to access the website (if not previously registered). Each project includes a calendar to track the schedule, an interactive site map, a listing of team members, access to the project documents as they are uploaded to the site, and a collaboration portal. We welcome the opportunity to have project kickoff conversations with the team to discuss key elements of the project and demonstrate features of the portal. The typical delivery process includes the following:

- Project Planning – Proposal information, schedule and anticipated exploration plan
- Site Characterization – Findings of the site exploration and laboratory results
- Geotechnical Engineering Report

When services are complete, we upload a printable version of our completed Geotechnical Engineering **report, including the professional engineer's seal and signature**, which documents our services. Previous submittals, collaboration, and the report are maintained in our system. This allows future reference and integration into subsequent aspects of our services as the project goes through final design and construction.

Exhibit C – Safety, Assumptions, and Exclusions

Safety

Terracon is not aware of environmental concerns at this project site that would create health or safety hazards associated with our exploration program; thus, our Scope considers standard OSHA Level D Personal Protection Equipment (PPE) appropriate. Our Scope of Services does not include environmental site assessment services, but identification of unusual or unnatural materials observed while drilling will be noted on our logs.

Exploration efforts require borings (and possibly excavations) into the subsurface, therefore Terracon will comply with local regulations to request a utility location service Sunshine (811) One Call of Florida (SSOCOF). We understand Taylor Engineering will consult with the landowner/client regarding potential utilities or other unmarked underground hazards. Based upon the results of this consultation, we may consider the need for alternative subsurface exploration methods as the safety of our field crew is a priority.

Private utilities should be marked by the owner/client prior to commencement of field exploration. Terracon will not be responsible for damage to private utilities not disclosed to us.

Because of the presence of previously existing features within the proposed field exploration area, and potential for associated private utility lines, Terracon proposes to subcontract a private utility locating service to identify underground utilities around our planned boring locations. Fees associated with this service are included in our Scope of Services. Please refer to **Exhibit D**. This service is performed in addition to the standard 811 public utility notification. Terracon will assist the owner/client by coordinating or subcontracting with a private utility locating service for clearance of the boring locations from utilities. The detection of the existing underground utilities is dependent upon the composition and construction of the utility line; some utilities are comprised of non-electrically conductive materials and may not be readily detected. The use of a private utility locate service would not relieve the owner of their responsibilities in identifying private underground utilities.

The detection of underground utilities is dependent upon the composition and construction of the utility line; some utilities are comprised of non-electrically conductive materials and may not be readily detected. The use of a private utility locate service would not relieve the landowner/client of their responsibilities in identifying private underground utilities.

Assumptions and Exclusions

Our fee estimate provided subsequently in **Exhibit D** is based on the following assumptions and exclusions:

- Taylor Engineering will provide right-of-entry to Terracon and its drilling subcontractor for the property at no cost, as well as notify current property users (USACE and other land owners) of our impending exploration and study.
- The land boring locations will be accessible to our truck mounted drilling equipment.
- The water boring will be drilled using a drill rig mounted on a shallow draft barge.
- Terracon will have unrestricted access to the site during the study.
- Standby time to wait for site access or obstructions to be cleared is not included in this proposal.
- Containment of drilling spoils into drums, environmental sampling, and testing are excluded. If required by the USACE, we have provided estimated cost in **Exhibit D**.
- No traffic control plan or signage and traffic cones will be required.
- All field operations will be performed during normal business hours (i.e., between about 7:00 AM and 5:00 PM). Also refer to the Site Access section on the following page.
- We assume our field equipment can be stored overnight on-site until field operations/testing are completed.
- No overhead obstructions will be encountered during the drilling operations.
- Terracon will not be held responsible for damage to underground utilities not made known to us. Reference to the Safety section above should be made for underground utility locates.
- Our proposal does not include costs associated with repairing any ruts or trails caused by the movement of field equipment and support vehicles.
- Terracon is not responsible for obtaining any permits for drilling and assume Taylor Engineering will obtain, if necessary.
- GPS coordinates (latitude and longitude) will be obtained by Terracon using a handheld device.
- Terracon has assumed a topographical survey post drilling is not required. If required, Taylor Engineering would need to hire a licensed surveyor. As stated previously, we recommend the boring locations be surveyed after completion of drilling operations.
- In the event additional field effort is required Terracon will contact Taylor Engineering before proceeding.

- Overburden at the proposed boring location does not include rubble fill (i.e., riprap, boulders, etc.) or other obstructions (i.e., buried foundations, infilled basements, cisterns or cellars, etc.) that cannot be easily penetrated with conventional drilling sampling tools, rock bits, and flight augers.
- Site-specific safety/access requirements for our field engineer/geologist, our field crew and our subcontractors will be provided to us by Taylor Engineering prior to mobilization. We assume the following:
 - Site-specific training will not be required.
 - Covid-19 or drug testing is not required.
 - MSHA/OSHA Basic training is not required for field operations.
- We assume a tremie pipe grouting method is acceptable to seal the borings upon completion of sampling.
- Terracon will provide a Drilling Program Plan (DPP) for HD-1 water and land based drilling to Taylor Engineering for review and approval by F.I.N.D. and USACE prior to mobilization.
- Terracon will prepare a Site-specific Health and Safety Plan (HASP) for the work proposed.
- Delays in fieldwork due to actions by others, or site restrictions resulting in one hour or greater of discontinuous operations, will be charged at a rate of \$450.00 per hour. Please also refer to **Exhibit D**.
- Evaluation of local wall (cantilever and/or anchored) stability using conventional lateral earth pressure theory will be performed by others.
- Our proposal is valid for sixty (60) calendar days after the date of this proposal and may be renegotiated after the expiration date.

The scope, costs, and schedules provided herein are based on our general understanding of the conditions at the project site.

Site Access: Terracon must be granted access to the site by the property owner. Without information to the contrary, we consider acceptance of this proposal as authorization to access the property for conducting field exploration in accordance with the Scope of Services. Our proposed fees do not include time to negotiate and coordinate access with landowners or tenants. Terracon will conduct field services during normal business hours (Monday through Friday between 7:00am and 5:00pm). If our exploration must take place over a weekend or at night, please contact us so we can adjust our schedule and fee.

Traffic Control: Because this project is located with relatively low traffic volumes, we anticipate our borings could be safely performed by using Road Work Ahead signs, cones around our work area, and flashing lights on our equipment. However, if additional traffic

Proposal for Geotechnical Engineering Services
DMMA HD-1 Offloading Site Permitting and Final Design | Martin County, Florida
January 31, 2023 | Terracon Proposal No. PH4225231

control (signboard and/or flagmen) is required, Terracon can subcontract these services. Note, fees for traffic control is not included in [Exhibit D](#). Alternatively, others contracted by the Client could provide all required traffic control as a cost savings measure.

In addition to the services noted above, the following are often associated with geotechnical engineering services. Fees for services noted above do not include the following:

Review of Plans and Specifications: Our geotechnical report and associated verbal and written communications will be used by others in the design team to develop plans and specifications for construction. Review of project plans and specifications is a vital part of our geotechnical engineering services. This consists of review of project plans and specifications related to site preparation, foundation, and pavement construction. Our review will include a written statement conveying our opinions relating to the plans and **specifications' consistency with our geotechnical engineering** recommendations. We have presented a preliminary cost estimate in [Exhibit D](#).

Observation and Testing of Pertinent Construction Materials: Development of our geotechnical engineering recommendations and report relies on an interpretation of soil conditions. Our assessment is based on widely spaced exploration locations and the assumption that construction methods will be performed in a manner sufficient to meet our expectations and consistent with recommendations made at the time the geotechnical engineering report is issued. We should be retained to conduct construction observations, and perform/document associated materials testing, for site preparation, foundation, and pavement construction. These services allow a more comprehensive understanding of subsurface conditions and necessary documentation of construction to confirm and/or modify (when necessary) the assumptions and recommendations made by our engineers.

Perform Environmental Assessments: Our Scope for this project does not include, either specifically or by implication, an environmental assessment of the site intended to identify or quantify potential site contaminants or the presence of pollutants in the soil, rock, or groundwater of the site is beyond the proposed scope of this exploration. If the client/owner is concerned about the potential for such conditions, an environmental site assessment should be conducted. We can provide a proposal for an environmental assessment, if desired.

Terracon is available to provide these supplemental services under a separate authorization as needed.

Exhibit D - Compensation and Project Schedule

Compensation

Based upon our understanding of the site, the project as summarized in [Exhibit A](#), and our planned Scope of Services outlined in [Exhibit B](#), our base fee is shown in the following table:

Tasks	Lump Sum Fee ⁴
Subsurface Exploration (including overwater drilling) ^{1,2,3} , Laboratory Testing, Geotechnical Consulting and Reporting	\$99,000

1. The lump sum fee considers one drill rig mobilization and no unexpected onsite delays. If additional drill rig mobilizations are required for land based and water based drilling, an additional fee of \$4,500 and \$10,500, respectively, would be invoiced. A drill crew standby rate of \$450 per hour would be invoiced for unexpected delays.
2. Includes field oversight by an engineer or geologist for land and overwater drilling and assumes one day of weather related delay for drilling.
3. Includes subcontract cost for private utility locating services. If additional time is required, Terracon will contact Taylor Engineering for prior approval.
4. Proposed fees noted above are effective for 60 days from the date of the proposal.

Our Scope of Services does not include services associated with site clearing, wet ground conditions, tree or shrub clearing, or repair of/damage to existing landscape or crops. If such services are desired by the owner/client, we should be notified so we can adjust our Scope of Services.

Additional services not part of the base fee include the following:

Additional Services (See Exhibits B and C)	Preliminary Lump Sum Fee	Initial for Authorization
Plans and Specifications Review	\$3,500	
Testing and Disposal of soil cuttings and drill fluids (mud) Contained in 55-gallon drums ¹	\$1,750 per drum	
Rental of Water Truck	\$1,500 per week	
Traffic Control	TBD	
Construction Materials Testing Services	TBD	

1. We assume no more than 4 drums or two per water boring.

Unless instructed otherwise, we will submit our invoice(s) to the address shown at the beginning of this proposal. If conditions are encountered that require Scope of Services revisions and/or result in higher fees, we will contact you for approval, prior to initiating services. A supplemental proposal

stating the modified Scope of Services as well as its effect on our fee will be prepared. We will not proceed without your authorization.

Project Schedule

We developed a schedule to complete the Scope of Services based upon our existing availability and understanding of your project schedule. However, our schedule does not account for delays in field exploration beyond our control, such as weather conditions, delays resulting from utility clearance, permit delays, or lack of permission to access the boring locations or approval of the DPP for HD-1. In the event the schedule provided is inconsistent with your needs, please contact us so we may consider alternatives.

Delivery on Client Portal	Schedule from Notice to Proceed ^{1, 2, 3}
Kickoff Call with Taylor Engineering	3 days after notice to proceed
Project Planning, DPP, and Safety	1 week or 7 days ⁴
Land Borings - Mobilization	4 weeks or 20 days ⁴
Water Boring - Mobilization	10 weeks or 50 days ⁵
Site Characterization	12 to 14 weeks (i.e., 4 weeks or 20 days after completion of field program ^{3, 5})
Draft Geotechnical Engineering and Report	20 weeks ⁵
Review Comments and Meeting with Taylor Engineering/F.I.N.D (as necessary)	22 weeks ⁵
Final Geotechnical Engineering	24 weeks ⁵

1. Upon receipt of your notice to proceed we will activate the schedule component on Client Portal with specific, anticipated dates for the delivery points noted above as well as other pertinent events.
2. Standard workdays. We will maintain an activities calendar within on Client Portal. The schedule will be updated to maintain a current awareness of our plans for delivery.
3. All activities will be conducted concurrently.
4. All business/working days and does not include weekends or holidays and depending on weather conditions, and after receiving an executed contract and written notice-to-proceed.
5. These are considered to be tentative milestones that depend on approval of the DPP for HD-1; availability of our subcontractor; depending on weather conditions; and after receiving an executed contract and written notice-to-proceed.

Exhibit E-1 – Site Location Map

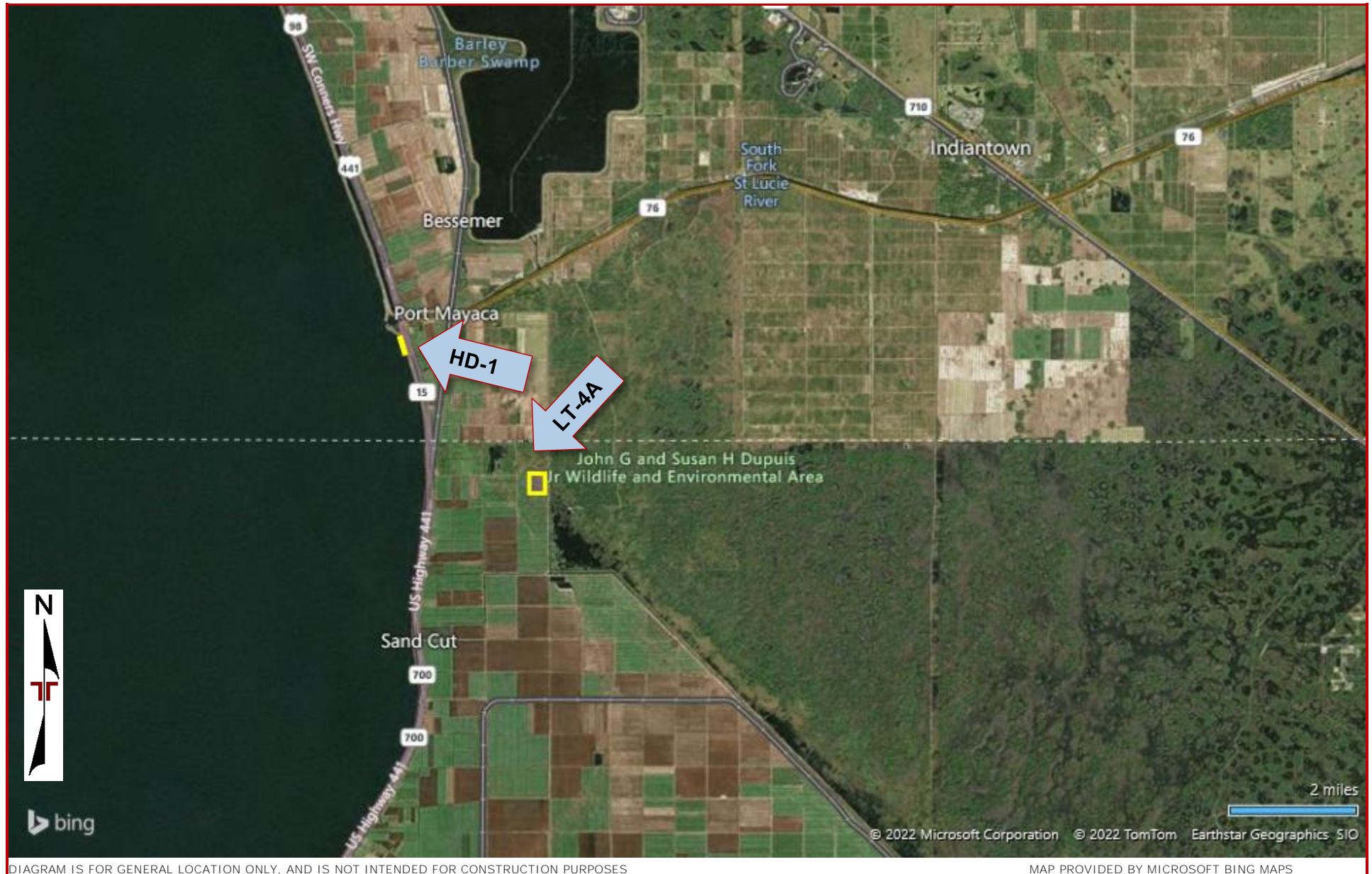


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

Exhibit E-2 – HD-1 Site Location Map and Nearby Geotechnical Projects

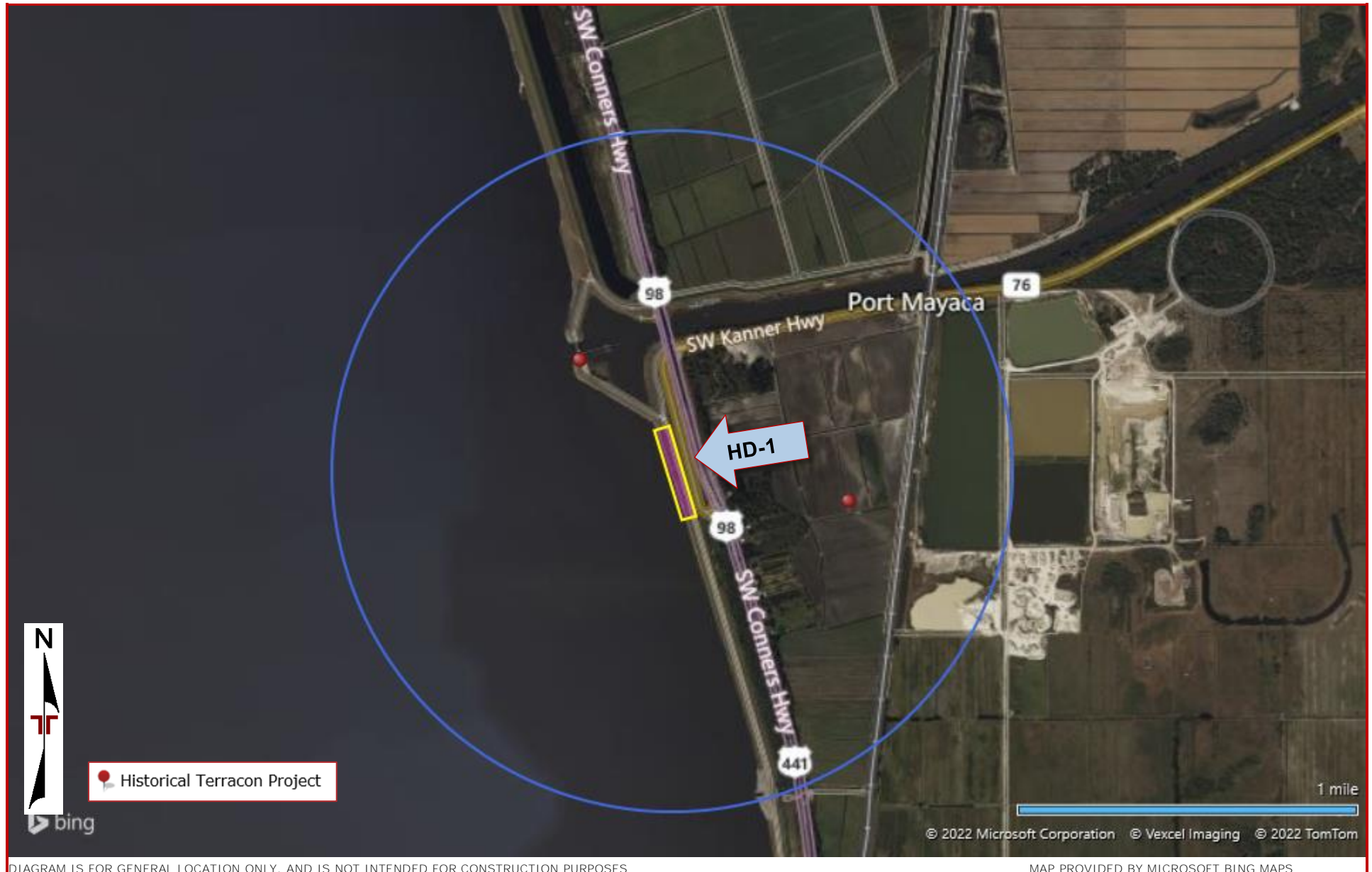


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

Exhibit F – HD-1 Anticipated Exploration Plan

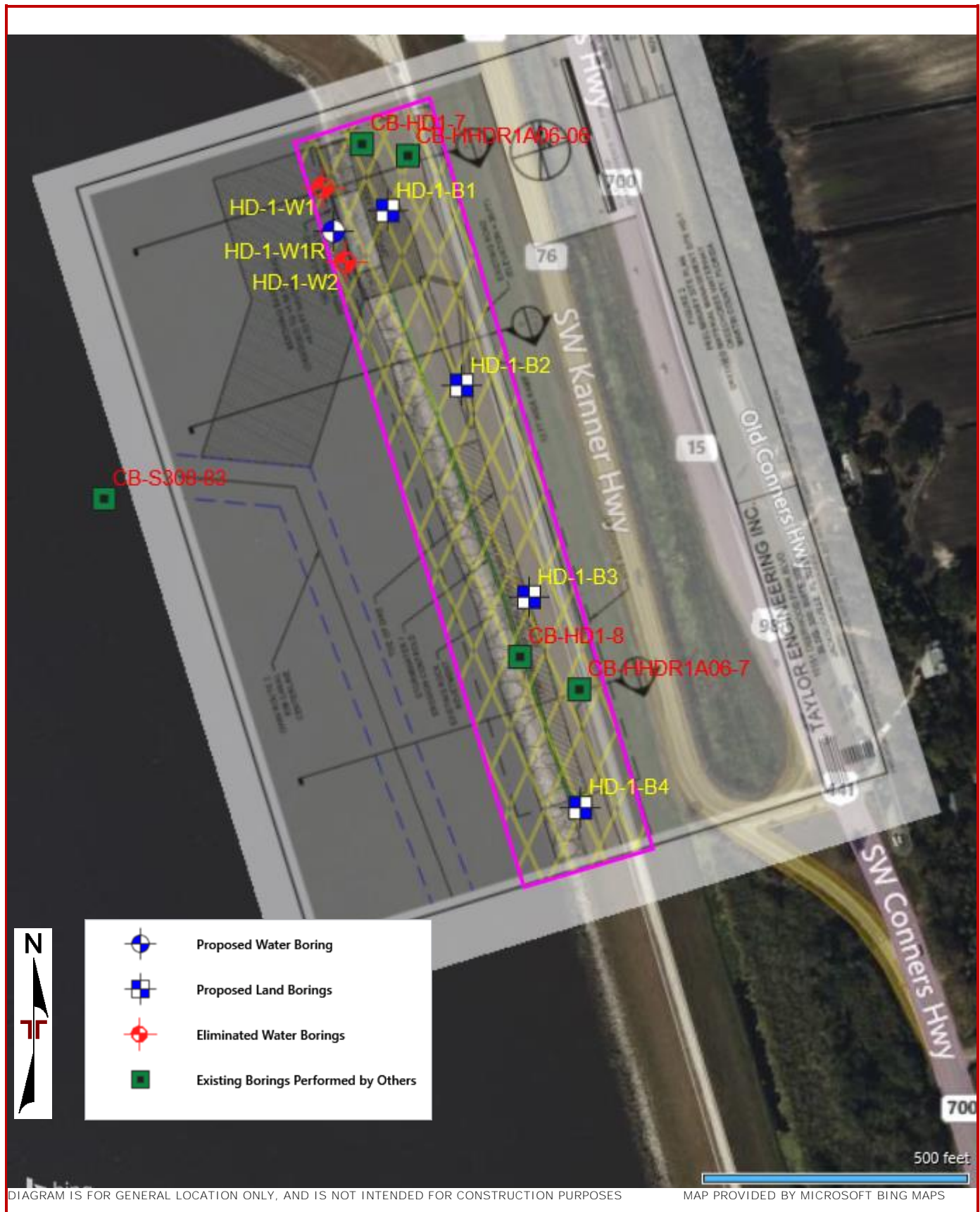


Exhibit G – Furnished Preliminary Permit Design Plans and Drawings

- Topographic and Bathymetric Survey of Lake Okeechobee Waterway Designated Site HD-1
Palm Beach County, Florida
- Dredged Material Management Site HD-1 Plan Sheets
Martin and Palm Beach County, Florida
- Figure 2
Preliminary Site Plan
Dredged Material Management Site HD-1
Okeechobee Waterway
Martin County, Florida

TOPOGRAPHIC AND BATHYMETRIC SURVEY
OF LAKE OKEECHOBEE WATERWAY
DESIGNATED SITE HD-1
PALM BEACH COUNTY, FLORIDA

—FOR—

TAYLOR ENGINEERING, INC.

COMMISSION NO. 5482.01

PREPARED BY:

MORGAN & EKLUND, INC.

PROFESSIONAL SURVEY CONSULTANTS



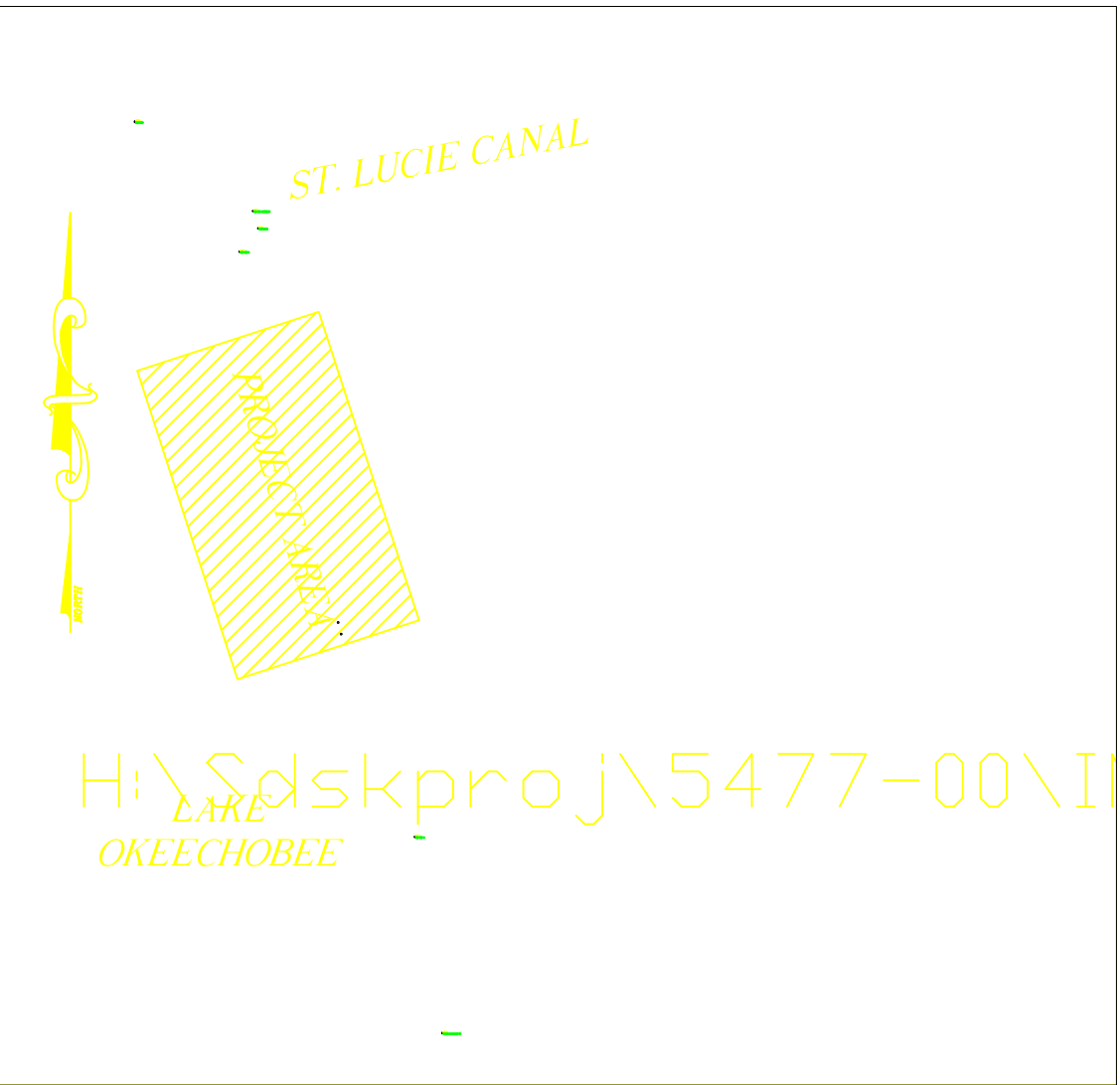
8745 US HIGHWAY #1
P.O. BOX 701420
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FAX: (561) 388-3165

1500 S.E. 3RD COURT
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PHONE: (954) 421-6882
FAX: (954) 421-0451

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	BOUNDARY SURVEY
3	ELEVATION DATA
4	CONTOUR DATA
5-6	CROSS SECTION DATA

FIELD BOOKS: PALM BEACH 95 PAGES 5-7

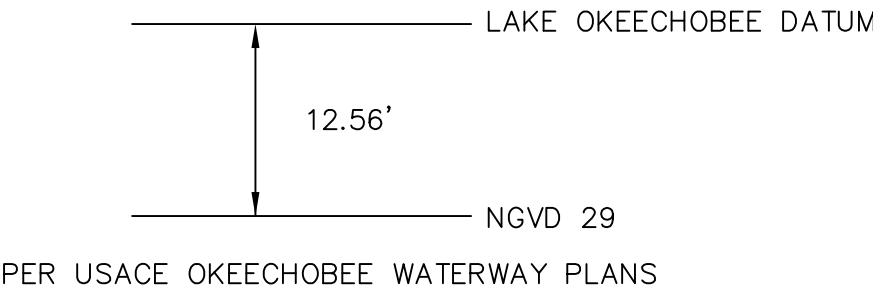


LOCATION MAP
1" = 2,000 FEET

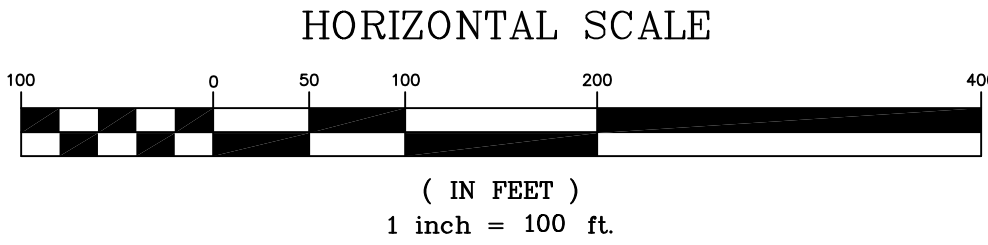
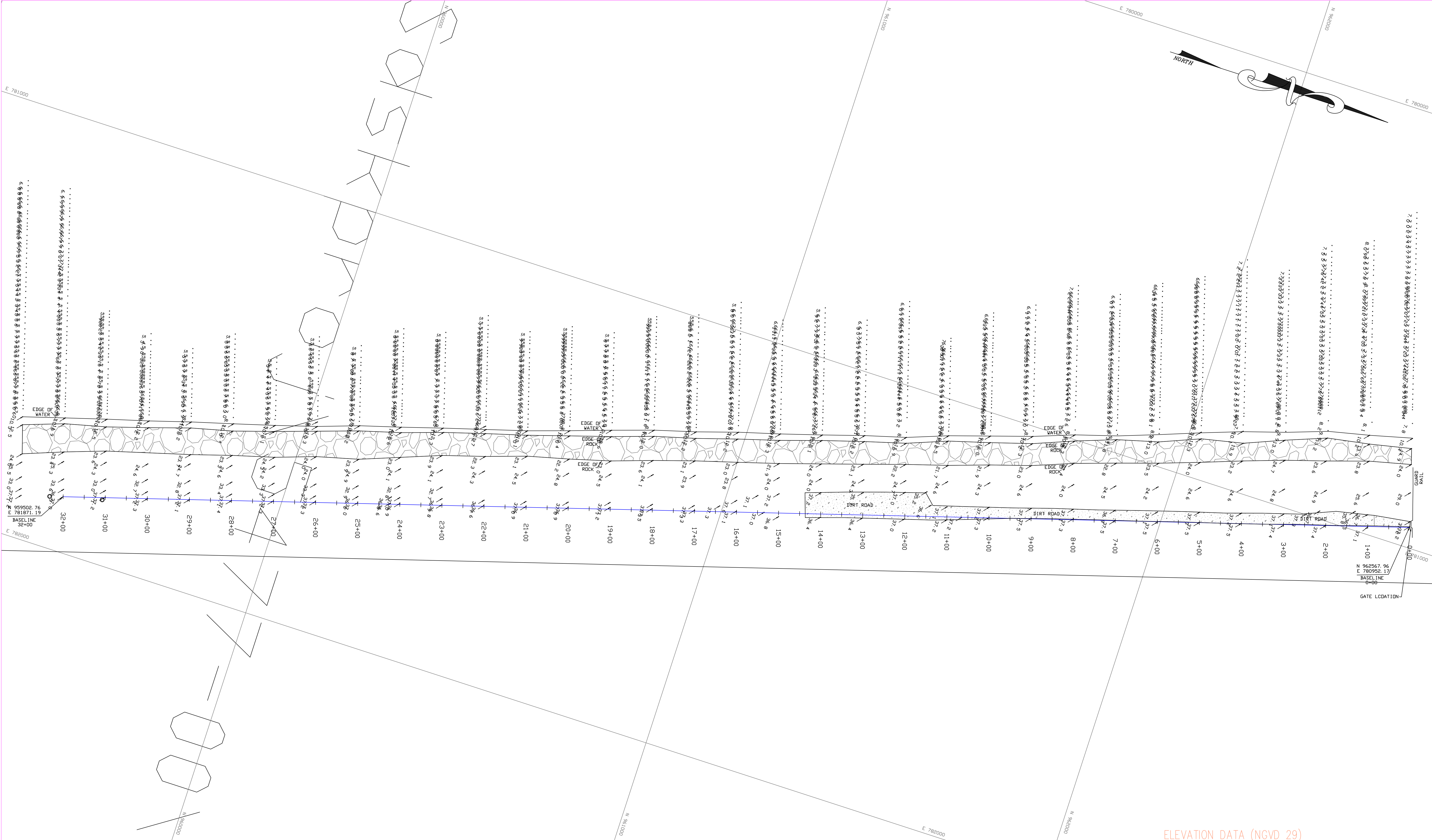
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- GRID COORDINATES SHOWN ARE IN FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, NGS ADJUSTMENT OF 1990 (NAD 83/90).
- GRID COORDINATES ARE BASED ON THE MIAMI & CANAVERAL DIFFERENTIAL C.O.R.S. BEACON BROADCASTING AT 289 KHz.
- ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
- ELEVATIONS ARE BASED ON A "ACOE" BRASS DISK "PBM BM3 JAX FLA 1980" HAVING AN ELEVATION 36.81' NGVD 29 AND A M&E CONTROL POINT LB 4298 HAVING AN ELEVATION 37.17'
- HORIZONTAL POSITIONING UTILIZED A TRIMBLE 4000 GPS RECEIVER LINKED TO A TRIMBLE PRO-BEACON DIFFERENTIAL BEACON RECEIVER WITH REAL TIME CORRECTIONS APPLIED FROM THE CANAVERAL CORS STATION.
- TOPOGRAPHIC INFORMATION DEPICTED ON THIS SURVEY REPRESENTS THE EXISTING CONDITIONS ON THE DATE OF THE FIELD SURVEY.
- AERIAL IMAGERY WAS TAKEN FEBRUARY, 2006 BY AERIAL CARTOGRAPHICS OF AMERICA, INC. (ACA) AND WAS PROVIDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) VIA FTP.
- AERIAL IMAGERY IS DISPLAYED HEREON FOR INFORMATION PURPOSES ONLY, NO PHOTOGRAPHIC ACCURACY IS IMPLIED BY THIS MAP.
- NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- UNDERGROUND UTILITIES AND IMPROVEMENTS NOT LOCATED.


VERTICAL CONTROL DIAGRAM



PER USACE OKEECHOBEE WATERWAY PLANS



SEE SHEET 1 FOR NOTES



MORGAN & EKLUND, INC.

PROFESSIONAL SURVEY CONSULTANTS

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1500 S.E. 3RD COURT
SUITE 110
DEERFIELD BEACH, FL 33441
PHONE: (954) 421-6882
FAX: (954) 421-0451

LB # 4298

CERTIFICATE OF SURVEYOR - I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS IN ACCORDANCE WITH A RECENT FIELD SURVEY MADE UNDER MY DIRECTION, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

JOHN R. MORGAN, II, PLS
PROFESSIONAL LAND SURVEYOR # 3520
STATE OF FLORIDA

ELEVATION DATA (NGVD 29)

TOPOGRAPHIC & BATHYMETRIC SURVEY

LAKE OKEECHOBEE WATERWAY PHASE II

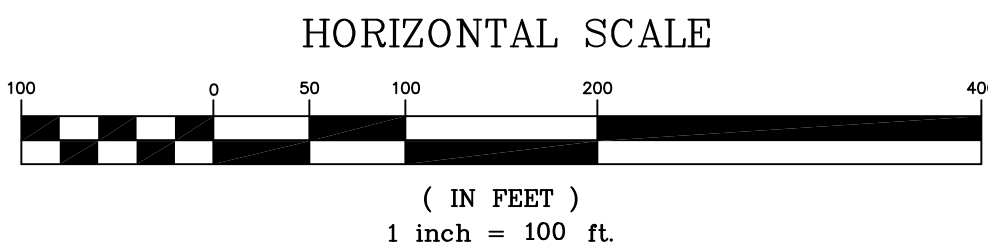
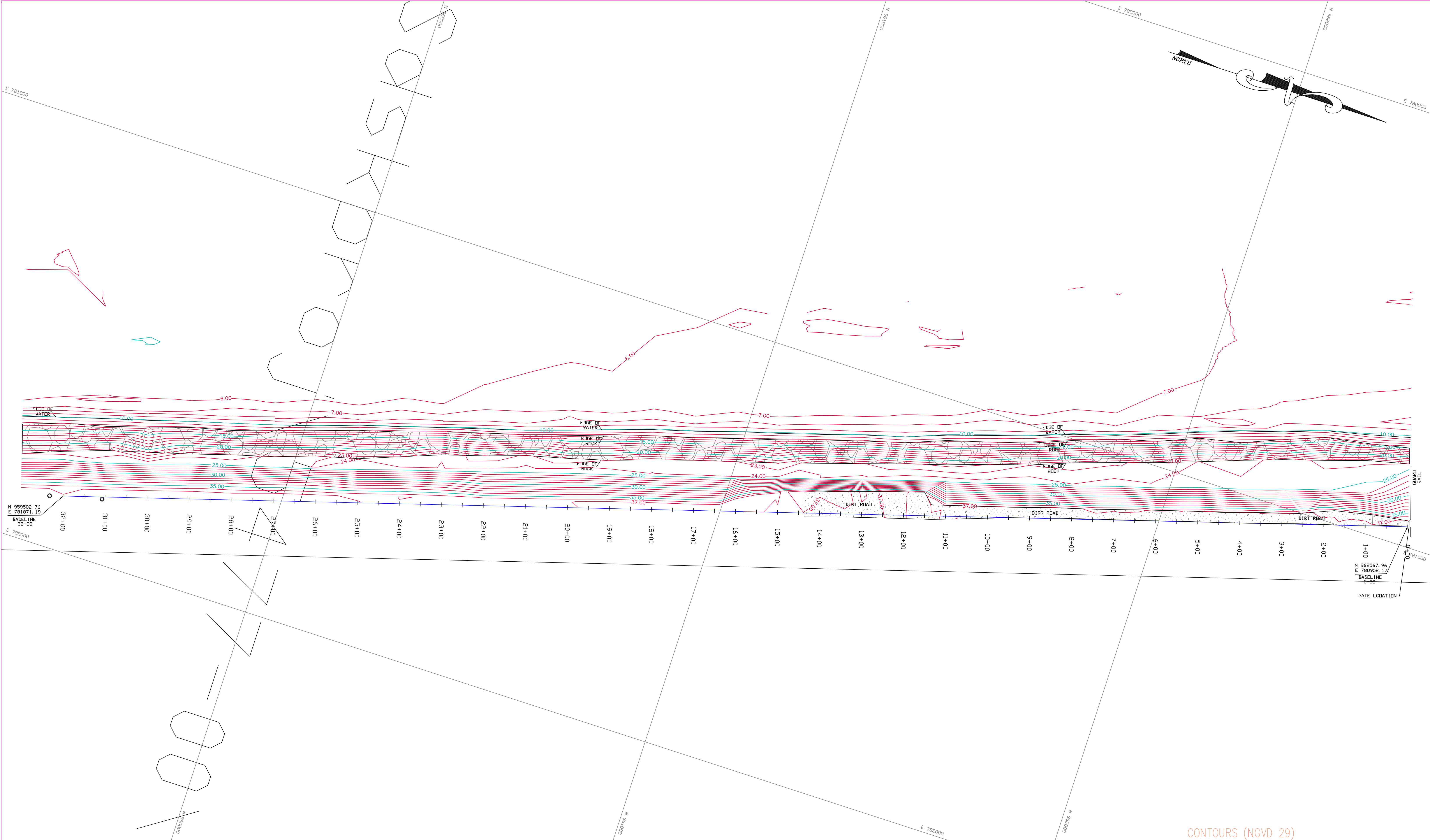
DESIGNATED SITE HD-1

PALM BEACH COUNTY, FLORIDA


FOR TAYLOR ENGINEERING, INC.

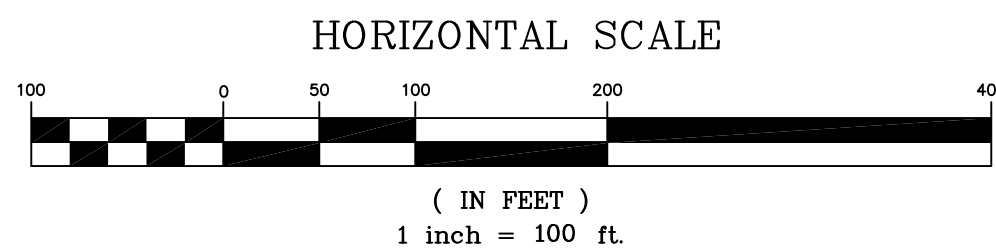
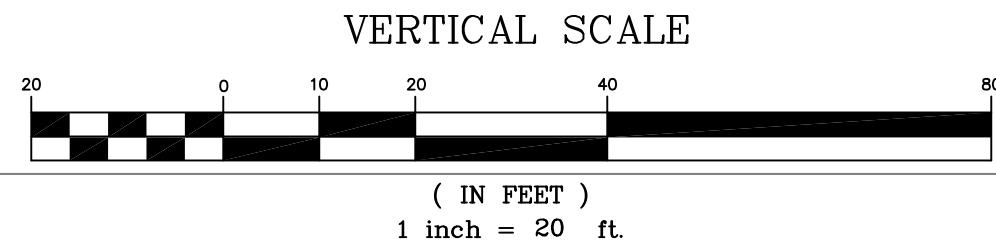
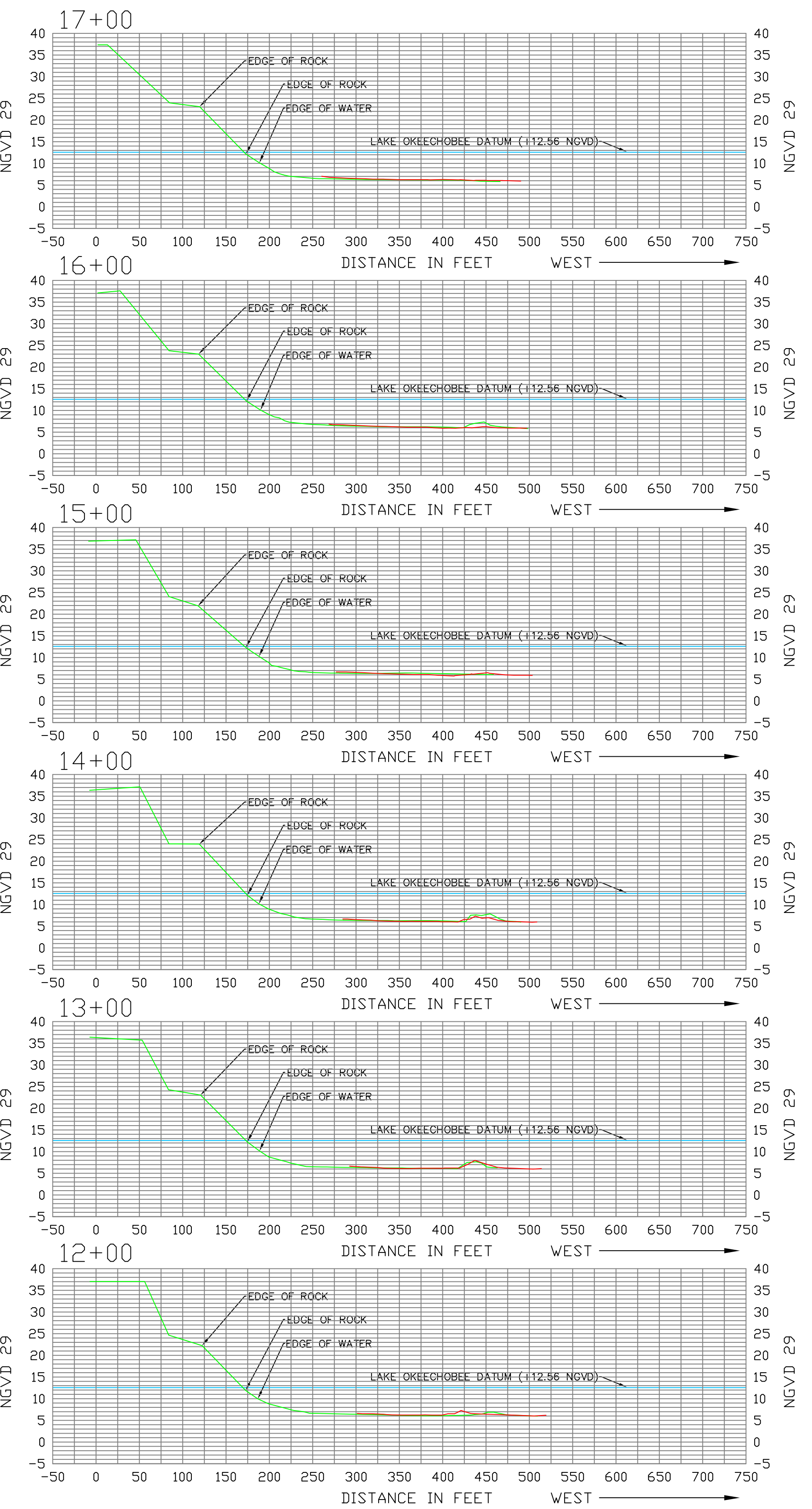
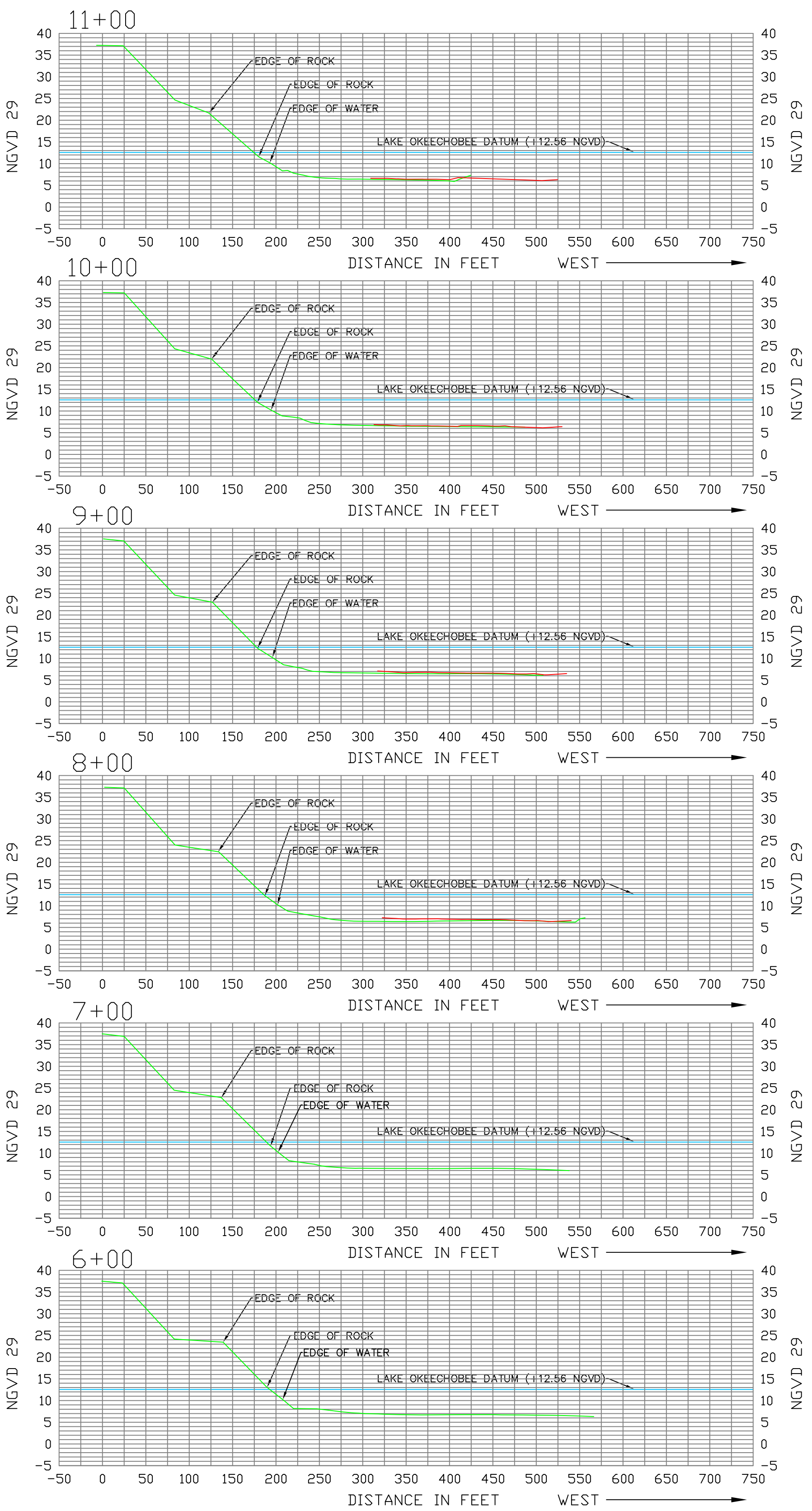
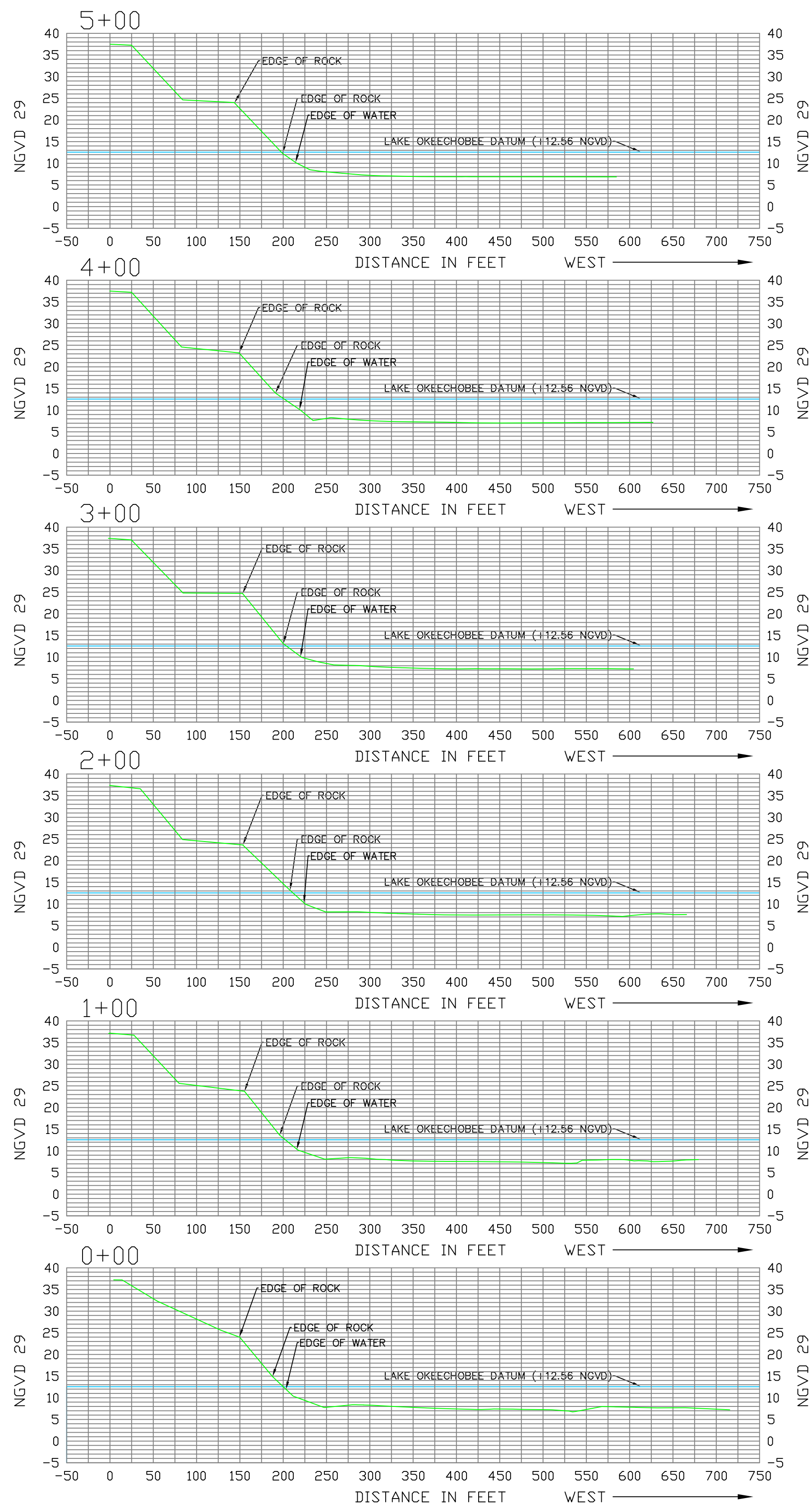
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COMMISSION NO.	5482-01
SCALE	1"=100'
DATE	10/17/08
SHEET	3 OF 6



SEE SHEET 1 FOR NOTES

	MORGAN & EKLUND, INC.		<small>CERTIFICATE OF SURVEYOR - I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS IN ACCORDANCE WITH A RECENT FIELD SURVEY MADE UNDER MY DIRECTION, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-8, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.</small>				COMMISSION NO. 5482-01							
	PROFESSIONAL SURVEY CONSULTANTS													
	8745 US HIGHWAY #1 P.O. BOX 701420 WABASSO, FL 32970 PHONE: (772) 388-5364 FAX: (772) 388-3165		1500 S.E. 3RD COURT SUITE 110 DEERFIELD BEACH, FL 33441 PHONE: (954) 421-6882 FAX: (954) 421-0451		DRAWN BY SAM		CHECKED BY JRM		FIELD BOOK 95 PAGE NO. 5-7		DATE OF SURVEY 4/10/08		SHEET 4 OF 6	
	LB # 4298													



LEGEND
M&E 4/08
M&E 8/06

SEE SHEET 1 FOR NOTES



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JOHN R. MORGAN, II, PLS
PROFESSIONAL LAND SURVEYOR # 3520
STATE OF FLORIDA

CROSS SECTIONS (NGVD 29)
TOPOGRAPHIC & BATHYMETRIC SURVEY
LAKE OKEECHOBEE WATERWAY PHASE II
DESIGNATED SITE HD-1
PALM BEACH COUNTY, FLORIDA
FOR TAYLOR ENGINEERING, INC.

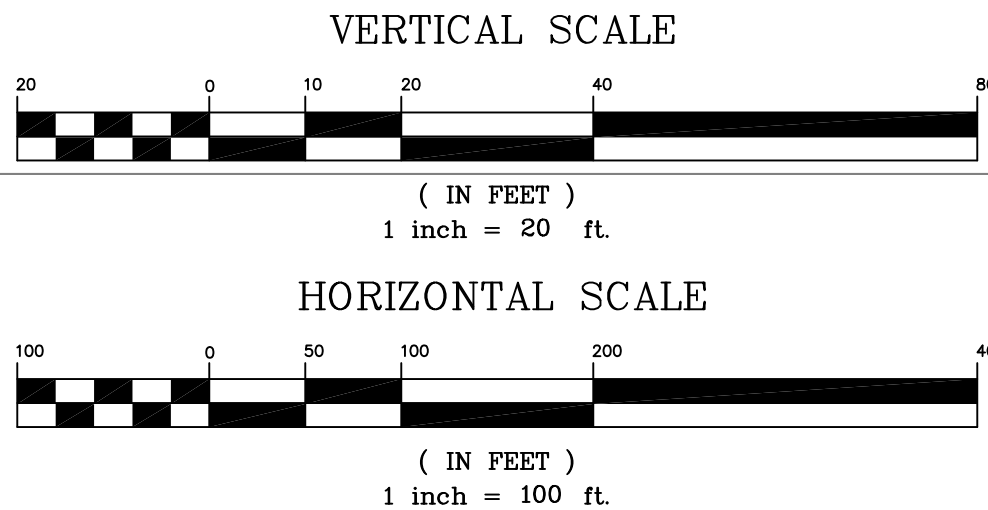
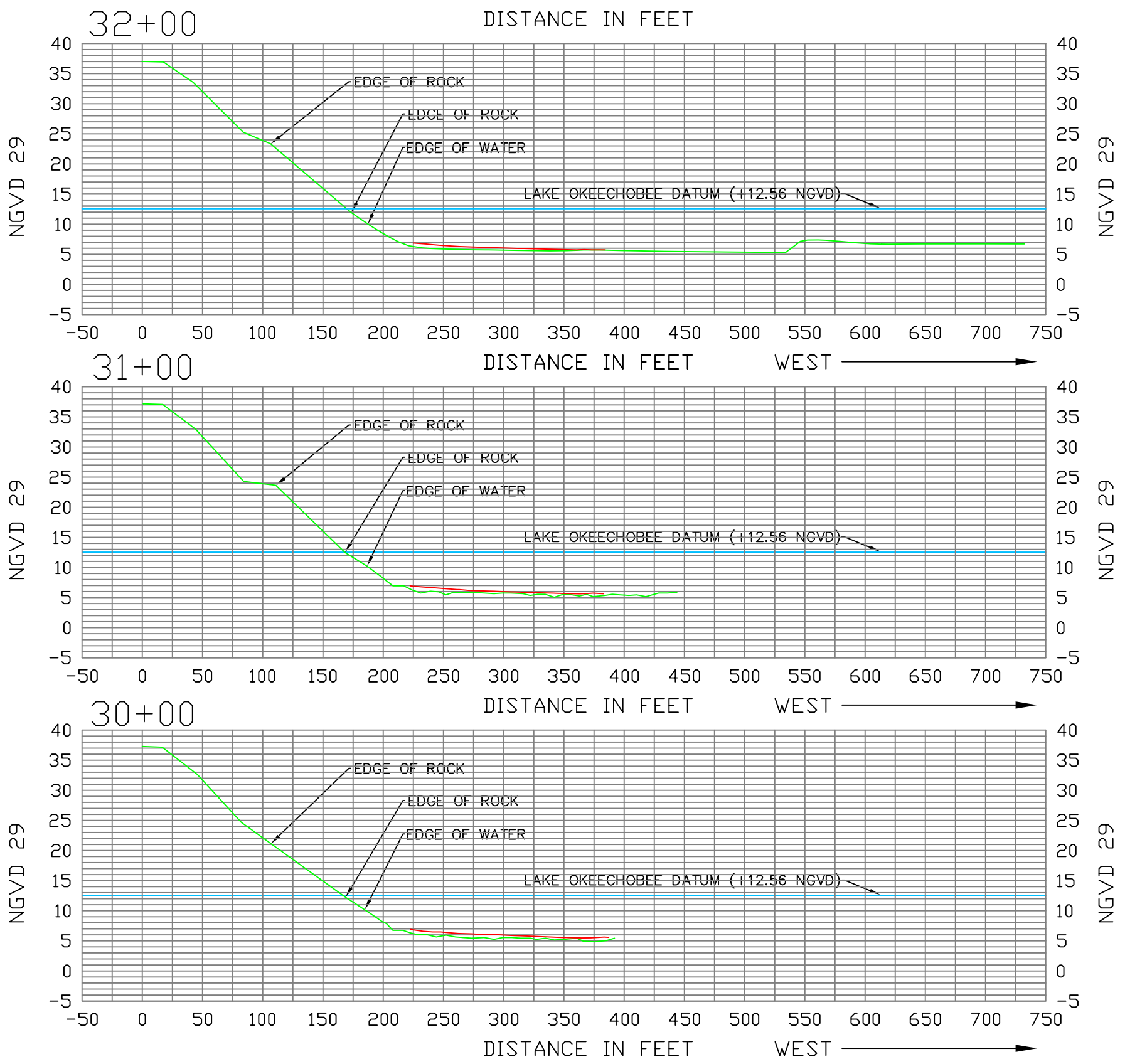
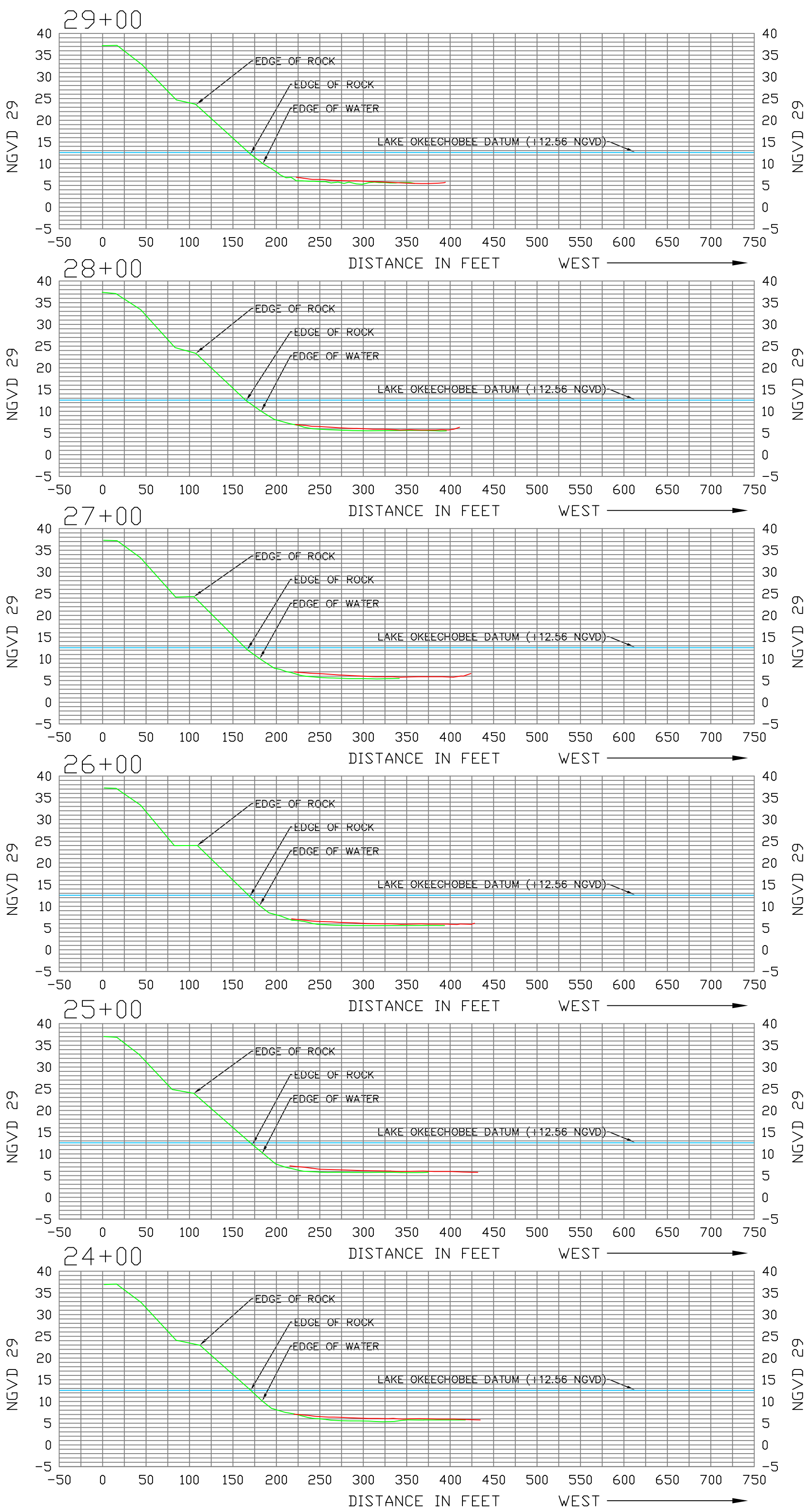
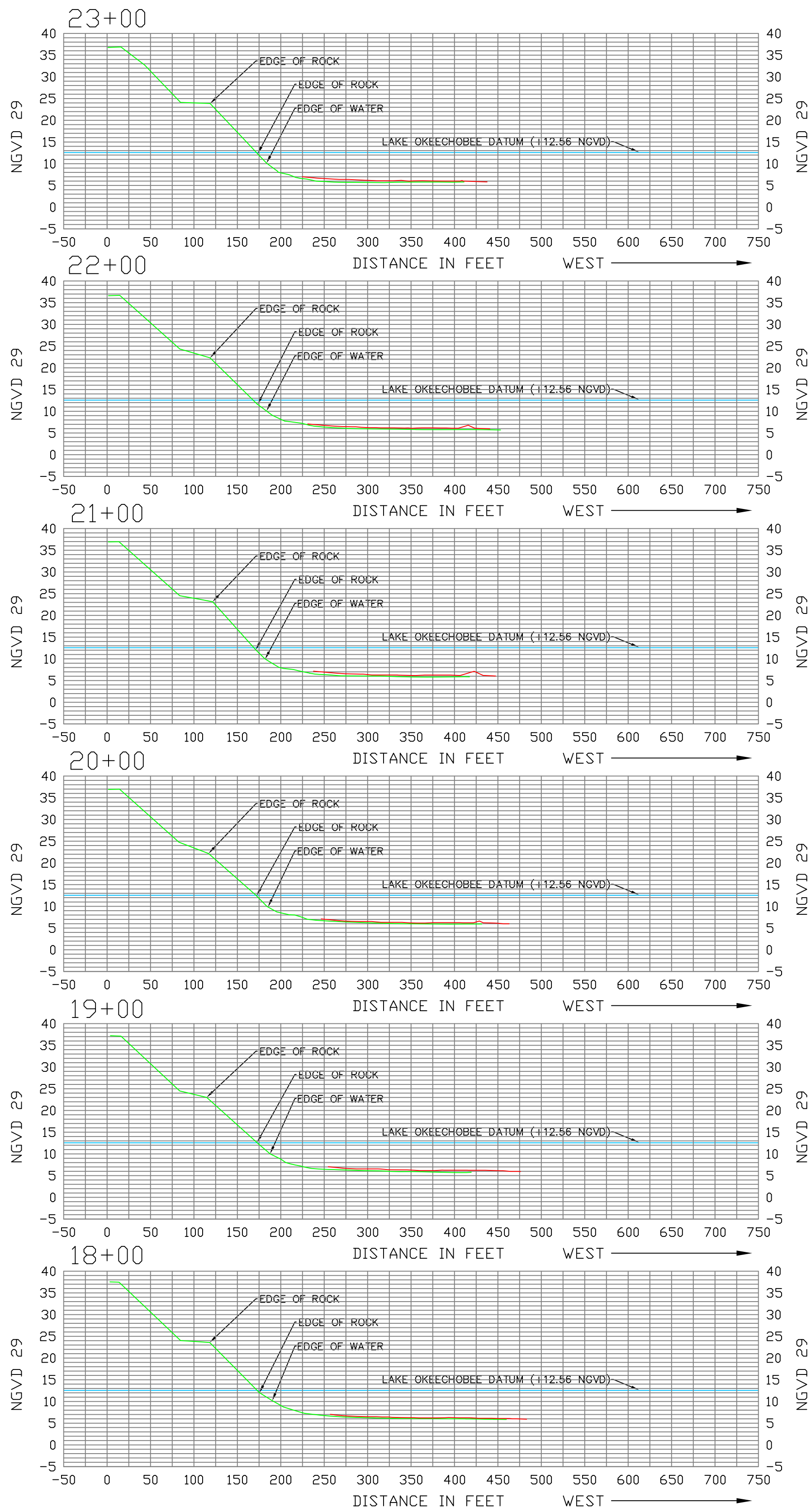
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SAM

CHECKED BY
JRM

FIELD BOOK
PAGE NO. 95-7

DATE OF SURVEY
4/10/08

COMMISSION NO.
5482-01
SCALE
AS SHOWN
DATE
10/17/08
SHEET 5 OF 6



SEE SHEET 1 FOR NOTES



MORGAN & EKLUND, INC.

PROFESSIONAL SURVEY CONSULTANTS

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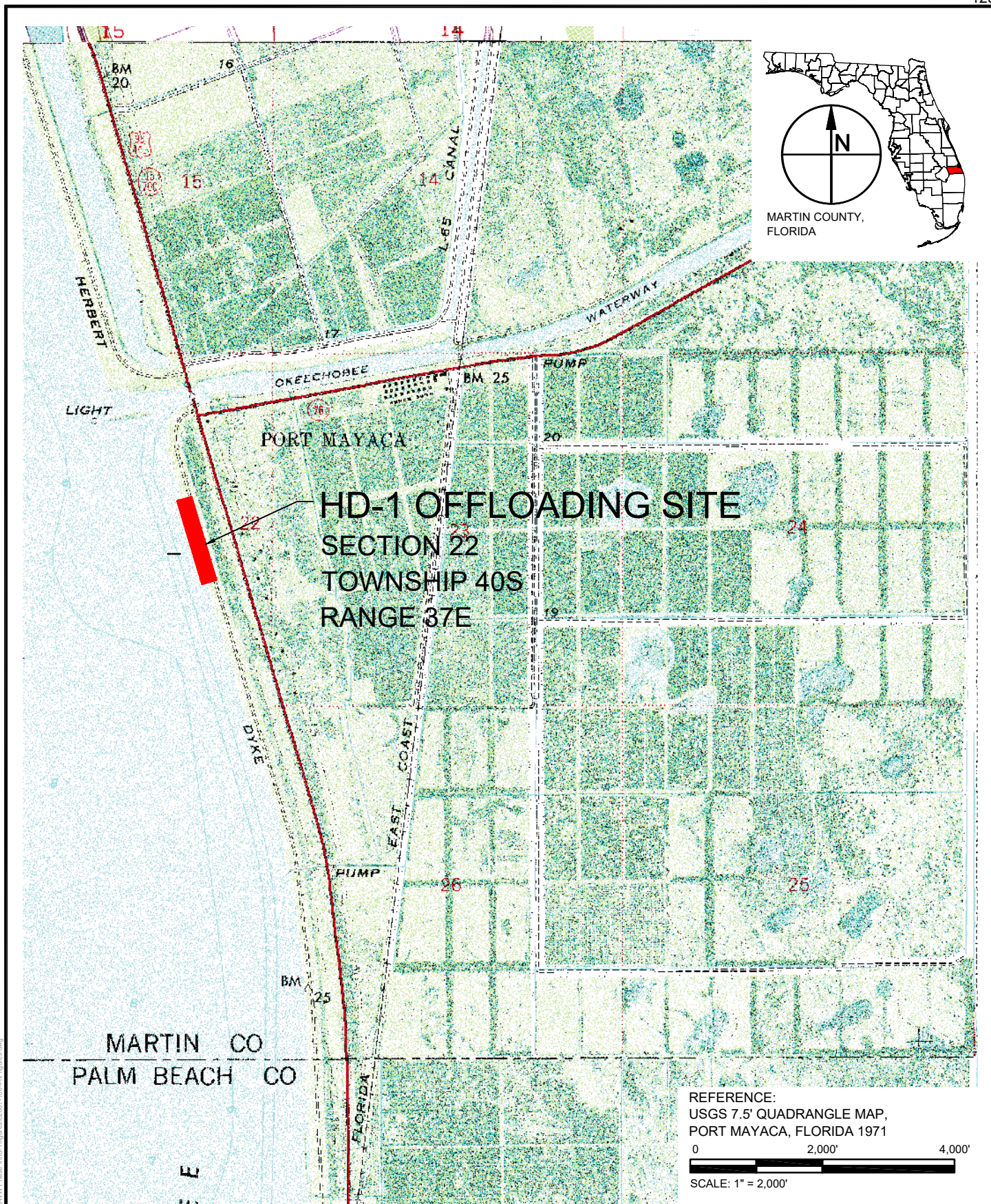
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LB # 4298

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JOHN R. MORGAN, II, PLS
PROFESSIONAL LAND SURVEYOR # 3520
STATE OF FLORIDA

CROSS SECTIONS (NGVD 29)				COMMISSION NO. 5482-01
TOPOGRAPHIC & BATHYMETRIC SURVEY LAKE OKEECHOBEE WATERWAY PHASE II DESIGNATED SITE HD-1 PALM BEACH COUNTY, FLORIDA FOR TAYLOR ENGINEERING, INC.				SCALE AS SHOWN
				DATE 10/17/08
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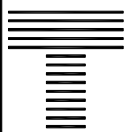
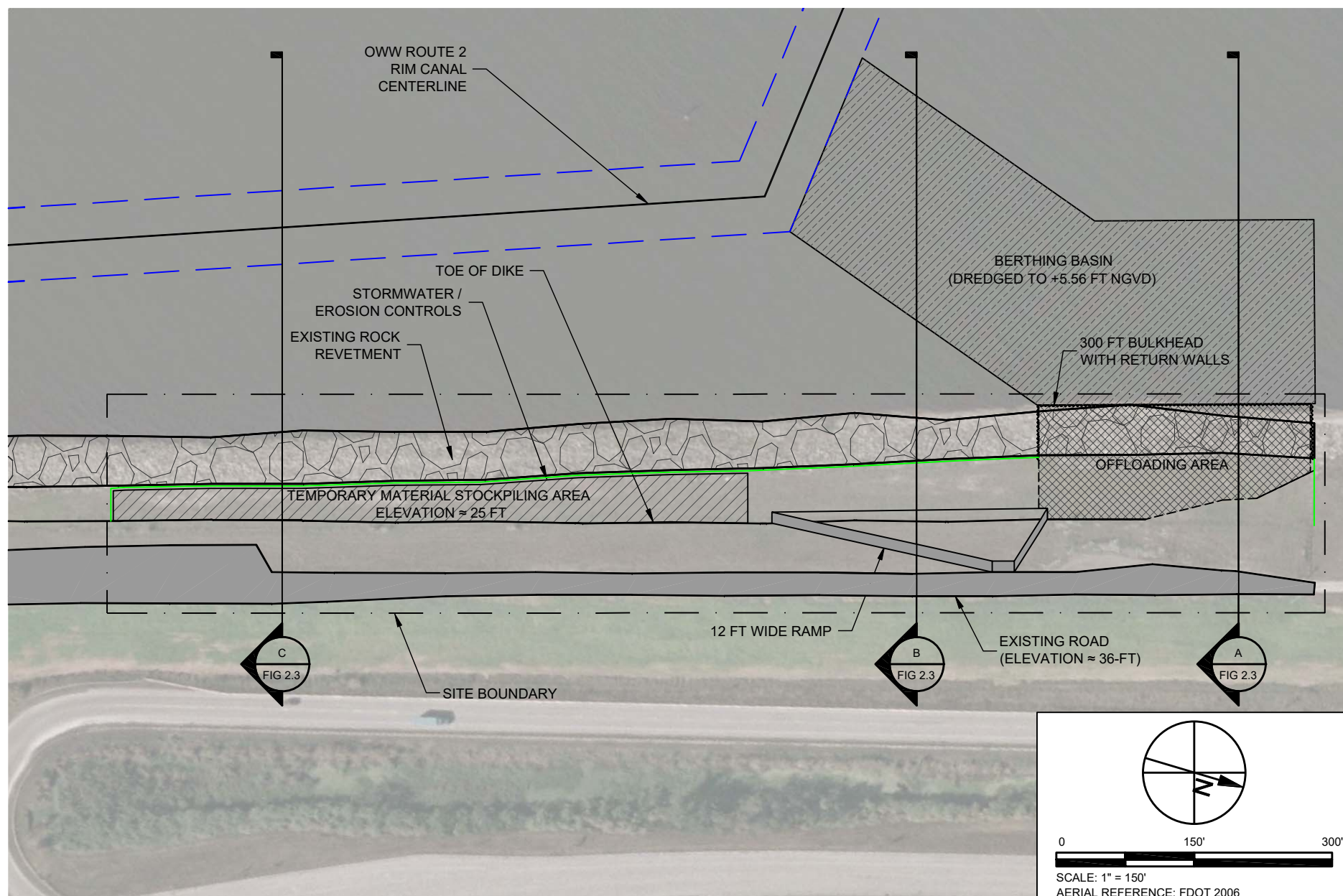


TAYLOR ENGINEERING INC.

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

FIGURE 1.1
LOCATION MAP
DREDGED MATERIAL MANAGEMENT SITE HD-1
OKEECHOBEE WATERWAY
MARTIN COUNTY, FLORIDA

PROJECT	C2007-100
DRAWN BY	AML
SHEET	1 of 7
DATE	NOV 2009

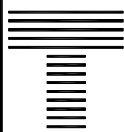
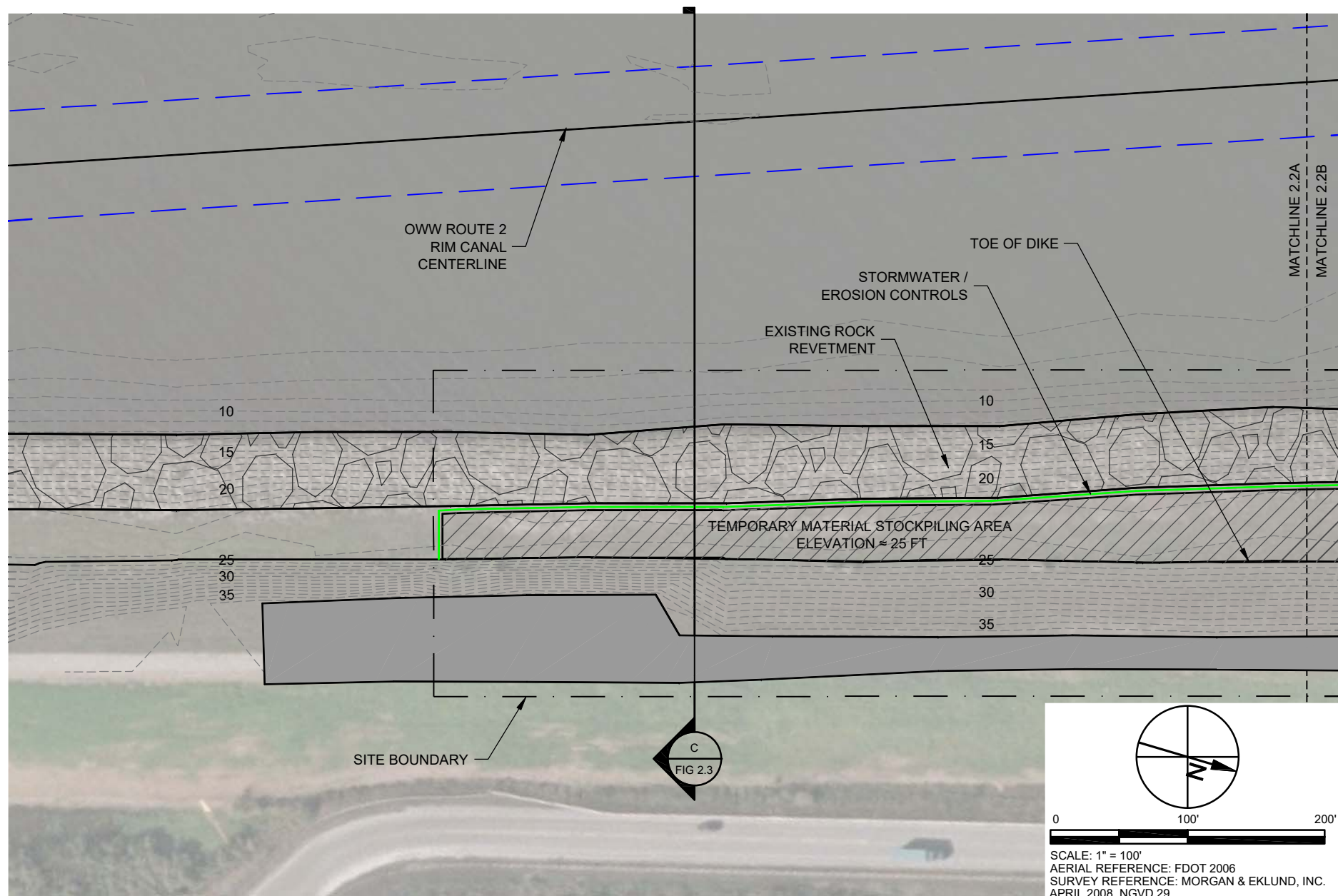


TAYLOR ENGINEERING INC.

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

FIGURE 2.1
PRELIMINARY SITE PLAN
DREDGED MATERIAL MANAGEMENT SITE HD-1
OKEECHOBEE WATERWAY
MARTIN COUNTY, FLORIDA

PROJECT	C2007-100
DRAWN BY	AML
SHEET	2 of 7
DATE	NOV 2009

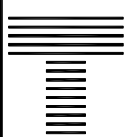
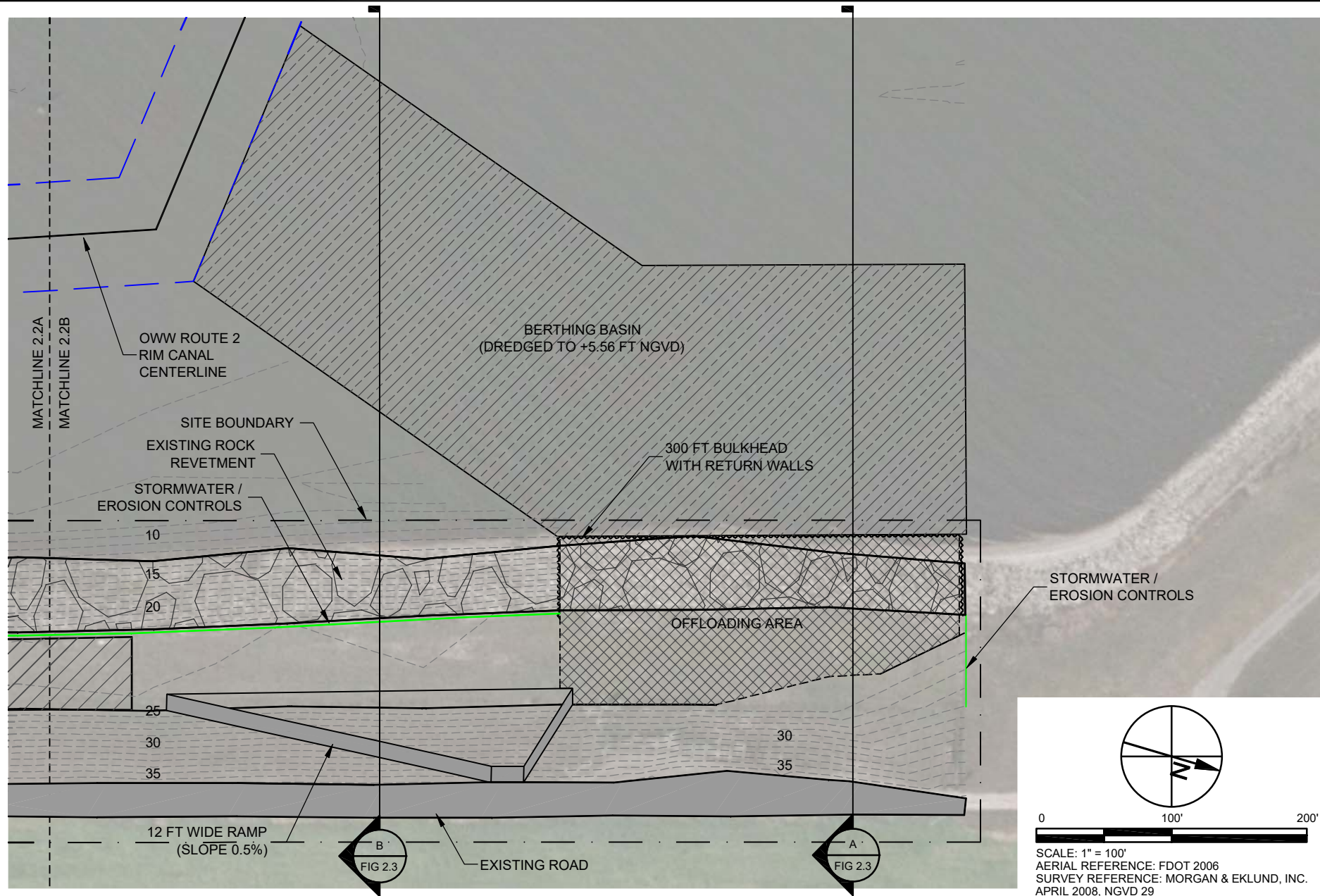


TAYLOR ENGINEERING INC.

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

FIGURE 2.2A
PRELIMINARY SITE PLAN (DETAIL 1 OF 2)
DREDGED MATERIAL MANAGEMENT SITE HD-1
OKEECHOBEE WATERWAY
MARTIN COUNTY, FLORIDA

PROJECT	C2007-100
DRAWN BY	AML
SHEET	3 of 7
DATE	NOV 2009

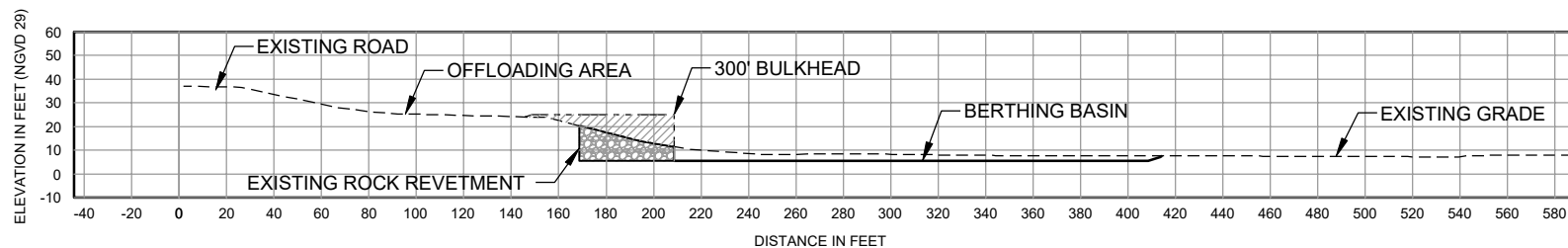


TAYLOR ENGINEERING INC.

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

FIGURE 2.2B
PRELIMINARY SITE PLAN (DETAIL 2 OF 2)
DREDGED MATERIAL MANAGEMENT SITE HD-1
OKEECHOBEE WATERWAY
MARTIN COUNTY, FLORIDA

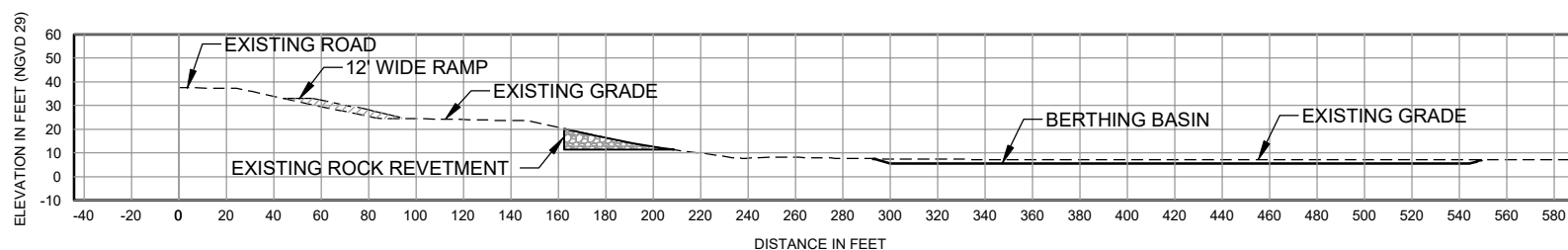
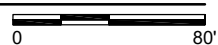
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DRAWN BY	AML
SHEET	4 of 7
DATE	NOV 2009



A
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SECTION A

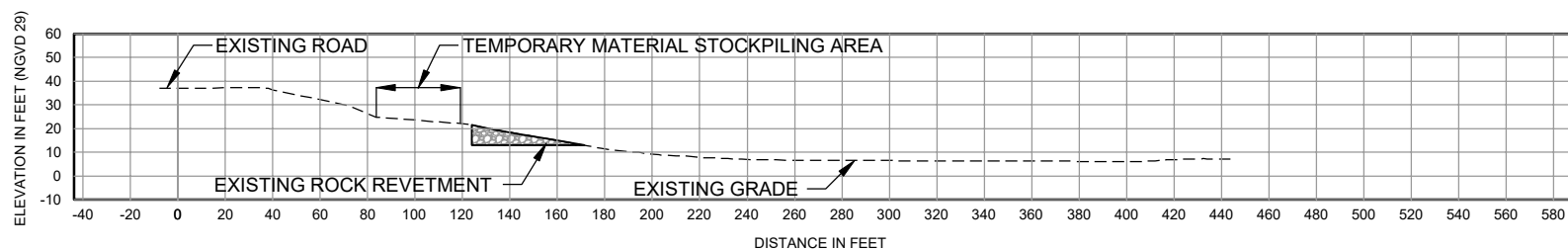
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2.1

SECTION B

SCALE: 1" = 80'



C
2.1

SECTION C

SCALE: 1" = 80'

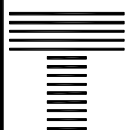
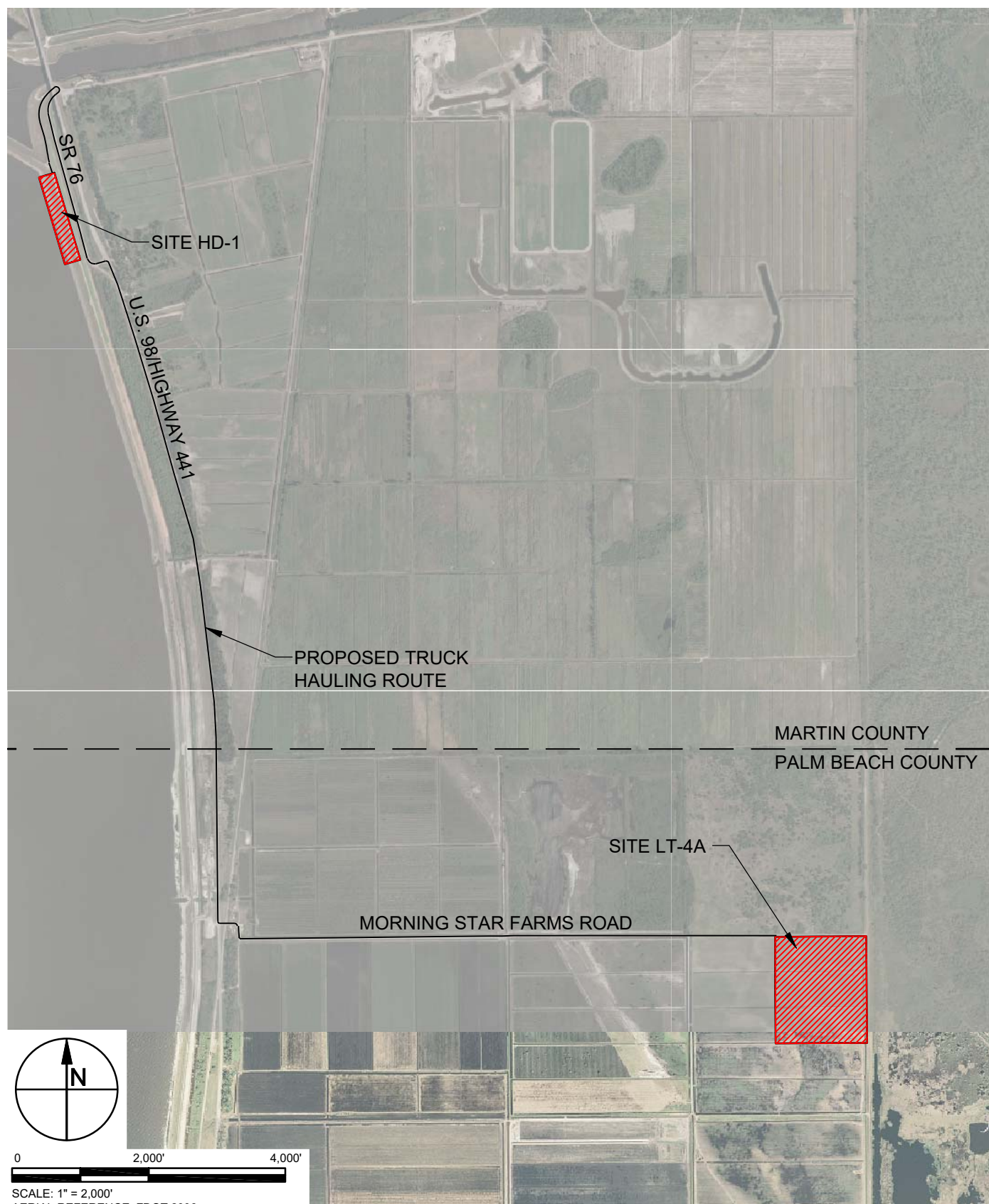


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BLDG. 300, SUITE 300
JACKSONVILLE, FL 32256
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 2.3
CROSS-SECTIONS
DREDGED MATERIAL MANAGEMENT SITE HD-1
OKEECHOBEE WATERWAY
MARTIN COUNTY, FLORIDA

PROJECT	C2007-100
DRAWN BY	AML
SHEET	5 of 7
DATE	NOV 2009

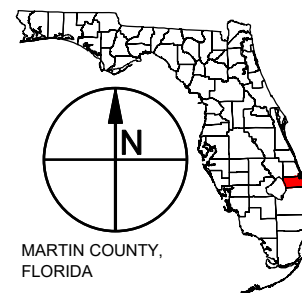
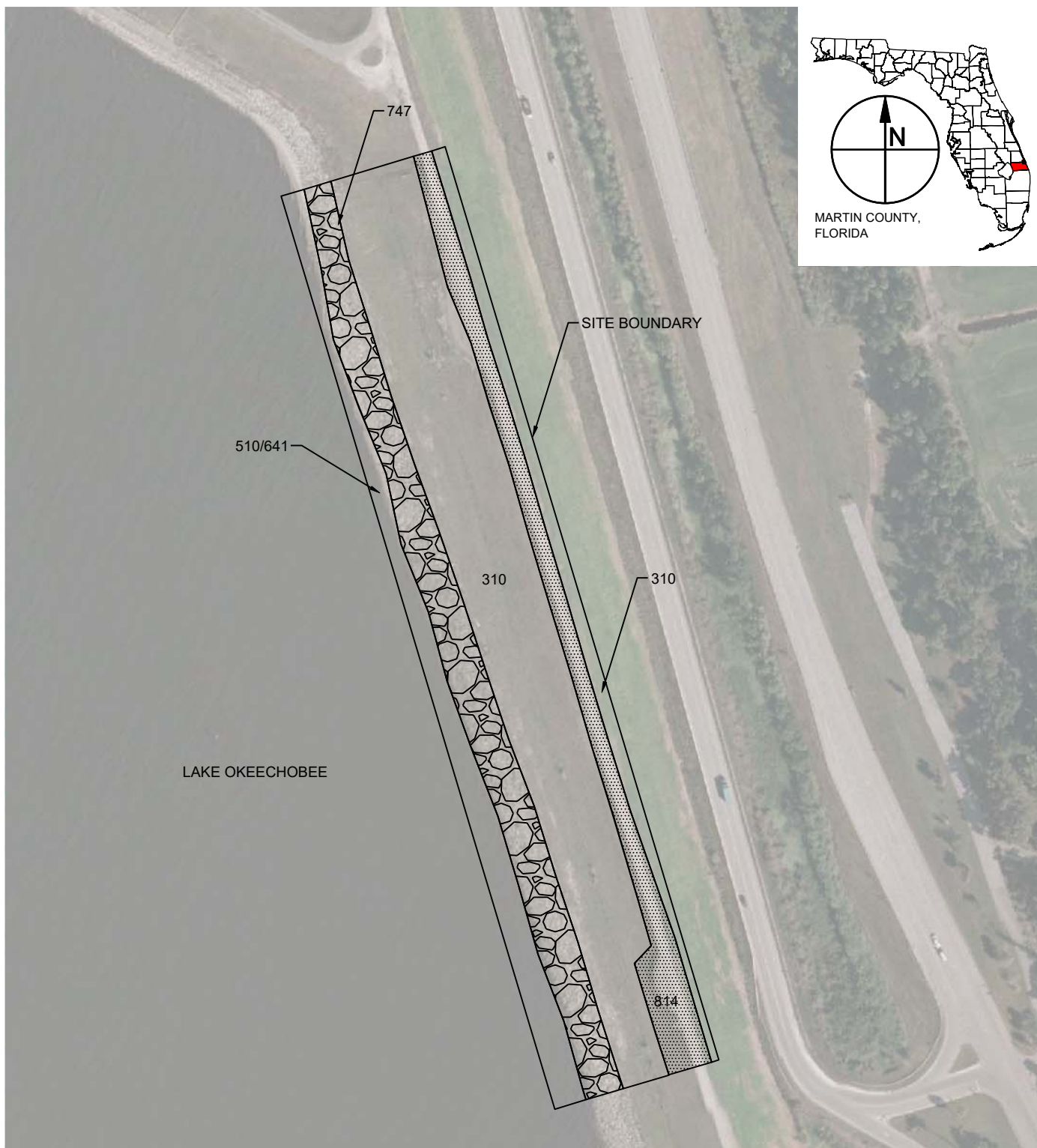


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FIGURE 2.4
PROPOSED TRUCK HAUL ROUTE
OFFLOADING / TRANSFER SITE HD-1 TO
LONG TERM STORAGE SITE LT-4A
MARTIN AND PALM BEACH COUNTY, FLORIDA

PROJECT	C2007-100
DRAWN BY	AML
SHEET	6 of 7
DATE	NOV 2009

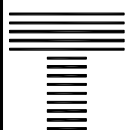


FLUCCS CODES

310 - HERBACEOUS - 3.78 AC
510/641- STREAMS AND WATERWAYS/FRESHWATER MARSH - 0.93 AC
747 - DIKES AND LEVEES (RIPRAP) - 1.54 AC
814 - ROADS - 0.96 AC

AERIAL REFERENCE: FDOT MARTIN
 COUNTY 2006
 REFERENCE (ENVIRONMENTAL SITE
 DOCUMENTATION): TAYLOR ENGINEERING,
 JULY 2009

0 200' 400'
 SCALE: 1" = 200'

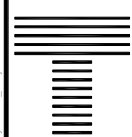
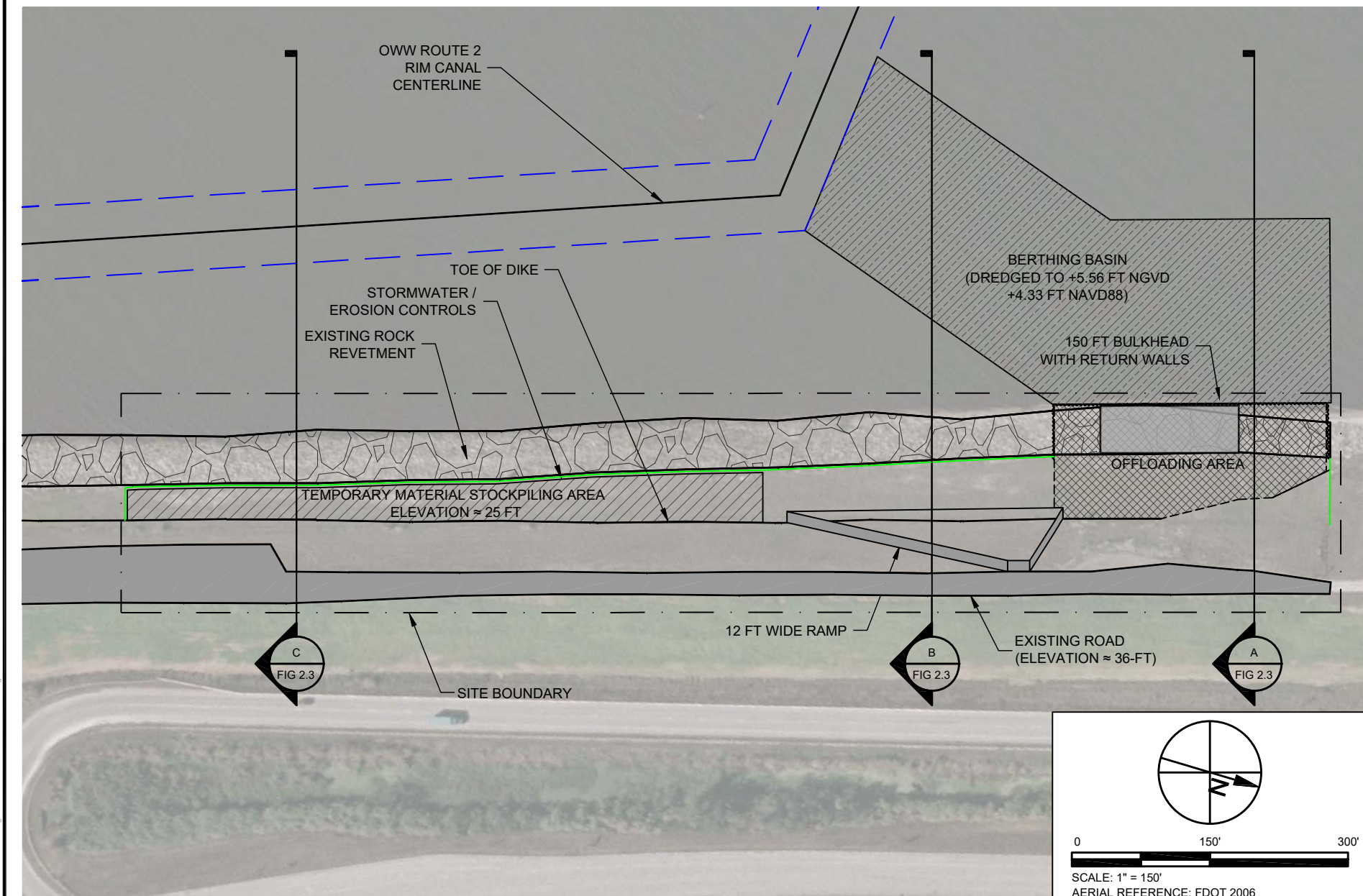


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FIGURE 2.5
LAND USE AND VEGETATION
DREDGED MATERIAL MANAGEMENT SITE HD-1
OKEECHOBEE WATERWAY
MARTIN COUNTY, FLORIDA

PROJECT	C2007-100
DRAWN BY	AML
SHEET	7 of 7
DATE	NOV 2009



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FIGURE 2
PRELIMINARY SITE PLAN
DREDGED MATERIAL MANAGEMENT SITE HD-1
OKEECHOBEE WATERWAY
MARTIN COUNTY, FLORIDA

PROJECT	C2007-100
DRAWN BY	AML
SHEET	2 of 7
DATE	NOV 2009



MEMORANDUM

TO: Mark Crosley, Executive Director

FROM: Jon C. Moyle, Jr. 

DATE: April 3, 2023

RE: Mid-Point Report on Florida Legislative Activity and Bills of Interest

GENERAL OVERVIEW

The sixty-day 2023 Legislative session reaches its halfway mark on Wednesday, April 5, 2023. The 2023 regular legislative session is scheduled to conclude on May 5, 2023.

As contemplated, the 2023 session thus far has been marked with the success of legislative priorities of the Governor, the Senate President, and the House Speaker. Their respective priorities are moving steadily through the legislative process, with a number of those priorities already passing the Legislature. For example, the tort reform legislation, a priority of Governor DeSantis and House Speaker Paul Renner (R-Palm Coast) has passed, been signed into law, and presently applies to new tort claims. The affordable housing legislation, a priority of Senate President Kathleen Passidomo (R-Naples), passed the legislature and was recently signed into law by Governor DeSantis at a bill signing ceremony held in Naples. Speaker Renner's priority bills of allowing for the concealed carry of a firearm without a state permit and expanding the use of school vouchers to the school of the family's choosing, have both passed the Legislature.

Many other priority bills of the Governor, such as a tax exemption package which provides for a sales tax exemption on certain family products, such as baby and toddler cribs,

Mark Crosley
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Page 2

clothing, strollers, and outdoor items, allowing a majority jury vote to impose a death sentence rather than an unanimous vote, changing Florida's defamation laws in a way that may pave the way for the U.S. Supreme Court to consider a long-standing case from the early 1960s which requires a plaintiff to prove "actual malice", and making certain changes to the state's higher education system and prekindergarten to 12th grade education system are well-positioned to become law.

The House and Senate are reviewing the Governor's budget, with both bodies expected to pass their respective budgets this week, week five of the legislative session. The total budget sum is expected to be approximately \$115 billion and the state's revenue projections remain positive. The House and Senate, as passing their respective budgets, will then appoint budget conferees who will work and negotiate through the differences in the two budgets. After the House and Senate reach agreement, they will jointly recommend to their respective bodies an agreed upon final budget for the state's 2023-2024 fiscal year, which begins on July 1, 2023. The state budget is the only bill that the Legislature is constitutionally required to pass each year.

The firm has monitored and worked on issues of interest to FIND, as you know. Following FIND's informal discussions with key Senate staff and members, and testimony before the Senate Environmental Committee, the Senate bill sponsor of SB 100, Senator Garcia (R-Miami), agreed to an amendment which makes clear that any efforts to restore mangroves must "protect and maintain access to and navigation of the marked channel and right-of-way of the Florida Intracoastal Waterway". Below is an updated list of the bills being monitored for FIND.

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ISSUES AND BILLS OF INTEREST

HB 37/SB 774 Financial Disclosures for Local Officers: Requires specified local officers to file full & public disclosure of financial interests; excludes specified local officers from requirement to file statements of financial interests. The House bill has passed two of three committees and the Senate bill has passed all its committees.

SB 100/HB 561: Mangrove Replanting and Restoration: Requires DEP to adopt rules for mangrove replanting & restoration; provides rule requirements. FIND has undertaken efforts clarify to ensure that authorized rulemaking will not result in mangrove replanting and restoration in the channel of the Intracoastal Waterway. The Senate bill passed its first committee of reference, and the House bill has not yet been heard in committee.

SB 172/HB 177: Safe Waterways Act: Citing this act as the “Safe Waterways Act”; requiring, rather than authorizing, the Department of Health to adopt and enforce certain rules; directing the department to require closure of beach waters and public bathing places under certain circumstances; including public bathing places in an existing preemption of authority to the state pertaining to the issuance of such health advisories and an existing notification requirement; providing that municipalities and counties are responsible for maintaining the health advisory signs around affected beach waters and public bathing places that they own; requiring the department to establish a public statewide interagency database for a specified purpose, etc. The Senate bill has not been heard in committee and the House bill will be heard in its first committee of reference today, April 3.

SB 84 Water Safety: Requiring a state park to have a certified lifeguard on duty at designated swimming areas within the park during certain timeframes; requiring the Department of Environmental Protection to install a water rescue station at each designated swimming area;

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requiring comprehensive age-appropriate and developmentally appropriate K-12 instruction on water safety, etc. This bill has not been heard and does not have a House companion bill.

HB 261/SB 728: Boating Safety: Removes provision that exempts persons born before specified date from having certain identification & documentation in their possession while operating vessel; requires liveries to include pre-rental or pre-ride instruction on proper use of floatation devices; removes requirement that liveries obtain & carry insurance coverage for vessel renters. Neither bill has been heard in committee. Both of these bills are moving successfully through the committee process.

SB 724/HB 1181 Seagrass Restoration Technology Development Initiative: Establishing the Seagrass Restoration Technology Development Initiative within the Department of Environmental Protection; providing for funding; requiring the creation of a 10-year Florida Seagrass Restoration Plan; establishing the Initiative Technology Advisory Council as part of the initiative, etc. Both bills have passed their first committees of reference.

HB 1491/SB 1666 Marine Encroachment on Spaceflight and Military

Operations: Encourages sharing of information about community grants through federal programs to facilitate compatibility & resiliency of community planning & activities & mission of military installation or range; requires law enforcement agency or entity to report establishment of temporary protection zone to appropriate port authority; requires port authority to direct licensed state pilot or certificated deputy pilot to hand deliver written notice of such establishment & related penalties to operators of certain vessels; requires such operators to sign & return such notice to state pilot or deputy pilot. The Senate bill has been considered favorably in committee, but that House bill has not.

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HB 1489/SB1686: Designation of Brevard Barrier Island Area as Area of Critical State

Concern: Designates Brevard Barrier Island Area as area of critical state concern; provides guiding principles for development within area; provides for removal of designation. Both bills have been heard and passed in their first committee of reference.

SB 448/HB549: Operating Vehicles and Vessels Under the Influence: Revising conditions under which a person commits the offense of driving under the influence or boating under the influence, respectively; revising a condition that must be met before a person arrested for driving under the influence or boating under the influence, respectively, may be released from custody; defining the term “impairing substance”; adding specified grounds for issuance of a search warrant, etc. Neither bill has been heard in committee.

HB 1103/SB1314 Boating-restricted Areas: Authorizes counties & municipalities to establish within certain portions of Florida Intracoastal Waterway slow speed, minimum wake boating-restricted areas within specified distance from private or public marina pumpouts. Both bills have been heard and passed in their first committee of reference.

HB 1385/SB 1502: Vessel Owner and Operation Requirements: Revises anchoring limitation areas in certain sections of Biscayne Bay in Miami-Dade County; revises timeframe during which person may anchor vessel in anchoring limitation area within which such anchoring would otherwise be unlawful; requires law enforcement officers to conduct national criminal background checks for vessel owners who are issued citations for specified violations. The Senate bill passed its first committee, but the House bill has not yet been heard in committee.

SB 1640: Installation of Waterway Markers: Revising the application requirements for marking certain waters of this state; requiring all waterway markers to be affixed to certain structures or buoys beginning on a specified date; requiring state and local governmental entities

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Page 6

to conform to such requirements by a specified date, etc. This bill, which does not have a House companion bill, has not been heard in committee.

HB 847/SB 1082: Floating Vessel Platforms and Floating Boat Lifts: Provides that specified structures associated with docks on parcels of land create presumption of compliance with certain environmental impact requirements. Both the House and Senate bills are moving through the committee process.

SB 546/HB 641: Restoration of Osborne Reef: Requiring the Department of Environmental Protection to submit a status report on the Osborne Reef cleanup and tire removal project to the Legislature by a specified date; requiring the department to develop a restoration plan for the reef by a specified date; providing requirements for the restoration plan; requiring the department to submit a report to the Legislature upon completion of the plan. The Senate bill passed its first committee of reference today and the House bill has passed all its committees and is on second reading in the full House.

CONCLUSION

If have questions, concerns, or need additional information about any of the bills identified in this report, please let me know. I will continue to be available and work closely with you, Janet, and Peter Breton on key issues and closely monitor the final four weeks of the 2023 general legislative session.

cc: Janet Zimmerman



March 31, 2023

Monthly Report for the Florida Inland Navigation District

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

FROM: Jim Davenport, Partner

Fiscal Year 2024 Appropriations

President Biden's Fiscal Year (FY) 2024 budget request was submitted to Congress on March 9, 2023. The administration's FY 24 budget request would provide \$7.4 billion in base discretionary funding, down by about 14 percent from FY 2023 base discretionary enacted level of \$8.7 billion. However, combined with \$1 billion for operation and maintenance and \$500 million for construction already apportioned for 2024 from the Bipartisan Infrastructure Law (BIL), the Corps would receive a total of \$8.9 billion. More importantly, the budget request proposes \$4,054,000 for the Intracoastal Waterway.

Once Biden's budget hit the Hill, members of Congress began ramping up their processes and posting deadlines for "community project funding" (aka, congressionally-directed spending) requests. For FIND, we submitted funding requests to Reps. Brian Mast, Bill Posey, and Sheila Cherfilus-McCormick, each of whom represent areas of the IWW or OWW in need of dredging. Like last year, members are restricted to 15 funding requests to the House Appropriations Committee. Staff for Reps. Mast and Posey reached out to us to indicate their interest in making funding requests for the IWW. And, throughout the past week we have been working with them to ensure they have all the information needed to submit the requests. From what we understand, both offices did indeed request funding for the IWW. We believe Mast sought \$2 million and Posey sought \$2.5 million for the IWW. This will be confirmed once their funding requests are posted on their websites, which should happen in a couple weeks. We do not believe Rep. Cherfilus-McCormick requested funding for the OWW.

Now that requests have been submitted, Congress will be out of town for the next two weeks, returning on April 17.

We will continue to update you on the funding requests and the appropriations process.

Please contact me with any questions.