

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS**

AGENDA ITEM SUMMARY

Meeting Date:	May 4, 2021	(X) Consent	() Regular
		() Workshop	() Public Hearing
Department:	<u>Environmental Resources Management</u>		

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to:

A) adopt a Resolution for Assistance 2021 under the Florida Inland Navigation District (FIND) Waterways Assistance Program (WAP) authorizing submission of a grant application requesting \$734,100 to fund a portion of the \$5,339,800 associated with expansion of the South Lake Worth Inlet Sand Trap and maintenance dredging of the Harvey E. Oyer, Jr. Park Boat Channel situated in the Lake Worth Lagoon (Project); and


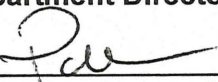
B) authorize the County Administrator, or designee, to execute the Grant Project Agreement (Agreement), to sign all future time extensions, task assignments, certifications, and other forms associated with this Agreement, or any necessary minor amendments that do not substantially change the scope of work, or terms and conditions of the Agreement, if the Grant is approved.

Summary: The County is implementing a portion of the South Lake Worth Inlet Management Plan. This work includes dredging sand from the interior sand trap and the Harvey E. Oyer, Jr. Park Boat Channel to nourish downdrift beaches, expansion of the sand trap via mechanical excavation, and disposal of non-beach compatible material on adjacent habitat enhancement areas. The total cost of the Project identified in the FIND WAP Grant Application is \$5,339,800. The WAP Grant, if approved, would reimburse the County up to \$734,100 (14%) for design, permitting, construction, and monitoring costs associated with the Project. The deadline for spending the Grant is September 2022, with a possible one-year extension. The County's final cost share will be calculated from a combination of State grants and municipal partner funds determined by the award amount. District 4 (SS)

Background and Justification: Project maintenance dredging is performed on an as-needed basis every 6-8 years and was previously completed in 2001, 2008, and 2013. Expansion of the sand trap will increase efficiency and reduce costs associated with future maintenance dredging events. The City of Boynton Beach's share of Project costs will be determined after the construction contract has been bid and will be reimbursed through a future Interlocal Agreement. Beach Improvement Funds will be used to fund the local matching share. Additional 75% state cost-share is anticipated through the Florida Department of Environmental Protection's Beach Management Funding Assistance Program. Construction is expected to begin in winter 2021.

Attachments:

- 1. Resolution
- 2. FIND Waterways Assistance Program FY2021 Grant Application

Recommended by:		<u>3-26-2021</u>	SAS 3/25/21
	Department Director	Date	
Approved by:		<u>4/14/21</u>	
	Assistant County Administrator	Date	

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2021	2022	2023	2024	2025
Capital Expenditures	_____	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
NET FISCAL IMPACT	-0-	_____	_____	_____	_____
# ADDITIONAL FTE POSITIONS (Cumulative)	_____	_____	_____	_____	_____

Is Item Included in Current Budget? Yes _____ No x

Does this item include the use of federal funds? Yes _____ No x

Budget Account No.:

Fund _____ Department _____ Unit _____ Object _____ Program _____

B. Recommended Sources of Funds/Summary of Fiscal Impact:

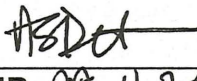
No fiscal impact associated with the application. Match requirements will be determined contingent on the amount of award.
Funding for this project is anticipated from a combination of State grants and interlocal agreements.


C. Department Fiscal Review:



III. REVIEW COMMENTS

A. OFMB Fiscal and /or Contract Dev. and Control Comments:

 4/9/21
OFMB 4-9-21
LM 4/9
for review
Joel 4/8/21

 4/13/21
Contract Development & Control
4-13-21 TC

B. Legal Sufficiency:

 4/13/21
Assistant County Attorney

C. Other Department Review:

Department Director

ATTACHMENT 1

ATTACHMENT E-7

**RESOLUTION FOR ASSISTANCE 2021
UNDER THE FLORIDA INLAND NAVIGATION DISTRICT
WATERWAYS ASSISTANCE PROGRAM**

WHEREAS, PALM BEACH COUNTY is interested in carrying out the following described project for the enjoyment of the citizenry of PALM BEACH COUNTY and the State of Florida:

Project Title: South Lake Worth Inlet - Sand Trap and Boat Channel Dredging

Total Estimated Cost: \$5,339,800

Brief Description of Project: Maintenance dredging and expansion of the interior sand trap and Harvey E. Oyer, Jr. Park boat channel in the vicinity of South Lake Worth Inlet.

AND, Florida Inland Navigation District financial assistance is required for the program mentioned above,

NOW THEREFORE, be it resolved by PALM BEACH COUNTY that the project described above be authorized,

AND, be it further resolved that said PALM BEACH COUNTY make application to the Florida Inland Navigation District in the amount of 14% of the actual cost of the project in behalf of said PALM BEACH COUNTY,

AND, be it further resolved by PALM BEACH COUNTY that it certifies to the following:

1. That it will accept the terms and conditions set forth in FIND Rule 66B-2 F.A.C. and which will be a part of the Project Agreement for any assistance awarded under the attached proposal.
2. That it is in complete accord with the attached proposal and that it will carry out the Program in the manner described in the proposal and any plans and specifications attached thereto unless prior approval for any change has been received from the District.
3. That it has the ability and intention to finance its share of the cost of the project and that the project will be operated and maintained at the expense of said PALM BEACH COUNTY for public use.
4. That it will not discriminate against any person on the basis of race, color, or national origin in the use of any property or facility acquired or developed pursuant to this proposal, and shall comply with the terms and intent of the Title VI of the Civil Rights Act of

1964, P. L. 88-352 (1964) and design and construct all facilities to comply fully with statutes relating to accessibility by handicapped persons as well as other federal, state and local laws, rules, and requirements.

5. That it will maintain adequate financial records on the proposed project to substantiate claims for reimbursement.

6. That it will make available to FIND, if requested, a post-audit of expenses incurred on the project prior to, or in conjunction with, request for the final 10% of the funding agreed to by FIND.

The foregoing Resolution was offered by Commissioner _____, who moved its adoption. The motion was seconded by Commissioner _____, and upon being put to a vote, was as follows:

Commissioner Dave Kerner, Mayor	_____
Commissioner Robert S. Weinroth, Vice Mayor	_____
Commissioner Maria G. Marino	_____
Commissioner Gregg K. Weiss	_____
Commissioner Maria Sachs	_____
Commissioner Melissa McKinlay	_____
Commissioner Mack Bernard	_____

The Mayor thereupon declared the Resolution duly passed and adopted this _____ day of _____, 2021.

PALM BEACH COUNTY, FLORIDA, BY
ITS BOARD OF COUNTY COMMISSIONERS

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

JOSEPH ABRUZZO
Clerk of the Circuit Court & Comptroller

By: _____
Scott A. Stone
Assistant County Attorney

By: _____
Deputy Clerk

(SEAL)

ATTACHMENT 2

ATTACHMENT E-1
APPLICATION CHECKLIST
WATERWAY ASSISTANCE PROGRAM FY 2021

Project Title:	South Lake Worth Inlet Sand Trap & Boat Channel Dredging
Applicant:	Palm Beach County

This checklist and the other items listed below in items 1 through 13 constitute your application. The required information shall be submitted in the order listed.

An electronic copy may be emailed to JZimmerman@aicw.org. Application must be received by the deadline, no exceptions.

All information will be printed on 8 ½"x11" paper to be included in agenda books bound by staff.

	<u>YES</u>	<u>NO</u>
1. District Commissioner Review (prior to March 4th) (NOTE: For District Commissioner initials ONLY!) (District Commissioner must initial the yes line on this checklist for the application to be deemed complete)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Application Checklist – E-1 (Form No. 90-26, 2 pages) (Form must be signed and dated)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Applicant Info/Project Summary – E-2 (Form No. 90-22, 1 page) (Form must be completed and signed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Project Information – E-3 (Form No. 90-22a, 1 page)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Application and Evaluation Worksheet – E-4(+) (Form No.91-25) (One proper sub-attachment included, 7 pages) Must answer questions 1-10. No signatures required	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Project Cost Estimate – E-5 (Form No. 90-25, 1 page) (Must be on District form)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Project Timeline – E-6 (Form No. 96-10, 1 page)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Official Resolution Form – E-7 (Form No. 90-21, 2 pages) (Resolution must be in District format and include items 1-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ATTACHMENT E-1 (Continued)
APPLICATION CHECKLIST
WATERWAY ASSISTANCE PROGRAM FY 2021

	<u>YES</u>	<u>NO</u>
9. Attorney's Certification (Land Ownership) – E-8 (Must be on or follow format of Form No. 94-26, Legal descriptions NOT accepted in lieu of form)	<input checked="" type="radio"/>	<input type="radio"/>
10. County/City Location Map	<input checked="" type="radio"/>	<input type="radio"/>
11. Project Boundary Map	<input checked="" type="radio"/>	<input type="radio"/>
12. Clear & Detailed Site Development Plan Map	<input checked="" type="radio"/>	<input type="radio"/>
13. Copies of all Required Permits: ACOE, DEP, WMD (Required of development projects only)	<input type="radio"/>	<input checked="" type="radio"/>

The undersigned, as applicant, acknowledges that Items 1 through 12 above constitutes a complete application and that this information is due in the District office no later than 4:30 PM, March 29, 2021 By May 21, 2021 my application must be deemed complete (except for permits) or it will be removed from any further consideration by the District. I also acknowledge that the information in Item 13 is due to the District no later than September 20, 2021. If the information in Item 13 is not submitted to the District office by September 20, 2021, I am aware that my application will be removed from any further funding consideration by the District.

LIAISON: Deborah Drum TITLE: ERM Department Director


**** SIGNATURE - PROJECT LIAISON ****

3-25-2021
DATE

FIND OFFICE USE ONLY	
Date Received:	
Local FIND Commissioner Review:	
All Required Supporting Documents:	
Applicant Eligibility:	
Project Eligibility:	Available Score:
Compliance with Rule 66B-2 F.A.C.:	
Eligibility of Project Cost:	

ATTACHMENT E-2
APPLICANT INFORMATION & PROJECT SUMMARY
WATERWAY ASSISTANCE PROGRAM FY 2021

APPLICANT INFORMATION			
Applicant: Palm Beach County			
Department: Environmental Resources Management			
Project Title: South Lake Worth Inlet Sand Trap & Boat Channel Dredging			
Project Director: Deborah Drum		Title:	Director, ERM
Project Liaison: <small>(if different from Director)</small>		Title:	
Mailing Address:	2300 North Jog Road, 4th Floor		
City: West Palm Beach	Zip Code:	33411-2743	
Email Address: DDrum@pbcgov.org	Phone #:	561-233-2400	
Project Address:	6970 North Ocean Blvd., Ocean Ridge, FL 33435		

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

SIGNATURE:  DATE: 3-25-2021

<p>PROJECT NARRATIVE (Please summarize the project in space provided below in 2 paragraphs or less.)</p> <p>The project includes expansion of the South Lake Worth Inlet interior sand trap to the horizontal limits permitted in the original authorization and to a cut elevation of -17.55 ft NAVD throughout to increase sand capture capacity and improve the efficiency of future maintenance dredging. Dredging the boat channel facilitates boater access between the Harvey E. Oyer, Jr. Park and the ICW Cut P-50 by removing sand deposited during flood tides and storm events. Project includes nearshore disposal of 15,000 cy of sand and 126,000 cy of mixed sediment and rock for removal. Mitigation for any seagrass impacts is located at Bryant Park in Lake Worth. Hydraulically dredged sand will be pumped via pipeline to the beach south of the inlet. Excavated rock over 1 ft diameter will be added to an existing rock disposal site just south of the trap. Non-beach compatible sand and small rock will be barged to the Half Moon Bay Hole 1.6 mi north of the inlet or to a similar enhancement island in the ICW for disposal.</p>

ATTACHMENT E-3
PROJECT INFORMATION

WATERWAY ASSISTANCE PROGRAM FY 2021

Applicant: Palm Beach County	Project Title: South Lake Worth Inlet Sand Trap & Boat Channel Dredging	
Total Project Cost: \$ 5,339,800	FIND Funding Requested: \$ 734,100	% of Total Cost: 14
Amount of Applicant's Matching Funds:	\$4,605,700	
Source of Applicant's Matching Funds:	Future FDEP grant, future interlocal agreement with the City of Boynton Beach, and County Tourist Development Beach Improvement funds.	

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

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

Interior Sand Trap: Deed No. 18656-A, 2/13/1946 Perpetual Easement D.B. 759-pg. 258.
Harvey E. Oyer Jr. Park boat channel: Sovereign Submerged Lands Easement #28956 expires 2043, ORB 26070, pg 0881. Beach Access, Pipeline, and Disposal Sites: 11 50-year easements for placement of dredged material (remaining properties County-owned). Half Moon Bay Hole and Artificial Reef disposal site: anticipate JCP permit mod approvals.

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

4. If yes, please list:

2001 - ICW-PB-01-04 2007 - ICW-PB-07-127 2012 - ICW-PB-12-01

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):

Ocean Inlet Park currently features 20 rental slips, a canoe/kayak launch, 3 day use docks, 5 public safety docks, 218 parking spaces, fishing jetty, playground and guarded beach. Oyer Park- 6 lighted boat ramps, 1 non-motorized vessel launch, 4 lighted holding docks, 135 trailer spaces (3 are handicap).

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

None

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	N/A	N/A
DEP	Yes	11/18/20	
ACOE	Yes	11/19/20	

**ATTACHMENT E-4
EVALUATION WORKSHEET**

WATERWAY ASSISTANCE PROGRAM FY 2021

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:	South Lake Worth Inlet Sand Trap & Boat Channel Dredging
Applicant:	Palm Beach County

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.)

3. Inlet management projects that are a benefit to public navigation in the District.

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

Beach sand is transported through the man-made inlet and is deposited in the sand trap and boat channel. Maintenance dredging removes the deposited sand and enhances public navigation. Expansion of the trap's lateral and vertical limits will improve efficiency of future maintenance dredging and benefit adjacent FIND navigation channel.

(For reviewer only)

Max. Available Score for application _____

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

2) WATERWAY RELATIONSHIP:

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

The dredging project provides boater access to the ICW from public facilities, helps to reduce dredging of the ICW navigation channel, and prevents the loss of seagrass habitat adjacent to the ICW.

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

Dredging the trap creates a sediment sink, allowing future sand entering the inlet to settle in the trap instead of being transported to the ICW navigation channel. Dredging the Oyer Park boat channel allows boats to navigate from ramp to ICW navigation channel (Cut P-50). Widening the eastern portion of the boat channel will slow the rate of infilling & will improve public access to and from the ICW navigation channel.

(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.

Dredging the sand trap provides access to/from the OIP marina for commercial & recreational boaters, PBSO boats, and County lifeguard craft. Dredging Oyer Park boat channel provides boater access to the ICW Cut P-50 and is the closest boat ramp to the inlet for ocean access.

- 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 inlet provides ocean access & improves water quality through 12 miles of the Lake Worth Lagoon. Ocean Inlet Park provides facilities, free public day docks, public safety docks, and slip rentals. Harvey E. Oyer Jr. Park boat channel provides boater access to ICW & is the closest public boat ramp to inlet for ocean access. Oyer parking fees are same for all Florida residents & non-residents. Launch is free.

- 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

(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.

An application for modification of the 25-yr FDEP permit was submitted to FDEP on 11/18/20 and is anticipated by 8/31/21. The project contract will be executed by 11/2/21. Dredging/rock removal is estimated to begin by 11/15/21 and to be completed by 8/30/22.

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

The permit modification application includes mechanical excavation of native rock from the sand trap to create a more uniform dredging surface and dredge depth.

(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.

FDEP LGFR FY21-22 pending approval \$1,275,000. City of Boynton Beach staff agreed in writing to fund its project share; ILA being drafted, est'd amt \$143,000. PBC TDC Beach Improve. Fund \$3,316,400; funds currently available & will be encumbered upon award.

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

Dredging and excavation rates may vary according to the schedules of the contractors.

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

No.

- 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.

NA

(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?

The project is necessary because of the existence of a fixed inlet. Sand is constantly transported into the inlet on incoming tides and during storms and is deposited in the flood shoal area, including the sand trap, Oyer boat channel, and Cut P-50. The project provides periodic maintenance dredging of these sites, returning beach quality sand to the downdrift side of the inlet, rock to artificial reef, and remaining material to nearby restoration projects in the Lagoon.

The sand trap will function more efficiently and with a longer interval between dredging events after the rock is excavated and the sand trap is expanded to its permitted limits.

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

The sand trap will function more efficiently and with a longer interval between dredging events after the rock is excavated and the sand trap is expanded to its permitted limits. The sand transfer plant (owned, operated, and funded by Palm Beach County) on the north side of the inlet is operating at full efficiency and will continue to move sand across the inlet.

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

Yes. Webpage: <https://discover.pbcgov.org/pzb/planning/pages/comprehensive-plan.aspx>

File location:
<https://discover.pbcgov.org/pzb/planning/PDF/ComprehensivePlan/ComprehensivePlan.pdf>

(For reviewer only)
(1-7 points)

SUB-TOTAL _____

ATTACHMENT E-4D
EVALUATION WORKSHEET
INLET MANAGEMENT & PUBLIC NAVIGATION PROJECTS
WATERWAY ASSISTANCE PROGRAM FY 2021

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS AN INLET
MANAGEMENT OR PUBLIC NAVIGATION PROJECT

7) WATERWAY RELATIONSHIP:

- a) How does the project directly benefit the Atlantic Intracoastal Waterway (AICW)?**

A fully-functioning inlet sand trap more effectively traps sand before the sand reaches the ICW, thereby reducing shoaling in the AICW. Expanding the sand trap also reduces sedimentation impacts to adjacent seagrass beds.

- b) Identify any long-term sedimentation problems and briefly discuss any methods or activities that will address these issues.**

The sand trap and the boat channel are located in the flood shoal of South Lake Worth Inlet. Removal of additional rock from the sand trap and increasing the areal extent of the trap will increase the sand trapping capability of the sand trap. Maintaining a wider boat channel will increase the time required to fill the boat channel with sand.

- c) Will the project inhibit sediment inflow into, or reduce the dredging frequency of the AICW?**

Yes. Expanding the trap will increase its sand-holding capacity and therefore reduce the amount of sand reaching the ICW.

(For reviewer only)
(1-5 points)

8) PUBLIC ACCESS:

- a) Will the project enhance public access to or from the waterways? Describe in brief detail.

Yes. Both aspects of the project (trap and boat channel dredging) will enhance public access to the ICW by removing shoaling sand.

- b) List the upstream publicly accessible facilities with improved access as a result of this project.

Ocean Inlet Park
Harvey E. Oyer, Jr. Park

(For reviewer only)
(1 -3 points)

9) BENEFICIAL PROJECT ELEMENTS:

- a) Are there additional economic benefits to be realized by implementing this project?

Yes. Placing dredged beach-compatible sand on the downdrift beach reduces the impacts of the inlet on natural sediment transport and may extend the life of the Federal Shore Protection Project (Ocean Ridge).

- b) Briefly spell out any water quality, environmental or habitat benefits to be realized by this project.

The existence of a sand trap reduces sedimentation impacts to adjacent seagrass areas. Dredging of the sand trap improves water quality in the ICW by maintaining inlet flushing capability. Having a maintained channel to the Harvey E. Oyer Jr. Park boat ramps reduces impacts to seagrass from propeller scour.

(For reviewer only)
(1 -2 points)

10) PROJECT MAINTENANCE:

a) When was this area last dredged? What is the expected frequency of future dredging?

The area was last dredged during the 2013-14 project. Expected dredging frequency is every 6-8 years.

b) Explain the funding mechanism for the long-term maintenance of the project.

The County utilizes annual ad valorem funding for inlet management, and the costs of maintaining the inlet are contained in FDEP's long-range budget plan.

c) Describe the long-range dredge material management plans.

Beach-compatible sand from the trap and the boat channel will be pumped via pipeline to the nearshore south of the inlet at Ocean Hammock Park. Excavated rock over 1ft in diameter will be added to an existing artificial reef site just south of the trap. Any non-beach compatible sand or small rock/sand mixture excavated from the trap or boat channel will be barged to the Half Moon Bay Hole 1.6 mi north of the inlet in the ICW for disposal or to another environmental enhancement project site in the ICW.

(For reviewer only)
(1 -2 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.

ATTACHMENT E-5

PROJECT COST ESTIMATE

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

Project Title:	South Lake Worth Inlet Sand Trap & Boat Channel Dredging
Applicant:	Palm Beach County

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 <i>(To the nearest \$50)</i>	FIND Cost <i>(To the nearest \$50)</i>
SEAGRASS SURVEYS	80,250.00	63,350.00	16,900.00
DESIGN AND PERMITTING	63,200.00	58,700.00	4,500.00
CONSTRUCTION	5,196,350.00	4,483,650.00	712,700.00

**TOTALS =	\$5,339,800.00	\$4,605,700.00	\$734,100.00
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ATTACHMENT E-6
PROJECT TIMELINE
WATERWAY ASSISTANCE PROGRAM FY 2021

Project Title:	South Lake Worth Inlet Sand Trap & Boat Channel Dredging
Applicant:	Palm Beach County

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
5/6/20	Design
8/31/21	JCP permit mod issuance
11/2/21	Contract execution
8/30/22	Construction completion
7/30/23	One year post-construction seagrass monitoring

ATTACHMENT E-7
RESOLUTION FOR ASSISTANCE 2021
UNDER THE FLORIDA INLAND NAVIGATION DISTRICT
WATERWAYS ASSISTANCE PROGRAM

WHEREAS, THE Palm Beach County is interested in carrying out the
(Name of Agency)
following described project for the enjoyment of the citizenry of Palm Beach County
and the State of Florida:

Project Title South Lake Worth Inlet Sand Trap & Boat Channel Dredging

Total Estimated Cost \$ 5,339,800.00

Brief Description of Project:

Maintenance dredging of the interior sand trap and Harvey E. Oyer, Jr. Park
boat channel in the vicinity of South Lake Worth Inlet.

AND, Florida Inland Navigation District financial assistance is required for the program
mentioned above,

NOW THEREFORE, be it resolved by the Palm Beach County
(Name of Agency)
that the project described above be authorized,

AND, be it further resolved that said Palm Beach County
(Name of Agency)

make application to the Florida Inland Navigation District in the amount of 14 % of the
actual cost of the project in behalf of said Palm Beach County
(Name of Agency)

AND, be it further resolved by the Palm Beach County
(Name of Agency)
that it certifies to the following:

1. That it will accept the terms and conditions set forth in FIND Rule 66B-2
F.A.C. and which will be a part of the Project Agreement for any assistance awarded under
the attached proposal.

2. That it is in complete accord with the attached proposal and that it will carry out
the Program in the manner described in the proposal and any plans and specifications attached
thereto unless prior approval for any change has been received from the District.

3. That it has the ability and intention to finance its share of the cost of the project and that the project will be operated and maintained at the expense of said _____

Palm Beach County for public use.
(Name of Agency)

4. That it will not discriminate against any person on the basis of race, color or national origin in the use of any property or facility acquired or developed pursuant to this proposal, and shall comply with the terms and intent of the Title VI of the Civil Rights Act of 1964, P. L. 88-352 (1964) and design and construct all facilities to comply fully with statutes relating to accessibility by persons with disabilities as well as other federal, state and local laws, rules and requirements.

5. That it will maintain adequate financial records on the proposed project to substantiate claims for reimbursement.

6. That it will make available to FIND if requested, a post-audit of expenses incurred on the project prior to, or in conjunction with, request for the final 10% of the funding agreed to by FIND.

This is to certify that the foregoing is a true and correct copy of a resolution duly and legally adopted by the Palm Beach County Board of County Commissioners at a legal meeting
(agency governing board)
held on this _____ day of _____ 2021.

Joseph Abruzzo

Attest

Clerk of the Circuit Court & Comptroller

Title

Signature

Title

ATTACHMENT E-8

ATTORNEYS CERTIFICATION OF TITLE 2021
(See Rule 66B-2.006(4) & 2.008(2) FAC)

Office of the County Attorney
Palm Beach County
301 N. Olive Avenue, 6th Floor
West Palm Beach, Florida 33401

January 29, 2021

TO WHOM IT MAY CONCERN:

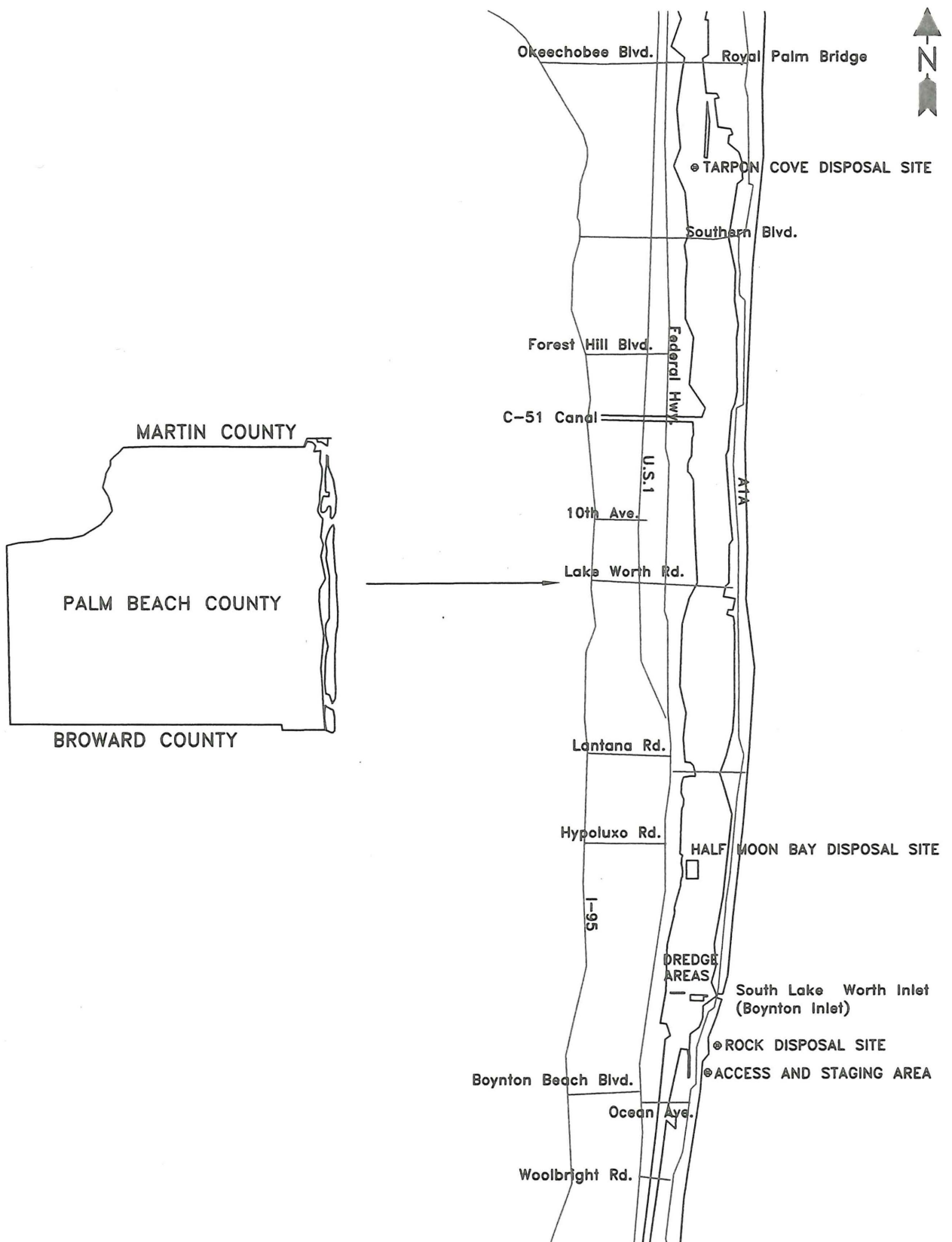
I, Scott A. Stone, am an Assistant County Attorney for Palm Beach County, Florida. I hereby state that I have examined a copy of the documents conveying beach restoration easements on property located in Palm Beach County, Florida, stretching from the south jetty of the South Lake Worth Inlet to a point 1.16 miles south of the inlet, ending at approximately survey monument R-157. I certify that Palm Beach County holds easements over the above-cited properties, which terminate in October of 2045.

I have also examined documents showing that PCN#46-43-45-22-00-005-0140, PCN#00-43-45-15-00-004-0010, PCN#46-43-45-15-08-000-0010 and PCN#46-43-45-10-01-000-0010 are listed on the tax rolls as belonging to Palm Beach County. Finally, I have also examined such documents and records as necessary for this certification.

These properties are cited in the WAP application as the "Beach Access, Pipeline, and Disposal Sites."

Very truly yours,

/s/ Scott A. Stone
Scott A. Stone
Assistant County Attorney



PALM BEACH COUNTY
ENVIRONMENTAL
RESOURCES
MANAGEMENT

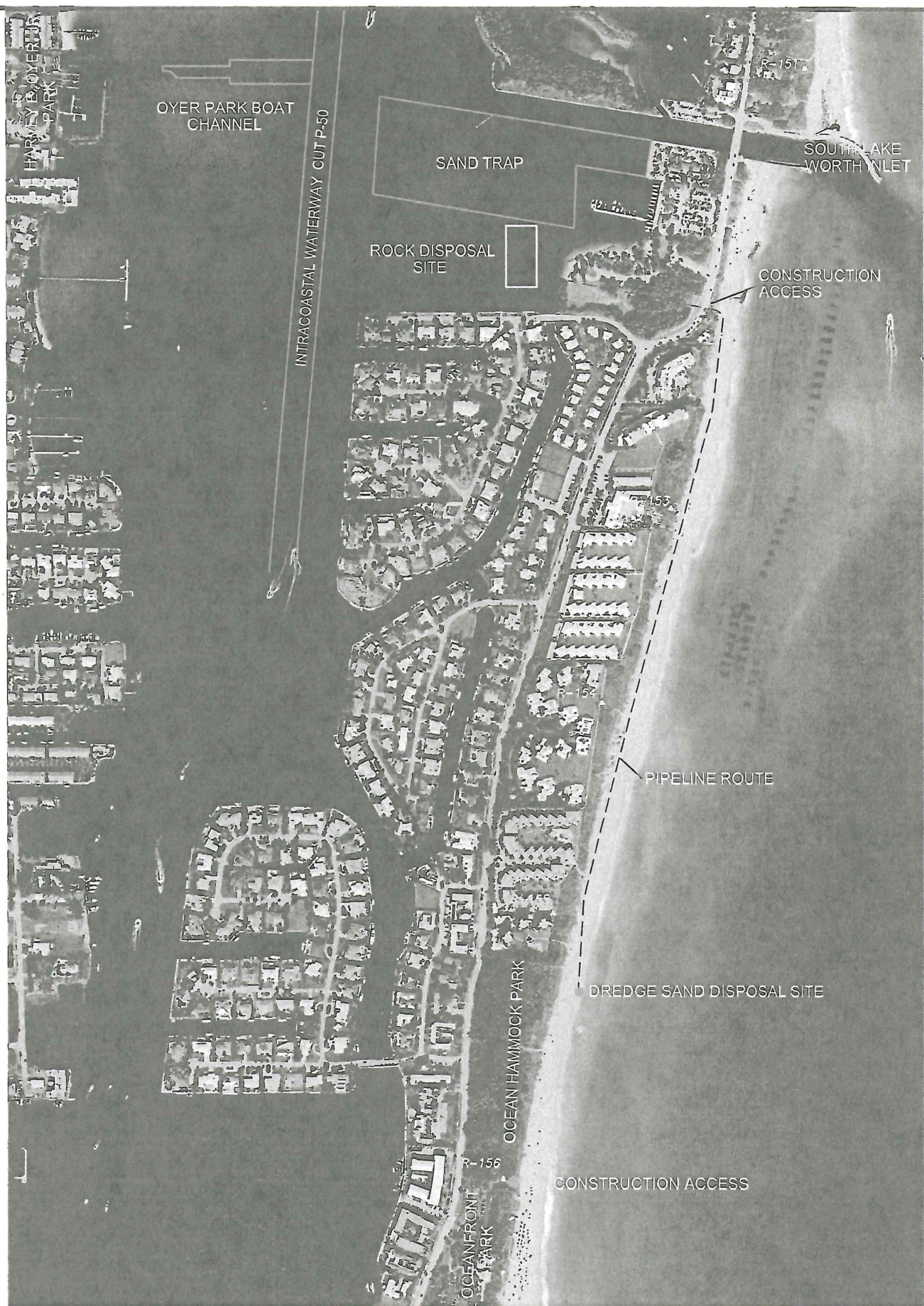
SOUTH LAKE WORTH INLET
SAND TRAP AND BOAT CHANNEL
DREDGING
COUNTY LOCATION MAP

SCALE: NTS

02/2021



CHECK LIST ITEM 10



PALM BEACH COUNTY
ENVIRONMENTAL
RESOURCES
MANAGEMENT

SOUTH LAKE WORTH INLET
SAND TRAP AND BOAT CHANNEL
DREDGING
PROJECT BOUNDARY MAP

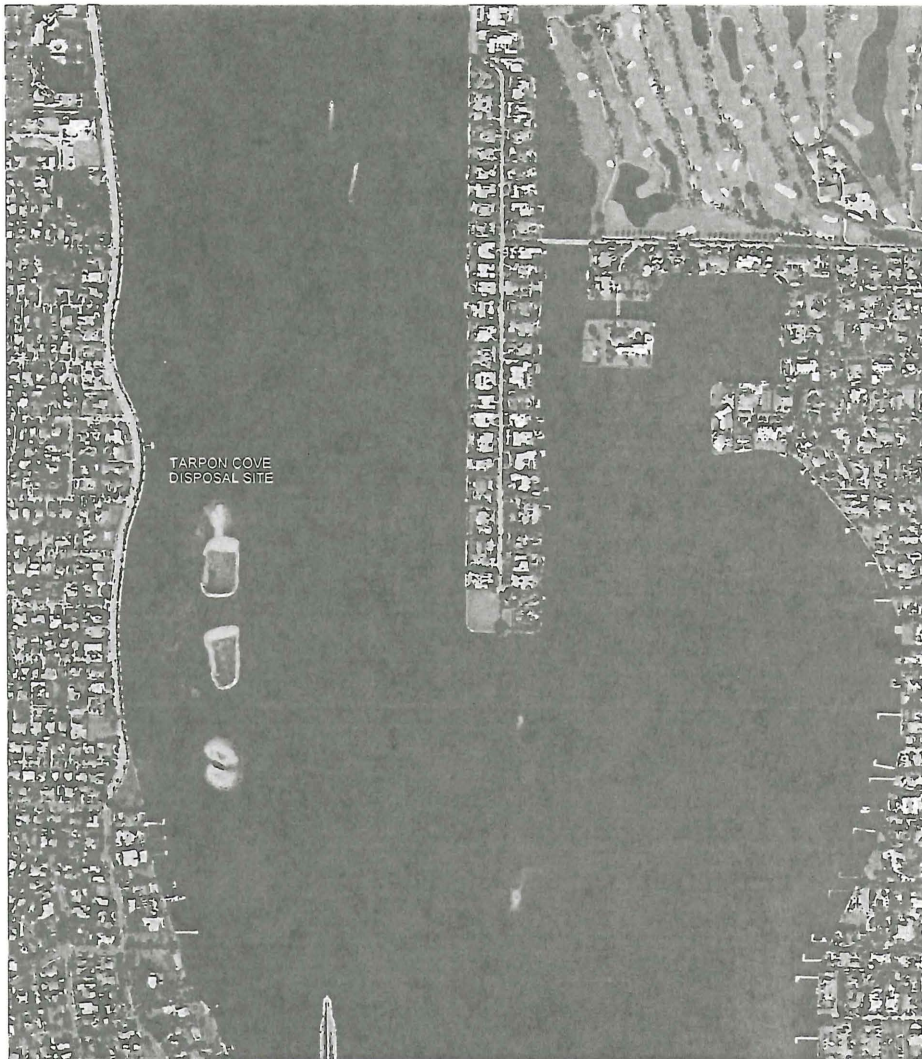
SCALE: NTS



02/2021

CHECKLIST ITEM 11

8.4 MI



TARPON COVE
DISPOSAL SITE

1.6 MI



HALF MOON
BAY HOLE
DISPOSAL SITE

INTRA-COASTAL WATERWAY



OYER PARK BOAT
CHANNEL

INTRA-COASTAL WATERWAY

SAND TRAP

ROCK DISPOSAL
SITE

SOUTH LAKE
WORTH INLET

CONSTRUCTION
ACCESS



PALM BEACH COUNTY
ENVIRONMENTAL
RESOURCES
MANAGEMENT

SOUTH LAKE WORTH INLET
SAND TRAP AND BOAT CHANNEL
DREDGING
PROJECT BOUNDARY MAP

SCALE: NTS



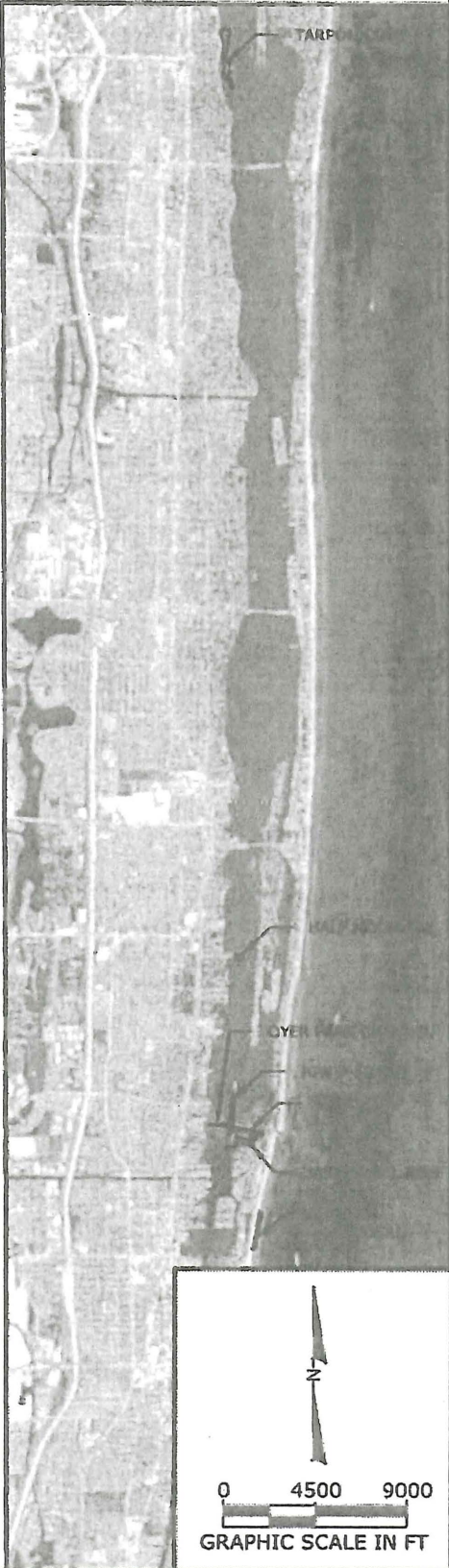
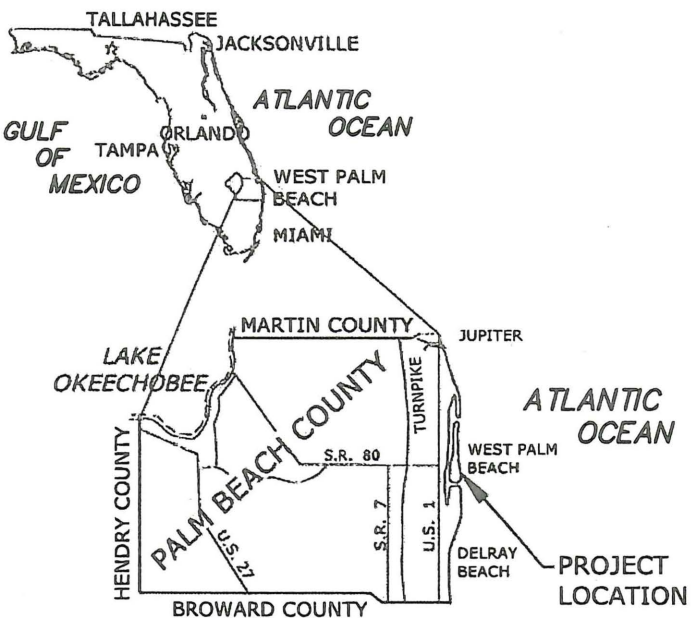
02/2021

CHECKLIST ITEM 11 CONT'D

Item 12

Clear and Detailed Site Development Plan Map

SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA



INDEX TO SHEETS

NO.	TITLE
1	COVER SHEET
2	SAND TRAP PLAN VIEW
3	SAND TRAP ROCK PLAN
4-5	SAND TRAP CROSS-SECTIONS
6	ICW P-50 CUT PLAN VIEW
7-8	ICW P-50 CUT CROSS-SECTIONS
9	OYER PARK BOAT CHANNEL PLAN VIEW
10-11	OYER PARK BOAT CHANNEL CROSS-SECTIONS
12	OCEAN RIDGE BEACH DISPOSAL PLAN VIEW
13-15	OCEAN RIDGE BEACH DISPOSAL CROSS-SECTION
16	HALF MOON BAY PLAN VIEW
17	HALF MOON BAY CROSS-SECTION
18	ROCK DISPOSAL AREA PLAN VIEW
19	ROCK DISPOSAL AREA CROSS-SECTION
20	A-1-A CASING PERMIT
21-31	TARPON COVE RESTORATION

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

DOUGLAS MANN

PE NO. 44046

DATE

REVISIONS		
DATE	BY	DESCRIPTION

SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
COVER SHEET

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
2401 W. Boca Raton Boulevard
Boca Raton, FL 33431
PH: (561) 351-5102
FAX: (561) 351-5110
C.O.A. FL #0317
www.APTIM.com

DATE: 6/17/20
BY: HMV
COMM NO.: 631006216
SHEET: 1 OF 31

NOTES:

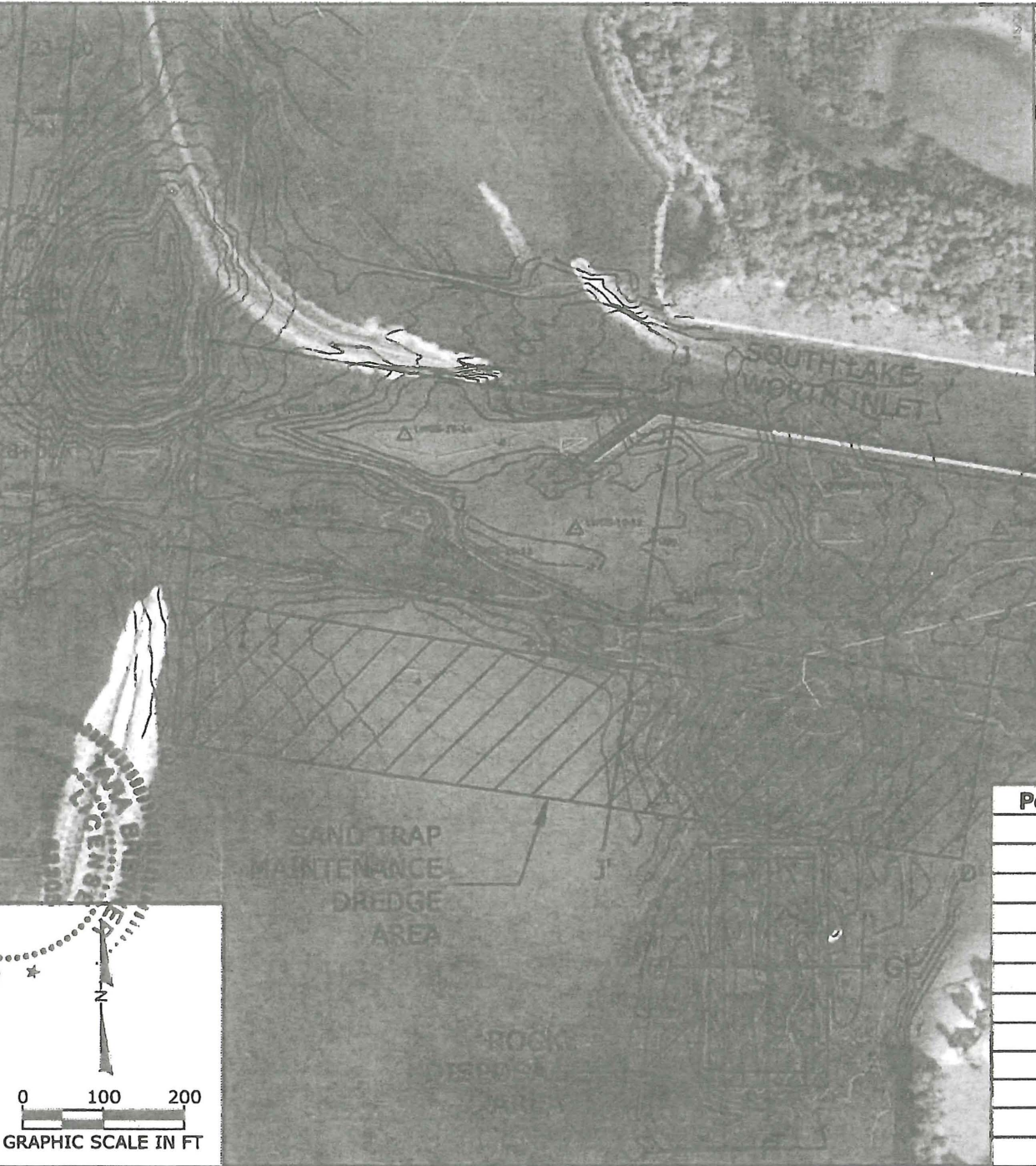
- 1. BATHYMETRIC SURVEY CONDUCTED IN JANUARY 2020.
- 2. COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83.
- 3. ELEVATIONS ARE IN FEET BASED ON NAVD88.
- 4. 2019 BACKGROUND IMAGERY IS FROM ESRI WORLD IMAGERY BASEMAP.
- 5. SAND TRAP LIMITS ARE INCLUSIVE OF SIDE SLOPES.

LEGEND:

- △ LWGS-19-01 2019 APTIM GRAB SAMPLE
- ⊕ R-1 1997 CPE VIBRACORES
- ▨ NON-BEACH COMPATIBLE
- 2013 SEAGRASS EDGE
- - - 2016 SEAGRASS EDGE

Point	Northing	Easting
A	805126.3	968516.1
B	804926.3	968487.5
C	804978.0	968174.3
D	804698.0	968127.7
E	804844.0	967139.3
F	805342.0	967184.3
G	805254.2	967726.5
H	805194.3	967643.7
I	805170.0	967661.3
J	805235.0	967751.1
K	805152.2	968259.8
L	805167.0	968262.2

SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
SAND TRAP BATHYMETRY



NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

TARA BRENNER

PE NO. 82305

DATE

10-30-20

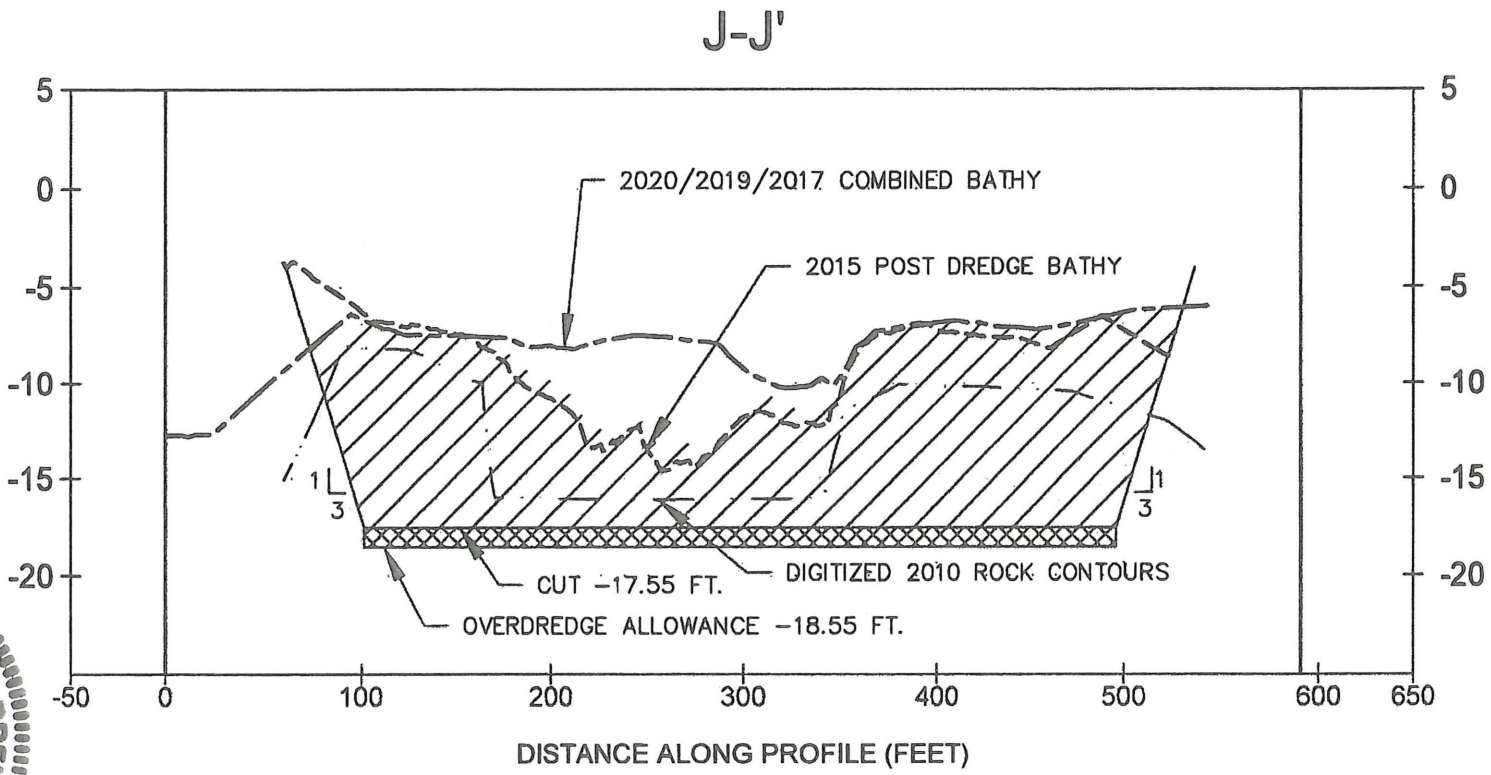
NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

TARA BRENNER
PE NO. 82305
DATE 10-30-20

REVISIONS
DATE DESCRIPTION
BY: HW
COMM NO
SHEET: 4 OF 31

COASTAL PROTECTION ENGINEERING, LLC
8301 NORTH FEDERAL HWY
SUITE 335
BOCA RATON, FLORIDA 33427
PH. (561) 995-9100
C.O.A. FL. 833370

ELEVATION (NAVD-FEET)

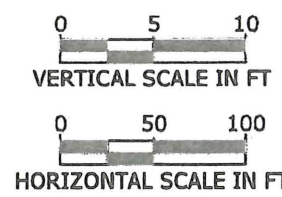


NOTES:

- BATHYMETRIC SURVEY COMBINED: FROM SEA DIVERSIFIED IN 2017 AND APTIM IN DEC 2019/FEB 2020.
- SUB-SURFACE ROCK CONTOURS DIGITIZED BY PALM BEACH COUNTY BASED ON 2010 JET PROBES.

LEGEND:

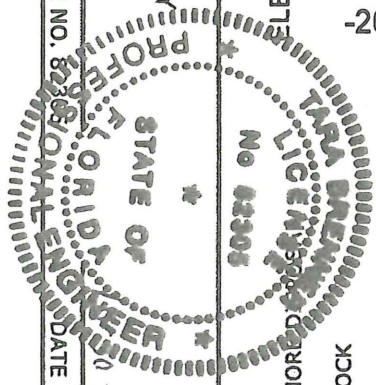
- SEDIMENT FOR NEARSHORE DISPOSAL
- MIXED SEDIMENT OR ROCK



J:\Latest SLW Drawings\SLW XS.dwg - Sep 17, 2020 @ 5:04pm - Heather Vollmar

TARA BRENNER
PE NO. 63106216
DATE 09/20/20

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

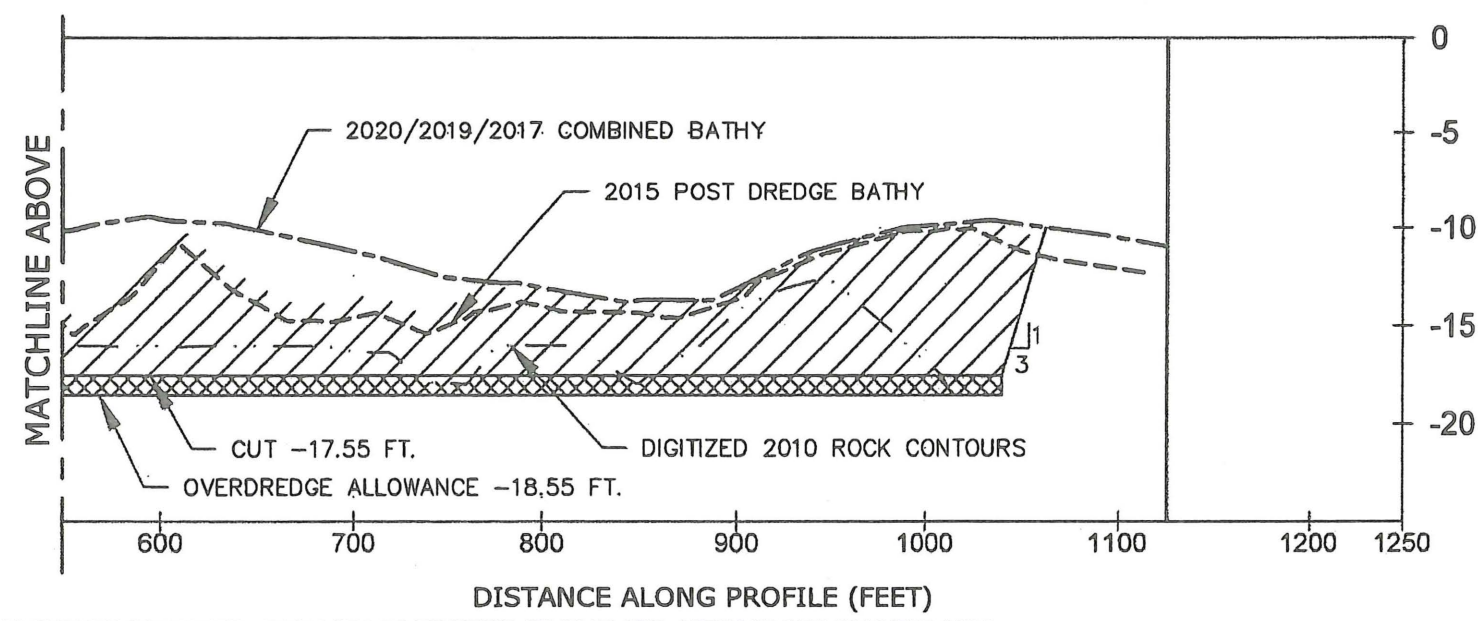
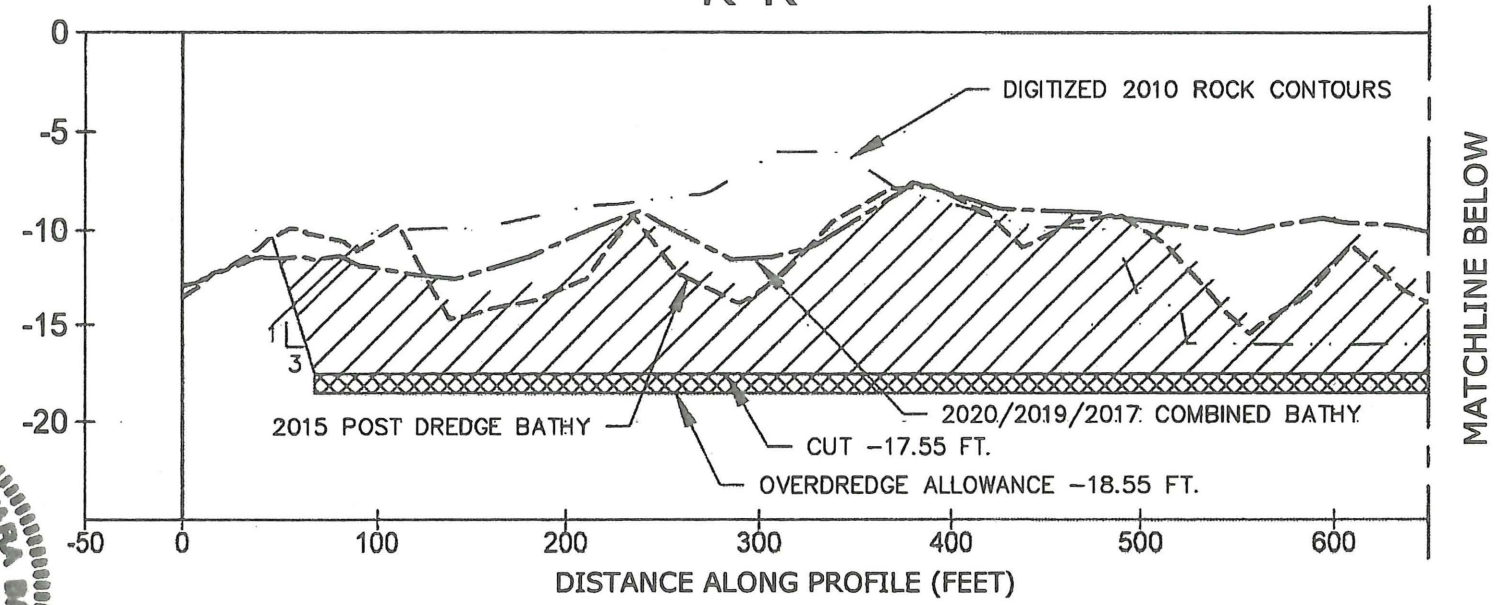


LEGEND:
SEDIMENT FOR NEARSHORE DREDGING
MIXED SEDIMENT OR ROCK

NOTES:

1. BATHYMETRIC SURVEY COMBINED: FROM SEA DIVERSIFIED IN 2017 AND APTIM IN DEC 2019/FEB 2020.
2. SUB-SURFACE ROCK CONTOURS DIGITIZED BY PALM BEACH COUNTY BASED ON 2010 JET PROBES.

K-K'



BY: 5/28/20
DATE: 5/28/20
COASTAL PROTECTION ENGINEERING, LLC
6301 NORTH FEDERAL HWY
SUITE 330
BOCA RATON, FLORIDA 33497
C.O.A. FL 633370
www.coastalprotectioneng.com

SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
SAND TRAP CROSS SECTIONS

P:\Palm Beach\County Projects\631006216_SLM Maintenance Dredging\CAD\Latest SLM Drawings\SLW_Oyer_ICW_PV.dwg - Oct 23, 2020 @ 2:39pm - Heather Vollmer

TARA BRENNER

PE NO. 82305

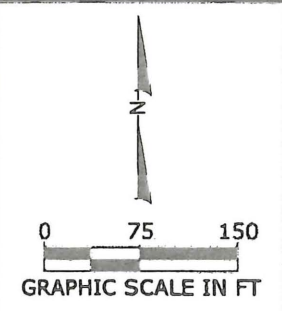
DATE

9 OF 31

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY



Point	Northing	Easting
A	805521.5	966875.1
B	805491.5	966872.0
C	805431.5	966867.0
D	805401.5	966864.4
E	805401.5	966478.1
F	805431.5	966478.1
G	805431.5	966217.0
H	805439.8	966209.2
I	805439.8	965891.4
J	805450.6	965879.2
K	805491.5	965878.6
L	805491.5	966147.0
M	805491.5	966478.1
N	805521.5	966478.1



NOTES:

- BATHYMETRIC SURVEY COMBINED: FROM SEA DIVERSIFIED IN 2017 AND APTIM IN DEC 2019/FEB 2020.
- COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83.
- ELEVATIONS ARE IN FEET BASED ON NAVD88.
- 2019 BACKGROUND IMAGERY IS FROM ESRI WORLD IMAGERY BASEMAP.
- JUNE 2020 SEAGRASS SURVEY BY PALM BEACH COUNTY.

LEGEND:

- △ LWGS-19-01 2019 APTIM GRAB SAMPLE
- CHANNEL MARKERS
- (-12.55') EXCAVATION ELEVATION
- ▨ NON-BEACH COMPATIBLE
- ▤ EXPANSION
- 2013 SEAGRASS EDGE
- 2020 SEAGRASS EDGE

DATE	BY	DESCRIPTION

BY: **HMV**
DATE: **3/28/20**
COMM NO.: **631006216**
SHEET: **9 OF 31**

Coastal Protection Engineering LLC
8301 Rt. Federal Hwy, Suite #838
Boca Raton, FL 33487
www.coastalprotectioneng.com

PH: (561) 985-5100
C.O.A. FL 833370

**SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
OYER PARK BOAT CHANNEL BATHYMETRY**

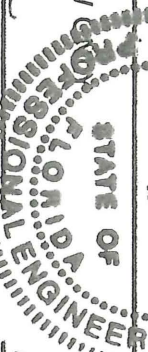
TARA BRENNER

PE NO. 82509

DATE

10-30-20

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW



DATE	BY	REVISIONS DESCRIPTION

10 OF 31

SHEET:

COMM NO.

HMV

DATE:

5/28/20

BY:

COASTAL PROTECTION ENGINEERING, LLC

5301 NORTH FEDERAL HWY

SUITE 335

BOCA RATON, FLORIDA 33407

PH. (561) 565-9100

C.O.A. FL. 033370

SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
OYER PARK BOAT CHANNEL CROSS SECTIONS

NOTES:

- BATHYMETRIC SURVEY COMBINED: FROM SEA
DIVERSIFIED IN 2017 AND APTIM IN DEC 2019/FEB 2020.

LEGEND:

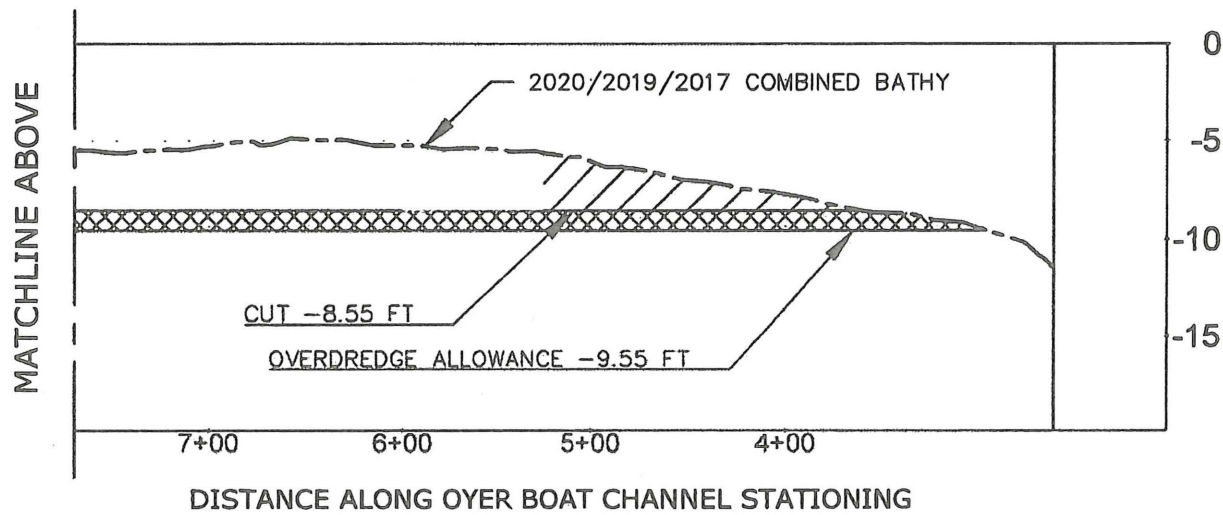
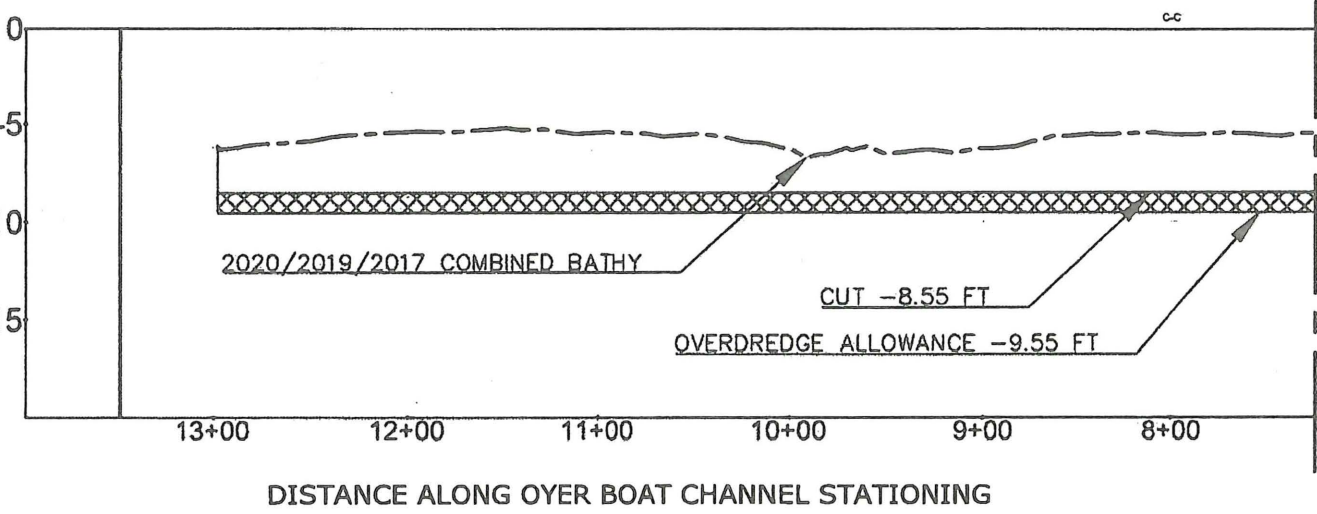


SEDIMENT FOR NEARSHORE DISPOSAL



MIXED SEDIMENT OR ROCK

ELEVATION (NAVD-83)



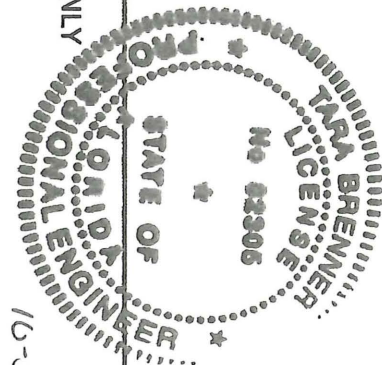
TARA BRENNER

PE NO. 82305

DATE

16-30-20

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY



REVISIONS

DATE

BY

DESCRIPTION

HMV

COMM NO.

SHEET

NOTES:

1. BATHYMETRIC SURVEY COMBINED: FROM SEA DIVERSIFIED IN 2017 AND APTIM IN DEC 2019/FEB 2020.

DATE: 5/28/20

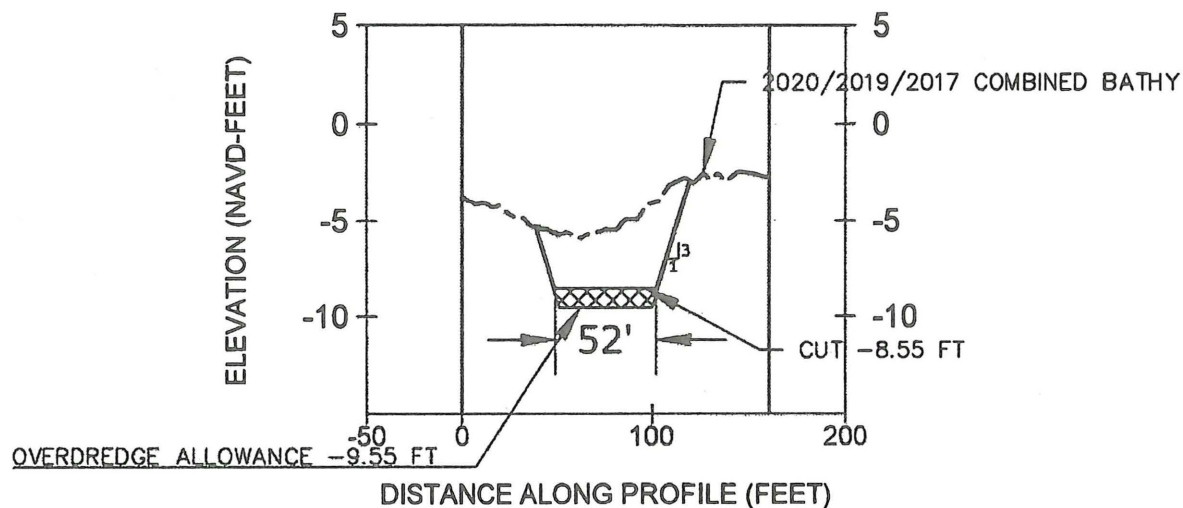
BY:

COASTAL PROTECTION ENGINEERING, LLC

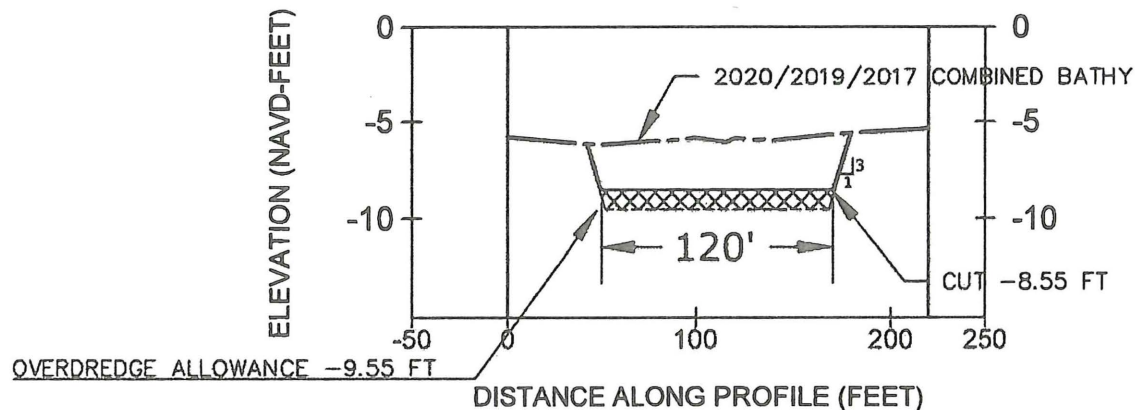
6301 NORTH FEDERAL HWY
SUITE 330
BOCA RATON, FLORIDA 33487
www.coastalprotectioneng.com

PH. (561) 866-6100
C.O.A. FL. 033370

D-D'



E-E'



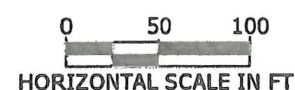
LEGEND:



SEDIMENT FOR NEARSHORE DISPOSAL



MIXED SEDIMENT OR ROCK



SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
OYER PARK BOAT CHANNEL CROSS SECTIONS

DATE _____

STATE OF
FLORIDA
PROFESSIONAL ENGINEER
NO. 82305
DATE

12 OF 31

1997 ECL

15H:1V

15H:1V

15H:1V

R-156

R-157

R-158

PLACEMENT AREA BEACH QUALITY SAND

CONSTRUCTION BRANCH CANAL

NOTES:

1. 2019 BACKGROUND IMAGERY IS FROM ESRI WORLD IMAGERY BASEMAP.
2. COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83.
3. NEARSHORE DISPOSAL AREA PROPOSED WITHIN OCEAN RIDGE PLACEMENT AREA FDEP PERMIT NO. 0311339-011-JC AND USACE PERMIT NO. SAJ-2012-01244-SP-MJW.

0 20 50

GRAPHIC SCALE IN FT

NOTES:

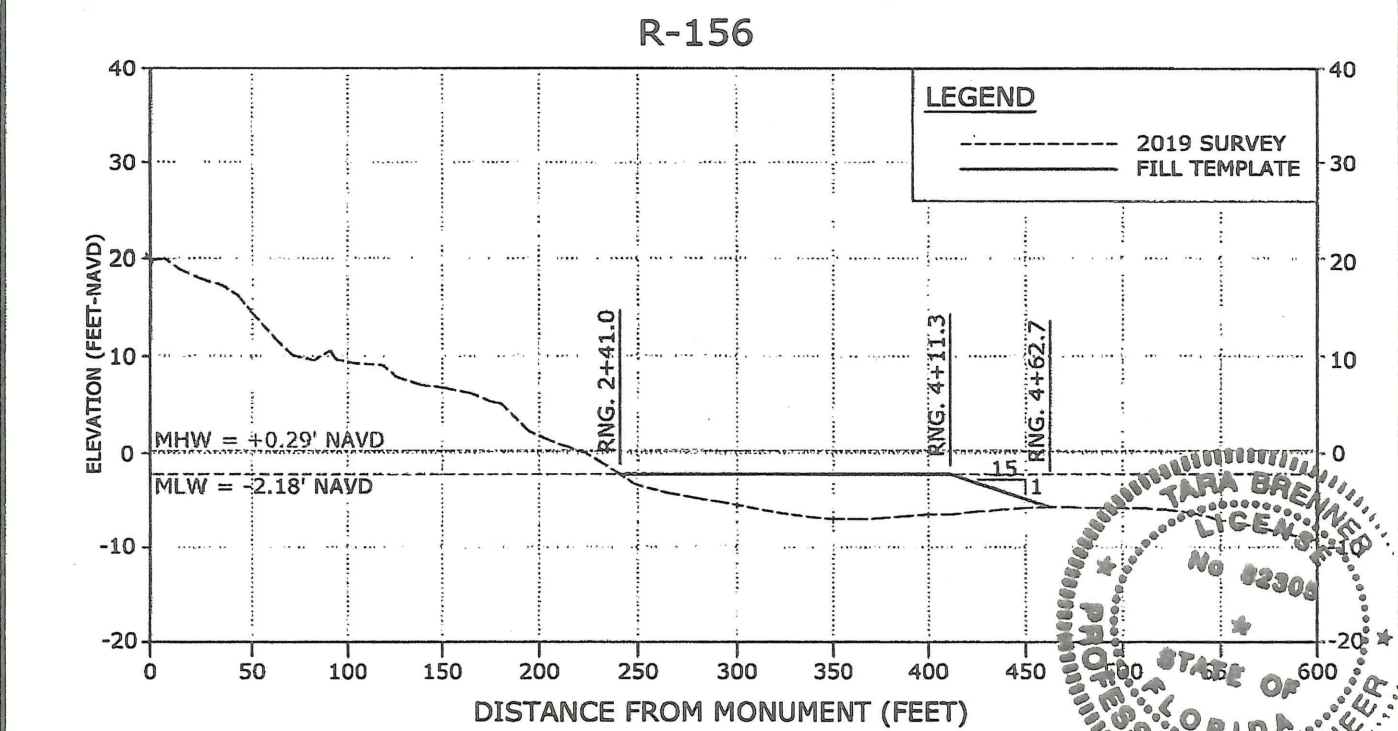
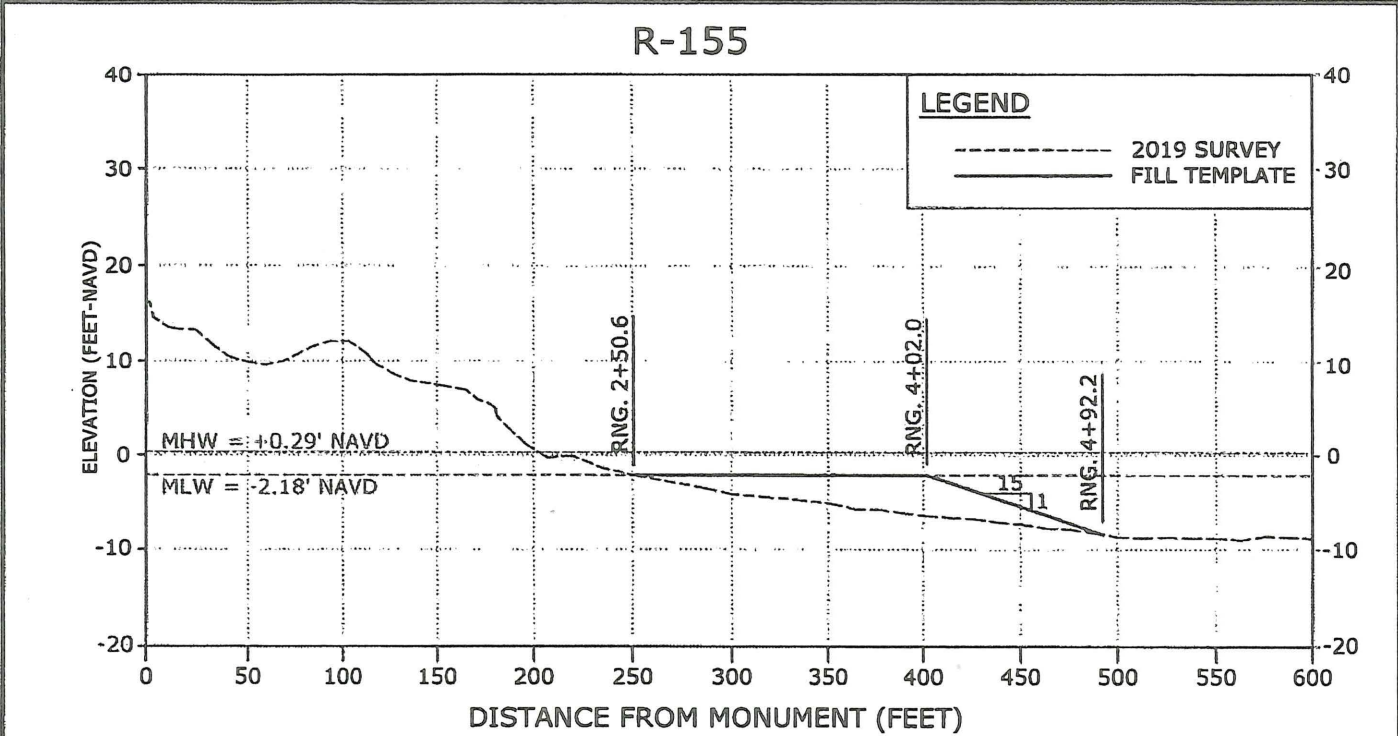
1. 2019 BACKGROUND IMAGERY IS FROM ESRI WORLD IMAGERY BASEMAP.
2. COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83.
3. NEARSHORE DISPOSAL AREA PROPOSED WITHIN OCEAN RIDGE PLACEMENT AREA FDEP PERMIT NO. 0311339-011-JC AND USACE PERMIT NO. SAJ-2012-01244-SP-MJW.

5/28/20
BY:

Coastal Protection Engineering LLC
5301 N. Federal Hwy, Suite #335
Boca Raton, FL, 33487
www.coastalprotection.com

PH. (561) 565-5100
C.O.A. FL. #33370

**SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
OCEAN RIDGE NEARSHORE BEACH DISPOSAL PLAN VIEW**



NOTES:

1. BATHYMETRIC SURVEY CONDUCTED BY PALM BEACH COUNTY IN 2019.
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. COORDINATES ARE IN FEET REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
4. FILL TO BE PLACED AT OR BELOW MLW.

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

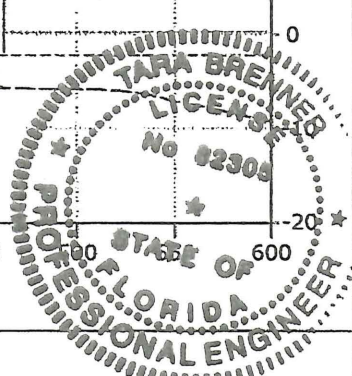
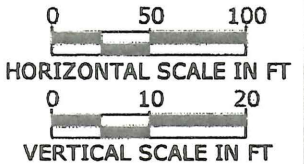
TARA BRENNER

PE NO. 82305

DATE

10-30-20

REVISIONS		
DATE	BY	DESCRIPTION



\\latest slwm Drawings\SLWM CS PV.dwg - Sep 17, 2020 @ 4:49pm - Heather Vollmer

TARA BRENNER

PE NO. 82305

DATE

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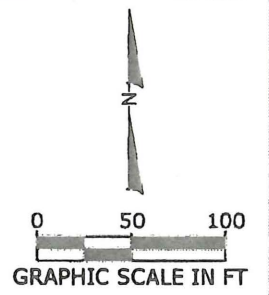
10-30-20

NOTES:

- 1. BATHYMETRIC SURVEY CONDUCTED BY APTIM IN DECEMBER 2019.
- 2. COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83.
- 3. ELEVATIONS ARE IN FEET BASED ON NAVD88.
- 4. 2019 BACKGROUND IMAGERY IS FROM ESRI WORLD IMAGERY BASEMAP.

LEGEND:

 DISPOSAL UPPER ELEVATION



Point	Northing	Easting
A	813969.1	967506.9
B	813765.2	967489.2
C	813576.2	967382.2
D	813659.0	967147.5
E	813873.5	967148.5
F	813919.6	967230.2
G	813912.3	967296.2

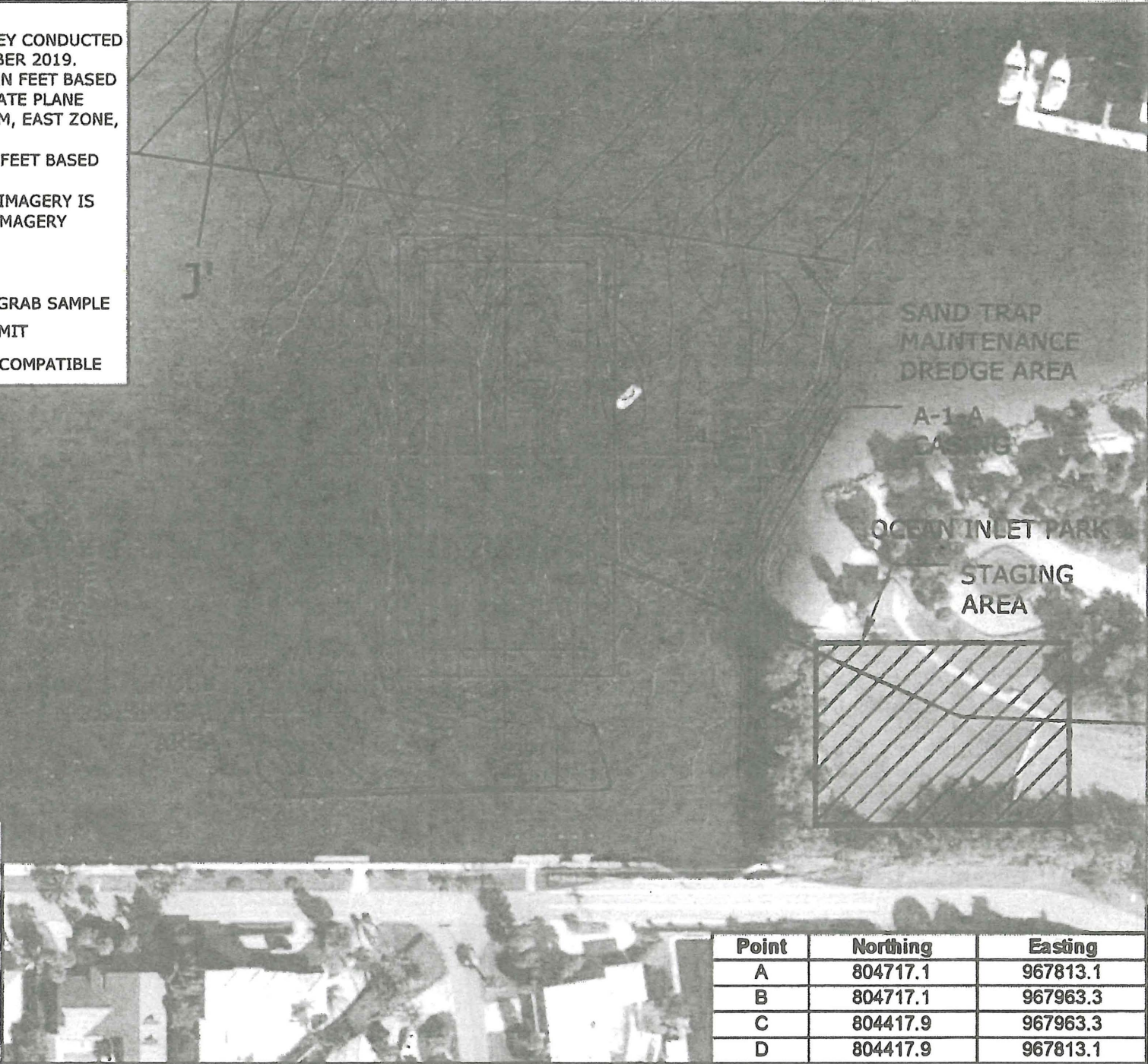
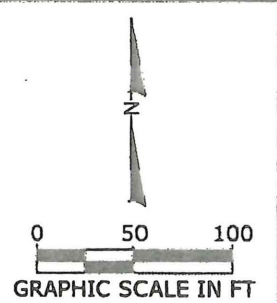
SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
HALF MOON BAY DISPOSAL AREA BATHYMETRY

Coastal Protection Engineering LLC
5301 N. Federal Hwy, Suite 8035
Boca Raton, FL, 33417
PH: (561) 965-6100
C.O.A. FL 933370

16 OF 31
SHEET:
631006216
COMM NO.
HMV

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

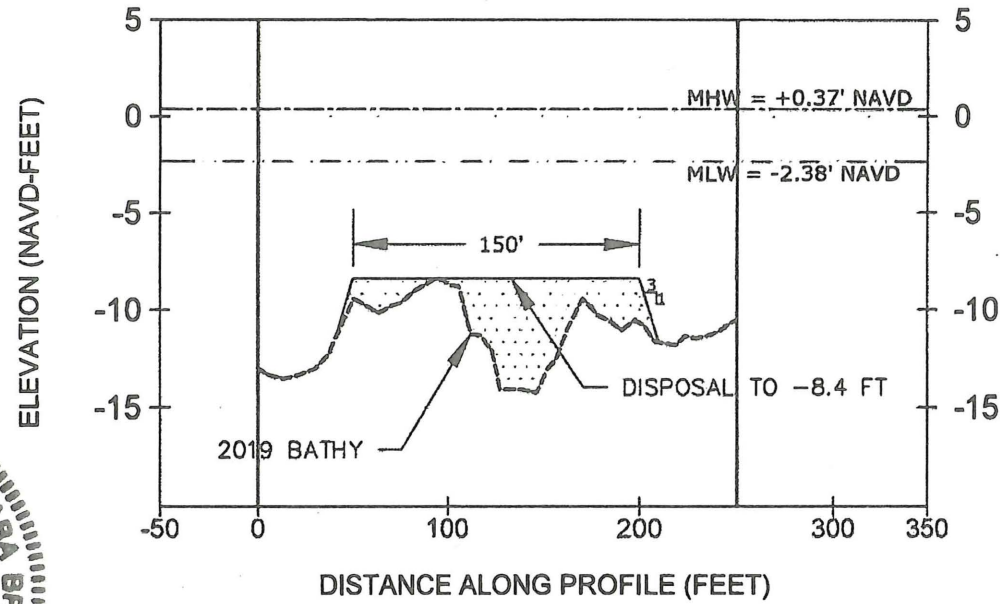
- NOTES:
- BATHYMETRIC SURVEY CONDUCTED BY APTIM IN DECEMBER 2019.
 - COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83.
 - ELEVATIONS ARE IN FEET BASED ON NAVD88.
 - 2019 BACKGROUND IMAGERY IS FROM ESRI WORLD IMAGERY BASEMAP.
- LEGEND:
- △ LWGS-19-01 2019 APTIM GRAB SAMPLE
 - (-6.00') DISPOSAL LIMIT
 - NON-BEACH COMPATIBLE



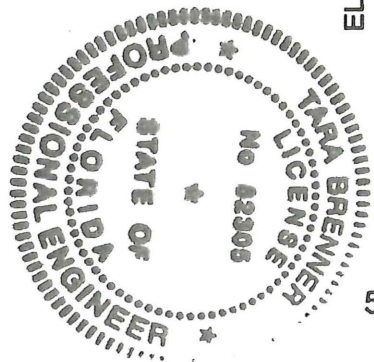
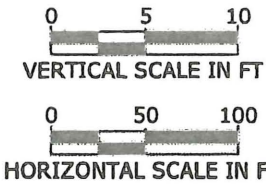
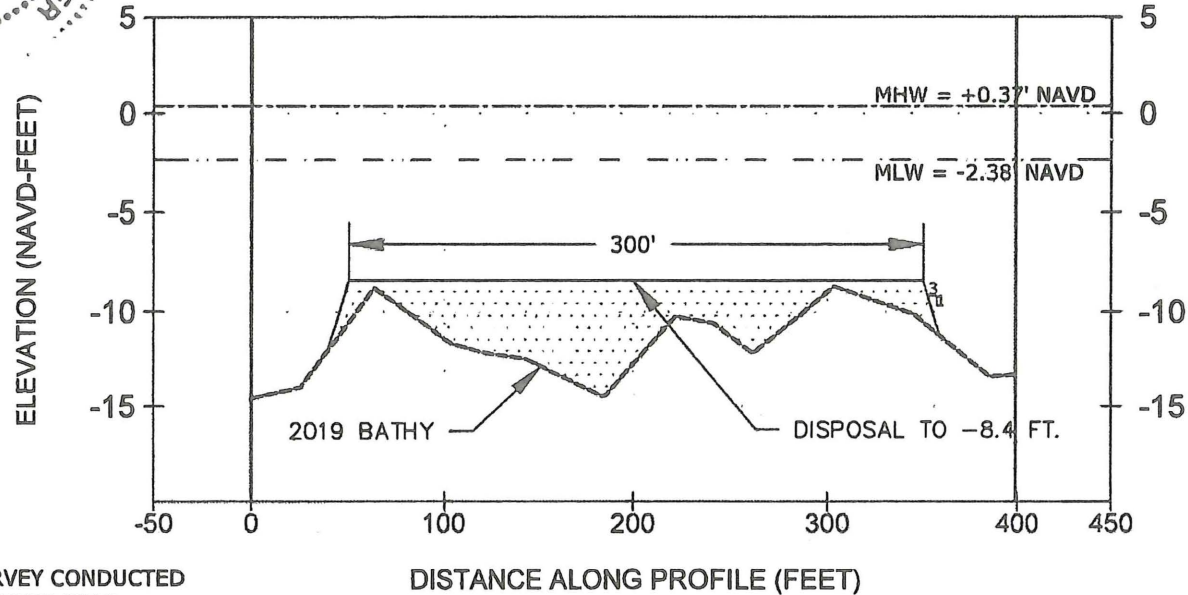
Point	Northing	Easting
A	804717.1	967813.1
B	804717.1	967963.3
C	804417.9	967963.3
D	804417.9	967813.1

SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
ROCK DISPOSAL AREA BATHYMETRY

G-G'



F-F'



NOTES:

1. BATHYMETRIC SURVEY CONDUCTED BY APTIM IN DECEMBER 2019.

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

TARA BRENNER

PE NO. 82305

DATE

10-30-20

D:\Latest\SLW Drawings\SLW XS.dwg - Sep 17, 2020 @ 5:19pm - Heather Vollmer

DATE	BY	REVISIONS
		DESCRIPTION

19 OF 31

DATE: 5/28/20

COASTAL PROTECTION ENGINEERING, LLC
6301 NORTH FEDERAL HWY
SUITE 325
BOCA RATON, FLORIDA 33487
www.coastalprotectioneng.com
PH: (561) 666-6100
C.O.A. FL. 633370

**SOUTH LAKE WORTH INLET MAINTENANCE DREDGING
PALM BEACH COUNTY, FLORIDA
ROCK DISPOSAL AREA CROSS SECTIONS**

