

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT P. O. BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

March 19, 2020

Regulatory Division West Permits Branch Tampa Section SAJ-2019-01203(NW-JLC)

Jennette Seachrist Southwest Florida Water Management District 2370 Broad Street Brooksville, FL 34604 Sent via e-mail: janie.hagberg@swfwmd.state.fl.us

Dear Ms. Seachrist:

The U.S. Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit, which the Corps received on August 23, 2019, the file number SAJ-2019-01203. A review of the information and drawings provided indicates that the proposed work would result in the restoration of a 1.5 mile stretch of the Weeki Wachee River by removing 26,200 cubic yards of sediment from 7.4 acres of the river channel and four sediment deposition areas. The sediment will be hydraulically dredged from a barge to a depth of -5 feet below Mean Low Water, and the dredged material will be pumped to an upland dewatering area. The project also includes temporary impacts to 1.2 acres of wetlands for the construction and operation of the dredged material treatment area. The temporary impact area must be restored to pre-impact conditions or greater.

The activities subject to this permit are authorized pursuant to authorities under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. § 403), and Section 404 of the Clean Water Act (33 U.S.C. § 1344). The project is located in the Weeki Wachee River, from approximately 750 feet downstream of the Shoal Line Blvd bridge to approximately 1,300 feet upstream of E Richard Drive, in Sections 29, 32 & 33, Township 22 South, Range 17 East, Weeki Wachee, Hernando County, Florida. The dredged material will be temporarily stored and treated on county-owned property south of Cofer Road (28.538172°, -82.623413°).

Approximate start: (28.533742°, -82.629021°) Approximate end: (28.529567°, -82.607792°) Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) Number 27. In addition, project specific conditions have been enclosed. This verification is valid until **March 18, 2022**. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Internet page to access Internet links to view the Final Nationwide Permits, Federal Register Vol. 82, dated January 6, 2017, specifically pages 1983 to 2008, and the table of Regional Conditions. The Internet page address is as follows: <u>http://www.saj.usace.army.mil/Missions/Regulatory.aspx</u>.

Please be aware this Internet address is case sensitive and should be entered as it appears above. Once there you will need to click on "Source Book" and then click on "Nationwide Permits." These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 27. Enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. **Reporting Address:** The Permittee shall submit all reports, notifications, documentation and correspondence required by the general and special conditions of this permit to either (not both) of the following address:

- a) For electronic mail: SAJ-RD-Enforcement@usace.army.mil (not to exceed 15 MB).
- b) For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Special Projects and Enforcement Branch, P.O. Box 4970, Jacksonville, Florida 32232-0019.

The Permittee shall reference this permit number, SAJ-2019-01203(NW-JLC), on all submittals.

2. **Commencement Notification:** Within 10 days from the date of initiating the work authorized by this permit the Permittee shall submit a completed "Commencement Notification" form (attached).

3. **Self-Certification:** Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form and submit it to the Corps. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.

4. Cultural Resources/Historic Properties:

- a) No structure or work shall adversely affect impact or disturb properties listed in the National Register of Historic Places (NRHP) or those eligible for inclusion in the NRHP.
- b) If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: prehistoric or historic artifacts, pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, projectile points, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial, early European, or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps and the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850)-245-6333 within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.
- c) Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in

accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.

d) In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archaeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archaeologist and from the Corps.

5. **Assurance of Navigation and Maintenance:** The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

6. Manatee Conditions:

- a) The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work 2011," attached to this permit (attached).
- b) The Permittee shall assign dedicated observers for manatee observation during dredging activities.

7. Jacksonville District Programmatic Biological Opinion (JAXBO), November 2017, Project Design Criteria (PDCs): Work authorized under this permit must comply with all applicable PDCs, based on the permitted activity, as required by JAXBO. Please note that failure to comply with the applicable PDCs, where a take of listed species occurs, would constitute an unauthorized take, and noncompliance with this permit. The NMFS is the appropriate authority to enforce the terms and conditions of JAXBO. The most current version of JAXBO can be accessed at the Jacksonville

District Regulatory Division internet webpage in the Endangered Species section of the Sourcebook located at:

http://www.saj.usace.army.mil/Missions/Regulatory/SourceBook.aspx

Note - JAXBO may be subject to revision at any time. The most recent version of these conditions must be utilized during the design and construction of the permitted work. In accordance with the Endangered Species Act, and for those projects which do not comply with JAXBO, the Corps will seek individual consultation with the NMFS.

Note - some authorized activities may deviate from the PDCs. In cases where the activity (i.e., structure dimensions, length, etc.) deviates from the PDCs, the permit drawings shall supersede the PDCs.

For each of the following authorized activities subject of this permit, the permittee shall adhere to the following PDCs, which are attached to, and made part of, this authorization:

Activity 3 - Maintenance, Minor, and Muck Dredging: (AP.1-11; A3.1-4)

8. **Turbidity Barriers:** Prior to the initiation of any of the work authorized by this permit, the Permittee shall install floating turbidity barriers with weighted skirts that extend to within 1 foot of the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained until the authorized work has been completed and all suspended and erodible materials have been stabilized. Turbidity barriers shall be removed upon stabilization of the work area.

9. **Dredged material Disposal:** The Permittee shall place all dredged material in a self-contained, upland disposal site as detailed on the attached document entitled, "Dredge Material Treatment Area." The Permittee shall maintain the upland disposal site to prevent the discharge of dredged material and associated effluent into waters of the United States.

10. **Temporary Wetland Impacts:** Within 30 days from the date of completing the work authorized by this permit, the Permittee shall restore 1.2 acres of temporary wetland impacts as detailed on the attached "Dredge Material Treatment Area Restoration Plan" to pre-existing contours, elevations, vegetation, habitat type, and hydrology.

11. **Fill Material:** The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils

contaminated with any toxic substance, in toxic amounts in accordance with Section 307 of the Clean Water Act.

12. **Agency Changes/Approvals:** Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a modification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification of this permit from the Tampa Permits Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for modification of this permit.

13. **Posting of Permit:** The Permittee shall have available and maintain for review a copy of this permit and approved plans at the construction site.

This letter of authorization does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact me by telephone at 813-769-7067 or by e-mail at <u>Jessica.L.Cordwell@usace.army.mil</u>.

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to complete our automated Customer Service Survey at http://corpsmapu.usace.army.mil/cm apex/f?p=regulatory survey. Please be aware this Internet address is case sensitive and you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

Sincerely,

Jéssica Cordwell Project Manager

Enclosures: General Conditions Commencement Notification form Self-Certification form Project drawings Dredge Material Treatment Area Dredge Material Treatment Area Restoration Plan Manatee conditions JaxBO conditions Permit transfer form

Copy furnished: gserviss@vhb.com

GENERAL CONDITIONS 33 CFR PART 320-330

1. The time limit for completing the work authorized ends on March 18, 2022.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort of if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow a representative from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

COMMENCEMENT NOTIFICATION

Within ten (10) days of initiating the authorized work, submit this form via electronic mail to saj-rd-enforcement@usace.army.mil (preferred, not to exceed 15 MB) <u>or</u> by standard mail to U.S. Army Corps of Engineers, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.

- 1. Department of the Army Permit Number: SAJ-2019-01203(NWP-JLC)
- 2. Permittee Information:

	Name:	
	Email:	
	Address:	
	Phone:	
3.	Construction St	art Date:
4.	Contact to Sche	edule Inspection:
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4.	Contact to Sche Name: Email: Phone:	edule Inspection:

Signature of Permittee

Printed Name of Permittee

Date

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: SAJ-2019-01203(NW-JLC)

Permittee's Name & Address (ple	ase print or type):	
Telephone Number:		
Location of the Work:		
Date Work Started:	Date Work Completed:	
PROPERTY IS INACCESSIBLE TO SCHEDULE AN INSPECTIO AT	WITHOUT PRIOR NOTIFICATION: YES NO N PLEASE CONTACT	
Description of the Work (e.g. ban etc.):	k stabilization, residential or commercial filling, docks, dredg	ing,
Acreage or Square Feet of Impac	ts to Waters of the United States:	
Describe Mitigation completed (if	applicable):	
Describe any Deviations from Pe	rmit (attach drawing(s) depicting the deviations):	
I certify that all work, and mitigation conditions as described in the perattached drawing(s).	on (if applicable) was done in accordance with the limitations rmit. Any deviations as described above are depicted on the	 s and e

Signature of Permittee

Full Name of Permittee (printed or typed)

Date

Site	Plans
Issued for	60% Plans
Date Issued	June 28, 2019
Latest Issue	August 2, 2019

Weeki Wachee River Restoration

Shoal Line Blvd. - E. Richard Dr. Weeki Wachee, Florida

Owner & Applicant

Southwest Florida Water Management District 2379 Broad Street Brooksville, Florida 34604-6899

Project Manager

Janie Hagberg, PE - Chief Professional Engineer





Sheet Ind	ex	
No.	Drawing Tit l e	Latest Issue
C1.01 - C1.02	General Notes	August 2, 2019
C2.00	Overall Plan	August 2, 2019
C2.01 - C2.05	Aerial Plans	August 2, 2019
C2.06 - C2.08	Layout Plans	August 2, 2019
C3.01 - C3.10	Plan and Profile	August 2, 2019
C4.01 - C4.05	Cross Sections	August 2, 2019
C5.01	Dredge Material Treatment Disposal Area	August 2, 2019
C6.01 - C6.02	SWPPP & Erosion Control Details	August 2, 2019







Paul W. Yeargain, P.E. Fjorida License No. 50682

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Notes

General Construction

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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES. SPECIFICATIONS AND REQUIREMENTS.
- 3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE EXISTING AWAY THE INFORMATION AVAILABLE TO THE AVAILABLE A
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE WARDUS UTILITY COMPANES WHICH MY HAVE BURED OR ABBIN. UTILITIES MYTHIN ON RUP THE CONSTRUCTION AGEA SEP CINE COMMERCIANS WHICH THE CONTRACTOR SHALL INFOLDE & WHICH THE CONTRACTOR WHIT TO LISE PROCEOMMERCIANS OWNER, THE CONTRACTOR CONSE SHEET OF HINESE CONSTRUCTION PARSE THE LIST EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHIT TO LIST EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHIT TO DRIFT EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHIT TO DRIFT EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHIT TO DRIFT EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHIT TO DRIFT EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHICH TO DRIFT EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHICH TO DRIFT EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHICH TO DRIFT EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR WHICH TO DRIFT EXPRESS AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR AND THE DRIFT AS A GUEE ONLY AND IS NOT INTERDED TO LIMIT THE OUTIL TO THE OWNER TO DRIFT TO DRIFT TO DRIFT ON THE OWNER TO DRIFT TO DRIFT ON THE OWNER TO DRIFT TO DRIFT ON THE OWNER TO DRIFT TO DRIFT OWNER WHICH TO DRIFT TO DRIFT TO DRIFT OWNER WHICH TO DRIFT TO DRIFT.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- 6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BBFORG COMMENCING WORK, NO FIELD CHANGES OR DEVATIONS FROM DESIGN ARE TO BE MADE WITHOUT FRIOR APPROVAL OF THE OWNER ADM INSTITUCTION TO THE ENSINGER.
- 8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
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- 10. THE CONTINUCTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MINITARING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION INFORMEDSESS OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INFERVALS AND SHALL BE RESPONSIBLE FOR PROMICING AS AND TO REMAIN THE COMPLETION OF APPROPRIATE CONSTRUCTION INFERVALS AND SHALL BE RESPONSIBLE FOR PROMICING AS AND TO REMAIN THE ADVANCE OF CONTINUCTION IN TERVALS AND SHALL AND SUPPORT WHICH ADVANCES AND AS A REQUIRED. ALL AS A SULT TO ATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LUND SUPPORT WHICH SERVICES ARE REMAINED AT HE REMAIN THE ADVANCES OF CONTINUES OF CONTINUES AND ADVANCES AND SUPPORT WHICH SERVICES AND REMAINED AT HE REMAIN THE ADVANCES OF CONTINUES OF CO
- 11. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISICITIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MY WELL ABANDONMENT FERMITS RECIPEND.
- 12. MAY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY NORWIE EXISTING OR OTHER PROPOSED IMPROVEMENTS, IF ANY CONFLICTS ARE DISCOVERED. THE CONTRACTOR SHULL NOTIFY THE OWNER PRORID TO COMPLEX THEOR OF ANY PORTION OF THE STEW ORT THAT YOULD BE AFFECTED. FAULTE TO NOTIFY OWNER OF AN LIBERTIFIABLE CONFLICT PRORIT OF DROTE CONFLICT THAT YOULD BE AFFECTED. FAULTE TO NOTIFY OWNER OF AN LIBERTIFIABLE CONFLICT PRORIT OF DROTE CONFLICT THAT YOULD BE AFFECTED. FAULTE TO NOTIFY OWNER OF AN LIBERTIFIABLE CONFLICT PRORIT OF DROTE THEORET THE CONFLICT PROVIDENT OF THE CONFLICT THAT YOULD BE AFFECTED. FAULTE TO NOTIFY OWNER OF AN LIBERTIFIABLE CONFLICT PRORIT OF DROTE CONFLICT THAT YOULD BE AFFECTED. FAULTE TO NOTIFY OWNER OF AN LIBERTIFIABLE CONFLICT PRORIT OF THE OTHER OF THE CONFLICT PROVIDENT OF THE OWNER OF ANY CONFLICTION RELEVES OWNER OF ANY CONFLICT OF AN LIBERTIFICATION OF DROTE OF THE STEWART FOR THE CONFLICT PROVIDENT OF THE CONFLICT PROVIDENT OF THE CONFLICT PROVIDENT OF THE OWNER OF ANY CONFLICTION RELEVES OWNER OF ANY CONFLICTION RELEVANCE OF THE CONFLICT PROVIDENT OF THE OWNER OF ANY CONFLICTION RELEVANCE ON THE OWNER OF ANY CONFLICTION RELEVANCE ON THE OWNER OF ANY CONFLICTION RELEVANCE ON THE OWNER OF ANY CONFLICTION RELEVANCE OWNER O
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- 16. IN THE EVENT THAT THE CONSTRUCTION SITE IS ABANDONED PRIOR TO THE PROJECT COMPLETION, ALL CONSTRUCTION AND VEGETATIVE DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED LANDFILL FACILITY.
- 17. THE BITE CONSTRUCTION BTAKEDUT SHALL BE PERFORMED UNDER THE BRECTION OF A FLORIDA REGISTERED SURVEYOR, AUTOCO/ FLES MILL BE LUNGHIGED TO AUD IN THE BITE CONSTRUCTION STARECUT. ANY TROMBNED FOR DESTINGET ME PERFORMENT STARESULT.

18. FLUSH TRUCK BODIES AND TAIL GATES FOLLOWING DISPOSAL OF DREDGE MATERIAL AT DECANT AREA.

19. THE BARGE SHALL BE SURROUNDED WITH TURBIDITY CURTAIN AS SHOWN ON PLANS DURING DREDGING OPERATIONS.

20. NO CONSOLIDATED ROCK SUBSTRATE WILL BE DREDGED.

- 21. DREDGING ACTIVITY WILL OBSERVE A 10' BUFFER FROM ALL DOCKS. SEAWALLS, STRUCTURES AND SHORELINES,
- 22. DREEDING ACTIVITY WILL BE CONDUCTED IN DESIGNATED AREAS ONLY AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

SPECIFICATIONS.

23, ELEVATIONS SHOWN ON THE PLANS HAVE BEEN ADJUSTED TO THE MEAN LOW WATER (MLW) LEVEL AS DETERMINED BY THE NOTICE OF TIDAL WATER SURVEY FILING (NO. 7122), REFER TO SURVEY NOTES ON SHEET C1.02.

Paving, Grading and Drainage

- 1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN THE PROJECT LIMITS SHALL BE IN ACCORDANCE WITH FOOT SPECIFICATIONS AND STANDARDS (LATEST EXITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
- 2. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STARLIZATION OCCURS.
- 3. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED, IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
- FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUEREMENTS ARE NOT IN AGREEMENT, THE MOST STRYMOSHT SHALL GOVERN.
- 6. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS
- ALL OUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER FOR SITE WORK UNLESS OTHERWISE SHOWN. REFER TO PLANS FOR DREDGE CUT SLOPES.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND CIRT RISING AND SCATTERING IN THE AR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINGLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- e, THE CONTRACTOR SHALL TAKE ALL RECURREN MARANERS TO CONTROL, THREATENT MELLIDERO AUTO TO LUNTED TO THE MERLATALDIA OF THREATEN MARETERS AT ALL ALCONTROL WHERE THE ALL DOBESTICT TO TRANSFERRING SUSSENDED SAUDIS INTO THE RECEIPMENT MARK THREATEND ALL TO THE REPORTED TO TRANSFERRING SUSSENDED SAUDIS INTO THE RECEIPMENT MARK THREATEND ALL TO THE REPORT TO THREATENDESS WHE TE MAR THREATEND REFERRING CONTROL AT ALL LOCATION WHEN THE THREATENDESS WHE TE MAR THREATEND REFERRING CONTROL AT ALL LOCATION THREATEN THE BARGERS AT NO THE SAULI THREE ER ANY OFFICE DECONFIDENCE WHEN POLATES THE WATER OLIVITY TRANSFERS OFFICIENT TAKES. TO ROMA MANISTRATING CODE
- SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDURENTION OR TIMEIN DISCHARGER
- 11. THE CONTRACTOR MUST REMEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL COMDITIONS, ATTACHMENTS, EXHIBITS AND REMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE, THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY REQUALTORY REPRESENTATIVES.

Maintenance

- 1. INLET PROTECTION DEMCES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED, AREAS SHOULD BE WATERED AND RESEEDED AS NEEDED, FOR MAINTENANCE REGUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.
- SILT FENCES SHALL BE REPARED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
- THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- 5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- 6. OUT EF STRUCTURES IN THE SEQUENTIATION ADDRES SHALL BE MANTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES SEQUENTIATIONAL DE REMOVED FOR USE STRUKET MASINES OF TRADE WHEN THE DESIGN CANACUT HAS BEEN REDUCED BY 55 CUBIC VARIOS / ACRE (THIS DOES NOT APRAY TO THE DREDGE MATERIAL TREATMENT AREA.
- 7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

Erosion Contro

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION CONTROL PLAN. THE STANDARD DETALS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

- 2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAY AND THE STATE OF FLORIDA NATIONAL POLLUTION TORCHARGE ELIMINATION SYSTEM GENERAL PERMIT (INOES) PERMIT, NO BECOME FMALLEN WITH THER CONTENTS.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASE OF CONSTRUCTION.
- 4. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, 88 APPLICABLE, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
- 5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- 6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- 7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MANTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, CFFICE TRALERS, AND TOLENT FACILITIES.
- 8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OLS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- 11, RUBSISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS, MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER LISCHARGE INTO DRAINAGE DICHES OR WATERS OF THE STATE.
- 12. STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED PRIOR TO COMMENCING WORK.
- 13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
- 14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS, REFER TO SECTION SHO FTH E STANDARD SPECIFICATIONS FOR SEEDION AND NAMI TENNARE REQUIREMENTS.
- 15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVE, CONSTRUCTION ENTRANCES (B) NOT SUFFICIENT TO REMOVE THE MAJORITY OF DOTE OF MUID. THEN THE TRESS WISE EVANETIOE SERVER THE VEHICLES ENTER A RULE (TO ADD, IF WASHING) TO USED, PROVISIONS MUST BE MADE TO INTERCEPT THE VARABLE MATTER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE STE.
- 16. ALL MATERIALS SPILED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SCON AS POSSIBLE.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN A STORMWATER POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- 18, ON-SITE AND OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES, STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL (PLAN AND PERMITED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- 19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- 20. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
- 21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

Demolition

- 1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER
- THE CONTRACTOR SHALL NOT REMOVE ANY STRUCTURES, DOCKS, SEAWALLS WITHIN THE PROJECT LIMITS, UNLESS SHOWN ON THE PLANS, IF THE PANS ARE UNCERAR REGARDING REMOVAL ON DBMOULTION, THEN TI IS CONTRACTORS RESPONSIBILITY TO IMMEDIATELY COORDINATE WITH THE OWNER AND ENGINEER FOR CLARIFICATION PROISE TO SEMINING THESE ACTIVITIES.
- THE CONTRACTOR SHALL REFER TO THE PLANS FOR GENERAL AREA DEMOLITION OF EXISTING TREES. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEEP PRIOR TO ANY REMOVAL ACTIVITIES. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

4. A PRE-CONSTRUCTION TREE REMOVAL MEETING WITH THE OWNER AND ENGINEER SHALL BE HELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO DETERMINE THE LIMITS OF TREE REMOVAL IN THE GENERAL REMOVAL AREAS SHOWN ON THE PLANS

5. TREE REMOVAL AND PROTECTION PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION, CLEARING OR TREE REMOVAL

Geotechnica

1. A GEOTECHNICAL REPORT TITLED "SEDIMENT AND SAMPLES FROM WEEKI WACHEE RIVER AND ADJACENT CANALS" WAS PERFORMED BY ARDAMAN & ASSOCIATES, INC, DATED JANUARY 11, 2019, THE REPORT IS PROVIDED FOR DOWNLOAD, SEE RFB TABLE OF CONTENTS.

C1.01

June 28, 2019

Weeki Wachee River Shoal Line Blvd. to E. Richard Dr.

Weeki Wachee, Florida

Not Approved for Construction

General Notes

60% Plans



vhb

501 E Kennedy Boulevard Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932

Dredge Material Summary Table

324,000+

26.200±

Area (SF) Volume (CY)

Notes

Dredge Construction

- 1. ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 2. ALL WORK WILL BE COMPLETED WITHIN DESIGNATED DREDGE AREAS AND TO DESIGNATED DREDGE DEPTHS.
- CHANGES TO THE CHANNEL SECTIONS AND SUBMERGED AQUATIC VEGETATION (SAV) HAVE LIKELY OCCURRED FROM THE TIME OF THE ORIGINAL SURVEY PERFORMED IN 2016 AND 2015. THE CONTRACTOR SHALL COORDINATE MITH OWNER AND ENGINEER, PRIOR TO CONSTRUCTION, IF THERE ARE SECTIONS WHAT ARE SUBSTANTIALLY DIFFERINT FROM THE FLANS.
- ALL DREDGE ACTIMITY WILL BE CONDUCTED DURING DAYLIGHT HOURS FROM ONE HALF-HOUR AFTER SUN RISE TO ONE HALF-H OUR BEFORE SUNSET MONDAY THROUGH SATURDAY, NO DREDGE ACTIVITY MILL BE ALLOWED ON SUNDAY.
- 5. THE CONTRACTOR SHALL STRICTLY ADHERE TO ALL MANATEE REGULATIONS AND CONSTRUCTION CONDITIONS 6 THE CONTRACTOR WILL OBSERVE A TEN (10) FOOT BUFFER AROUND ALL DOCKS. SEAWALLS AND STRUCTURES
- 7. AREAS OUTSIDE DREDGE LIMITS WHERE NATURAL RESOURCES (SUBMERGED AQUATIC VEGETATION, OYSTERS, ETC.) ARE PRESENT, ARE TO BE PROTECTED WITH TURBIDITY BARRIERS WHEN DREDGING ADJACENT AREAS.
- TURBEDTY CONTROL MEASUREMENT OFFICIENT IS OWNED WEND REEDEND ADJACEDTY TAREAS
 TORIDITY CONTROL MEASUREMENT IS OWNED ADJACED TO MEASUREMENT FEDERAL AND STATE WATER OUALITY
 STALAMONDS, IF TURBELTY LEVEL E RECEED WATER OUALITY STANDARDS, DREDGING ACTIVITY MILL CEASE LATL, LEVELS RETURN
 TO THE ACCEPTABLE PANCE.
- 9. IF TURBIDITY VIOLATIONS OCCUR AT THE DISCHARGE/RETURN WATER LOCATION OF THE DISPOSAL SITE, THE CONTRACTOR SHALL BE PREPARED TO UTILIZE POLYMERS TO REDUCE TURBIDITY TO AN ACCEPTABLE LEVEL.
- 10. THE CONTRACTOR WILL OPERATE IN A MANNER THAT WILL CAUSE THE LEAST IMPACT TO WATERWAY NAVIGATION AND ACCOMMODATE LOCAL TRAFFIC WITHIN REASON. HALF OF THE CHANNEL WIDTH SINLL REMAIN NAVIGABLE AT ALL TIMES AND SHALL NOT BE IMPEDED BY THE CONTRACTORS EQUIPMENT, APPRITEMENCES OR VISSELS.
- 11. DREDGE BARGES, PIPELINES, CABLES, BUOYS, ETC. WILL BE REMOVED FROM THE CHANNEL AT THE COMPLETION OF EACH DAY'S WORK OR HAVE WORKING MARKING /ANCHOR LIGHTS TO WARN VESSELS OF THEIR LOCATION.
- 12. DAMAGE TO ANY PROPERTY, UTILITIES, STRUCTURES OR NATURAL RESOURCES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR'S EXPENSE.
- 13. CISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACT/MTY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN TOXYS AFTER THE UAST CONSTRUCTION ACT/MTY OCCURRED IN THESE AREAS. REFERE TO SECTION 490 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND AMULTENANCE REPORTS.

Standard Manatee Construction Conditions

- 1. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING MANATEE PROTECTION CONSTRUCTION CONDITIONS. THE CONTRACTOR SHALL INSTRUCT ALL PERSONNEL ASSOCIATED WITH THE PROJECT OF THE POTENTIAL PRESENCE OF MANATEES AND THE NEED TO AVOID COLLIGIONS WITH MANATEES, ALL CONSTRUCTION PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATEFRERLATED CONTINES FOR THE PRESENCE OF MANATERS).
- 3. THE CONTRACTOR BALL ACMEE ALL CONTRUCTION PERSONNEL THAT THERE ARE CHI, AND COMMAN PENALTIER FOR MANNING HARANGEM, OR HULLING MONTERS WHICH HAR PROTECTION LINES THE MARINE MANNEL BEPOTECTION ACTOR 1972. THE BIOANGERED BEPCERS ACTOR 1973, AND THE LORDA MANATE SANCTUARY ACT. THE CONTRACTOR MAY BE HELD RESPONSIBLE COM ANY MANTER HARANGE MARKED AND ALLEAD SA RESULT OF CONTRUCTOR TAND BE HELD RESPONSIBLE COM ANY MANTER HARANGE MARKED AND ALLEAD SA RESULT OF CONTRUCTOR TAND ACTIVITIES.
- 4. SILTATION BARRIERS SHALL BE INSTALLED AND SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED SHALL BE PROPERLY SECURED, AND SHALL BE REGULARLY MONTORED TO AVOID MANATEE ENTRADMENT. BARRIERS SHALL NOT BLOCK MAWATEE ENTRY TO GREAT FROM ESSENTIAL HABITAT.
- 5. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT NO WAKEJOLE SPEEDS AT ALL TIMES WHILE IN THE CONSTRUCTION AREA AND WHILE IN WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR-FOOT CLEARANCE FROM THE BOTTOMALL VESSELS AND LE JOLUCIA VOLUCES OF DEEP WATER WHENEVER POSSIBLE.
- 6. IF MUNATERIS ARE SEEN MITHIN 100 YARDS OF THE ACTIVE DALY CONSTRUCTION/OREDGING OPERATION OR VESSEL MOVEMENT ALL APPOPRIATE PRECATIONS BUALLE BEINFLEWITED TO BURNER PROTECTION OF THE MUNATE. THESE PRECATIONS HALL INCLUE THE OPERATION OF ALL MOVINE DEGIMENT TO COLORENT HAN DIRECT FOR AMARTEE. DEPERATION OF ANY ECOL/PRINT CLOSER THAN 30 FEET TO A MUNATE EMMENT. DO LOCERS THAN 30 FEAT DO AMARTEE. DEPERATION OF ANY ECOL/PRINT CLOSER THAN 30 FEET TO A MUNATE EMMENT. PROLEMENT ACTIVITIES MULL NOT RESULVE UNIT, THE MANATERIES MAS OF EAST TO THE PROLEMENT ACTIVITIES MULL NOT RESULVE UNIT, THE MANATERIES MAS OF PROLEMENT ACTIVITIES OF MUNUCITION.

ANY COLLISION WITH AND/OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE MANATEE HOTLINE AT 1-885-904-WICC, COLLISION AND OR/NULRY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSOMMULE (1-904-932-950 FOR NORTH FLORIDA OF VERO BEACH (1-773-963-939) IN SOUTH FLORIDA.

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THE PROJECT IS LOCATED WITHIN A DESIGNATED IMPORTANT MANATEE AREA. AS SUCH, THE CONTRACTOR WILL NEED TO EMPLOY
A DESIGNATED MANATEE OBSERVER DURING ALL IN-WATER WORK.

Survey Notes

1. THIS IS A TOPOGRAPHIC SURVEY AS DEFINED WITHIN FLORIDA'S ADMINISTRATIVE CODE. CHAPTER 5J-17.050.

2. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER LISTED BELOW. 3. NO UNDERGROUND UTILITIES, OR FOUNDATIONS HAVE BEEN LOCATED, EXCEPT FOR THE VISIBLE EDGE OF SEA WALL FOOTINGS.

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6. In CONUNCIDEN WITH THE TOPOGRAPHIC SURVEY A MEAN HIGH WATTRELINE STUDY WAS PERFORMED AND WAS APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL INFORCEDIAN (NOTICE OF TIDAL WATTRE SURVEY WILL NO. 7.22). THE SURVEY WAS ESTABLISHED UTLIZING THE ANALYTICE NET METHOD. UTLIZING THE THE CONTINUES STEDIN AZZ-2013. NO E SNROT ON THE SUBJECT METHOD TABLE AND HER AND THE AND HIGH WATTRE STUDY RESULTION AS A PUBLISHED MEAN (OW WATTRE LEVATION OF 3.58, EVALUATION SAFET METHOD. THE ROOT MANNER WATTRE SURVEY OF 98 MANN ARE MEAN (OW WATTRE LEVATION OF 3.58, EVALUATION SAFET METHOD. THE ROOT METHOD. WATTRE SURVEY OF 99 MANN ARE MEAN (OW WATTRE LEVATION OF 3.59, EVALUATION SAFET METHOD. THE ROOT MANNER WATTRE SURVEY OF 198 MANNER.

7. THE MEAN HIGH WATER LINE SURVEY WAS PERFORMED BETWEEN AUGUST 27-29 OF 2018

Weeki Wachee River Shoal Line Blvd. to E. Richard Dr.

Weeki Wachee, Florida

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1	SPWMD Comments	06/02/19	GMS
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60	% Plans	June 28	3, 2019

Not Approved for Construction General Notes

C1.02



Suite 1010

Tampa, FL 33602

Certificate of Authorization Number FL #3932

813.327.5450





Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932

Weeki Wachee River Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

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501 E Kennedy Boulevard SUT E Rennedy Boulevard Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932

vhb.com

Weeki Wachee River Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

June 28, 2019

C2.02











Weeki Wachee River Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

No.	Revision	Quis	Appro
1	SPWMD Comments	06/02/19	GMS
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hyped	for	Date	
60	% Plans	June 28,	2019



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4 073*	620	50.00*	64.38	S14'21'34'E	60.02	1527374.59	454193.38	1527316.44	454208.26	C20	060°01'16*	45.00	47.14	N41'41'52'E	45.01	1526345.64	456580.38	1526379.25	456610.32	C41	054°52'15'	100.007	95.77	\$35°42'02"E	92.15	1525515.24	458890.76	1525440.41	458944.53
9			304.40	SS1*14*44*E		1527316.44	454208.26	1527125.89	454445.64	L19			87.83	N71*42'30'E		1526379.25	456610.32	1526406.82	456693.71	L64			71.77*	\$63*08*09*E		1525440.41	458944.53	1525407.98	459008.55
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3			63.69	\$46*09*55*E		1526767.86	454852.72	1526723.75	454898.66	C66	039°17*51*	80.00	54.87	N531421421E	53.80*	1526466.25	456752.75	1526498.10	456796.11	C62	029°40'24"	100.00	51.79	N68°54'21'E	51.21	1525406.88	459091.33	1525427.31	459139.11
3 004*	9.55*	500.00*	36.35	\$44*04*57*E	36.34	1526723.75	454898.66	1526697.65	454923.94	C67	066"04"57"	167.00*	192.61	\$73°35'54''E	182.11	1526502.31	456810.21	1526450.89	456984.91	163			37.27	NS4*04*09*E		1525427.31	459139.11	1525449.18	459169.29
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2 023*	M58*	300.00*	122.61	\$\$3*42*29*E	121.75*	1526629.20	454985.58	1526557.13	455083.71	C23	054°28'31*	40.00*	45.01	\$72°47'41'E	42.67	1526448.15	456987.25	1526435.53	457028.02	1.45			44.38	\$84"13"45"E		1525502.89	459368.63	1525498.43	459412.78
5			181.73	\$65°24'58'E		1526557.13	455083.71	1526481.52	455248.97	1.24			24.83	N74*58*04*E		1526435.53	457028.02	1526441.97	457052.00	C64	026°5915*	100.00*	46.99	\$70°46*07*E	46.55	1525498.43	459412.78	1525483.10	459456.74
1 047*	191491	100.00*	83.48*	\$41"30"03"E	81.08*	1526481.52	455248.97	1526420.80	455302.70	C24	056"59'04"	70.00*	69.62	N46"28"32"E	66.79°	1526441.97	457052.00	1526487.96	457100.42	L46			64.94*	\$\$7"18"30'E		1525483.10	459456.74	1525448.02	459511.39
5			50.86*	S17*35*06*E		1526420.80	455302.70	1526372.32	455318.06	1.25			11.96*	N17*59*00*E		1526487.96	457100.42	1526499.33	457104.11	C45	027"53"16"	40.00*	19.47	\$43°21'52'E	19.28	1525448.02	459511.39	1525434.01	459524.63
5 012*	0'38"	500.00*	104.81	\$23"35 " 28"E	104.62	1526372.32	455318.06	1526276.44	455359.93	C25	027*52*57*	50.00*	24.33*	N04*02*32*E	24.09*	1526499.33	457104.11	1526523.36	45710581	L47			33.76*	529°25*14*E		1525434.01	459524.63	1525404.60	459541.21
,			4.13	529°35'47''E		1526276.44	455359.93	1526272.85	455361.97	126			86.24	N09"53"57"W		1526523.36	457105.81	1526608.32	457090.98	C46	027'00'28'	140.00*	65.99	542°55'28'E	65.38	1525404.60	459541.21	1525356.72	459585.74
6 060*	2"13"	80.00*	83.83*	\$59*36*53*E	80.04*	1526272.85	455361.97	1526232.36	455431.02	C26	107"27"36"	55.00*	103.15	N43*49*51*E	88.69*	1526608.32	457090.98	1526672.30	457152.40	L45			44.58	\$\$6"2\$"42"E		1525356.72	459585.74	1525332.07	459622.89
3			114.84	3*00*E		1526232.36	455431.02	1526231.62	455545.86	1,29			61.61	\$82°26*21*E		1526672.30	457152.40	1526664.19	457213.47	C47	048°50°16*	60.00*	51.14	\$80°50'50'E	49.61	1525332.07	459622.89	1525324.18	459671.86
7 009*	5.35.	200.00*	34.47	S841411441E	34.43*	1526231.62	455545.86	1526228.44	455580.14	C27	030°09′06*	50.00*	26.31	\$67°21'48*E	26.01	1526664.19	457213.47	1526654.18	457237.48	L49			84.69	N74°44102°E		1525324.18	459671.86	1525346.48	459753.56
9			93.10*	\$79*45*28*E		1526228.44	455580.14	1526211.89	455671.75	L30			32.44*	\$52°17'15'E		1526654.18	457237.48	1526634.34	457263.14	C48	046*59/25*	200.00	164.03	581°49'16'E	159.47	1525346.48	459753.56	1525323.65	459911.39
B 022*	1041 *	200.00*	77.42	S68*40*06*E	76.93*	1526211.89	455671.75	1526183.90	455743.42	C28	051"08"48"	145.00*	154.75	\$82"51 ' 39"E	147.51	1526634.34	457263.14	1526616.01	457409.50	150			82.45	SS8*16*33*E		1525323.65	459911.39	1525280.30	459981.52
0			94.38	S57*34*47*E		1526183.90	455743.42	1526133.30	455823.09	L31			53.77	N66*33*57*E		1526616.01	457409.50	1526637.39	457458.84	C49	044'08'58'	150.00	115.58*	280°21'02"E	112.74*	1525280.30	459981.52	1525261.40	460092.67
9 003*	12'45"	400.00	25.92	S55*43*24*E	25.91	1526133.30	455823.09	1526118.71	455844.50	C29	074°41'31"	115.00	149.92	\$76°05'18*E	139.52	1526637.39	457458.84	1526603.85	457594.27	L51			29.56	N77°34'29"E		1525261.40	460092.67	1525267.76	460121.54
1			20.75	\$\$3*\$2*02*E		1526118.71	455844.50	1526106.47	455861.26	L32			30.66	\$35°44'32'E		1526603.85	457594.27	1526579.93	457613.46	C51	018"02"51"	\$0.00°	25.20*	N68*33*03*E	25.10*	1525267.76	460121.54	1525276.94	460144.89
0 072*	4521	80.00*	101.81	N89'40'32'E	95.08*	1526106.47	455861.26	1526107.01	455956.33	C30	055"39"18"	110.00*	126.05	\$71"34"11"E	119.26	1526579.93	457613.46	1526542.23	457726.60	152			61.43*	N59"31"38"E		1525276.94	460144.89	1525308.09	460197.84
0			13.07*	N53°13'07"E		1526107.01	455956.33	1526114.84	455966.80	L33			55.26*	N75*36*10*E		1526542.23	457726.60	1526555.97	457780.13	C50	028°13'12'	180.00	88.66*	N73*38*13*E	87.76*	1525308.09	460197.84	1525332.82	460282.04
1 021*	13'57 *	50.00	18.82	N42°26'08'E	18.71	1526114.84	455966.80	1526128.65	455979.42	G1	027*53*57*	150.00	73.04	N89*33'06'E	72.32	1526555.97	457780.13	1526556.53	457852.45	153			82.81	N87°44'49"E		1525332.82	460282.04	1525336.07	460364.79
6			40.36*	N31"39'09"E		1526128.65	455979.42	1526163.00	456000.60	L34			36.74*	\$76"29'53"E		1526556.53	457852.45	1526547.96	457888.17	C52	075"09'25"	40.00*	52.47	N50°10'07"E	48.79*	1525336.07	460364.79	1525367.32	460402.25
i3 005*	021*	500.00*	48.05	N34*24*20*E	48.03*	1526163.00	456000.60	1526202.63	456027.74	C32	004*44*07*	500.007	41.32	\$78"\$1 * 57*E	41.31	1526547.96	457888.17	1526539.98	457928.70	164			29.83	N12*35*24*E		1525367.32	460402.25	1525396.43	460408.75
7			55.14*	N37109'30'E		1526202.63	456027.74	1526246.57	456061.05	135			222.82*	581°14'01°E		1526539.98	457928.70	1526506.02	458148.93	C53	074°11'18"	90.00*	116.53*	N49*41*03*E	108.56*	1525396.43	460408.75	1525466.67	460491.53
0 031*	13.06*	50.00*	27.68	N21°1758°E	27.33*	1526246.57	456061.05	1526272.03	456070.97	C33	059°20°14°	100.007	103.56*	SS1°33*54*E	99.00*	1526506.02	458148.93	1526444.48	458226.47	154			94.28	N86*46*42*E		1525466.67	460491.53	1525471.97	460585.66
3			54.95*	N05"26*25"E		1526272.03	456070.97	1526326.74	456076.18	L36			18.71	S21*S3*47*E		1526444.48	458226.47	1526427.12	458233.45	€54	011"54"59"	500.00*	103.99	587°15'48'E	103.80	1525471.97	460585.66	1525467.02	460689.35
13 065*	903*	60.00*	90.04	N48*25'56*E	81.83*	1526326.74	456076.18	1526381.03	456137.40	C34	02911232	100.00*	50.98*	\$07°17'31'E	50.43*	1526427.12	458233.45	1526377.10	458239.85	155			3.91*	S81"18"19"E		1525467.02	460689.35	1525466.42	460693.21
4			157.29	\$88"34'32"E		1526381.03	456137.40	1526377.12	456294.65	137			35.21	507°18'45'W		1526377.10	458239.85	1526342.18	458235.37	C55	032.00.43.	180.00	100.57*	N82*41'20"E	99.27 *	1525466.42	460693.21	1525479.06	460791.67
4 058*	80*51*	65.00*	66.19*	559°24'07 °E	63.37*	1526377.12	456294.65	1526344.87	456349.19	C35	066*16*38*	120.00	135.81	\$25*49*34*E	131.20	1526342.18	458235.37	1526224.09	458292.52	165			98.49*	N66*40*59*E		1525479.06	460791.67	1525518.04	460882.12
5			54.09*	\$30°13'41 'E		1526344.87	456349.19	1526298.13	456376.42	L3B			120.21	SS8"57"53"E		1526224.09	458292.52	1526162.11	458395.53	C56	071"20'00"	50.00*	62.25*	N31°00'59'E	58.31*	1525518.04	460682.12	1525568.01	460912.16
15 020'	9.09	150.00*	54.94*	S40'43'16'E	54.63*	1526298.13	456376.42	1526256.72	456412.07	C36	015°57*12*	500.00	55.69	\$50°59'17*E	55.51	1526162.11	458395.53	1526127.17	458438.66	157			31.48	N04°39'01'W		1525568.01	460912.16	1525599.39	460909.61
6			3.18	551°12*50°E		1526256.72	456412.07	1526254.73	456414.54	139			91.55	\$43°0042*E		1526127.17	458438.66	1526060.22	458501.11	C57	020°30'51*	50.00	17.90	N14°54'27'W	17.81	1525599.39	460909.61	1525616.60	460905.03
6 036*	5.54"	70.00	44.31	569*2047*E	43.57	1526254.73	456414.54	1526239.36	456455.31	C37	010*17*47*	\$0.00*	14.35	\$37°51'48'E	14.36*	1526060.22	458501.11	1526048.89	458509.92	158			66.70*	N25'09'52'W		1525616.60	460905.03	1525676.97	460876.66
7			29.82	S87*28*44*E		1526239.36	456455.31	1526238.05	456485.11	1.40			67.89	\$32%2*55*E		1526048.89	458509.92	1525991.77	458546.62	C58	126"52*57*	45.00*	99.65*	N38*16'36"E	80.50*	1525676.97	460876.66	1525740.17	460926.53
7 041	M30.	40.00	28.68	N71°59'01"E	28.07	1526238.05	456485.11	1526246.73	456511.80	C38	006°16'38*	80.00*	7.37	\$35°21*14*E	7.37	1525991.77	458546.62	1525985.76	458550.88	L70			55.51	\$78°16'55'E		1525740.17	460926.53	1525728.89	460980.88
8			20.82	N51°26'46"E		1526246.73	456511.80	1526259.71	456528.08	L41			120.82	\$37°59'33*E		1525985.76	458550,88	1525890.54	458625.25										
8 021*	16.11.	120.00*	44.55	N40*48*40*E	44.29	1526259.71	456528.08	1526293.23	456557.03	C39	013*14*36*	1000.00*	231.14	\$44"36"\$1"E	230.63*	1525890.54	458625.25	1525726.37	455787.22										
2			22.35	N30° 10'35"E		1526293.23	456557.03	1526312.55	456568.26	1.42			66.43*	\$51°14'09"E		1525726.37	458787.22	1525684.78	458839.02										
9 018	9.21.	100.00*	32.27	N20°55'54"E	32.13	1526312.55	456568.26	1526342.56	456579.74	C40	042°58°14°	100.00	75.00*	\$29°45'02"E	73.25	1525684.78	458839.02	1525621.18	458875.37										

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June 28, 2019

Weeki Wachee River Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

60% Plans

Not Approved for Construction Layout Plan





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Certificate of Authorization Number FL #3932



Weeki Wachee River Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

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- EXISTING GROUND (TYP)

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Station Weeki Wachee River

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Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932



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Weeki Wachee River Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

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Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932



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Weeki Wachee River Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

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Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932



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Weeki Wachee River Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida





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Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932





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501 E Kennedy Boulevard Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932



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Dredge Material Treatment Area

Weeki Wachee River Restoration Project

PREPARED FOR

Southwest Florida Water Management District 2379 Broad Street Brooksville, Florida 34604 813-968-7481

INTRODUCTION

The purpose of this document is to provide details of the proposed Dredge Material Treatment Area (DMTA) for the Weeki Wachee River Restoration Project. The purpose of the DMTA is to provide a facility where the sediment hydraulically dredged from the river can be efficiently separated from the sediment/water mixture and temporarily stored. River water from the dredged material will be decanted and treated prior to its return to the system. Dewatered sediment will be transported to an acceptable location off site.

The plans (attached Sheets C2.00 and C5.01) and details are provided as a viable option for the DMTA system. The contractor may propose an alternative DMTA that is subject to approval by the Southwest Florida Water Management District (District) and permitting agencies. An alternate DMTA design must be signed and sealed by a Florida Licensed Professional Engineer. The contractor will be responsible for ensuring system performance to meet project specifications and permit requirements while maintaining erosion control, water quality, and public safety.

CONTRACTOR SUBMITTALS

The contractor will be required to prepare and obtain District approval of the following submittals:

- 1. Maintenance of Traffic Plan
- 2. Haul Route Plan
- 3. Construction Schedule
- 4. Erosion Control Plan
- 5. Site Ingress/Egress Access Design (Soil Tracking Prevention)
- 6. DMTA Plan
- 7. Dredge Pipeline Plan
- 8. Site Restoration Plan

CONSTRUCTION SEQUENCING

The proposed sequence of DMTA construction is as follows:

- 1. Establish proper erosion control measures
- 2. Clearing and grubbing
- 3. Construct the DMTA
- 4. Install and test dredge slurry and return water pipes
- 5. Conduct river sediment removal. Excavate and remove sediment from DMTA to maintain capacity and transport sediment to offsite location(s)
- 6. Maintain return water treatment and conveyance
- 7. Complete dredging
- 8. Disassemble dredge slurry and return water pipes
- 9. Remove DMTA berms and regrade/restore site
- 10. Stabilize DMTA site with vegetation or other measures
- 11. Remove erosion control measures following site stabilization

EROSION CONTROL DEVICES

The contractor will implement the erosion control measures outlined in the construction plans and permits, and the contractor will maintain those measures necessary to prevent, control, and abate erosion of the ground surface. The contractor will propose and seek approval of additional erosion control measures to address all sources of erosion that may occur depending on site conditions and/or contractor means and methods of construction. The contractor will be required to prepare a Stormwater Pollution Prevention Plan (SWPPP) in accordance with 62-621.300(4)(a). The contractor's erosion control plan will clearly show the location and types of devices they will utilize to protect the site and surrounding areas from the effects of storm water runoff. At a minimum, the erosion plan will include a geo-textile fabric fence along the perimeter of the DMTA property, hay bales, woven fences, sediment pond(s), and dewatering features to be employed at the site. The contractor will not commence clearing, grubbing, grading, dredging, or other construction activities which may cause erosion until the erosion control plan is in place, and approved by the District.

The contractor will construct and install all temporary and permanent erosion and sedimentation control features in accordance with the construction plans, technical specifications, approved SWPPP, and permits prior to any other work at the DMTA site. Erosion and sediment control measures such as berms, dikes, drains, sediment traps, sedimentation basins, grassing, sodding, mulching, hay bales, and silt fences will be properly installed and maintained until the completion of the work. The contractor will be responsible for inspection and record keeping in accordance with the SWPPP.

CLEARING AND GRUBBING

The contractor will remove vegetation, improvements, or obstructions interfering with installation and development of the storage/dewatering site. The extent of site clearing will be limited to clearing those trees and brush necessary to access and utilize the staging/stockpile area to accommodate contractor's operations as depicted on the approved plans. Debris such as vegetation, stumps, roots, rocks, garbage, etc., will be hauled to a landfill or other approved location on a regular basis by the contractor.

DREDGE MATERIAL TREATMENT AREA

The contractor is responsible for obtaining an approved design from a Florida Licensed Professional Engineer for the DMTA berm. The contractor will provide a signed and sealed copy of the DMTA berm to the District for review and approval 15 days prior to the start of construction. If the design varies from the requirements listed below, the contractor will notify the District.

- > The berm will be constructed from soils available on-site, if appropriate. If soil needs to be brought to the site for the berms it shall be a clayey sand (SC) type material with greater than or equal to 35% fines (Passing No. 200 sieve). The berm soils shall be compacted to a minimum of 100% compaction of the soil's Modified Proctor maximum dry density.
- > All berm fill material will be approved by a Florida Licensed Professional Engineer.
- > The fill will be placed in lifts no thicker than 12 inches at or near optimum moisture content.
- > No fill will be placed and compacted at a moisture content of more than 5% wet of optimum moisture content.

- > When top surface of berm becomes hard, it will be scarified to a depth of not less than 6 inches and moistened as necessary to provide good bonding before the next fill lift is placed.
- > The Contractor will perform in-place density tests and submit to District for approval.
- > Slopes and berms will be covered with performance turf grass.

DREDGE SLURRY AND RETURN WATER PIPES

The pipes conveying dredge material from the river to the DMTA and treated water from the DMTA back to the river will be constructed and placed by the contractor to meet, at a minimum, the requirements listed below, including the pipe inspection requirements.

- > The system will be designed so that adequate pump rates can be maintained throughout the treatment operation. It is the contractor's responsibility to ensure system performance as required to meet project requirements.
- > The design of pipe and pumping configurations will meet permit requirements and be signed and sealed by a Florida Licensed Professional Engineer.
- > The contractor will use pipe of adequate material and thickness that can withstand operating pressures produced by the pumps and must not leak for the entire length of the pipe from the dredge barge to the DMTA, as well as, from the DMTA back to the canal.
- > The pipes will be pressure tested for leaks at 10% above the proposed maximum pressure for the pipe system prior to operation.
- > The river water return pipe shall end in the canal and the return water shall discharge inside of a floating turbidity barrier. The deployment of the floating turbidity barrier shall comply with the Erosion and Sediment Control Measures (Attachment F of the permit application appended hereto).
- > Turbidity monitoring shall be conducted within the canal receiving the return water in compliance with the Turbidity Monitoring Plan (appended as Attachment F). The turbidity value outside the floating turbidity barrier and mixing zone shall be within 29 NTU of background for the canal site (0 NTU above background if return water is discharged directly to the river). Construction shall immediately cease, and the District notified, if the observed turbidity levels exceed the designated criteria. Return water turbidity levels must be within acceptable limits before the dredging can resume.

OPERATION

Once the DMTA is constructed and the pipes have been installed and tested, the dredging operation can commence upon approval by the District. The end of the sediment slurry pipe may be adjustable to allow for the discharge into the DMTA cells at different locations. The contractor may choose to continually remove the sediment during the dredging operation or may redirect the slurry pipe to the other cell when one DMTA cell is full.

A backhoe or similar equipment will be used to remove the spoil. The spoil may be placed directly into lined trucks or placed in the stockpile area prior to hauling. Alternately, the dredge spoil may also be allowed to dewater some in the treatment cell before removal.

The contractor will load dredged sediment into approved trucks, trailers or other vehicles which are constructed in such a manner as to prevent leakage or spillage onto the roads identified in the approved haul

route plan for disposal of the dredged sediment at the approved locations. The contractor will follow the approved haul route. Roadways will be cleared and cleaned of minor spillages, dirt and dust on a daily basis, using mechanized street sweepers as required and directed by the District.

Debris unearthed during the dredging operations will be removed, transported and disposed of by the contractor in a timely manner. Debris will not be allowed to accumulate at the storage/staging site and will be hauled away a quickly as possible.

MAINTENANCE

The contractor will regularly inspect and repair the aspects of the erosion control, DMTA, and pipes to ensure they are functioning as design and approved. Specifically, the contractor will:

- > Repair or replace damaged components of the barrier system.
- Remove sediment deposits when silt reaches a depth of 6" or half the height of the barrier, whichever is less. Dispose of sediments at a site arranged by the contractor and approved by the District.
- > Maintain sodded and vegetated areas of the staging/dewatering site.
- > Maintain the constructed berms throughout the entirety of the project to preserve the design dimensions.
- > Perform and log daily inspections of the entire berm perimeter for erosion, failure or excessive flow of liquids through the berm. If the above listed are observed, then the contractor will stop dredging and notify the District.
- > Perform and log the findings of, daily inspections of their pipe over the entire length to observe if there are leaks. If leaks are present, then the Contractor must stop dredging and repair the leaks immediately before the dredging operation can continue. The District will be notified immediately by the contractor if leaks occur.
- > Maintain, at all times, the site in an orderly manner, not allowing for excessive stockpiles of debris and dredged materials to accumulate at the site. Dredged materials will be hauled to the approved locations as necessary to keep the project on schedule and comply with the permit and contract requirements.

DEMOBILIZATION and RESTORATION

Following the completion of the sediment removal project the dredging equipment will be demobilized, the DMTA removed and the site restored. The Contractor will, at a minimum, complete the following restoration at the site:

- > Remove the pipes, equipment and material brought in for contractor's operations
- > Remove any fill material brought in to construct the DMTA and transport the fill to an approved location
- > Clear the site of all debris
- > Fill the temporary sediment ponds with approved soil material, return site to pre-existing elevations and grade the entire site to ensure proper drainage
- > Sod and seed all disturbed areas of the site
- > Maintain sodded/seeded areas for a period of six months beyond final completion of the project.

Replant areas as necessary

- > Restoration of the temporary storage/stockpiling/dewatering site will be completed by the contractor within 60 days of dredging completion.
- > Remove the temporary erosion control devices until within 30 days after final acceptance.





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Weeki Wachee River

Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

No.	Revision	Date	Appvd.
1	SFWMD Comments	08/02/19	GMS
Design	ned by	Checked by	
Issued	for	Date	
60	% Plans	June 28	, 2019

Not Approved for Construction



Drawing Number



Project Number 66277.01





* * (1421EV = -2.6'-

AC BOM .OL

* * * N78

-NEW LIFT STATION

GROUND*51, 9 = 4.2'

(101 = 3.9)

MELEV =-24'

-GROUND ELEV =

GROUND ELEV=3.7'

____201+00

NEW LIFT STATION

BOTTOM = -9.58 (P)

N INV = -5.38 (P)

S INV. = -7.29 (F)

44 LI

PROPERTY LINE (TYP.) ----

BOUNDARY LINE (TYP.) —

SURFACE WATER

TOP = -5.00 (P)(F) $\bar{1}$



NOTES:

- 1. ALL BERM SLOPES MUST BE SODDED AFTER GRADING OPERATIONS FOR EROSION CONTROL AND STABILIZATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SOD UNTIL COMPLETION OF THE PROJECT.
- 2. DREDGE MATERIAL TREATMENT AREA SITE PLANS AND DETAILS REPRESENT THE PERMITTED SYSTEM. ANY CHANGES TO THE LOCATION OR CONFIGURATION OF THE SYSTEM MUST BE APPROVED BY THE DISTRICT, COUNTY AND APPLICABLE PERMITTING AGENCIES.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SYSTEM PERFORMANCE AS REQUIRED TO MEET PROJECT REQUIREMENTS. DESIGN OF DREDGE MATERIAL AND TREATMENT AREA, PIPING AND PUMPING CONFIGURATIONS OTHER THAN THAT SHOWN, HEREON SHALL MEET PERMITTING REQUIREMENTS AND BE SIGNED
- AND SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER. 4. ALL PIPING CONVEYING EITHER DREDGE SLURRY FROM THE RIVER TO THE TREATMENT AREA, OR CONVEYING TREATED WATER FROM THE TREATMENT AREA TO THE RIVER, SHALL BE PRESSURE TESTED AT A MINIMUM OF 80 PSI PRIOR TO
- OPERATION. THE PIPE SHALL BE MECHANICALLY RESTRAINED WHEN EXPOSED ABOVE THE SURFACE (NOT BURIED). 5. CONTRACTOR TO SUBMIT PROPOSED PIPE SPECIFICATIONS TO DISTRICT PRIOR TO CONSTRUCTION.



		RISE COVER				
PIPE SIZE	PIPE GAGE	FACE WTH.	GA.	SHEET LNGTH	FRAME WIDTH	MAX HEIGHT
12	16	12	16	20	14	15'
15	16	15	16	25	17	
18	16	18	16	30	20	
21	16	21	16	35	23	
24	16	24	16	40	26	
30	16	30	14	49	32	
36	16	36	14	58	38	
42	16	42	12	68	44	
48	16	48	12	78	50	
54	16	54	12	80	56	
17X13	16	17	16	28	19	
21X15	16	17	16	35	23	
24X18	16	24	16	40	26	
28X20	16	28	16	46	30	
35X24	16	35	14	56	37	
42X49	16	42	14	68	44	
49X33	16	49	12	78	51	•
16	12	57	12	89	59	

SINGLE FACE RISER BOARD STRUCTURE

- 6. EXISTING CONDITIONS SITE TOPOGRAPHY AND GEOTECHNICAL INFORMATION IS CURRENTLY BEING COLLECTED AND WILL BE INCORPORATED INTO THE 100%
- PLANS. 7. CONTRACTOR TO FIELD LOCATE AND VERIFY EXISTING COMPONENTS OF ABANDONED WASTEWATER TREATMENT FACILITY. NO EXCAVATION OF THESE
- STRUCTURES AND COMPONENTS ARE ANTICIPATED FOR THE CONSTRUCTION OF THE DMTA. 8. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, ABOVE AND BELOW THE EXISTING GROUND SURFACE, DURING CONSTRUCTION AND DREDGING ACTIVITIES. THE INFORMATION FOR THE EXISTING UTILITIES WERE OBTAINED
- FROM THE WEEKI WACHEE WWTP BYPASS PROJECT RECORD DRAWINGS, HERNANDO COUNTY, FLORIDA, DATED NOVEMBER 22, 2011.
- 9. CONTRACTOR TO MAINTAIN A 12 FT. WIDE ACCESS ROAD. THE EXISTING ACCESS ROAD WILL BE MAINTAINED DURING CONSTRUCTION AND PRODUCTION. WHERE THE EXISTING ROAD TERMINATES, CONSTRUCT A 12 FT WIDE STABILIZED ROAD WITH 12 INCHES OF COMPACTED SANDY SOILS (AASHTO A-3 OR A-2-4 WITH NO MORE THAN 15% FINES) AS SHOWN ON THE PLANS.



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Received electronically 07 Feb 2020

CESAJ-RD-WT

NOTES:

FACE.

RISER.

ANGLE (ALL): 2" X 2" 1/4"

CHANNEL:

1) RISERS GREATER THAN 5'

2) RISERS WITH LESS THAN 1'

OF CLEAR OPENING HAVE

HIGH HAVE CROSS BRACE

ANGLE IN CENTER OF RISER

ONLY ONE BRACE AT TOP OF

<u>STEEL</u> 2 1/2" X 3" X 2 1/2" X 3/16" <u>ALUMINUM</u> 2 1/4" X 3" X 2 1/4" X 1/4"

(For informational purposes only)

Weeki Wachee River

Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

No.	Revision	Date	Appvd.
1	SWFWMD Comments	08/02/19	GMS
2	SWFWMD Comments	11/30/19	GMS
Design	ed by	Checked by	
Design		checked by	
Issued	for	Date	
90	% Plans	Nov. 30,	2019

Not Approved for Construction

Dredge Material Treatment & Disposal Area

> Drawing Number C5.01

Project Number 66277.01

ATTACHMENT F

Erosion and Sediment Control Measures:

The selected contractor shall furnish the necessary equipment, labor and materials and utilize appropriate means and methods of turbidity controls necessary and sufficient to ensure that the more restrictive and protective of the following are achieved at all times: (1) all applicable State water quality standards, as prescribed in Chapter 62-302.530, Florida Administrative Code (F.A.C.), incorporated by reference, (2) the applicable environmental permit conditions, and (3) the stormwater and erosion controls shall be in accordance with the Florida Department of Environmental Protection (FDEP) Florida Stormwater Erosion and Sedimentation Control Inspector's Manual.

For all in-water work, the contractor shall install floating turbidity barrier around the dredge cutter head. Additionally, the contractor shall install floating turbidity barrier around any return water discharge locations. A moving mixing zone of 500 feet around the dredge is proposed.

The contractor shall provide floating turbidity barriers with fabric that is flexible and of sufficiently fine mesh to prevent passage of suspended material through the fabric. The floating turbidity barriers shall extend to within a foot of the bottom, except in the areas with the potential for the presence of manatees the barriers shall be two (2) feet above the bottom. Any rips or tears that occur in the turbidity barrier material during use shall be repaired or replaced immediately by the contractor.

The turbidity barriers shall possess floats of sufficient buoyancy to prevent the top of the barrier from submerging under any water and wind conditions. If the top of the barrier becomes submerged for any reason, the contractor shall suspend construction operations until the condition is corrected.

The contractor shall provide and maintain an anchor system to secure the turbidity barrier in position. Attach weights to the barrier as necessary to keep the fabric at an angle to the vertical of 30 degrees or less. Fabric material shall not be attached to the river or canal bottom.

The contractor shall keep in place and maintain all barriers until the work is complete and turbidity levels return to the background levels based on the monitoring results. Upon completion of use, the contractor shall remove the turbidity barriers and associated items to an off-site upland location.

Turbidity Monitoring Plan:

- 1. The contractor shall conduct and record the results of turbidity monitoring appropriate to the conditions and at the locations, times, and frequencies specified below. A FDEP-approved Turbidity Monitoring Log will be provided to the contractor (attached as Appendix A).
- 2. Flow direction can change with the tide. As such, the upstream location for background monitoring will always be in the direction the flow originates. Conversely, the downstream location for compliance monitoring will always be in the direction to flow is heading relative to the dredge equipment.
- 3. Background Monitoring Location: At least 100 feet upstream of construction activities that may generate turbidity, in the middle of the river or canal, at mid- depth in the water column, and outside of any visible turbidity plume.
- 4. Compliance Monitoring Location: Located in the river, downstream of construction, directly outside of the turbidity barriers, and within the densest portion of any visible plume. If granted a mixing zone, the point of compliance, as well as the monitoring location, will be immediately

outside of the mixing zone boundary.

- 5. Sampling Time: During activities or environmental conditions that can generate constructionrelated turbidity: Water samples for the turbidity measurement shall be collected beginning no sooner than one (1) hour after, and no later than two (2) hours after, construction activity commences (or as specified in the applicable environmental permit), and every four (4) hours thereafter until the work day ends. Water samples shall be collected at the same time(s) every work day according to this schedule. Any substantial deviation from this schedule must be approved by the appropriate regulatory agency, unless otherwise compelled by force majeure, in which case, an explanation must be provided verbally as soon as possible and in writing within 48 hours of the deviation.
- 6. Equipment: The turbidity monitoring equipment shall meet the specifications and be calibrated, maintained, repaired, and replaced according to the methods, procedures, and frequencies set forth in Chapter 62-160, F.A.C.
- 7. Records Management: The individual conducting the turbidity monitoring shall transcribe the readings to the approved Daily Turbidity Monitoring Log form and sign and date the form at the close of each monitoring day. The notebook containing the signed and dated daily turbidity monitoring log forms shall be accessible at the construction site during the work day.
- 8. The contractor shall submit quarterly monitoring data reports (Turbidity Monitoring Log forms), to FDEP and the District. Documents submitted shall contain the following information:
 - 1. Permit number
 - 2. Project name
 - 3. Dates of sampling and analysis
 - 4. A statement describing the methods used in collection, handling, storage and analysis of the samples
 - 5. A map indicating the sampling locations
 - 6. A statement by the individual responsible for implementation of the sampling program concerning the authenticity, precision, limits of detection and accuracy of the data.
 - 7. The monitoring reports will include the following information for each sample that is taken:
 - a. Date and time of the day samples were taken
 - b. Depth of the water body
 - c. Depth of the sample
 - d. Antecedent weather conditions
 - e. Water level stage
 - f. Direction of flow

If at any time, monitoring reveals the turbidity level, at the compliance sampling station is greater than 29 NTUs above the corresponding background sample in Class I or III receiving waters or greater than 0 NTU above background samples in receiving waters classified as OFW (Outstanding Florida Waters),

construction activities shall cease immediately and not resume until corrective measures have been taken and turbidity has returned to an acceptable level. Turbidity violations and corrective measures shall be documented in the monitoring reports. The contractor must then notify the District Project Manager who then, shall notify the permitting agencies of the exceedance.

APPENDIX A

DAILY TURBIDITY MONITORING LOG

Multiple work areas that may contribute to turbidity in receiving waters must be monitored separately. A site map depicting sampling locations must accompany the quarterly turbidity monitoring reports.

Project Name:	Permit No.:		
Collector Name:	Collection Date:		
Meter/Sonde Identification No.			

Meter/Sonde Identification No.

Water Observations		Weather Observations	
Water Level Stages		Temperature:	
Direction of Flow		Conditions:	
Water Depth			

Activity Taking Place During Sampling	Yes	No
Excavation or Filling within 50 ft radius of surface waters or wetlands?		
Please describe:		
Other In-Water Work? (e.g., dewatering; installing piling or forms; injecting concrete; sand		
blasting; painting)		
Please describe:		
Other Activity? (e.g., materials transfer; washdown; interim stabilization)		
Please describe:		

Turbidity Monitoring Data						
Background Location Description:	ground	ıpliance	ground	ıpliance	ground	pliance
Compliance Location Description	Back	Con	Back	Сол	Back	Cor
compliance location description.	A.M. Mid-Depth		Mid-Day Mid-Depth		P.M. Mid-Depth	
Collection Time						
Analysis Time						
Turbidity (NTU)						
Did Compliance Sample exceed 0 NTUs in River or 29 NTUs in canals above Background Sample?	/ □ 1 □	/es* No	□ Y □ N	'es* Io		es* 0
*If the turbidity water quality standard (0 NTU in River or 29 NTU in canals) is exceeded, please describe cause and corrective actions taken on reverse side of this form. Immediately stop activities contributing to turbidity and notify the SWFWMD Construction Manager and Permit Compliance Staff.						

Explanation of gaps in sampling activity (e.g., rained out, phased activity, etc.):

Construction activity complete and slopes stabilized? 2 Yes 2 No

Statement of Authenticity

I certify this test was performed as required by Chapter 62-160, F.A.C., conducted with an approved				
instrument calibrated in accordance with the appropriate FDEP-SOPs. The results are complete and accurate.				
Print Name:				
Signature:	Date:			

Additional Comments::

*Explain turbidity water quality standard exceedance (>29 NTU above background for Class III or > 0 NTU above background for an Outstanding Florida Water (OFW)) and describe corrective actions taken.

Dredged Material Treatment Area Restoration Plan Weeki Wachee River Restoration Project

The Weeki Wachee River Restoration Project involves hydraulic dredging to remove excess sediment from the river. Sedimentation has been identified as an issue in the river. Accumulated sediments smother beneficial habitats and can limit manatee access. The Southwest Florida Water Management District (District) is the lead entity implementing the sediment removal project. Hernando County is partnering on the project by providing land to be used as the dredged material treatment area (DMTA). This property formerly contained a wastewater treatment plant (WWTP), that has since been demolished and replaced with a sewer line and lift station.

A December 2019 site visit confirmed the existence of an isolated depressional feature on the site that would be considered "Waters of the United States" (WOTUS). However, the depression appears to be man-made since it is not depicted on the National Wetland Inventory Maps It appears this area was scraped down to create fill that was used for the entrance road and WWTP pad, as historic aerial photography shows the clearing of the site, and the soils are noticeably altered. The area is highly disturbed and dominated by the nuisance species torpedograss (*Panicum repens*), with some sedges, broomsedge (*Andropogon glomeratus*) and groundsel tree (*Bacchirus halimifolia*) on the edges. The area was regularly mowed while the wastewater treatment plant was in operation but has become overgrown with the opportunistic species since the removal of the WWTP.

The DMTA was redesigned to avoid the new lift station, sewer line, and man-holes, as well as to reduce impacts to this man-made wet area. (See the attached plan sheet for the latest site layout.) Portions of this WOTUS will be temporarily impacted during the project and are reflected on the attached Sheet Ex. 1.

Following completion of the sediment removal project, site restoration will involve returning it to its original condition. The District's Contractor will, at a minimum, complete the following restoration at the site:

- > Remove fill material brought in to construct the DMTA and transport the fill to an approved location
- > Clear the site of debris
- > Fill the temporary sediment ponds with approved soil material, return site to pre-existing elevations and grade the site to ensure positive drainage
- > Sod and seed disturbed non-WOTUS areas of the site
- > Maintain sodded/seeded areas for a period of six months beyond final completion of the project.
- > Restoration of the temporary storage/stockpiling/dewatering site will be completed by the contractor within 60 days of dredging completion.



HERNANDO COUNTY PARCEL



501 E Kennedy Boulevard Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932

Weeki Wachee River

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No.	Revision	Date	Appvd.
1	SWFWMD Comments	08/02/19	GMS
2	SWFWMD Comments	11/30/19	GMS
Designed by		Checked by	
Issued	for	Date	
90% Plans		Nov. 30, 2019	

Not Approved for Construction

Temporary Waters of US Impact Area/Other Surface Waters

Ex. 1

Project Number 66277.01

Drawing Number

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:



Wildlife Alert: 1-888-404-FWCC(3922)

cell *FWC or #FWC

Project Design Criteria (PDCs) Applicable to All Projects

NOTE - You are required to comply with the following PDCs, which serve to address requirements pursuant to Section 7, Endangered Species Act (ESA) for those listed species and designated critical habitat under purview of the National Marine Fisheries Service Protected, Resources Division. These PDCs are taken from the Programmatic Biological Opinion (PBO) referred to as JaxBO. These criteria serve to address ESA requirements only, and additional conditions may be required to address other Federal laws, including the Magnuson-Stevens Fishery Conservation and Management Reauthorization Act. Authorization under this permit is conditional upon your compliance with all applicable PDCs, which are made part of this permit. You are reminded that you must complete the attached self-certification statement of compliance following completion of the authorized work. Your statement of compliance does not obviate the need to satisfy all PDCs, including those requirements (e.g., such as structural dimensions and educational signs) that are observable post-construction, and those requirements (e.g., construction methods or procedures to be followed) that are not observable post-construction. Please note that failure to comply with the applicable PDCs of this PBO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute noncompliance with this permit. The NMFS is the appropriate authority to determine compliance with the terms and conditions of this PBO.

AP.1. The applicant must agree to adhere to PDCs for *In-Water Activities* (provided below).

AP.2. All projects involving the installation of piles or sheet piles shall follow the PDCs for *In-Water Noise from Pile and Sheet Pile Installation* (Section 2.2). This Opinion does not cover projects that use seismic surveys, low frequency sonar, explosions, and seismic air guns.

AP.3. All projects proposed in or near areas with mangroves, seagrasses, corals, or hard bottom habitat must refer to PDCs for *Mangroves, Seagrasses, Corals, and Hard Bottom for All Projects* (provided below) to determine whether the project is covered under the Opinion and, if it is covered, to ensure it is sited, designated, and implemented following all of the PDCs in that section.

AP.4. For every project, the USACE must determine if the project is located within:

- a) Smalltooth sawfish critical habitat limited exclusion zones (Section 2.1.1.1)
- b) Gulf sturgeon critical habitat migratory restriction zones (Section 2.1.1.2)
- c) Atlantic sturgeon critical habitat exclusion zone (St. Marys River) (Section 2.1.1.3)
- d) North Atlantic right whale educational sign zones (Section 2.1.1.4)
- e) U.S. Caribbean sea turtle critical habitat restriction zones (Section 2.1.1.5)
- f) Bryde's whale exclusion zone (Section 2.1.1.6)

Where the activity is excluded from the Opinion within a particular zone, the application must be processed under a separate consultation. Where additional restrictions apply to activities within that zone, the USACE or other authorizing entity must ensure that the project meets the requirements for that zone.

AP.5. This Opinion only covers new construction (i.e., installation, repair, replacement) and does not apply to after-the-fact consultations or enforcement actions handled by the Corps.

AP.6. All activities must be completed during daylight hours.

U.S. Army Corps of Engineers Jacksonville District's Programmatic Biological Opinion (JaxBO) Project Design Criteria (PDCs) for In-Water Activities

November 20, 2017

1) **(AP.7.) Education and Observation**: The permittee must ensure that all personnel associated with the project are instructed about the potential presence of species protected under the ESA and the Marine Mammal Protection Act (MMPA). All on-site project personnel are responsible for observing water-related activities for the presence of protected species. All personnel shall be advised that there are civil and criminal penalties for harming, harassing, or killing ESA-listed species or marine mammals. To determine which species may be found in the project area, please review the relevant Protected Species List at:

http://sero.nmfs.noaa.gov/protected_resources/section_7/threatened_endangered/in dex.html

- 2) (AP.8.) Reporting of interactions with protected species:
 - a) Any collision(s) with and/or injury to any sea turtle, sawfish, whale, or sturgeon occurring during the construction of a project, shall be reported immediately to NMFS's Protected Resources Division (PRD) at (1-727-824-5312) or by email to takereport.nmfsser@noaa.gov and SAJ-RD-Enforcement@usace.army.mil.
 - b) Smalltooth sawfish: Report sightings to 1-844-SAWFISH or email Sawfish@MyFWC.com
 - c) Sturgeon: Report dead sturgeon to 1-844-STURG 911 (1-844-788-7491) or email nmfs.ser.sturgeonnetwork@noaa.gov
 - d) Sea turtles and marine mammals: Report stranded, injured, or dead animals to 1-877-WHALE HELP (1-877-942-5343).
 - e) North Atlantic right whale: Report injured, dead, or entangled right whales to the USCG via VHF Channel 16.
- 3) (AP.9.) Vessel Traffic and Construction Equipment: All vessel operators must watch for and avoid collision with species protected under the ESA and MMPA. Vessel operators must avoid potential interactions with protected species and operate in accordance with the following protective measures:
 - a) Construction Equipment.
 - All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while operating in water depths where the draft of the vessel provides less than a 4-foot (ft) clearance from the bottom, and in all depths after a protected species has been observed in and has departed the area.
 - ii) All vessels will follow marked channels and/or routes using the maximum water depth whenever possible.
 - iii) Operation of any mechanical construction equipment, including vessels, shall cease immediately if a listed species is observed within a 50-ft radius of

construction equipment and shall not resume until the species has departed the area of its own volition.

- iv) If the detection of species is not possible during certain weather conditions (e.g., fog, rain, wind), then in-water operations will cease until weather conditions improve and detection is again feasible.
- b) All Vessels:
 - i) Sea turtles: Maintain a minimum distance of 150 ft.
 - ii) North Atlantic right whale: Maintain a minimum 1,500-ft distance (500 yards).
 - iii) Vessels 65 ft in length or longer must comply with the Right Whale Ship Strike Reduction Rule (50 CFR 224.105) which includes reducing speeds to 10 knots or less in Seasonal Management Areas (<u>http://www.fisheries.noaa.gov/pr/shipstrike/</u>).
 - iv) Mariners shall check various communication media for general information regarding avoiding ship strikes and specific information regarding right whale sightings in the area. These include NOAA weather radio, USCG NAVTEX broadcasts, and Notices to Mariners.
 - v) Marine mammals (i.e., dolphins, whales [other than North Atlantic right whales], and porpoises): Maintain a minimum distance of 300 ft.
 - vi) When these animals are sighted while the vessel is underway (e.g., bowriding), attempt to remain parallel to the animal's course. Avoid excessive speed or abrupt changes in direction until they have left the area.
 - vii) Reduce speed to 10 knots or less when mother/calf pairs or groups of marine mammals are observed, when safety permits.
- 4) (AP.10.) Turbidity Control Measures during Construction: Turbidity must be monitored and controlled. Prior to initiating any of the work covered under this Opinion, the Permittee shall install turbidity curtains as described below. In some instances, the use of turbidity curtains may be waived by the USACE project manager if the project is deemed too minimal to generate turbidity (e.g., certain ATON installation, scientific survey device placement, marine debris removal) or if the current is too strong for the curtains to stay in place. Turbidity curtains specifications:
 - a) Install floating turbidity barriers with weighted skirts that extend to within 1 ft of the bottom around all work areas that are in, or adjacent to, surface waters.
 - b) Use these turbidity barriers throughout construction to control erosion and siltation and ensure that turbidity levels within the project area do not exceed background conditions.
 - c) Position turbidity barriers in a way that does not block species' entry to or exit from designated critical habitat.
 - d) Monitor and maintain turbidity barriers in place until the authorized work has been completed and the water quality in the project area has returned to background conditions.
 - e) In the range of ESA-listed corals (St. Lucie Inlet, Martin County south to the Dry Tortugas and the U.S. Caribbean) and Johnson's seagrass (Turkey Creek/Palm

Bay south to central Biscayne Bay in the lagoon systems on the east coast of Florida):

- Projects that include upland earth moving (e.g., grading to install a building or parking lot associated with a dock and seawall project), must install sediment control barriers to prevent any upland sediments from reaching estuarine or marine waters.
- ii) The turbidity curtain requirement cannot be waived for any project that moves or removes sediment (e.g., dredging, auger to create a pile, trenching to install a cableline). If turbidity curtains are not feasible in an area based on site conditions such as water current, high wave action, or stormy conditions, the project must undergo individual Section 7 consultation and is not covered under this Programmatic Opinion.
- 5) **(AP.11.) Entanglement:** All turbidity curtains and other in-water equipment must be properly secured with materials that reduce the risk of entanglement of marine species (described below). Turbidity curtains likewise must be made of materials that reduce the risk of entanglement of marine species.
 - a) In-water lines (rope, chain, and cable, including the lines to secure turbidity curtains) must be stiff, taut, and non-looping. Examples of such lines are heavy metal chains or heavy cables that do not readily loop and tangle. Flexible inwater lines, such as nylon rope or any lines that could loop or tangle, must be enclosed in a plastic or rubber sleeve/tube to add rigidity and prevent the line from looping and tangling. In all instances, no excess line is allowed in the water.
 - b) Turbidity curtains and other in-water equipment must be placed in a manner that does not entrap species within the construction area or block access for them to navigate around the construction area.

Project Design Criteria (PDCs) specific to Activity 3 for Maintenance, Minor, and Muck Dredging

- A3.1. Activities covered by this Opinion include:
 - A3.1.1. Maintenance dredging of existing areas such as canals, channels, basins, berths, marinas, boat slips, and areas around intake and discharge structures. Maintenance dredging will be limited to the depth and width previously authorized by the USACE or other regulatory authority such as FDEP or water management districts. There is no size limit for maintenance dredging so long as it meets the previously authorized depth and width. If the previous authorized depth is unknown, dredging is limited to -7.0 ft MLW including any advanced maintenance or overdredge.
 - A3.1.2. Minor dredging (non-maintenance) dredging as follows:
 - A3.1.2.1. For dredging to accommodate vessel mooring at boat slips around docks and marinas, the size is limited to the minimum necessary to accommodate vessel mooring, not to exceed 5,000 ft². The maximum allowed dredging depth (including overdredge) cannot exceed the depth of the adjacent navigational channel (i.e., controlling depth) or a maximum depth of -7 ft MLW. For projects located adjacent to federal channels (not within the dredged navigational channel), the dredging depth can exceed -7 ft MLW so long as it does not exceed the controlling depth of the federal channel.
 - A3.1.2.2. For treasure hunting and salvage operations that use blowers, propeller deflectors, and suctioning devices, the size is limited to a total of 5,000 ft² and is limited to sandy areas only.
 - A3.1.2.3. Minor dredging does not include dredging to create new navigational channels.
 - A3.1.2.4. Minor dredging includes dredging to accommodate the placement of shoreline stabilization, outfall structures; boat ramps; upland cut boat ramps and basins; temporary platforms, fill, and cofferdams; and placement of erosion and scour control-measures. This type of dredging is usually required to embed materials and/or to allow smooth transition of the work to the natural surrounding elevation.
 - A3.1.3. Muck Dredging, or removing accumulated organic to restore natural habitats and for water quality enhancement, as follows:
 - A3.1.3.1. Muck dredging cannot be used to increase water depths to support navigation, access, or vessel mooring.
 - A3.1.3.2. Dredging depths are limited to only that necessary to remove the muck layer down to natural sediments.

The following PDCs apply to all the activities described in PDC A3.1 above:

- A3.2. This Opinion does not cover hopper dredging.
- **A3.3.** With respect to the dredged material, all dredged material must be placed in an USACE-verified upland disposal site, EPA or USACE-designated open water disposal site, USACE Dredged Material Management Area, or USACE-approved beneficial use sites for mitigation or restoration, as long as it meets PDC A3.3.1-A3.3.3 below.
 - A3.3.1. The disposal sites shall employ erosion control measures such as upland erosion control, such as filtration or berms, or in-water turbidity curtains. A3.3.2. Handling and storage of dredged material must be completed in a manner that prevents sedimentation, erosion, and turbidity during dewatering, overflow, transferring, and storage of the dredged material. For example, the overwater transfer of dredge material should either contain the dredged material and any water to prevent sedimentation or employ other methods, such as turbidity curtains in the marine environment, to ensure that any turbidity generated as the water is returned to the marine environment is contained. If the applicant conducts sediment testing voluntarily or in compliance with other law, and such testing indicates high levels of contaminants in the sediments to be dredged, water from dewatering should not be released back into the marine environment.
 - A3.3.3. This Opinion does not cover the use of in-water disposal sites (e.g., beneficial use sites or ocean disposal sites) unless the use of the in-water disposal sites has previously undergone ESA-Section 7 consultation with NMFS for disposal of material at these locations. If the applicant is seeking disposal in an in-water disposal location not previously consulted on by NMFS, then the entire project (both dredging and disposal) must be consulted on separately and is not covered under this Opinion.
 - A3.3.4. This Opinion applies to upland disposal of beach quality sand on beaches if placed above the existing MHW, if the grain size analysis indicates that the dredged sand is compatible with the existing beach sand, and if the sand placement does not change the existing waterward extension of the beach. Placement of beach sand on nesting beaches above MHW that may affect ESA-listed species is under the jurisdiction of the USFWS.
- **A3.4**. This Opinion does not cover dredging within the mapped and authorized federal navigational channels (e.g., ICW, AIWW, GIWW, or harbors [e.g., Port Canaveral]). Dredging outside of the mapped channel in the surrounding waters is covered.

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: <u>SAJ-2019-01203(NW-JLC)</u>

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. <u>Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.</u>

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Section, Post Office Box 4970, Jacksonville, FL 32232-0019 or e-mail at <u>saj-rd-enforcement@usace.army.mil</u>.

(TRANSFEREE-SIGNATURE)	(SUBDIVISION)
(DATE)	(LOT) (BLOCK)
(NAME-PRINTED)	(STREET ADDRESS)
(MAILING ADDRESS)	
(CITY, STATE, ZIP CODE)	