

FLORIDA DEPARTMENT OF Environmental Protection

Southwest District Office 13051 North Telecom Parkway #101 Temple Terrace, Florida 33637-0926

November 4, 2019

SWFWMD Gary Serviss, VHB 301 North Cattlemen Road Sarasota, FL 34232 gserviss@vhb.com

File No.: 27-379440-001-EG, Hernando County

Dear Mr. Serviss:

On August 23, 2019, we received your notice of intent to use a General Permit (GP), pursuant to Rule 62-330.485, Florida Administrative Code (F.A.C.), to dredge approximately 26,200 cubic yards of accumulated sediment along approximately 1.5 miles of the Weeki Wachee River, a Class III Outstanding Florida Waterbody, and restore water depths to conditions prior to the recent sedimentation. Dredging will be conducted by means of a barge-mounted hydraulic dredge and will occur in locations identified on the attached plans, with dredge depths not to exceed minus 5 feet below mean low water. The dredged sediments (spoil material) will be stockpiled in upland property owned by Hernando County, and will be utilized by the County or contractor in upland locations. The project commences just east of East Richard Drive and terminates northwest of Shoal Line Boulevard, Weeki Wachee, Sections 29, 32, and 33 Township 22 South, Range 17 East, Hernando County.

Your intent to use a general permit has been reviewed by Department staff for three types of authorizations: (1) regulatory authorization, (2) proprietary authorization (related to state-owned submerged lands), and (3) federal authorization. The authority for review and the outcomes of the reviews are listed below. Please read each section carefully.

Your project did not qualify for the federal review portion of this General Permit because the proposed activity is not covered under the State Programmatic General Permit. Additional authorization must be obtained prior to commencement of the proposed activity. This letter does not relieve you from the responsibility of obtaining other federal, state, or local authorizations that may be required for the activity. Please refer to the specific section(s) dealing with that portion of the review below for advice on how to proceed.

If you change the project from what you submitted, the authorization(s) granted may no longer be valid at the time of commencement of the project. Please contact us prior to beginning your project if you wish to make any changes.

1. Regulatory Review – Verified

Based on the forms, drawings, and documents submitted with your notice, it appears that the project meets the requirements for the General Permit under Rule 62-330.485, F.A.C. Any activities performed under a general permit are subject to general conditions required in Rule 62-330.405, F.A.C. (attached), and the specific conditions of Rule 62-330.485, F.A.C. (attached). Any deviations from these conditions may subject the permittee to enforcement action and possible penalties.

Ron DeSantis Governor

Jeanette Nuñez Lt. Governor

Noah Valenstein Secretary File Name: Weeki Wachee River Restoration FDEP File No.: 27-0379440-001-EG Page 2 of 10

Please be advised that the construction phase of the GP must be completed within five years from the date the notice to use the GP was received by the Department. If you wish to continue this GP beyond the expiration date, you must notify the Department at least 30 days before its expiration.

Authority for review - Part IV of Chapter 373, F.S., Title 62, F.A.C. and in accordance with the operating agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C.

2. **Proprietary Review – Granted**

The activity appears to be located on sovereign submerged lands owned by the Board of Trustees. The activity is not exempt from the need to obtain the applicable proprietary authorization. As staff to the Board of Trustees, the Department has reviewed the activity described above, and has determined that the activity qualifies for a letter of consent under Section 253.77, Florida Statutes, to construct and use the activity on the specified sovereign submerged lands, as long as the work performed is located within the boundaries as described herein and is consistent with the terms and conditions herein.

During the term of this Letter of Consent you shall maintain satisfactory evidence of sufficient upland interest as required by paragraph 18-21.004(3)(b), Florida Administrative Code. If such interest is terminated or the Board of Trustees determines that such interest did not exist on the date of issuance of this Letter of Consent, this Letter of Consent may be terminated by the Board of Trustees at its sole option. If the Board of Trustees terminates this Letter of Consent, you agree not to assert a claim or defense against the Board of Trustees arising out of this Letter of Consent.

Please be advised that any use of sovereign submerged lands without specific prior authorization from the Board of Trustees will be considered a violation of Chapter 253, Florida Statutes and may subject the affected upland riparian property owners to legal action as well as potential fines for the prior unauthorized use of sovereign land.

Authority for review - Chapter 253, F.S., Chapter 18-21, F.A.C., and Section 62-330.075, F.A.C. as required.

3. Federal Review – SPGP Not Approved

Your proposed activity as outlined on your application and attached drawings **does not qualify** for Federal authorization pursuant to the State Programmatic General Permit and a SEPARATE permit or authorization shall be required from the Corps. You must apply separately to the Corps using their APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT, ENG FORM 4345, or alternative as allowed by their regulations. More information on Corps permitting may be found online in the Jacksonville District Regulatory Division Source Book at:

https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book.

Authority for review - an agreement with the USACOE entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection (or Duly Authorized Designee), State Programmatic General Permit," Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Additional Information

Please retain this letter. The activities may be inspected by authorized state personnel in the future to ensure compliance with appropriate statutes and administrative codes. If the activities are not in compliance, you may be subject to penalties under Chapter 373, F.S., and Chapter 18-14, F.A.C.

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NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and

(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at <u>Agency_Clerk@dep.state.fl.us</u>. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons

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substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at <u>Agency_Clerk@dep.state.fl.us</u>, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

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Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Sincerely,

men

Carla S. Burrmann, M.S. Environmental Manager Permitting and Waste Cleanup Program Southwest District

Enclosures: Ch. 62-330.485, F.A.C. General Conditions for All General Permits, Ch. 62-330.405, F.A.C. Special Consent Conditions General Conditions for Authorizations for Activities on State-Owned Submerged Lands

Attachments: Project Drawings (30 pages) DMTA Narrative (14 pages)

cc:

ERP Permitting, Southwest District, <u>sw_erp@dep.state.fl.us</u> Garrett Christ, Southwest District, <u>Garrett.Christ@FloridaDEP.gov</u> Janie Hagberg, SWFWMD, <u>Janie.Hagberg@swfwmd.state.fl.us</u> Jeff Holcomb, Hernando BOCC, <u>JHolcomb@HernandoCounty.US</u>

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this determination, including all copies, was mailed before the close of business on <u>November 4, 2019</u>, to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Barbara Browning

Clerk

November 4, 2019

Date

62-330.485, F.A.C.

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(1) A general permit is granted to the Department and Districts for the construction, alteration, operation, maintenance, removal and abandonment of projects to implement Department or District environmental restoration or enhancement projects.

(2) The environmental restoration or enhancement project must comply with any one of the following procedures:

(a) The project is part of a Surface Water Improvement and Management Plan developed pursuant to section 373.453, F.S.; or

(b) The project is approved by the District Governing Board or the Secretary of the Department after conducting at least one public meeting; or

(c) The project is wholly or partially funded through the Land Acquisition Trust Fund pursuant to Article X, Section 28 of the Florida Constitution, or through any successor trust fund.

(3) When the activity is to be conducted by the Department, the Department shall provide the notice and any processing fee required by rule 62-330.071, F.A.C., to the appropriate District.

(4) When the activity is to be conducted by a District, the District shall provide the notice and any required fee to the appropriate Department office.

Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.406(5), 373.4131, 373.414(9), 373.4145, 373.418, 403.805(1) FS. Law Implemented 373.118(1), 373.406(5), 373.413, 373.4131, 373.414(9), 373.4145, 373.416, 373.418, 373.426, 403.814(1) FS. History–New 10-3-95, Amended 10-1-07, Formerly 62-341.485, Amended 10-1-13, 6-1-18.

62-330.405, F.A.C.

The following general permit conditions are binding upon the permittee and are enforceable under chapter 373, F.S. These conditions do not apply to the general permit for stormwater management systems under section 403.814(12), F.S.

(1) The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit and may subject the permittee to enforcement action and revocation of the permit under chapter 373, F.S.

(2) The general permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit; and it does not authorize any violation of any other applicable federal, state, local, or special district laws (including, but not limited to, those governing the "take" of listed species).

(3) The general permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the general permit.

(4) The general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to: human health or welfare; animal, plant or aquatic life; or property. It does not allow the permittee to cause pollution that violates state water quality standards.

(5) Section 253.77, F.S., provides that a person may not commence any excavation, construction, or other activity involving the use of state-owned or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required consent, lease, easement, or other form of authorization authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on state-owned lands.

(6) The authorization to conduct activities under a general permit may be modified, suspended or revoked in accordance with chapter 120, F.S., and section 373.429, F.S.

(7) The general permit is not transferable to a new third party. To be used by a different permittee, a new notice to use a general permit must be submitted in accordance with rule 62-330.402, F.A.C.

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Activities constructed in accordance with the terms and conditions of a general permit are automatically authorized to be operated and maintained by the permittee and subsequent owners in accordance with subsection 62-330.340(1), F.A.C. Any person holding the general permit, persons working under the general permit, and owners of land while work is conducted under the general permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to sale, conveyance, or other transfer of ownership or control of the permitted project, activity, or the real property at which the permitted project or activity is located.

(8) Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the permitted system to ensure conformity with the plans and specifications approved by the general permit.

(9) The permittee shall maintain any permitted project or activity in accordance with the plans submitted to the Agency and authorized in the general permit.

(10) A permittee's right to conduct a specific activity under the general permit is authorized for a duration of five years.

(11) Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be implemented and maintained immediately prior to, during, and after construction as needed to stabilize all disturbed areas, including other measures specified in the permit to prevent adverse impacts to the water resources and adjacent lands. Erosion and sediment control measures shall be installed and maintained in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007)*, available at https://www.flrules.org/Gateway/reference.asp?No=Ref-04227, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, available at https://publicfiles.dep.state.fl.us/DEAR/Stormwater_Training_Docs/erosion-inspectors-manual.pdf.

(12) Unless otherwise specified in the general permit, temporary vehicular access within wetlands during construction shall be performed using vehicles generating minimum ground pressure to minimize rutting and other environmental impacts. Within forested wetlands, the permittee shall choose alignments that minimize the destruction of mature wetland trees to the greatest extent practicable. When needed to prevent rutting or soil compaction, access vehicles shall be operated on wooden, composite, metal, or other non-earthen construction mats. In all cases, access in wetlands shall comply with the following:

(a) Access within forested wetlands shall not include the cutting or clearing of any native wetland tree having a diameter four inches or greater at breast height;

(b) The maximum width of the construction access area shall be limited to 15 feet;

(c) All mats shall be removed as soon as practicable after equipment has completed passage through, or work has been completed, at any location along the alignment of the project, but in no case longer than seven days after equipment has completed work or passage through that location; and

(d) Areas disturbed for access shall be restored to natural grades immediately after the maintenance or repair is completed.

(13) Barges or other work vessels used to conduct in-water activities shall be operated in a manner that prevents unauthorized dredging, water quality violations, and damage to submerged aquatic communities.

(14) The construction, alteration, or use of the authorized project shall not adversely impede navigation or create a navigational hazard in the water body.

(15) Except where specifically authorized in the general permit, activities must not:

(a) Impound or obstruct existing water flow, cause adverse impacts to existing surface water storage and conveyance capabilities, or otherwise cause adverse water quantity or flooding impacts to receiving water and adjacent lands; or

(b) Cause an adverse impact to the maintenance of surface or ground water levels or surface water flows established pursuant to section 373.042, F.S., or a Works of the District established pursuant to

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section 373.086, F.S.

(16) If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S.

(17) The activity must be capable, based on generally accepted engineering and scientific principles, of being performed and of functioning as proposed, and must comply with any applicable District special basin and geographic area criteria.

(18) The permittee shall comply with the following when performing work within waters accessible to federally- or state-listed aquatic species, such as manatees, marine turtles, smalltooth sawfish, and Gulf sturgeon:

(a) All vessels associated with the project shall operate at "Idle Speed/No Wake" at all times while in the work area and where the draft of the vessels provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

(b) All deployed siltation or turbidity barriers shall be properly secured, monitored, and maintained to prevent entanglement or entrapment of listed species.

(c) All in-water activities, including vessel operation, must be shut down if a listed species comes within 50 feet of the work area. Activities shall not resume until the animal(s) has moved beyond a 50-foot radius of the in-water work, or until 30 minutes elapses since the last sighting within 50 feet. Animals must not be herded away or harassed into leaving. All onsite project personnel are responsible for observing water-related activities for the presence of listed species.

(d) Any listed species that is killed or injured by work associated with activities performed shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1(888)404-3922 and ImperiledSpecies@myFWC.com.

(e) Whenever there is a spill or frac-out of drilling fluid into waters accessible to the above species during a directional drilling operation, the FWC shall be notified at ImperiledSpecies@myfwc.com with details of the event within 24 hours following detection of the spill or frac-out.

(19) The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any activity authorized by the general permit.

(20) The permittee shall immediately notify the Agency in writing of any submitted information that is discovered to be inaccurate.

Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.406(5), 373.4131, 373.414(9), 373.4145, 373.418, 403.805(1) FS. Law Implemented 373.044, 373.118(1), 373.129, 373.136, 373.406(5), 373.413, 373.4131, 373.414(9), 373.4145, 373.416, 373.422, 373.423, 373.429, 403.814(1) FS. History–New 10-3-95, Amended 10-1-07, Formerly 62-341.215, Amended 10-1-13, 6-1-18.

Special Consent Conditions

1. The applicant agrees to indemnify, defend and hold harmless the Board of Trustees and the State of Florida from all claims, actions, lawsuits and demands in any form arising out of the authorization to use sovereignty submerged lands or the applicant's use and construction of structures on sovereignty submerged lands. This duty to indemnify and hold harmless will include any and all liabilities that are associated with the structure or activity including special

assessments or taxes that are now or in the future assessed against the structure or activity during the period of the authorization.

- 2. Failure by the Board of Trustees to enforce any violation of a provision of the authorization or waiver by the Board of Trustees of any provision of the authorization will not invalidate the provision not enforced or waived, nor will the failure to enforce or a waiver prevent the Board of Trustees from enforcing the unenforced or waived provision in the event of a violation of that provision.
- 3. Applicant binds itself and its successors and assigns to abide by the provisions and conditions set forth in the authorization. If the applicant or its successors or assigns fails or refuses to comply with the provisions and conditions of the authorization, the authorization may be terminated by the Board of Trustees after written notice to the applicant or its successors or assigns. Upon receipt of such notice, the applicant or its successors or assigns will have thirty (30) days in which to correct the violations. Failure to correct the violations within this period will result in the automatic revocation of this authorization.
- 4. All costs incurred by the Board of Trustees in enforcing the terms and conditions of the authorization will be paid by the applicant. Any notice required by law will be made by certified mail at the address shown on page one of the authorizations. The applicant will notify the Board of Trustees in writing of any change of address at least ten days before the change becomes effective.
- 5. This authorization does not allow any activity prohibited in a conservation easement or restrictive covenant that prohibits the activity.

General Conditions for Authorizations for Activities on State-Owned Submerged Land

All authorizations granted by rule or in writing under Rule 18-21.005, F.A.C., except those for geophysical testing, shall be subject to the general conditions as set forth in paragraphs (a) through (i) below. The general conditions shall be part of all authorizations under this chapter, shall be binding upon the grantee, and shall be enforceable under Chapter 253 or 258, Part II, F.S.

(a) Authorizations are valid only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use shall constitute a violation. Violation of the authorization shall result in suspension or revocation of the grantee's use of the sovereignty submerged land unless cured to the satisfaction of the Board.

(b) Authorizations convey no title to sovereignty submerged land or water column, nor do they constitute recognition or acknowledgment of any other person's title to such land or water.

(c) Authorizations may be modified, suspended or revoked in accordance with their terms or the remedies provided in Sections 253.04 and 258.46, F.S., or Chapter 18-14, F.A.C.

(d) Structures or activities shall be constructed and used to avoid or minimize adverse impacts to sovereignty submerged lands and resources.

(e) Construction, use, or operation of the structure or activity shall not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

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(f) Structures or activities shall not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity shall be modified in accordance with the court's decision.

(g) Structures or activities shall not create a navigational hazard.

(h) Structures shall be maintained in a functional condition and shall be repaired or removed if they become dilapidated to such an extent that they are no longer functional. This shall not be construed to prohibit the repair or replacement subject to the provisions of Rule 18-21.005, F.A.C., within one year, of a structure damaged in a discrete event such as a storm, flood, accident, or fire.

(i) Structures or activities shall be constructed, operated, and maintained solely for water dependent purposes, or for non-water dependent activities authorized under Paragraph 18-21.004(1)(f), F.A.C., or any other applicable law.

Site Plans

Issued for Date Issued Latest Issue

60% Plans June 28, 2019 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



48 HOURS BEFORE YOU DIG CALL SUNSHINE -800-432-4770 T'S THE LAW IN FLORIDA FL. STATUE 553.851 (1979) REQUIRED MIN. OF 2 DAYS AND MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE



C1.01 C2.00 C2.01 C2.06 C3.01 C4.01 C5.01 C6.01



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

> Paul W. Yeargain, P.E. Florida License No. 50682

Notes

General Construction

- 1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND THE LOCAL, COUNTY, STATE AND FEDERAL SPECIFICATIONS AND STANDARDS, AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- 2. 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 ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
- 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.
- 7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
- 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.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
- 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 JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
- 12. ANY 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 KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO COMPLETION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH CONSTRUCTION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- 14. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL OF HIS EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE THE SAME.
- 15. LAY SOD AROUND LAKE SLOPES AND DREDGE MATERIAL TREATMENT AREA BERM SLOPES, AND AS DIRECTED BY THE ENGINEER FOR ANY AREAS DISTURBED BY CONSTRUCTION. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING WILL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED WHICHEVER COMES LAST. ALL EROSION SILTATION AND MAINTAINING GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THEN.
- 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 SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN THE AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO STAKEOUT.
- 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. DREDGING ACTIVITY WILL BE CONDUCTED IN DESIGNATED AREAS ONLY AND IN ACCORDANCE WITH THE PLANS AND 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 FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) 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 STABILIZATION 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.

4. 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

5. 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 REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

6. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS.

7. ALL CUT 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 DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

9. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.

10. 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, SEDIMENTATION OR TURBID DISCHARGES.

11. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY REGULATORY REPRESENTATIVES.

Maintenance

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. 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 REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.

3. SILT FENCES SHALL BE REPAIRED 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.

4. 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. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE (THIS DOES NOT APPLY 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 Control

- SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- THROUGHOUT ALL PHASES OF CONSTRUCTION.
- PERMITTING AGENCY OR OWNER.
- STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- OFFICE TRAILERS, AND TOILET FACILITIES.
- TREATED OR DISPOSED.
- AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- DRAINAGE DITCHES OR WATERS OF THE STATE.
- CONSTRUCTION HAS TEMPORARILY CEASED.
- SITE.
- REMOVED AS SOON AS POSSIBLE.

Demolition

- INSTALLED PRIOR TO ANY DEMOLITION.

Geotechnical

TABLE OF CONTENTS.

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

2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

3. 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

4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE

5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING

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 MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES,

8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY

9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED

11. RUBBISH, 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 DISCHARGE INTO

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

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 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.

15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE

16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE

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 PERMITTED 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.

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.

2. THE CONTRACTOR SHALL NOT REMOVE ANY STRUCTURES, DOCKS, SEAWALLS WITHIN THE PROJECT LIMITS, UNLESS SHOWN ON THE PLANS. IF THE PLANS ARE UNCLEAR REGARDING REMOVAL OR DEMOLITION, THEN IT IS CONTRACTORS RESPONSIBILITY TO IMMEDIATELY COORDINATE WITH THE OWNER AND ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING THESE ACTIVITIES.

3. THE CONTRACTOR SHALL REFER TO THE PLANS FOR GENERAL AREA DEMOLITION OF EXISTING TREES. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEER PRIOR TO ANY REMOVAL ACTIVITIES. TREE PROTECTION FENCING SHALL BE

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.

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



501 E Kennedy Boulevard 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

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

Not Approved for Construction

General Notes

Drawing Number



66277.01

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Dredge Material Summary Table

Area (SF) Volume (CY) 324,000± 26,200±

Notes

Dredge Construction

- TO THE ACCEPTABLE RANGE.

Standard Manatee Construction Conditions

- BLOCK MANATEE ENTRY TO OR EXIT FROM ESSENTIAL HABITAT.

- A DESIGNATED MANATEE OBSERVER DURING ALL IN-WATER WORK.

Survey Notes

- LISTED BELOW.

PID - AL7730	A CONCRETE MONUMENT
	STAMPED: "HERN 4H 1982 E
	ELEVATION = $40.37'$
PID - DN5951	AN ALUMINUM ROD WITH
	STAMPED: "20893 B 2011"
	ELEVATION = 15.53'
PID - DM3628	A STAINLESS STEEL ROD INS
	STAMPED: "X 685 2007"
	ELEVATION = 7.04 '
PID - DN5925	A FLORIDA DEPARTMENT O
	STAMPED: "P 750"
	ELEVATION = 15.98'

PID - AA8018	AN ALUMINUM DISC WITHIN A SLEEVE
	STAMPED: DC JOHNSTON & ASSOC SUR
PID - AA8019	AN ALUMINUM DISC IN A CONCRETE MO
	STAMPED: HOLLIN LP2000 1993
PID - AL7330	A FLORIDA DEPARTMENT OF NATURAL F
	STAMPED: CR 58 1977 CLB

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.

3. CHANGES TO THE CHANNEL SECTIONS AND SUBMERGED AQUATIC VEGETATION (SAV) HAVE LIKELY OCCURRED FROM THE TIME OF THE ORIGINAL SURVEY PERFORMED IN 2018 AND 2019. THE CONTRACTOR SHALL COORDINATE WITH OWNER AND ENGINEER, PRIOR TO CONSTRUCTION, IF THERE ARE SECTIONS WHICH ARE SUBSTANTIALLY DIFFERENT FROM THE PLANS.

4. ALL DREDGE ACTIVITY 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 WILL 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.

8. TURBIDITY CONTROL MEASURES WILL BE PROPERLY MAINTAINED IN COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY STANDARDS. IF TURBIDITY LEVELS EXCEED WATER QUALITY STANDARDS, DREDGING ACTIVITY WILL CEASE UNTIL LEVELS RETURN

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 SHALL REMAIN NAVIGABLE AT ALL TIMES AND SHALL NOT BE IMPEDED BY THE CONTRACTOR'S EQUIPMENT, APPURTENANCES OR VESSELS.

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 IN A TIMELY MANNER AT THE CONTRACTOR'S EXPENSE.

13. 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 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.

1. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING MANATEE PROTECTION CONSTRUCTION CONDITIONS:

2. THE CONTRACTOR SHALL INSTRUCT ALL PERSONNEL ASSOCIATED WITH THE PROJECT OF THE POTENTIAL PRESENCE OF MANATEES AND THE NEED TO AVOID COLLISIONS WITH MANATEES. ALL CONSTRUCTION PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF MANATEE(S).

3. THE CONTRACTOR SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MANATEE PROTECTION ACT OF 1972, THE ENDANGERED SPECIES ACT OF 1973, AND THE FLORIDA MANATEE SANCTUARY ACT. THE CONTRACTOR MAY BE HELD RESPONSIBLE FOR ANY MANATEE HARMED, HARASSED, OR KILLED AS A RESULT OF CONSTRUCTION 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 MONITORED TO AVOID MANATEE ENTRAPMENT. BARRIERS SHALL NOT

5. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT NO WAKE/IDLE 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 BOTTOM. ALL VESSELS SHALL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.

6. IF MANATEE(S) ARE SEEN WITHIN 100 YARDS OF THE ACTIVE DAILY CONSTRUCTION/DREDGING OPERATION OR VESSEL MOVEMENT, ALL APPROPRIATE PRECAUTIONS SHALL BE IMPLEMENTED TO ENSURE PROTECTION OF THE MANATEE. THESE PRECAUTIONS SHALL INCLUDE THE OPERATION OF ALL MOVING EQUIPMENT NO CLOSER THAN 30 FEET OF A MANATEE. OPERATION OF ANY EQUIPMENT CLOSER THAN 50 FEET TO A MANATEE SHALL NECESSITATE IMMEDIATE SHUTDOWN OF THAT EQUIPMENT. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS DEPARTED THE PROJECT AREA OF ITS OWN VOLITION.

7. ANY COLLISION WITH AND/OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE MANATEE HOTLINE AT 1-888-404-FWCC. COLLISION AND OR/INJURY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSONVILLE (1-904-232-2580 FOR NORTH FLORIDA OR VERO BEACH (1-772-562-3909) IN SOUTH FLORIDA.

8. TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO AND DURING ALL CONSTRUCTION/DREDGING ACTIVITIES. ALL SIGNS ARE TO BE REMOVED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT. A SIGN MEASURING AT LEAST 3 FT. BY 4 FT. WHICH READS CAUTION: MANATEE AREA WILL BE POSTED IN A LOCATION PROMINENTLY VISIBLE TO WATER RELATED CONSTRUCTION CREWS. A SECOND SIGN SHOULD BE POSTED IF VESSELS ARE ASSOCIATED WITH THE CONSTRUCTION AND SHOULD BE PLACED VISIBLE TO THE VESSEL OPERATOR. THE SECOND SIGN SHOULD BE AT LEAST 8-1/2 BY 11 WHICH READS CAUTION: MANATEE HABITAT. IDLE SPEED IS REQUIRED IF OPERATING A VESSEL IN THE CONSTRUCTION AREA. ALL EQUIPMENT MUST BE SHUT DOWN IF A MANATEE COMES WITHIN 50 FEET OF OPERATION. ANY COLLISION WITH AND/OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE FWC HOTLINE AT 1-888-404-FWCC. THE U.S. FISH AND WILDLIFE SERVICE SHOULD ALSO BE CONTACTED IN JACKSONVILLE (1-904-232-2580) FOR NORTH FLORIDA OR VERO BEACH (1-772-562-3909) IN SOUTH FLORIDA.

9. THE PROJECT IS LOCATED WITHIN A DESIGNATED IMPORTANT MANATEE AREA. AS SUCH, THE CONTRACTOR WILL NEED TO EMPLOY

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

3. NO UNDERGROUND UTILITIES, OR FOUNDATIONS HAVE BEEN LOCATED, EXCEPT FOR THE VISIBLE EDGE OF SEA WALL FOOTINGS.

4. ELEVATIONS SHOWN HEREON ARE BASED WITHIN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SEVEN MAIN CONTROL POINTS WERE ESTABLISHED ALONG THE RIVER CORRIDOR. CLOSED LOOP LEVEL RUNS WERE RUN TO EACH OF THE MAIN CONTROL POINTS FROM VARIOUS NATIONAL GEODETIC SURVEY (NGS) MONUMENTS. THE COMBINED LEVEL OF ACCURACY FOR EACH LEVEL RUN RELATES TO SECOND-ORDER CLASS II, AS BASED ON LOOP MISCLOSURES, WITH AN ALLOWABLE TOLERANCE OF 8MM, PER THE FEDERAL GEODETIC CONTROL COMMITTEE, STANDARDS AND SPECIFICATIONS FOR GEODETIC CONTROL NETWORKS. SEE THE TWA NO. 18TW0001159 WEEKI WACHEE RIVER CHANNEL RESTORATION SURVEYORS REPORT FOR A FULL DESCRIPTION OF THE PROCESS. THE FOLLOWING CONTROL POINTS WERE USED TO ESTABLISH THE VERTICAL DATUM FOR THE PROJECT:

> IUMENT WITH A FLORIDA DEPARTMENT OF NATURAL RESOURCES DISC 4H 1982 BSM"

> DD WITH A SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT DISC

L ROD INSIDE A NATIONAL GEODETIC SURVEY SLEEVE CAP

TMENT OF TRANSPORTATION DISC SET IN A CONCRETE BRIDGE WALL

5. THE DISPLAYED GRAPHICS ARE BASED WITHIN THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD83/2011), PROJECTED TO FLORIDA'S STATE PLANE COORDINATE SYSTEM, WEST ZONE. CONTROL MONUMENTS WERE ESTABLISHED ALONG THE CORRIDOR AND A STATIC G.N.S.S. NETWORK WAS PERFORMED HOLDING SURROUNDING NGS MONUMENTS. PER THE FEDERAL GEOGRAPHIC DATA COMMITTEE, STANDARDS FOR GEODETIC NETWORKS, THE CONTROL NETWORK IS LESS THAN OR EQUAL TO THE 1-CENTIMETER ACCURACY CLASSIFICATION AT 95% CONFIDENCE LEVEL. SEE THE TWA NO. 18TW0001159 WEEKI WACHEE RIVER CHANNEL RESTORATION SURVEYORS REPORT FOR A FULL DESCRIPTION OF THE PROCESS. THE FOLLOWING CONTROL POINTS WERE USED TO ESTABLISH THE HORIZONTAL DATUM FOR THE PROJECT:

INSTON & ASSOC SURVEY MONUMENT

ISC IN A CONCRETE MONUMENT

J LP2000 1993 TMENT OF NATURAL RESOURCES DISC WITHIN A SLEEVE

1977 CLB

6. IN CONJUNCTION WITH THE TOPOGRAPHIC SURVEY A MEAN HIGH WATER LINE STUDY WAS PERFORMED AND WAS APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (NOTICE OF TIDAL WATER SURVEY FILING NO. 7122). THIS SURVEY WAS ESTABLISHED UTILIZING THE AMPLITUDE RATIO METHOD. UTILIZING THE TIDE CONTROL STATION 872-7151 AND IS BASED ON THE 1983-2001 NATIONAL TIDAL DATUM EPOCH. THE MEAN HIGH WATER STUDY RESULTED IN A PUBLISHED: MEAN HIGH WATER ELEVATION OF 0.96' AND A PUBLISHED MEAN LOW WATER ELEVATION OF -1.36'. ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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



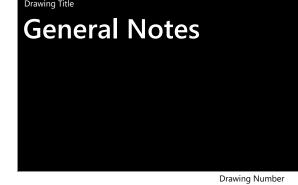
501 E Kennedy Boulevard Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932

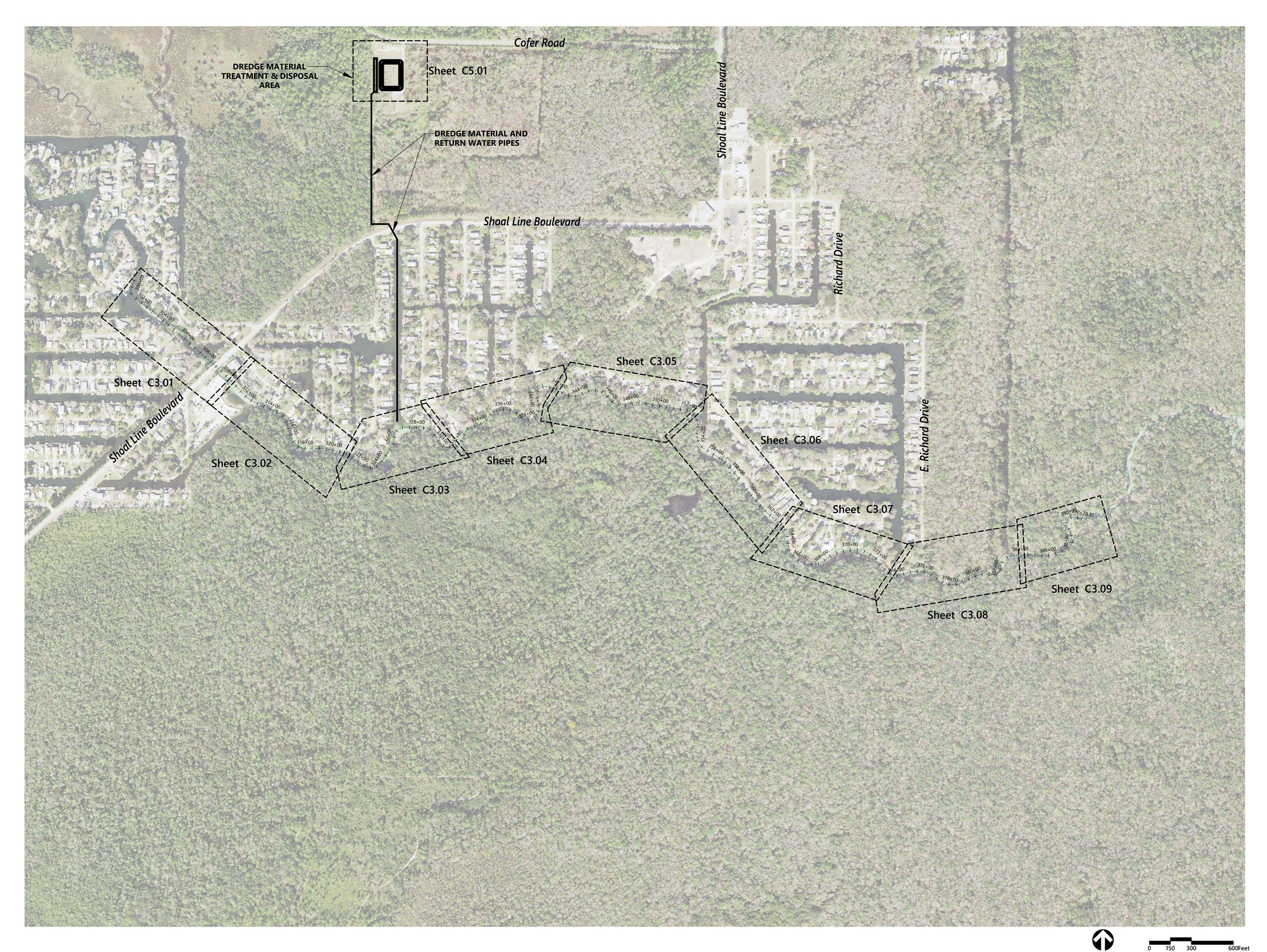
Weeki Wachee River

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

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

Not Approved for Construction







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	ed by	Checked by	
Issued		Date	
60 °	% Plans	June 28	, 2019

Not Approved for Construction

Overall Plan

Drawing Number









Weeki Wachee River

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

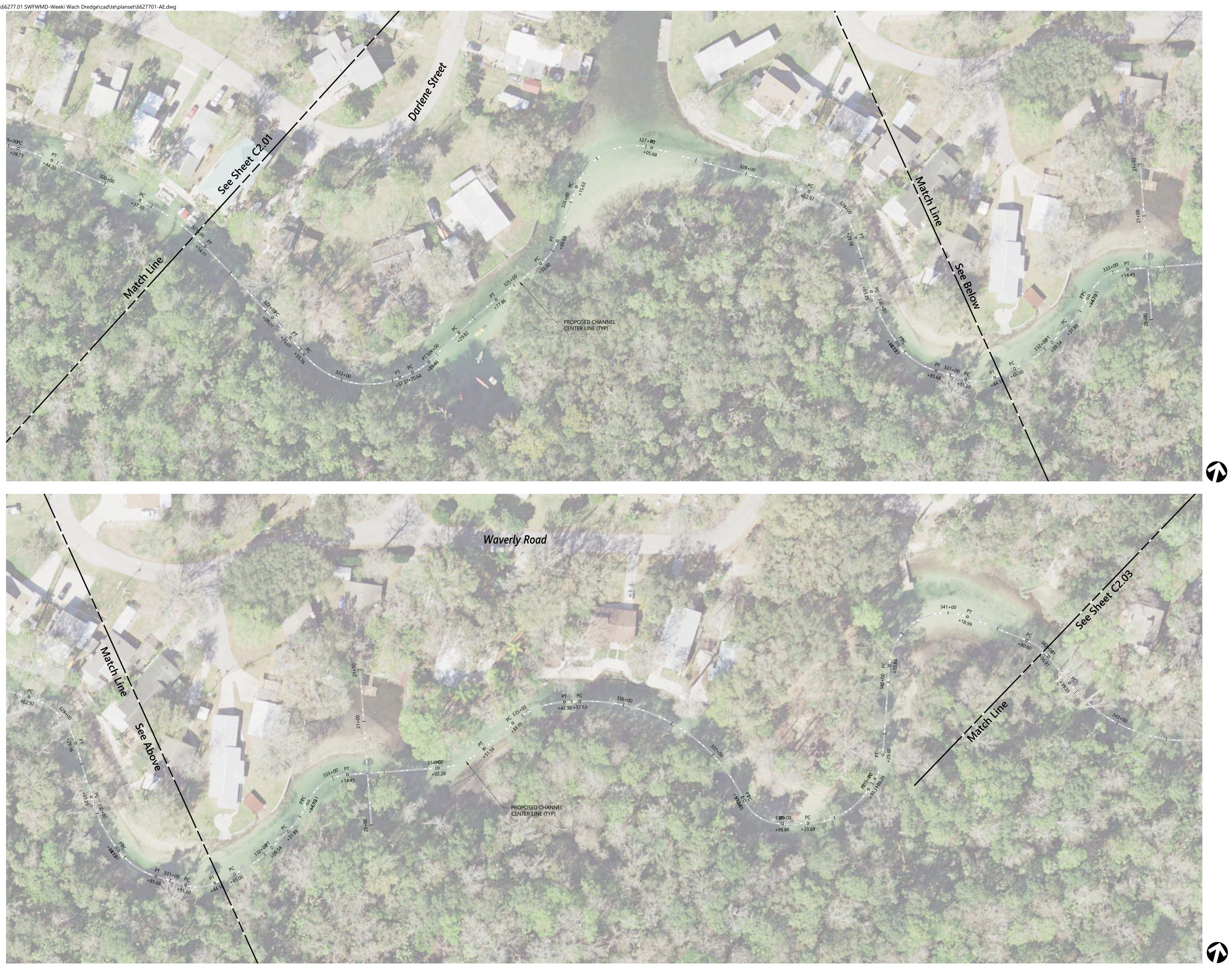
No.	Revision	Date	Appvd.
1	SFWMD Comments	08/02/19	GMS
Design	ned by	Checked by	
Issued	for	Date	
60	% Plans	June 28	s, 2019

Not Approved for Construction

Aerial Plan

Drawing Number









Weeki Wachee River

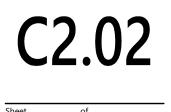
Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

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

Not Approved for Construction

Aerial Plan

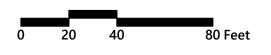
Drawing Number











Weeki Wachee River

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

No.	Revision	Date	Appvd.
1	SFWMD Comments	08/02/19	GMS
Designe	ed by	Checked by	
Issued f	for	Date	
609	% Plans	June 28	, 2019

Not Approved for Construction

Aerial Plan

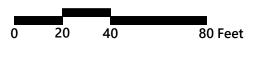
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Drawing Number









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	s, 2019

Not Approved for Construction

Aerial Plan

Drawing Number









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	ed by	Checked by	
Issued	for	Date	
60	% Plans	June 28	3, 2019

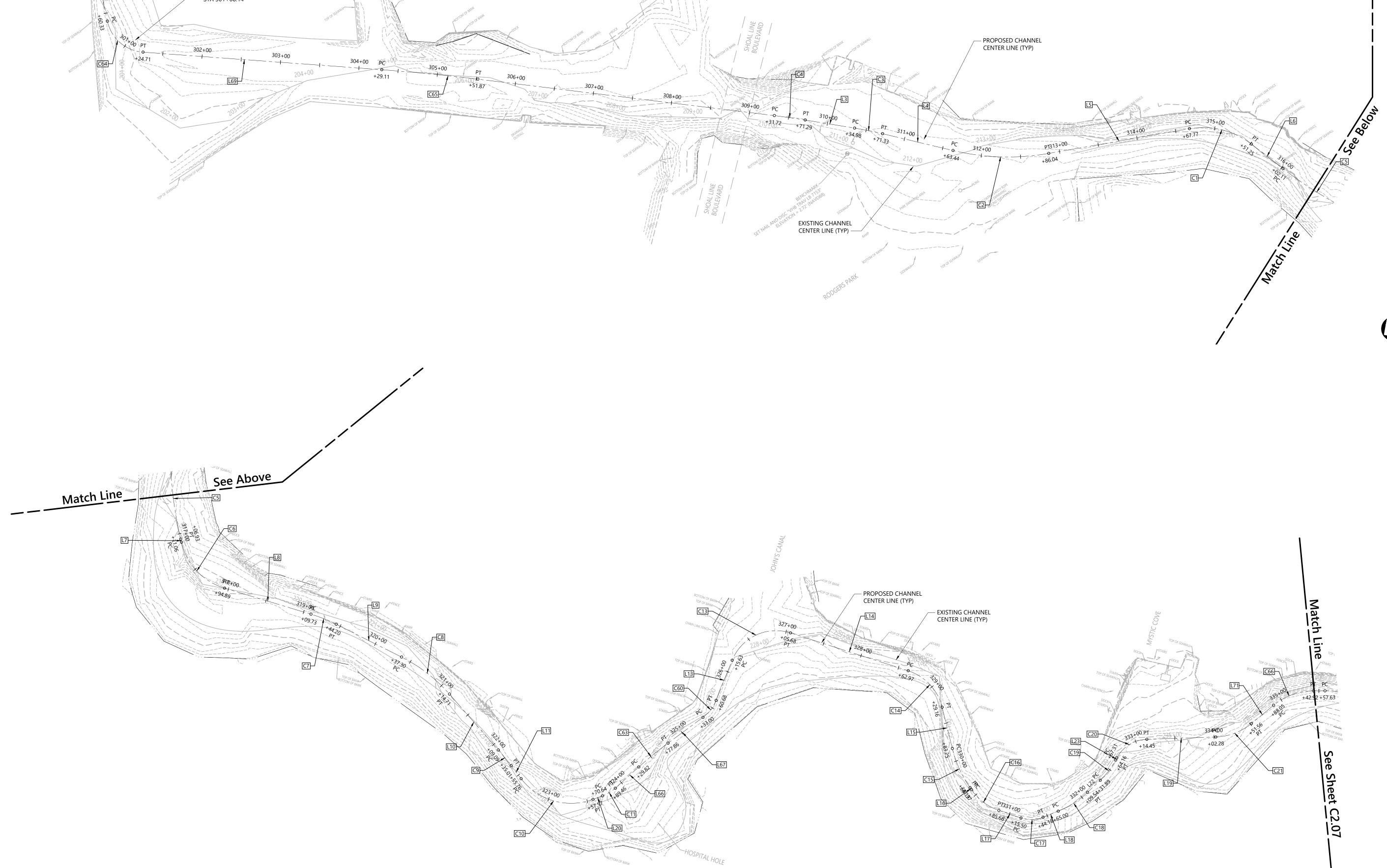
Not Approved for Construction

Aerial Plan

Drawing Number









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

Notes

1. FOR CENTER LINE INFORMATION SEE SHEET C2.08

Weeki Wachee River

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

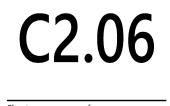
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Designe	ed by	Checked by	
Issued f	for	Date	
609	% Plans	June 28	8, 2019

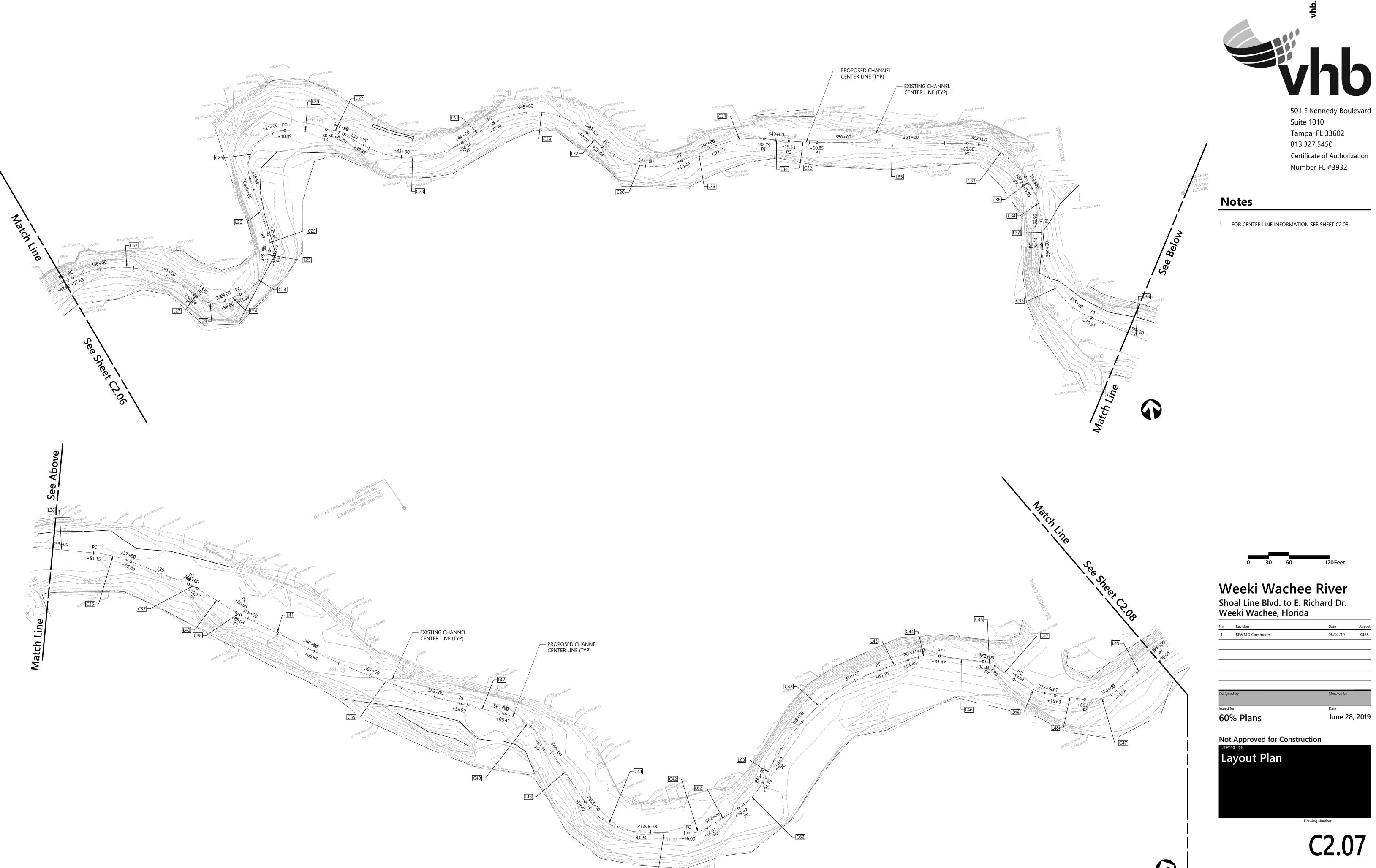
Not Approved for Construction

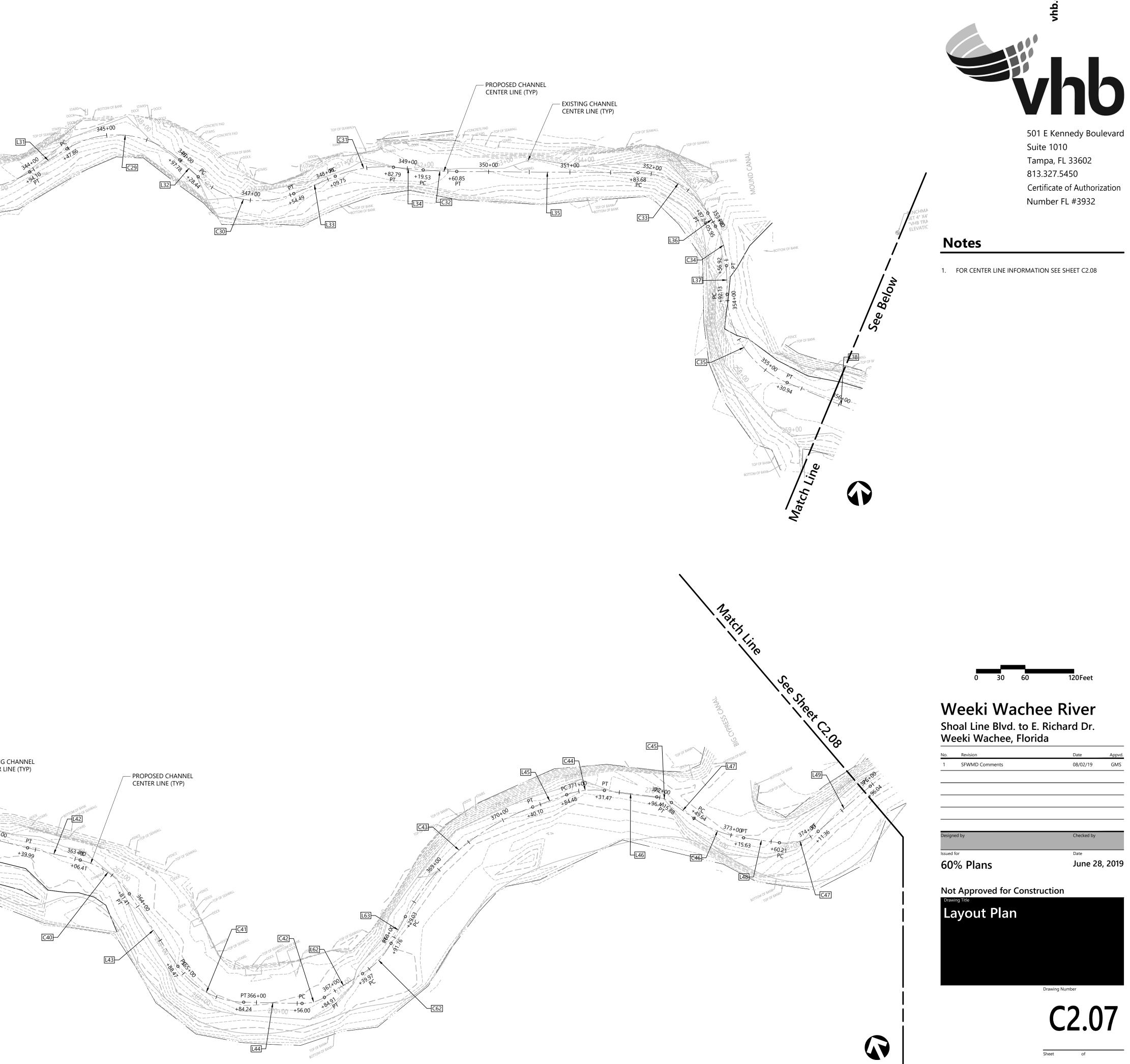
Layout Plan

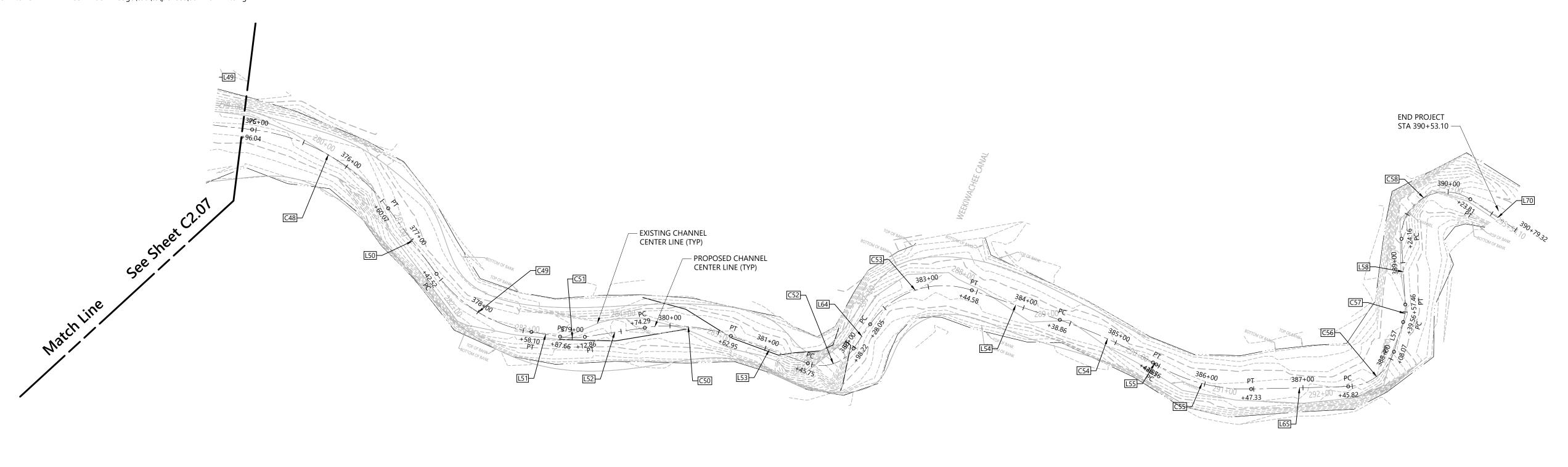
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Drawing Number









Alignment Line and Curve Data

	9										g														
No.	Delta	Radius	Length	Bearing	Ch. Dist.	Start Northing	Start Easting	End Northing	End Easting	No.	Delta	Radius	Length	Bearing	Ch. Dist.	Start Northing	Start Easting	End Northing	End Easting	No.	Delta	Radius	Length	Bearing	Ch. Dist. S
L68			60.33'	S22°31'36"W		1527430.32	454216.49	1527374.59	454193.38	L23			3.15'	N11°41'14"E		1526342.56	456579.74	1526345.64	456580.38	L43			107.06'	S08°15'55"E	
C64	073°46'20"	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"	100.00'	95.77'	S35°42'02"E	92.15'
L69			304.40'	S51°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	L44			71.77'	S63°08'09"E	
C65	002°48'49"	2500.00'	122.76'	S49°50'20"E	122.75'	1527125.89	454445.64	1527046.73	454539.45	C21	037°38'42"	75.00'	49.28'	N52°53'08"E	48.40'	1526406.82	456693.71	1526436.02	456732.31	C42	033°07'18"	50.00'	28.90'	S79°41'48"E	28.50'
C4	002°16'01"	1000.00'	39.56'	S47°17'55"E	39.56'	1526794.69	454823.65	1526767.86	454852.72	L71			36.49'	N34°03'47"E		1526436.02	456732.31	1526466.25	456752.75	L62			55.06'	N83°44'33"E	
L3			63.69'	S46°09'55"E		1526767.86	454852.72	1526723.75	454898.66	C66	039°17'51"	80.00'	54.87'	N53°42'42"E	53.80'	1526466.25	456752.75	1526498.10	456796.11	C62	029°40'24"	100.00'	51.79'	N68°54'21"E	51.21'
C3	004°09'55"	500.00'	36.35'	S44°04'57"E	36.34'	1526723.75	454898.66	1526697.65	454923.94	C67	066°04'57"	167.00'	192.61'	S73°35'54"E	182.11'	1526502.31	456810.21	1526450.89	456984.91	L63			37.27'	N54°04'09"E	
L4			92.11'	S42°00'00"E		1526697.65	454923.94	1526629.20	454985.58	L27			3.60'	S40°33'25"E		1526450.89	456984.91	1526448.15	456987.25	C43	041°42'06"	290.00'	211.07'	N74°55'12"E	206.44'
C2	023°24'58"	300.00'	122.61'	S53°42'29"E	121.75'	1526629.20	454985.58	1526557.13	455083.71	C23	064°28'31"	40.00'	45.01'	S72°47'41"E	42.67'	1526448.15	456987.25	1526435.53	457028.02	L45			44.38'	S84°13'45"E	
L5			181.73'	S65°24'58"E		1526557.13	455083.71	1526481.52	455248.97	L24			24.83'	N74°58'04"E		1526435.53	457028.02	1526441.97	457052.00	C44	026°55'15"	100.00'	46.99'	S70°46'07"E	46.55'
C1	047°49'49"	100.00'	83.48'	S41°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'	S57°18'30"E	
L6			50.86'	S17°35'08"E		1526420.80	455302.70	1526372.32	455318.06	L25			11.96'	N17°59'00"E		1526487.96	457100.42	1526499.33	457104.11	C45	027°53'16"	40.00'	19.47'	S43°21'52"E	19.28'
C5	012°00'38"	500.00'	104.81'	S23°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	457105.81	L47			33.76'	S29°25'14"E	
L7			4.13'	S29°35'47"E		1526276.44	455359.93	1526272.85	455361.97	L26			86.24'	N09°53'57"W		1526523.36	457105.81	1526608.32	457090.98	C46	027°00'28"	140.00'	65.99'	S42°55'28"E	65.38'
C6	060°02'13"	80.00'	83.83'	S59°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	L48			44.58'	S56°25'42"E	
L8			114.84'	S89°38'00"E		1526232.36	455431.02	1526231.62	455545.86	L29			61.61'	S82°26'21"E		1526672.30	457152.40	1526664.19	457213.47	C47	048°50'16"	60.00'	51.14'	S80°50'50"E	49.61'
C7	009°52'32"	200.00'	34.47'	S84°41'44"E	34.43'	1526231.62	455545.86	1526228.44	455580.14	C27	030°09'06"	50.00'	26.31'	S67°21'48"E	26.01'	1526664.19	457213.47	1526654.18	457237.48	L49			84.69'	N74°44'02"E	
L9			93.10'	S79°45'28"E		1526228.44	455580.14	1526211.89	455671.75	L30			32.44'	S52°17'15"E		1526654.18	457237.48	1526634.34	457263.14	C48	046°59'25"	200.00'	164.03'	S81°46'16"E	159.47'
C8	022°10'41"	200.00'	77.42'	S68°40'08"E	76.93'	1526211.89	455671.75	1526183.90	455743.42	C28	061°08'48"	145.00'	154.75'	S82°51'39"E	147.51'	1526634.34	457263.14	1526616.01	457409.50	L50			82.45'	S58°16'33"E	
L10			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'	S80°21'02"E	112.74'
C9	003°42'45"	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'	S76°05'18"E	139.52'	1526637.39	457458.84	1526603.85	457594.27	L51			29.56'	N77°34'29"E	
L11			20.75'	S53°52'02"E		1526118.71	455844.50	1526106.47	455861.26	L32			30.66'	S38°44'32"E		1526603.85	457594.27	1526579.93	457613.46	C51	018°02'51"	80.00'	25.20'	N68°33'03"E	25.10'
C10	072°54'52"	80.00'	101.81'	N89°40'32"E	95.08'	1526106.47	455861.26	1526107.01	455956.33	C30	065°39'18"	110.00'	126.05'	S71°34'11"E	119.26'	1526579.93	457613.46	1526542.23	457726.60	L52			61.43'	N59°31'38"E	
L20			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'
C11	021°33'57"	50.00'	18.82'	N42°26'08"E	18.71'	1526114.84	455966.80	1526128.65	455979.42	C31	027°53'57"	150.00'	73.04'	N89°33'08"E	72.32'	1526555.97	457780.13	1526556.53	457852.45	L53			82.81'	N87°44'49"E	
L66			40.36'	N31°39'09"E		1526128.65	455979.42	1526163.00	456000.60	L34			36.74'	S76°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'
C63	005°30'21"	500.00'	48.05'	N34°24'20"E	48.03'	1526163.00	456000.60	1526202.63	456027.74	C32	004°44'07"	500.00'	41.32'	S78°51'57"E	41.31'	1526547.96	457888.17	1526539.98	457928.70	L64			29.83'	N12°35'24"E	
L67			55.14'	N37°09'30"E		1526202.63	456027.74	1526246.57	456061.05	L35			222.82'	S81°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'
C60	031°43'06"	50.00'	27.68'	N21°17'58"E	27.33'	1526246.57	456061.05	1526272.03	456070.97	C33	059°20'14"	100.00'	103.56'	S51°33'54"E	99.00'	1526506.02	458148.93	1526444.48	458226.47	L54			94.28'	N86°46'42"E	
L13			54.95'	N05°26'25"E		1526272.03	456070.97	1526326.74	456076.18	L36			18.71'	S21°53'47"E		1526444.48	458226.47	1526427.12	458233.45	C54	011°54'59"	500.00'	103.99'	S87°15'48"E	103.80'
C13	085°59'03"	60.00'	90.04'	N48°25'56"E	81.83'	1526326.74	456076.18	1526381.03	456137.40	C34	029°12'32"	100.00'	50.98'	S07°17'31"E	50.43'	1526427.12	458233.45	1526377.10	458239.85	L55			3.91'	S81°18'19"E	
L14			157.29'	S88°34'32"E		1526381.03	456137.40	1526377.12	456294.65	L37			35.21'	S07°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'
C14	058°20'51"	65.00'	66.19'	S59°24'07"E	63.37'	1526377.12	456294.65	1526344.87	456349.19	C35	066°16'38"	120.00'	138.81'	S25°49'34"E	131.20'	1526342.18	458235.37	1526224.09	458292.52	L65			98.49'	N66°40'59"E	
L15			54.09'	S30°13'41"E		1526344.87	456349.19	1526298.13	456376.42	L38			120.21'	S58°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'
C15	020°59'09"	150.00'	54.94'	S40°43'16"E	54.63'	1526298.13	456376.42	1526256.72	456412.07	C36	015°57'12"	200.00'	55.69'	S50°59'17"E	55.51'	1526162.11	458395.53	1526127.17	458438.66	L57			31.48'	N04°39'01"W	
L16			3.18'	S51°12'50"E		1526256.72	456412.07	1526254.73	456414.54	L39			91.55'	S43°00'42"E		1526127.17	458438.66	1526060.22	458501.11	C57	020°30'51"	50.00'	17.90'	N14°54'27"W	17.81'
C16	036°15'54"	70.00'	44.31'	S69°20'47"E	43.57'	1526254.73	456414.54	1526239.36	456455.31	C37	010°17'47"	80.00'	14.38'	S37°51'48"E	14.36'	1526060.22	458501.11	1526048.89	458509.92	L58			66.70'	N25°09'52"W	
L17			29.82'	S87°28'44"E		1526239.36	456455.31	1526238.05	456485.11	L40			67.89'	S32°42'55"E		1526048.89	458509.92	1525991.77	458546.62	C58	126°52'57"	45.00'	99.65'	N38°16'36"E	80.50'
C17	041°04'30"	40.00'	28.68'	N71°59'01"E	28.07'	1526238.05	456485.11	1526246.73	456511.80	C38	005°16'38"	80.00'	7.37'	S35°21'14"E	7.37'	1525991.77	458546.62	1525985.76	458550.88	L70			55.51'	S78°16'55"E	
L18			20.82'	N51°26'46"E		1526246.73	456511.80	1526259.71	456528.08	L41			120.82'	S37°59'33"E		1525985.76	458550.88	1525890.54	458625.25						
C18	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'	S44°36'51"E	230.63'	1525890.54	458625.25	1525726.37	458787.22						
L22			22.35'	N30°10'35"E		1526293.23	456557.03	1526312.55	456568.26	L42			66.43'	S51°14'09"E		1525726.37	458787.22	1525684.78	458839.02						
C19	018°29'21"	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'	S29°45'02"E	73.25'	1525684.78	458839.02	1525621.18	458875.37						

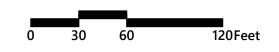
Alignment Line and Curve Data

Alignment Line and Curve Data



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

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	1525621.18	458875.37	1525515.24	458890.76
	1525515.24	458890.76	1525440.41	458944.53
	1525440.41	458944.53	1525407.98	459008.55
	1525407.98	459008.55	1525402.88	459036.60
	1525402.88	459036.60	1525408.88	459091.33
	1525408.88	459091.33	1525427.31	459139.11
	1525427.31	459139.11	1525449.18	459169.29
	1525449.18	459169.29	1525502.89	459368.63
	1525502.89	459368.63	1525498.43	459412.78
	1525498.43	459412.78	1525483.10	459456.74
	1525483.10	459456.74	1525448.02	459511.39
	1525448.02	459511.39	1525434.01	459524.63
	1525434.01	459524.63	1525404.60	459541.21
	1525404.60	459541.21	1525356.72	459585.74
	1525356.72	459585.74	1525332.07	459622.89
	1525332.07	459622.89	1525324.18	459671.86
	1525324.18	459671.86	1525346.48	459753.56
	1525346.48	459753.56	1525323.65	459911.39
	1525323.65	459911.39	1525280.30	459981.52
	1525280.30	459981.52	1525261.40	460092.67
	1525261.40	460092.67	1525267.76	460121.54
	1525267.76	460121.54	1525276.94	460144.89
	1525276.94	460144.89	1525308.09	460197.84
	1525308.09	460197.84	1525332.82	460282.04
	1525332.82	460282.04	1525336.07	460364.79
	1525336.07	460364.79	1525367.32	460402.25
	1525367.32	460402.25	1525396.43	460408.75
	1525396.43	460408.75	1525466.67	460491.53
	1525466.67	460491.53	1525471.97	460585.66
	1525471.97	460585.66	1525467.02	460689.35
	1525467.02	460689.35	1525466.42	460693.21
	1525466.42	460693.21	1525479.06	460791.67
	1525479.06	460791.67	1525518.04	460882.12
	1525518.04	460882.12	1525568.01	460912.16
	1525568.01	460912.16	1525599.39	460909.61
	1525599.39	460909.61	1525616.60	460905.03
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Weeki Wachee River

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

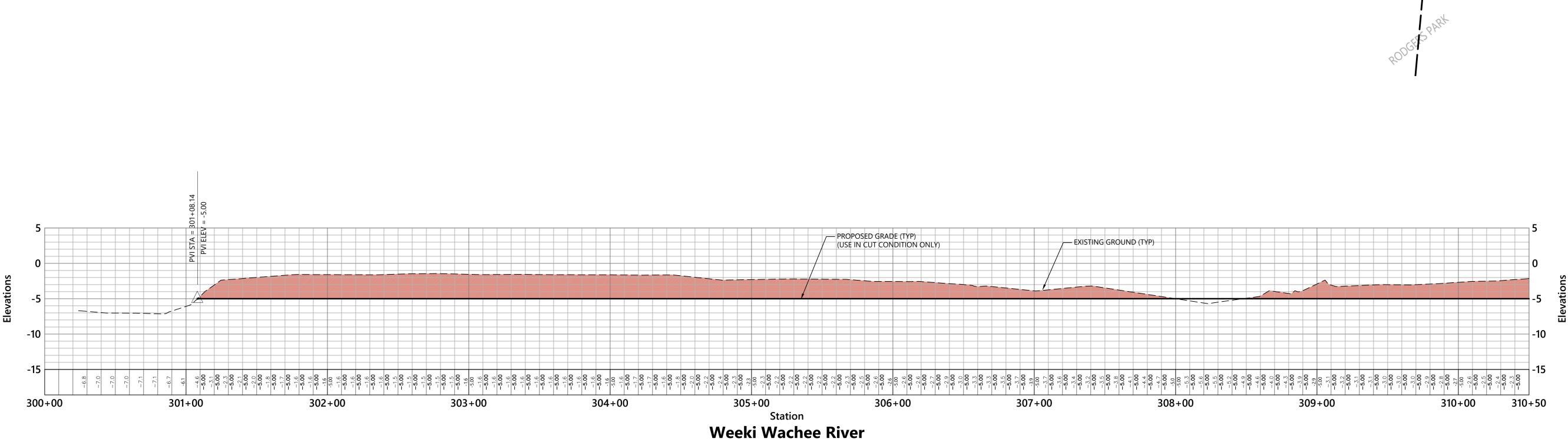
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Layout Plan

Drawing Number



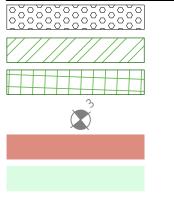




É.T 305+00 -5 -4 -3 -2 307+00 206+00+51.87 EXISTING CHANNEL PROPOSED CHANNEL
CENTER LINE (TYP)







SAND DEPOSITION AREA NUISANCE / EXOTIC VEGETATION NATIVE / MIXED VEGETATION SOILS SAMPLE TEXT LOCATION

PROPOSED DREDGING AREA OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

ALL DEPTH / ELEVATIONS SHOWN HAVE BEEN ADJUSTED TO MLW MLW = -1.36 FROM ORIGINAL SURVEYED ELEVATION



Weeki Wachee River

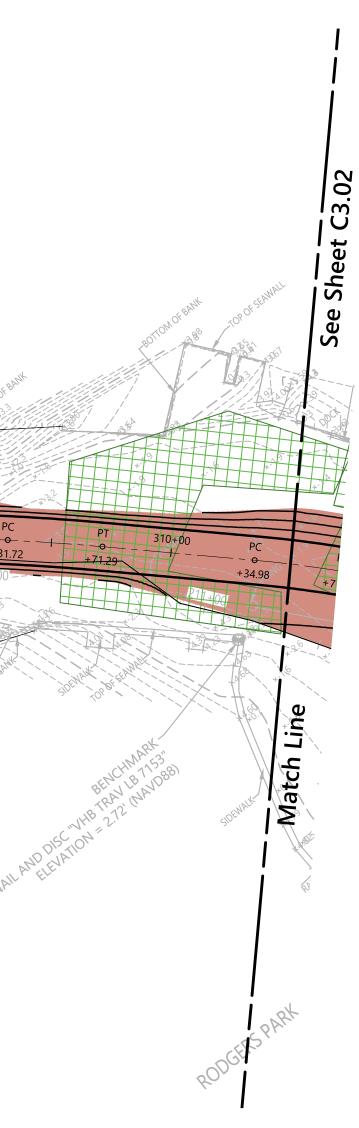
Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

60	% Plans	June 28	, 2019
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1	SFWMD Comments	08/02/19	GMS
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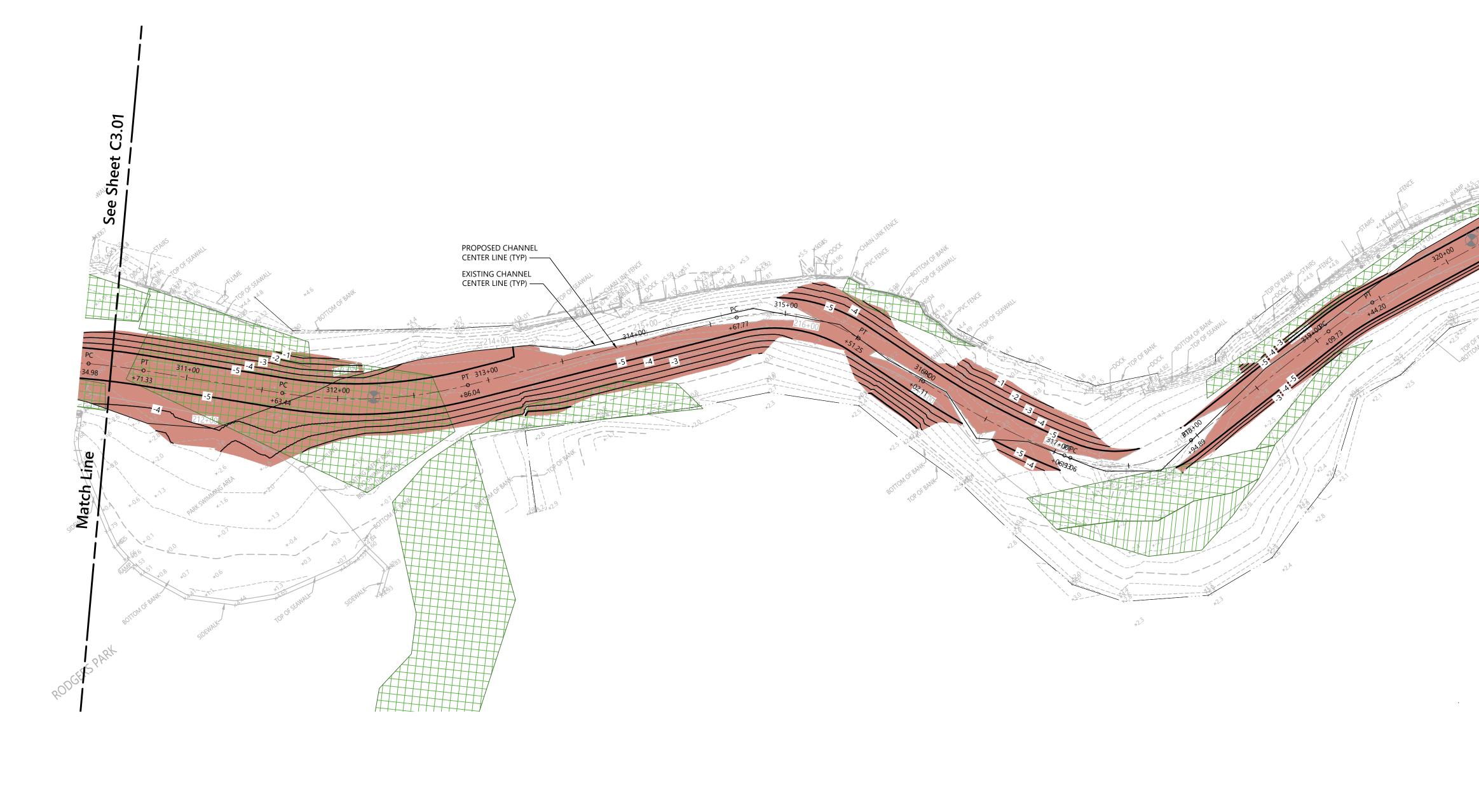


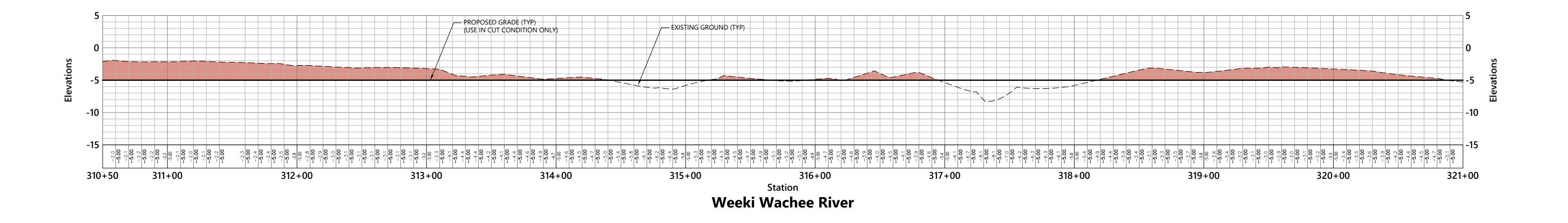
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Deposition Area 1 (See Sheet C3.10)









Legend

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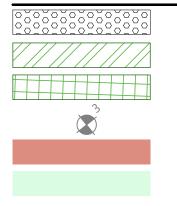
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SAND DEPOSITION AREA

NUISANCE / EXOTIC VEGETATION

SOILS SAMPLE TEXT LOCATION

PROPOSED DREDGING AREA

OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

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Weeki Wachee River

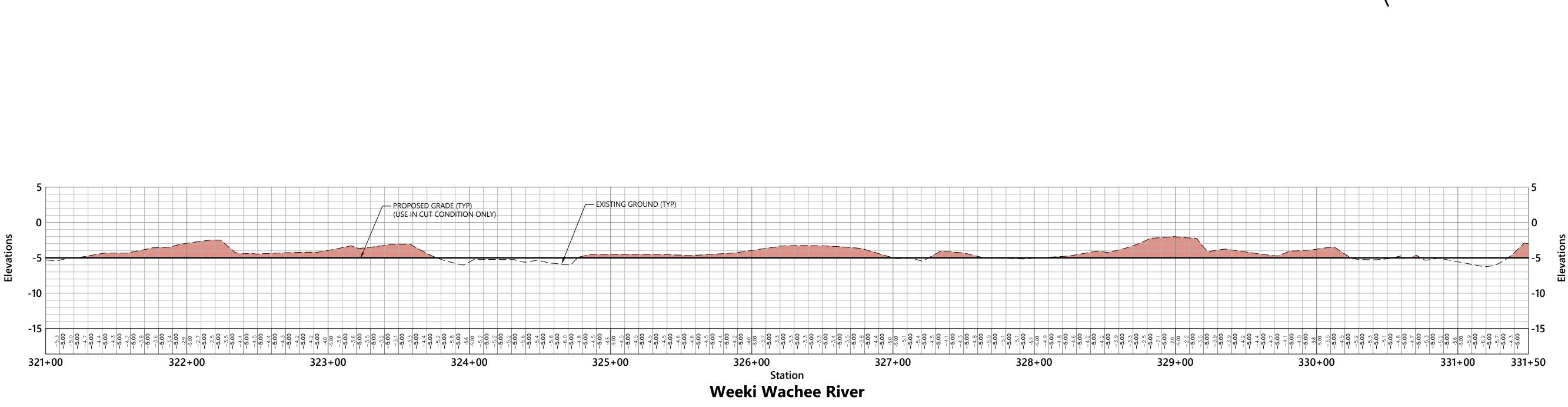
Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

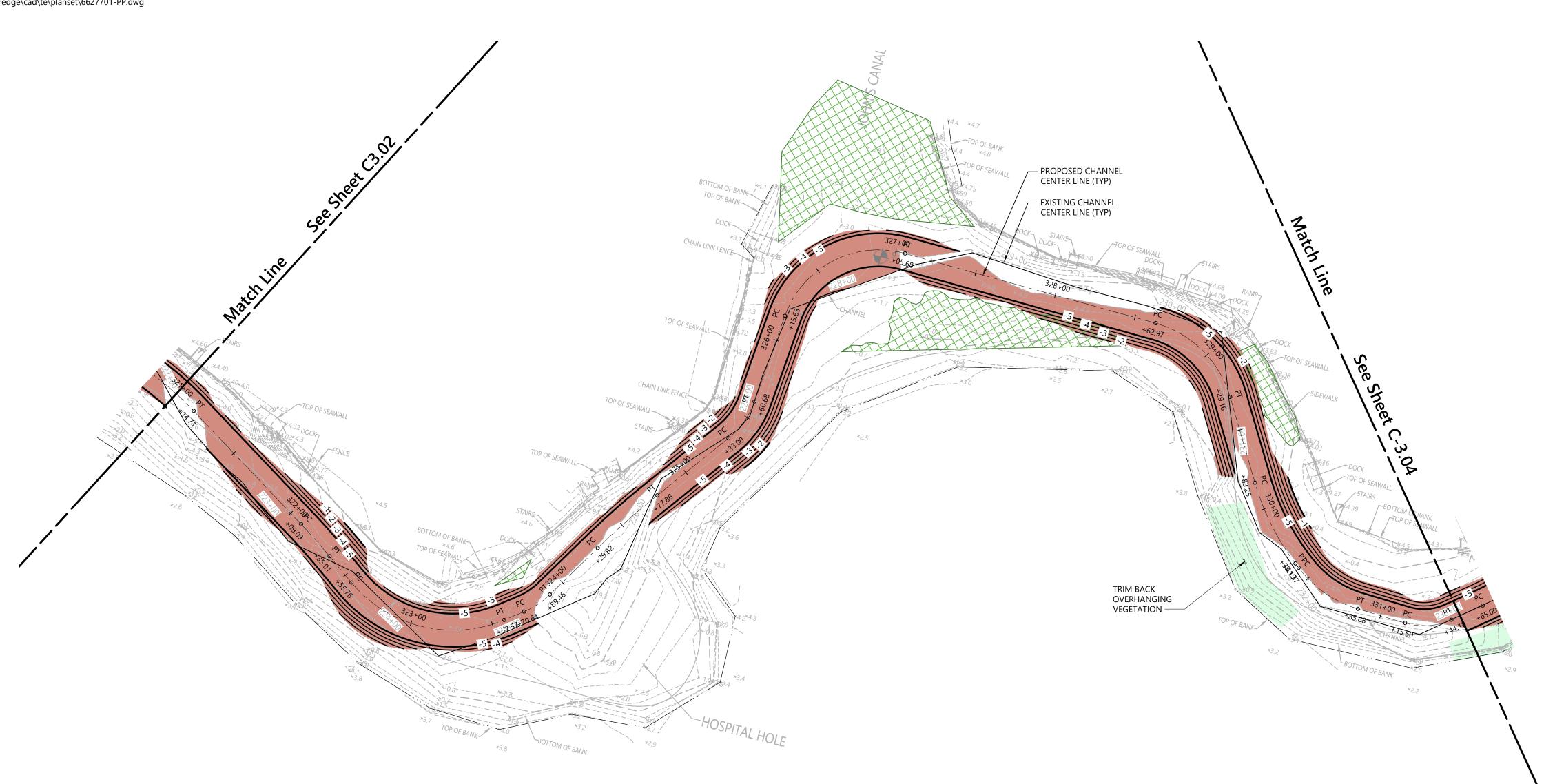
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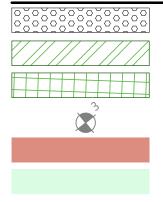












SAND DEPOSITION AREA NUISANCE / EXOTIC VEGETATION NATIVE / MIXED VEGETATION

SOILS SAMPLE TEXT LOCATION

PROPOSED DREDGING AREA

OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

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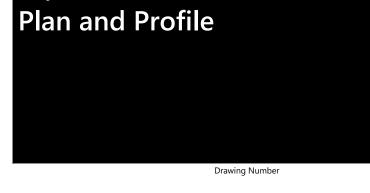


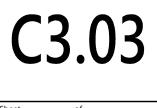
Weeki Wachee River

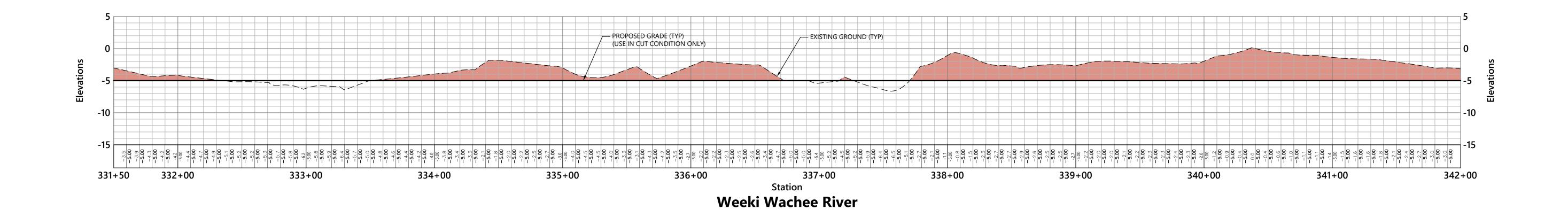
Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

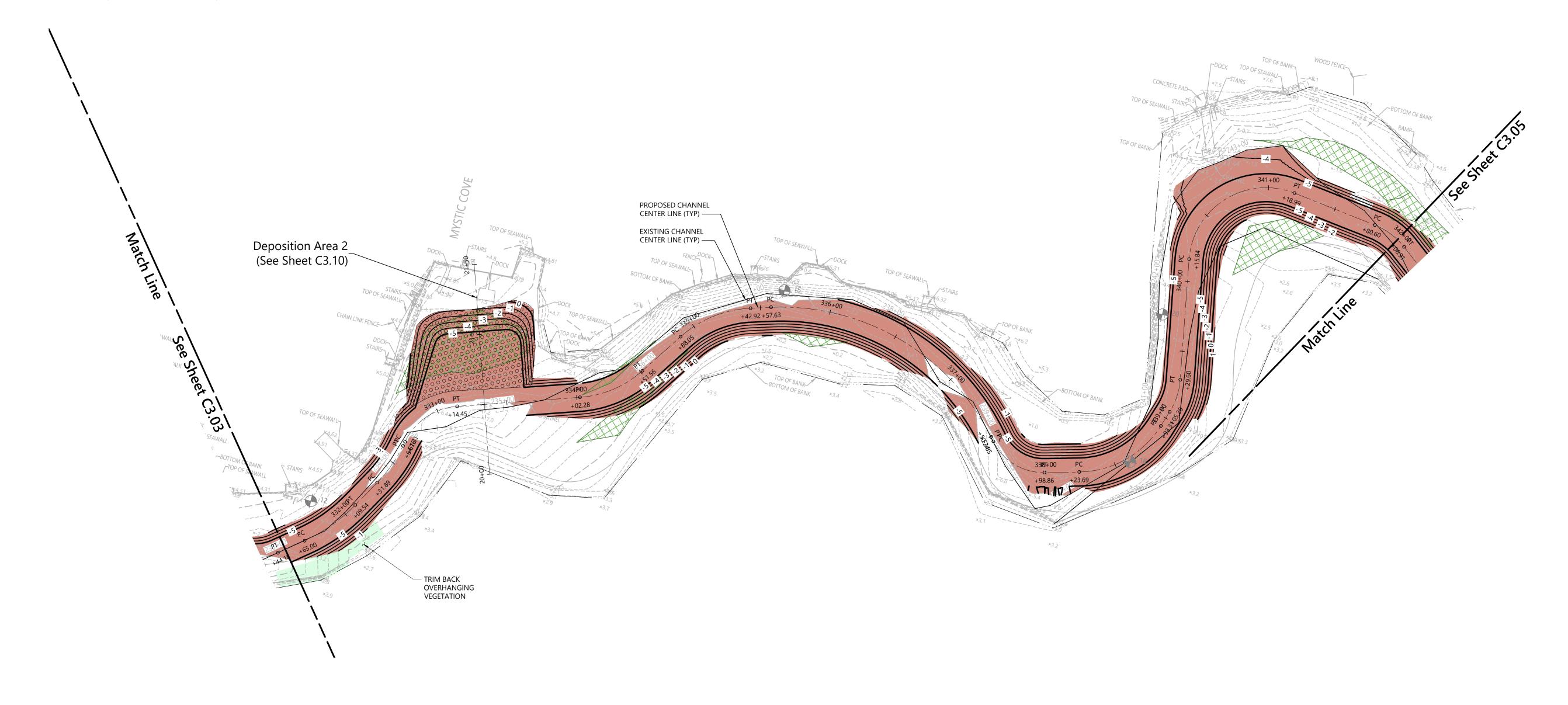
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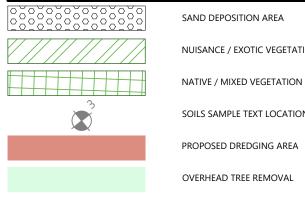










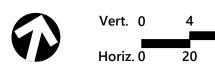


SAND DEPOSITION AREA NUISANCE / EXOTIC VEGETATION NATIVE / MIXED VEGETATION SOILS SAMPLE TEXT LOCATION

OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

ALL DEPTH / ELEVATIONS SHOWN HAVE BEEN ADJUSTED TO MLW MLW = -1.36 FROM ORIGINAL SURVEYED ELEVATION





Weeki Wachee River

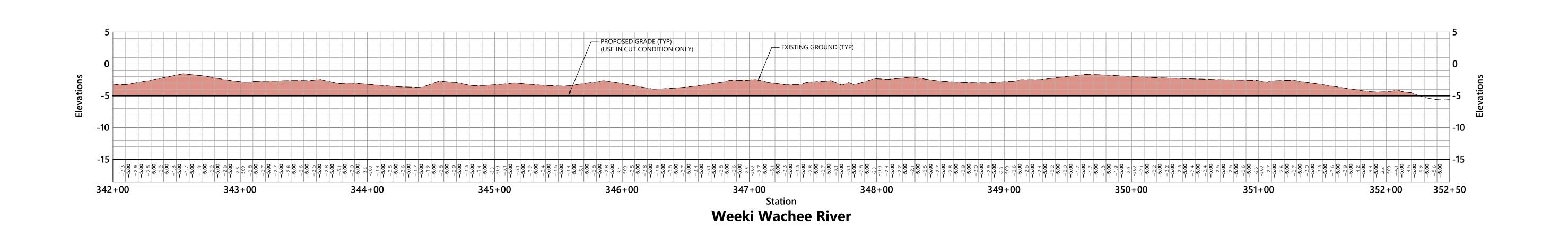
Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

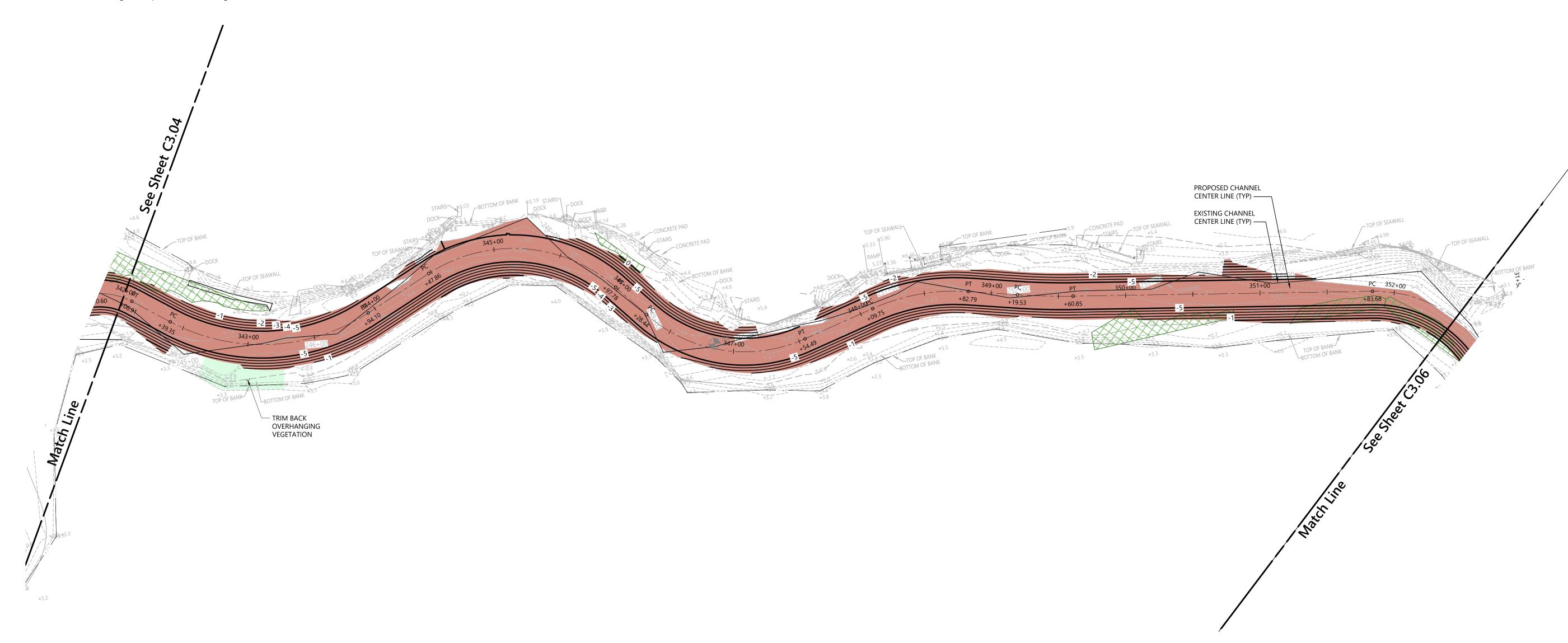
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1	SFWMD Comments	08/02/19	GMS
No.	Revision	Date	Appvd.

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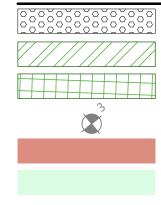








Legend



SAND DEPOSITION AREA

NUISANCE / EXOTIC VEGETATION

NATIVE / MIXED VEGETATION

PROPOSED DREDGING AREA

OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

ALL DEPTH / ELEVATIONS SHOWN HAVE BEEN ADJUSTED TO MLW MLW = -1.36 FROM ORIGINAL SURVEYED ELEVATION



Weeki Wachee River

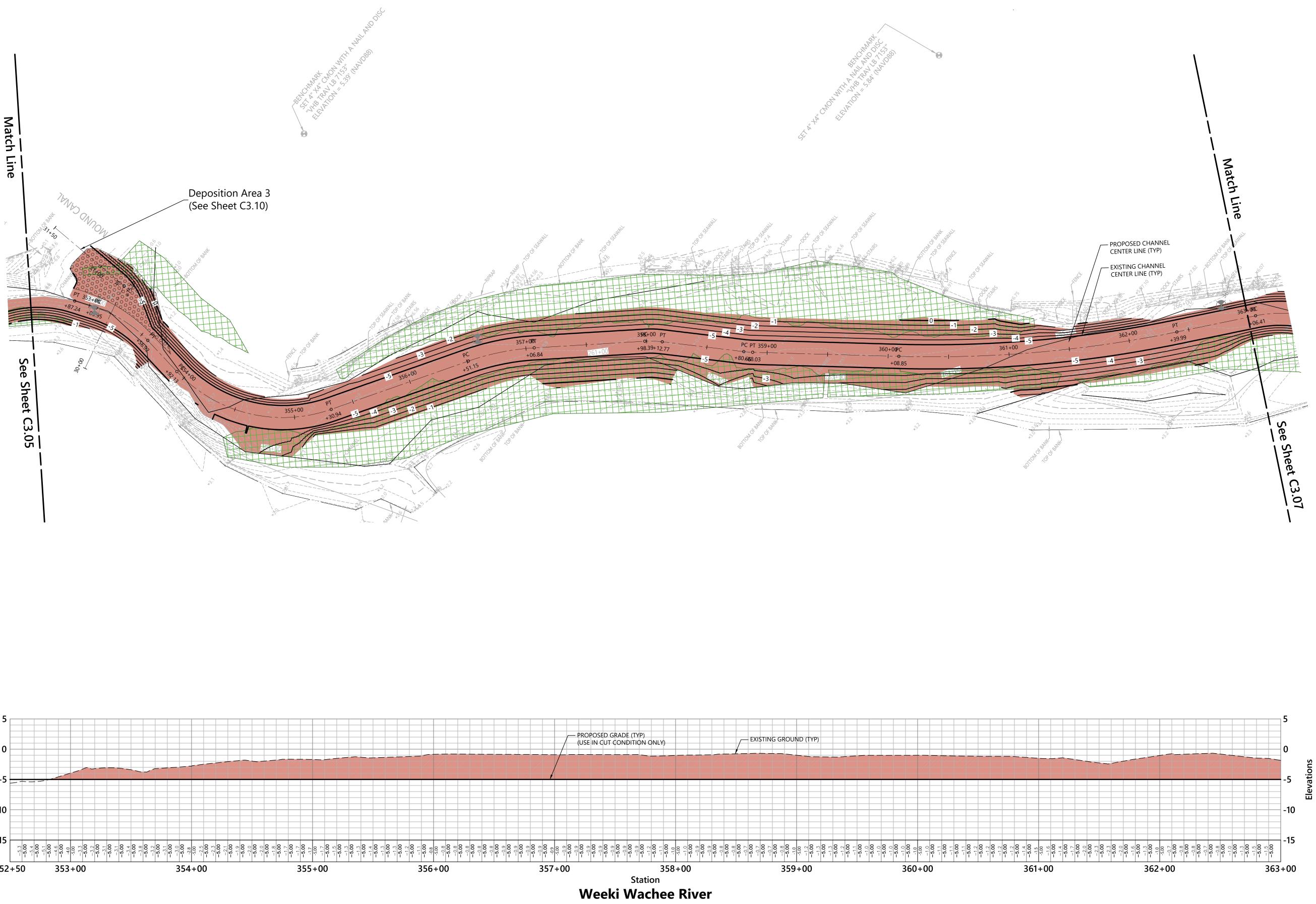
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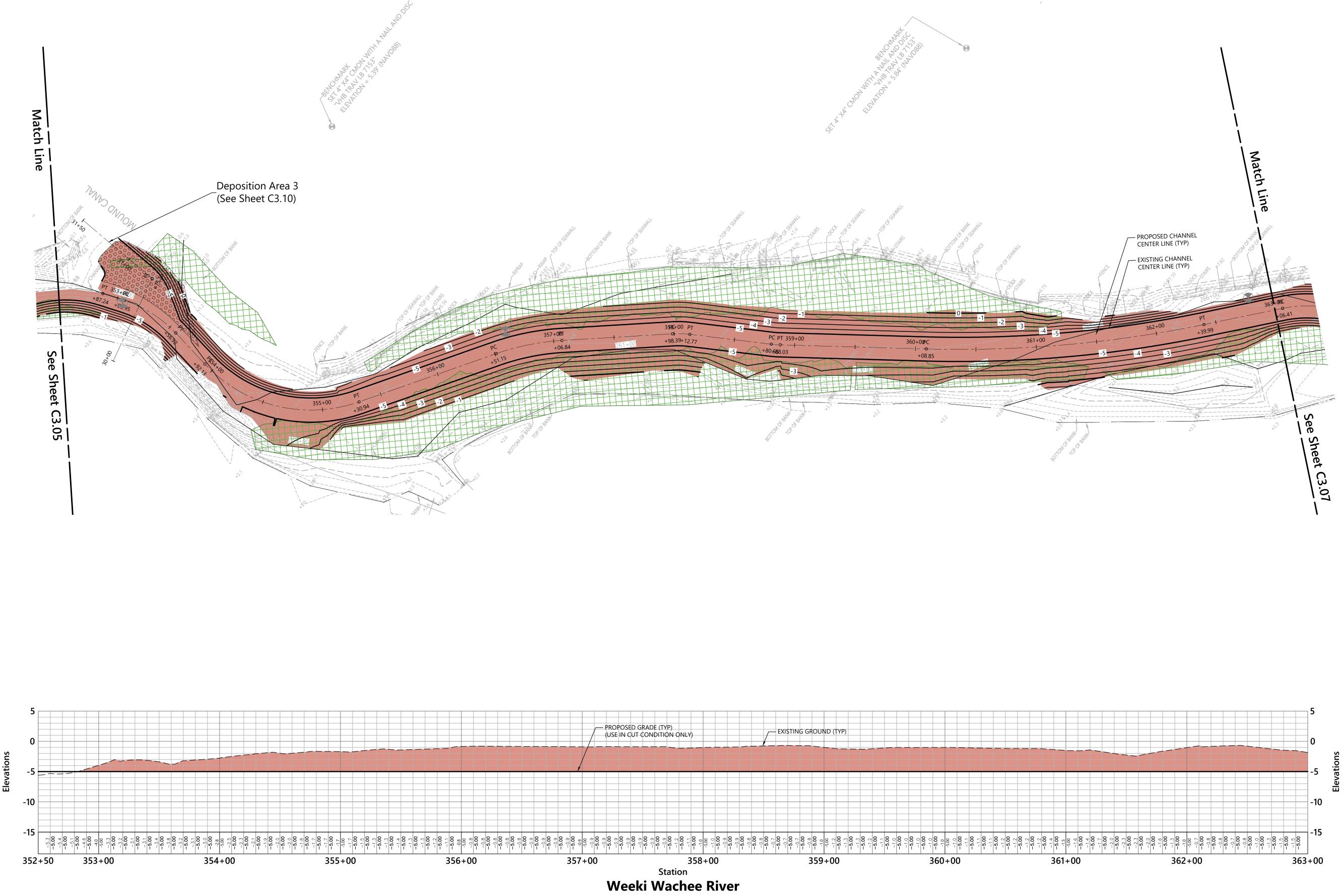
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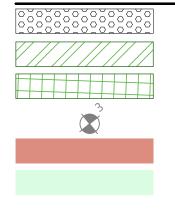








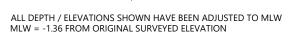
Legend



SAND DEPOSITION AREA NUISANCE / EXOTIC VEGETATION

- NATIVE / MIXED VEGETATION
- SOILS SAMPLE TEXT LOCATION
- PROPOSED DREDGING AREA
- OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018





Weeki Wachee River

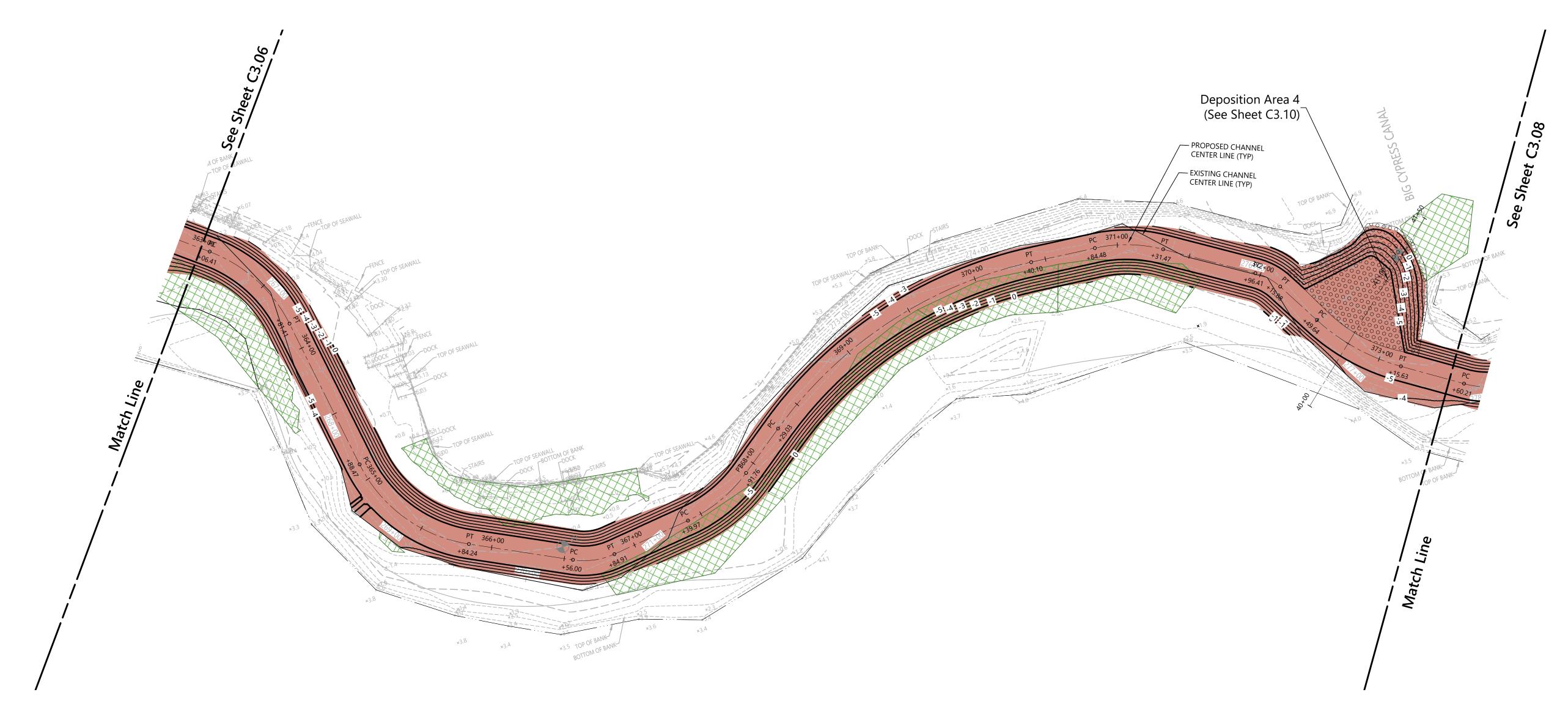
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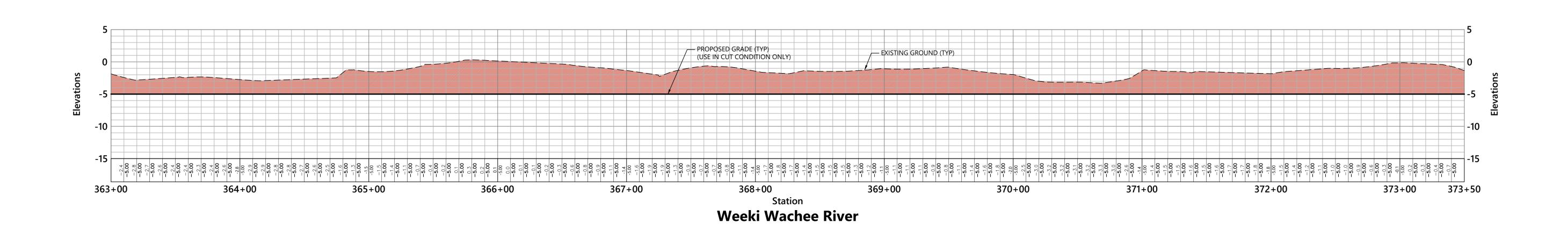
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1	SFWMD Comments	08/02/19	GMS
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Plan and Profile Drawing Number

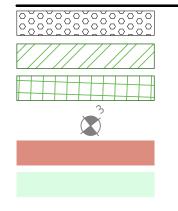








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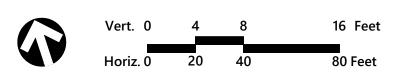


SAND DEPOSITION AREA NUISANCE / EXOTIC VEGETATION NATIVE / MIXED VEGETATION SOILS SAMPLE TEXT LOCATION PROPOSED DREDGING AREA

OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

ALL DEPTH / ELEVATIONS SHOWN HAVE BEEN ADJUSTED TO MLW MLW = -1.36 FROM ORIGINAL SURVEYED ELEVATION



Weeki Wachee River

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

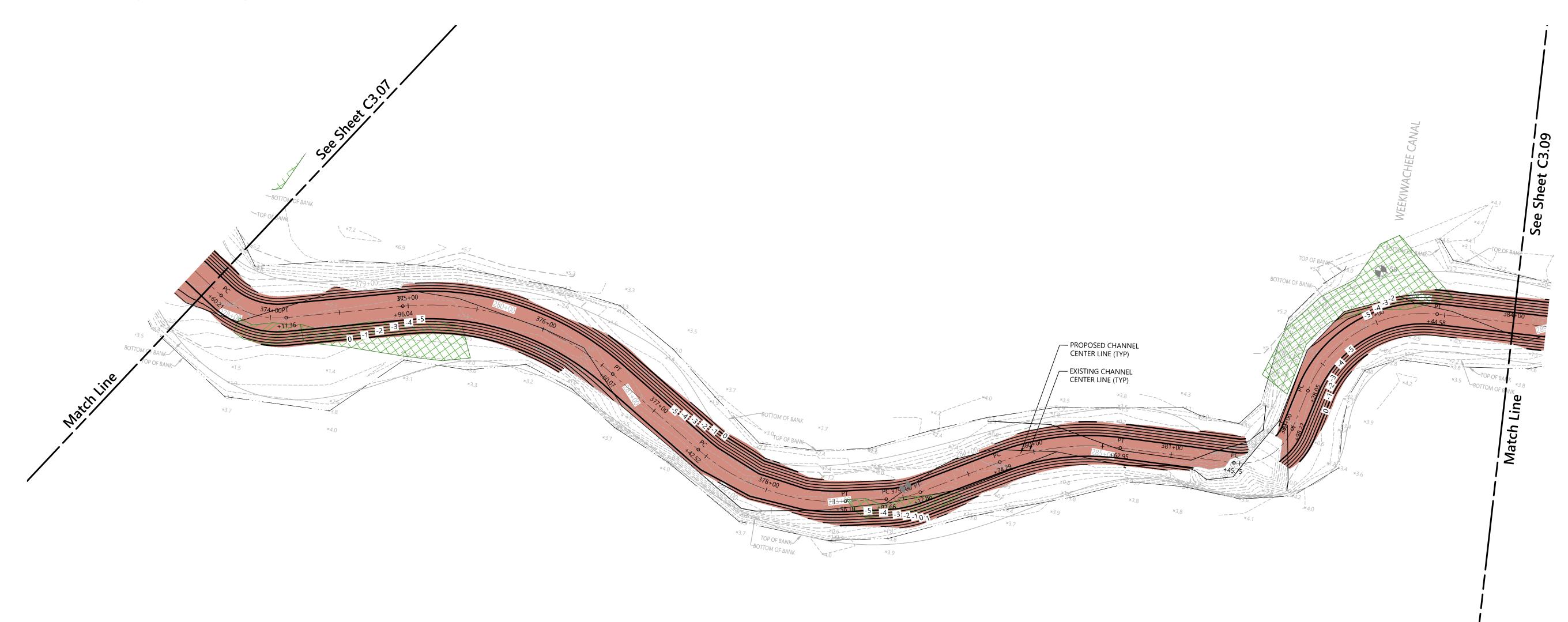
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1	SFWMD Comments	08/02/19	GMS
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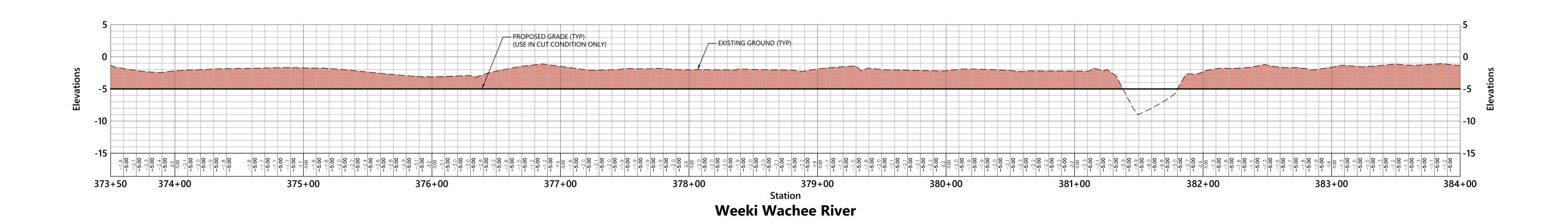
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Plan and Profile



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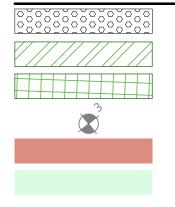






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Legend



SAND DEPOSITION AREA NUISANCE / EXOTIC VEGETATION NATIVE / MIXED VEGETATION

- SOILS SAMPLE TEXT LOCATION
- PROPOSED DREDGING AREA OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

ALL DEPTH / ELEVATIONS SHOWN HAVE BEEN ADJUSTED TO MLW MLW = -1.36 FROM ORIGINAL SURVEYED ELEVATION



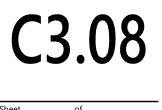
Weeki Wachee River

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

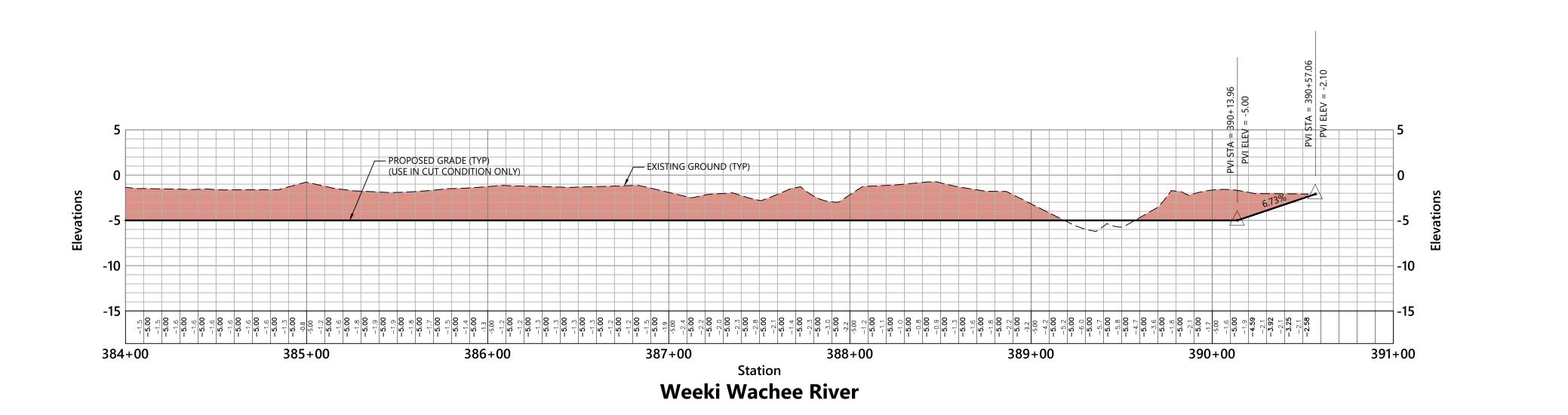
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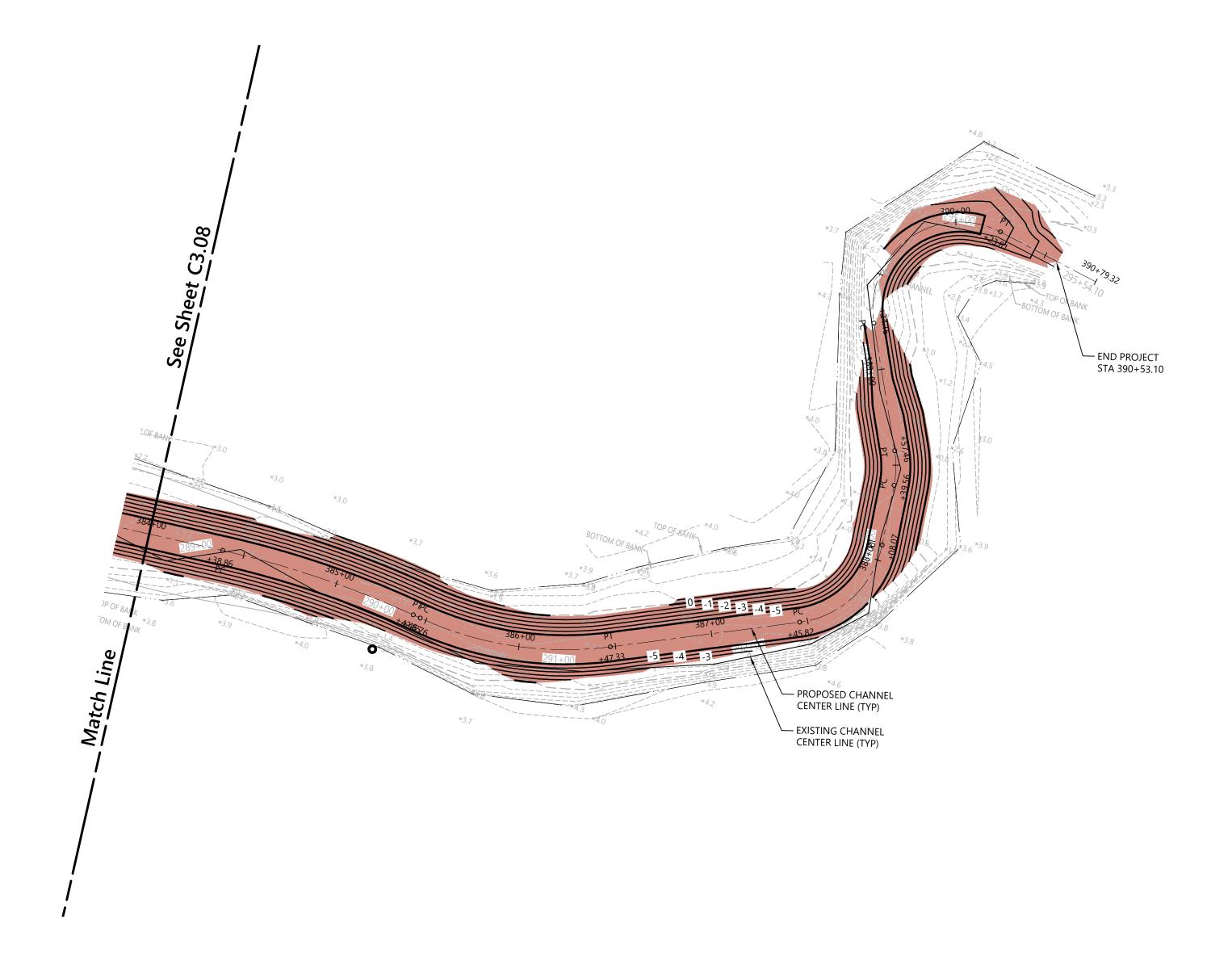
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Plan and Profile



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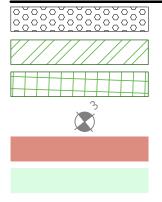






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SAND DEPOSITION AREA

NATIVE / MIXED VEGETATION

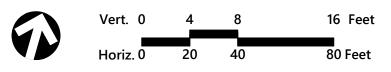
SOILS SAMPLE TEXT LOCATION

PROPOSED DREDGING AREA

OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

ALL DEPTH / ELEVATIONS SHOWN HAVE BEEN ADJUSTED TO MLW MLW = -1.36 FROM ORIGINAL SURVEYED ELEVATION



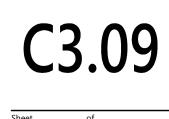
Weeki Wachee River

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

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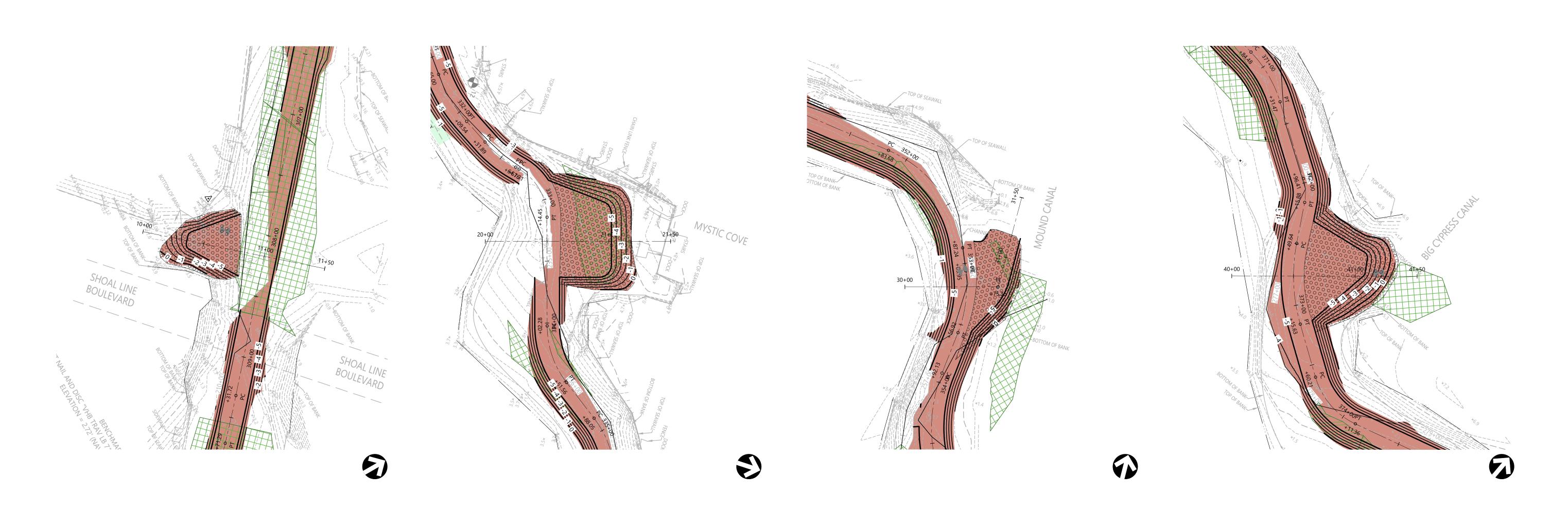
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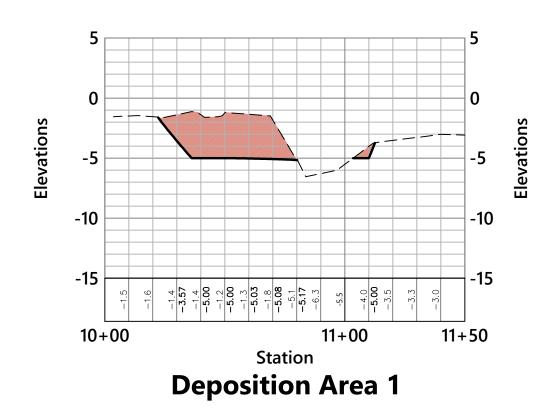
Plan and Profile

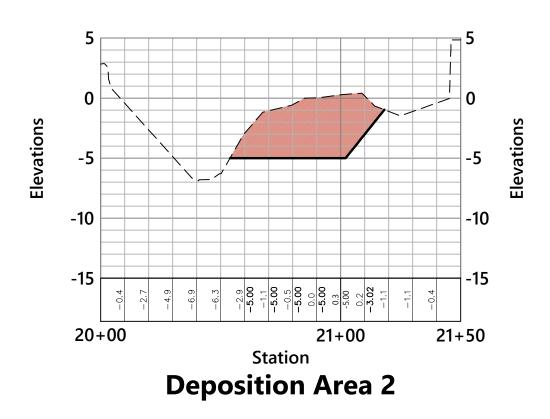


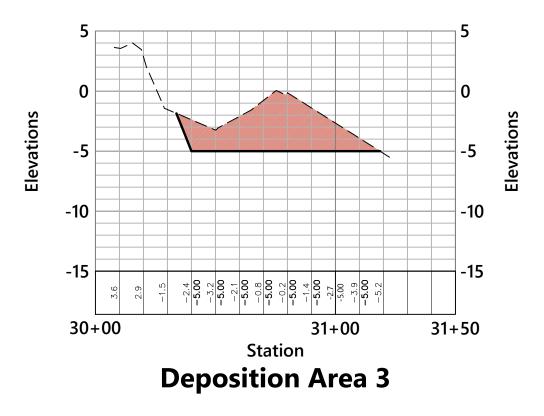
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Drawing Number



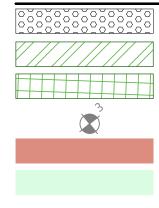








Legend



SAND DEPOSITION AREA NUISANCE / EXOTIC VEGETATION NATIVE / MIXED VEGETATION

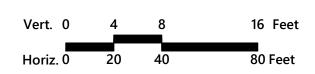
SOILS SAMPLE TEXT LOCATION

PROPOSED DREDGING AREA

OVERHEAD TREE REMOVAL

DATE OF SURVEY: OCTOBER 9, 2018

ALL DEPTH / ELEVATIONS SHOWN HAVE BEEN ADJUSTED TO MLW MLW = -1.36 FROM ORIGINAL SURVEYED ELEVATION



Weeki Wachee River

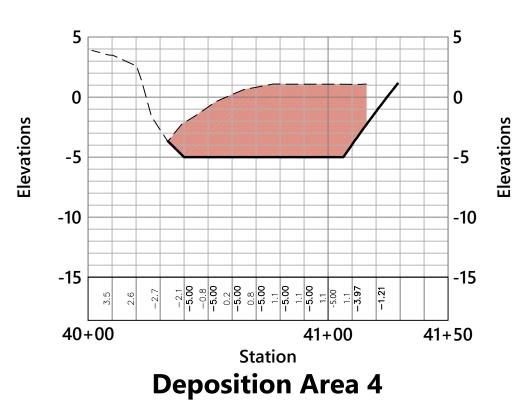
Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

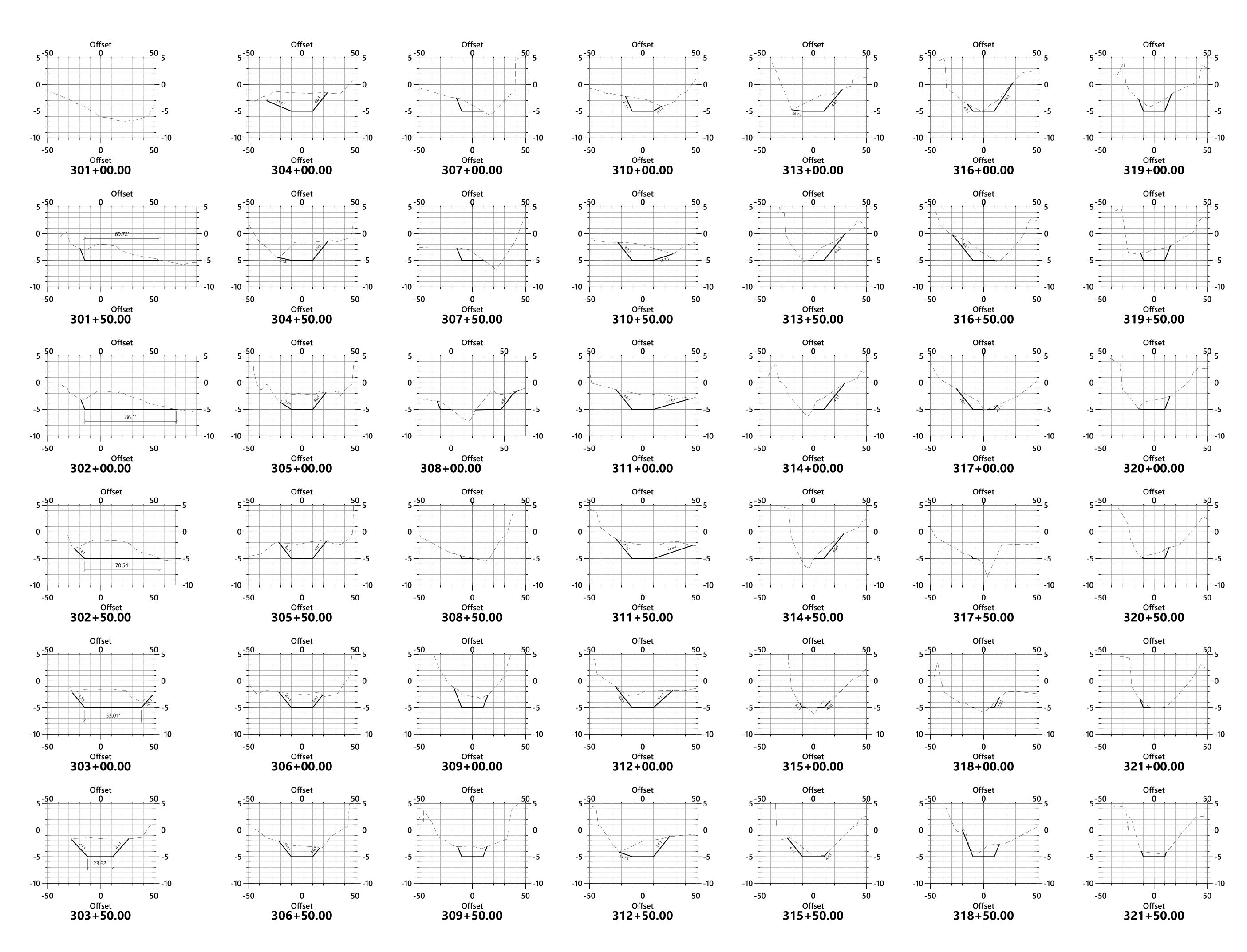
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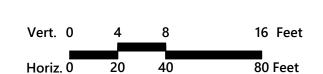






Notes

- 1. ALL SIDE SLOPES ON CHANNEL TO BE 2:1 UNLESS OTHERWISE NOTED.
- 2. BOTTOM OF CHANNEL ELEVATION TO BE -5 MLW UNLESS OTHERWISE NOTED.
- 3. WIDTH OF CHANNEL BOTTOM TO BE 20' UNLESS OTHERWISE NOTED.

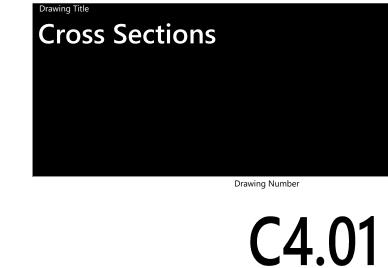


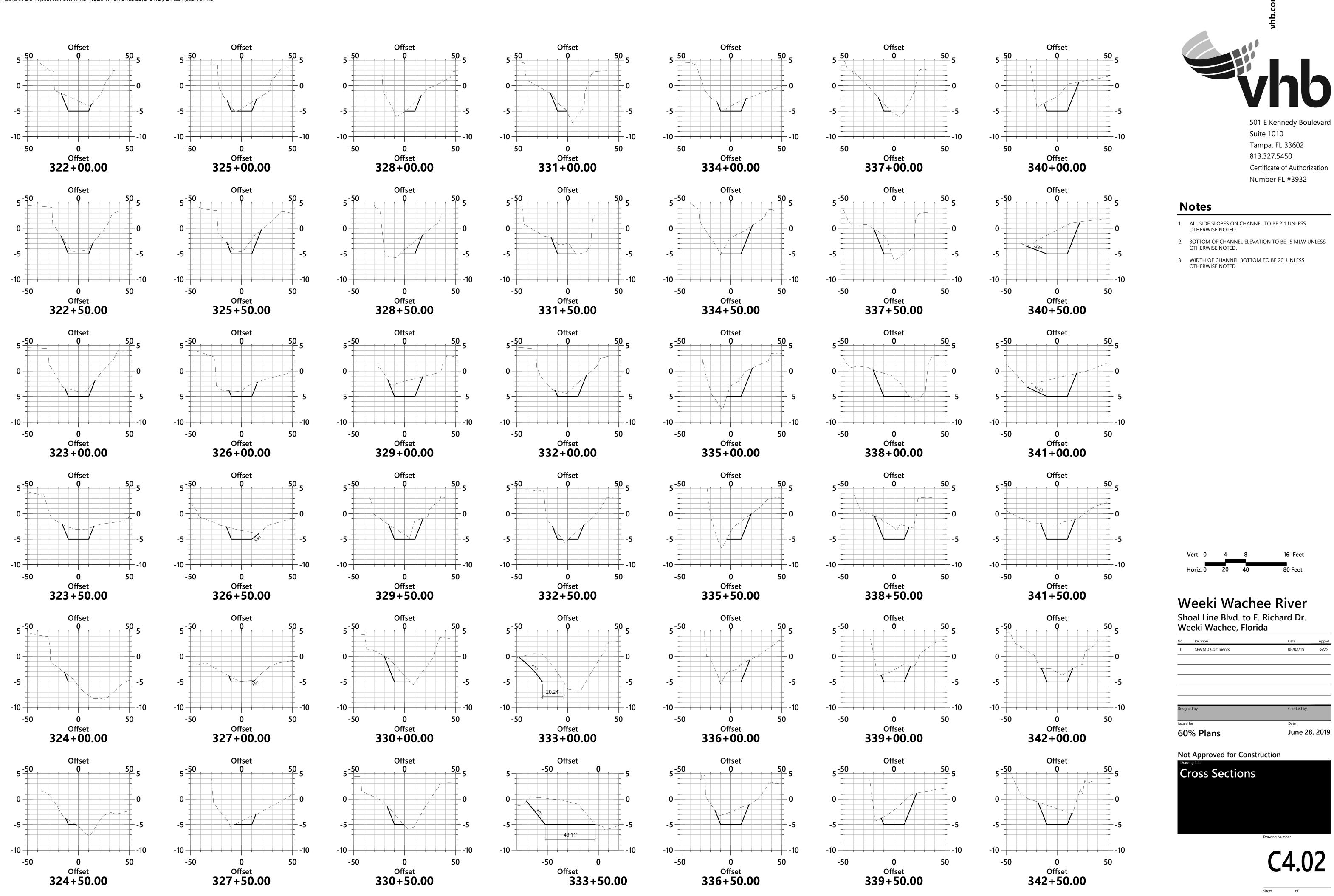
Weeki Wachee River

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

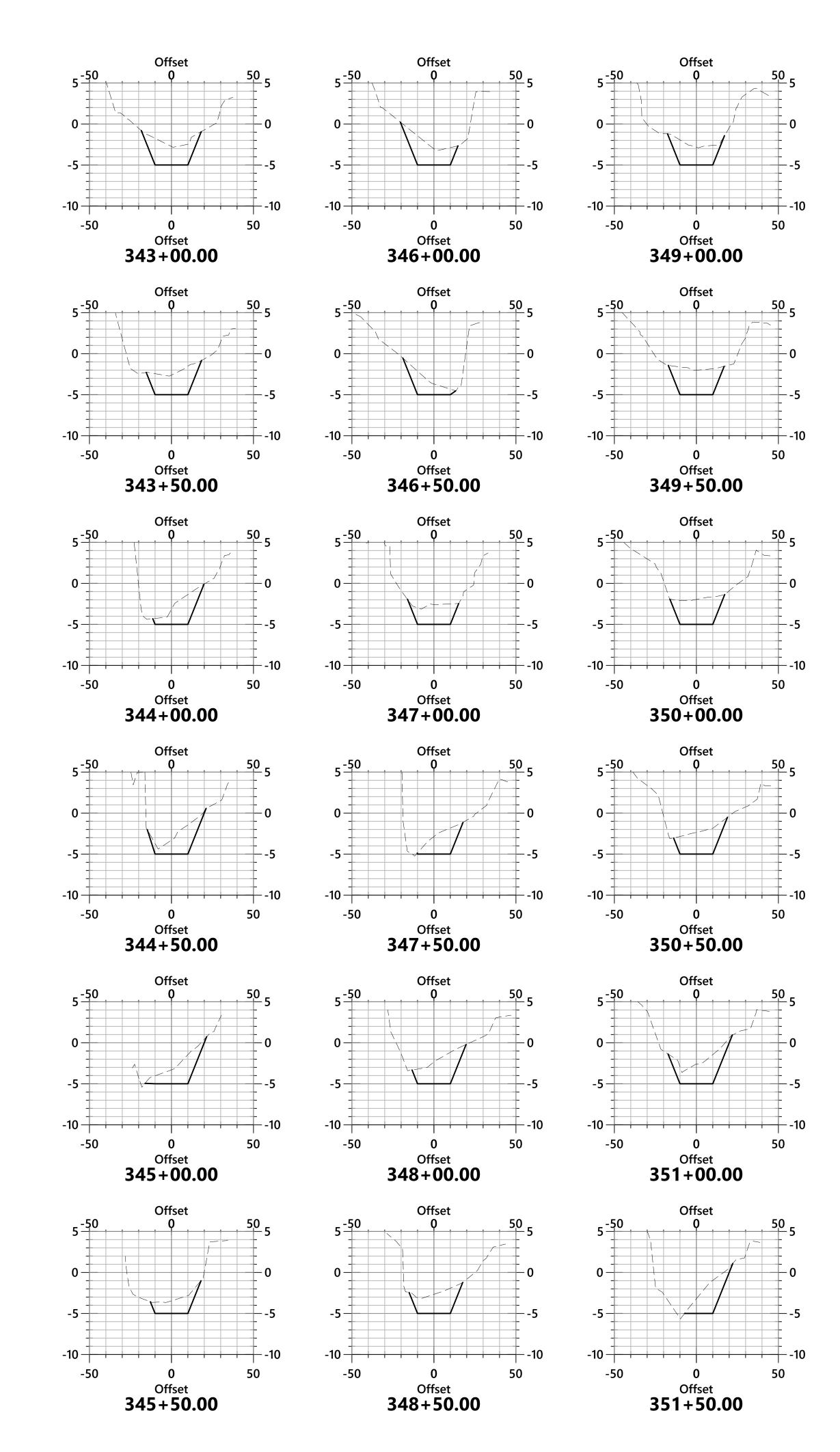
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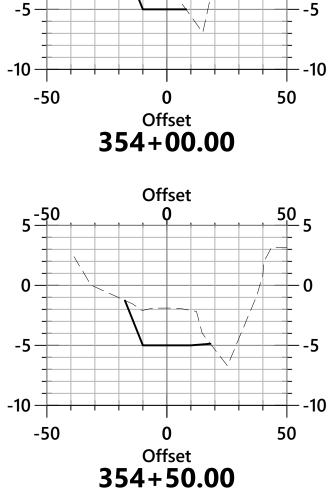
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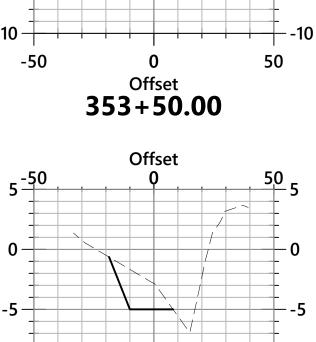


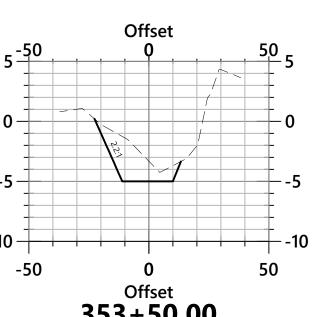


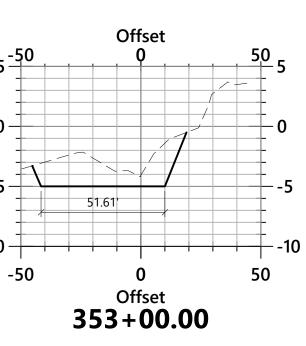
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Issued	for	Date	
60	% Plans	June 28,	2019

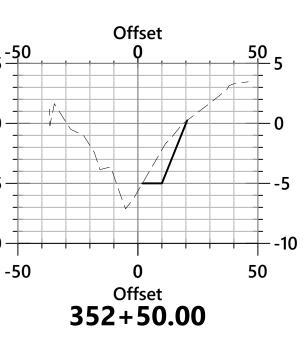


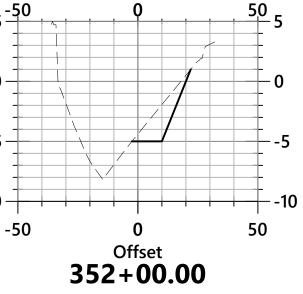










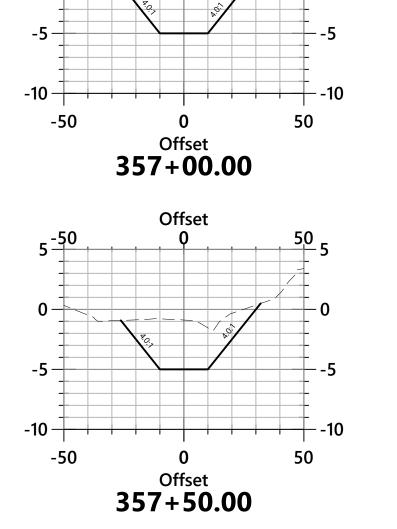


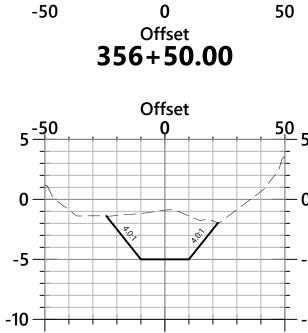
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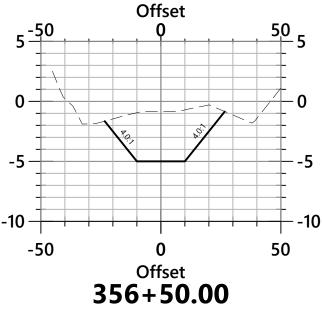
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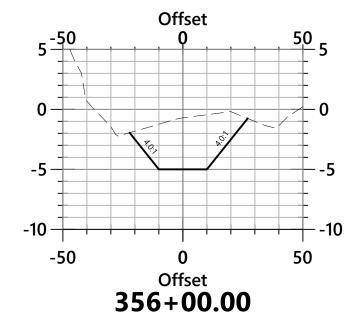
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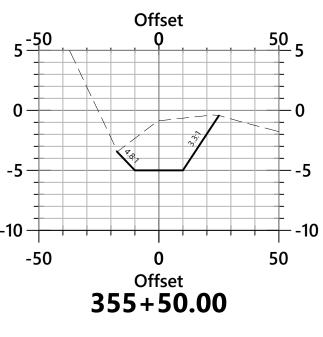
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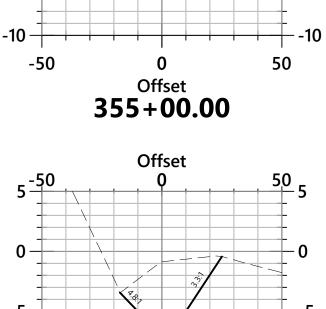




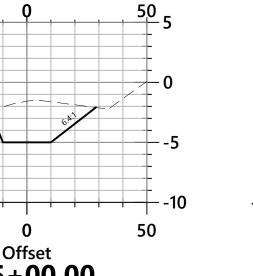


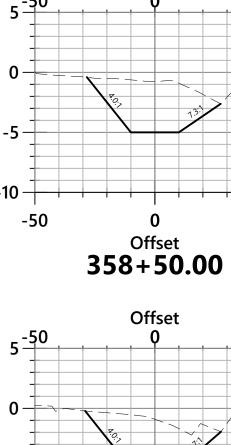


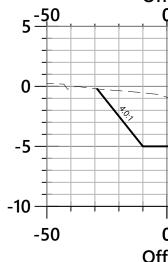


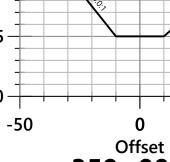


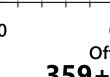
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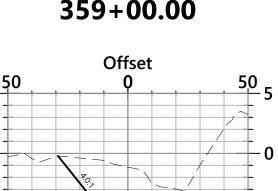












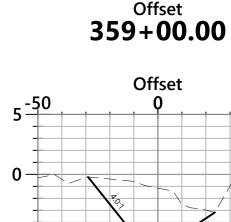
Offset 359+50.00

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Offset **360+00.00**

Offset

Offset **360+50.00**



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-50

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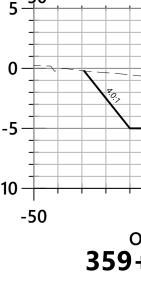
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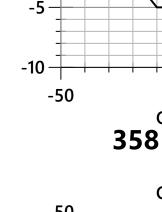
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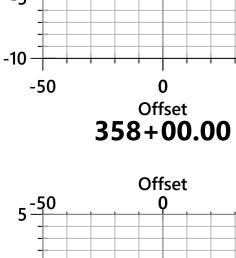
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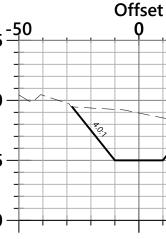
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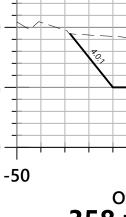
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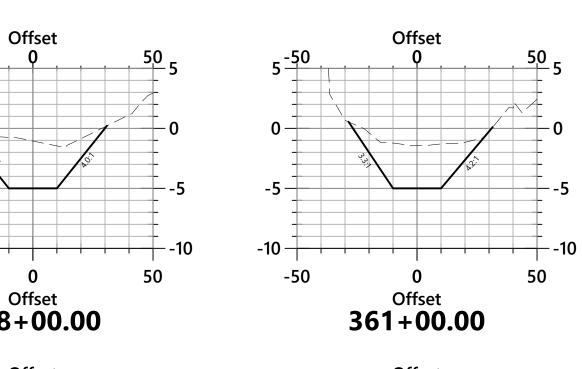












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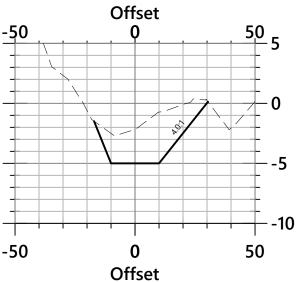
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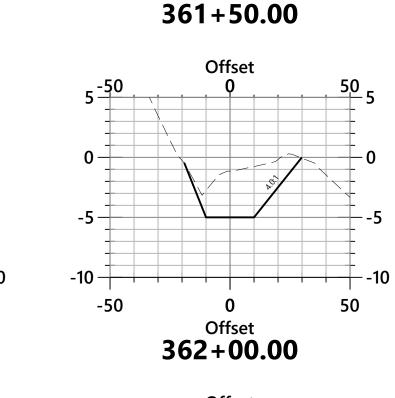
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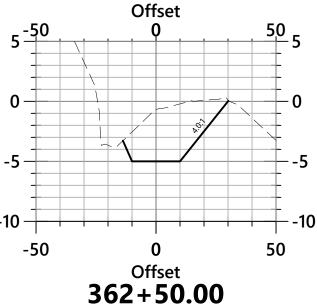
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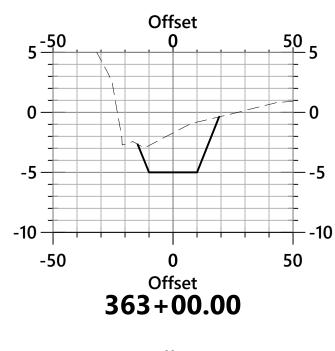
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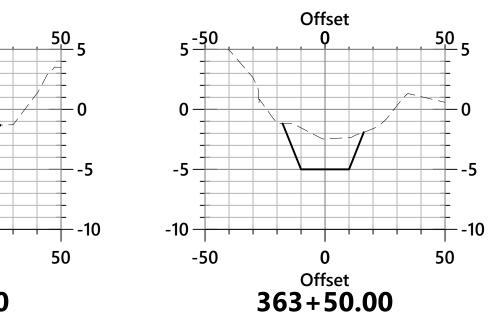
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501 E Kennedy Boulevard Suite 1010 Tampa, FL 33602 813.327.5450 Certificate of Authorization Number FL #3932

Notes

- 1. ALL SIDE SLOPES ON CHANNEL TO BE 2:1 UNLESS OTHERWISE NOTED.
- 2. BOTTOM OF CHANNEL ELEVATION TO BE -5 MLW UNLESS OTHERWISE NOTED.
- 3. WIDTH OF CHANNEL BOTTOM TO BE 20' UNLESS OTHERWISE NOTED.

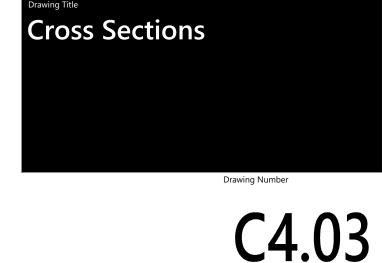


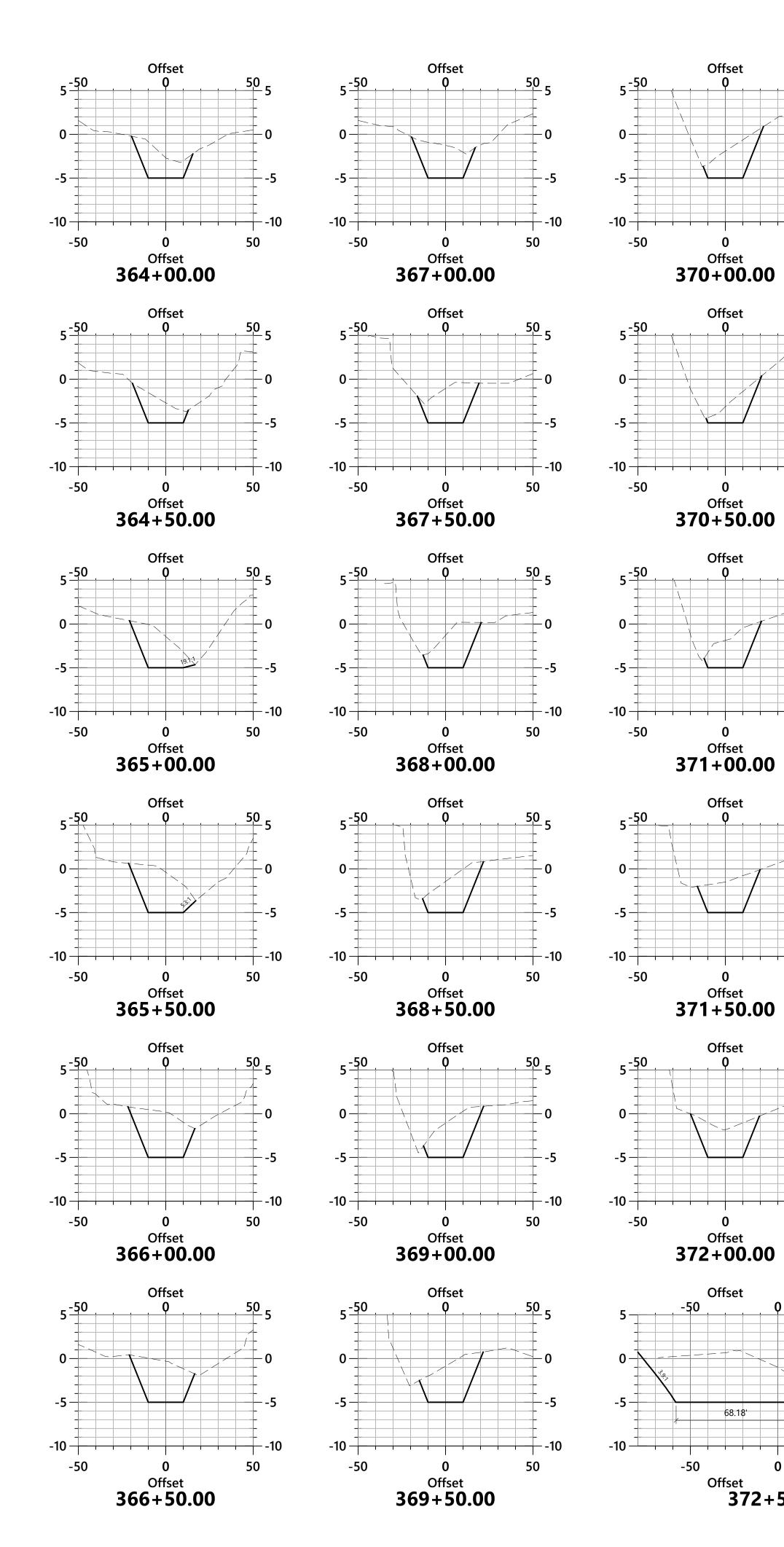
Weeki Wachee River

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

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

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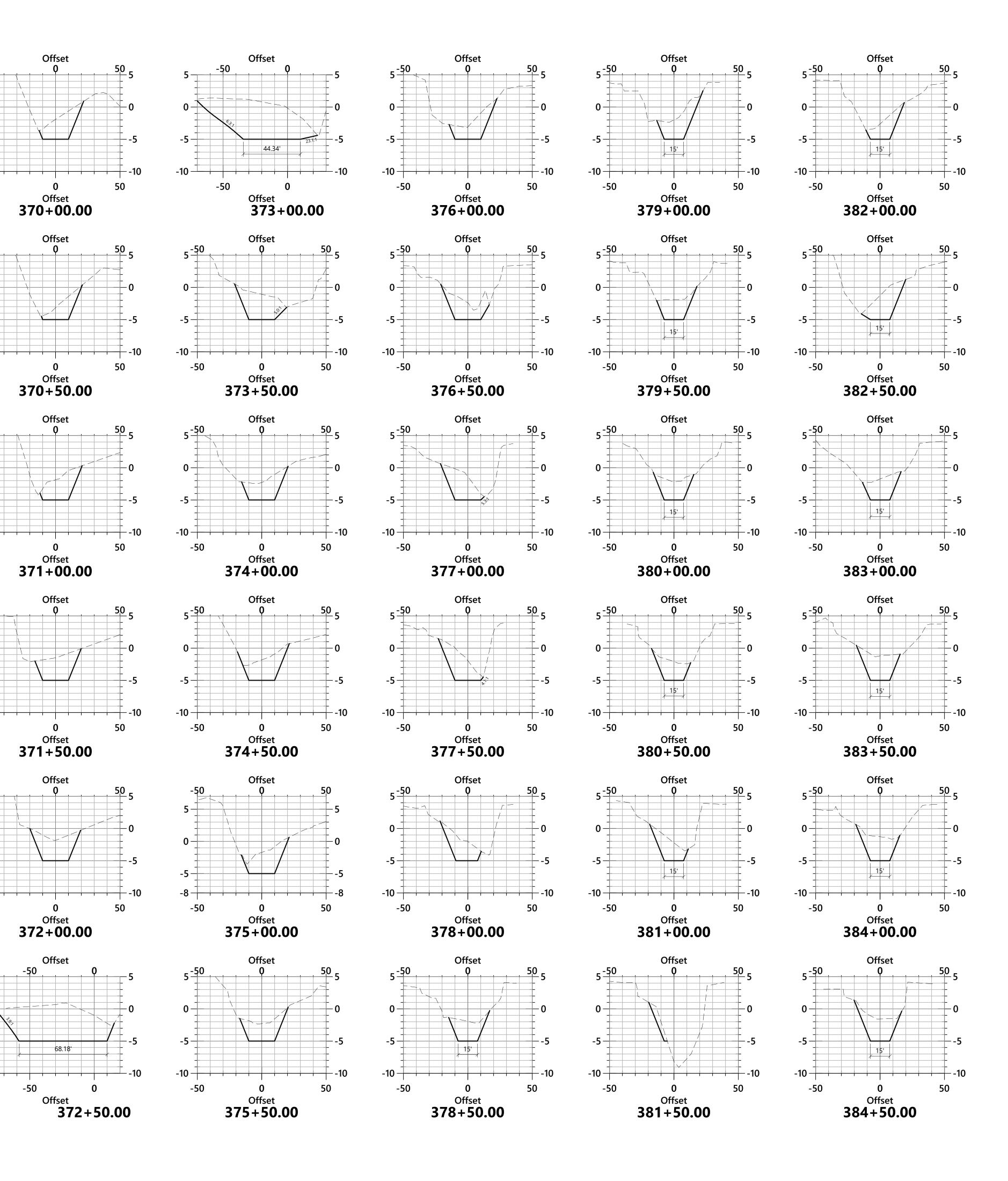
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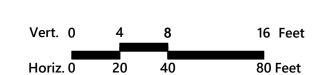




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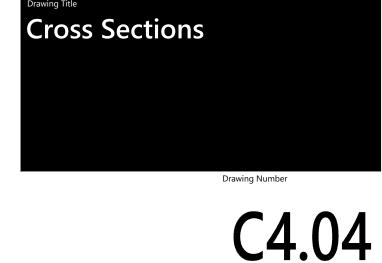


Weeki Wachee River

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

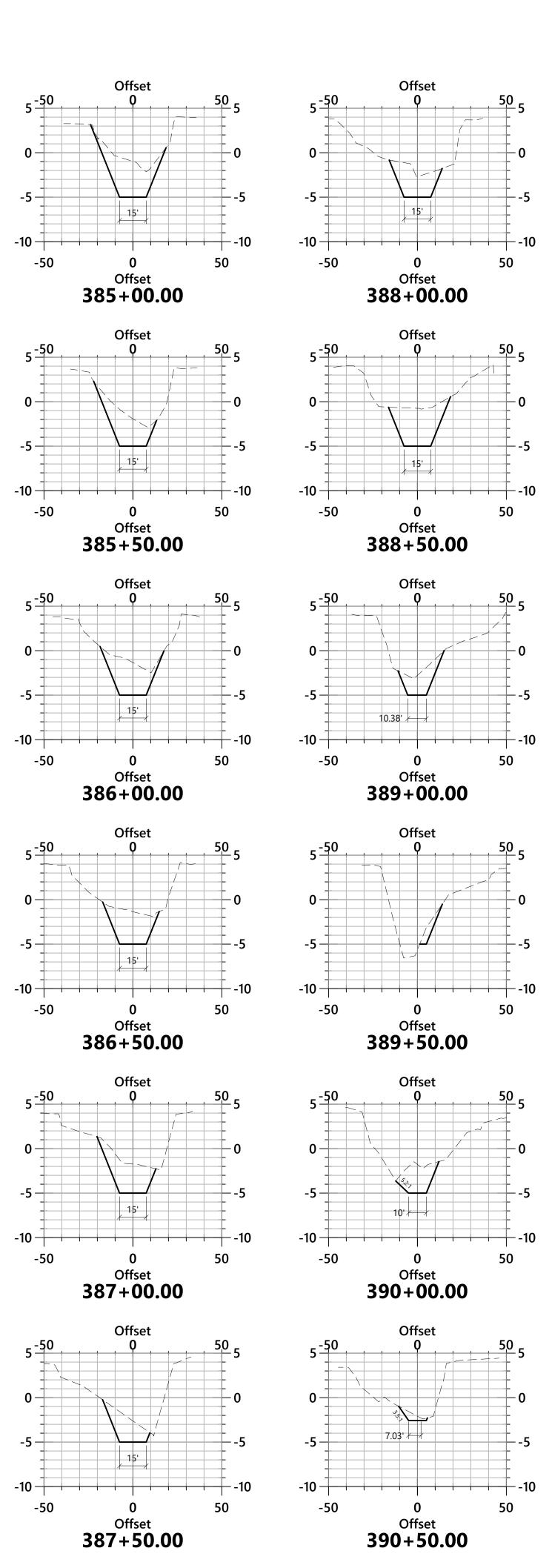
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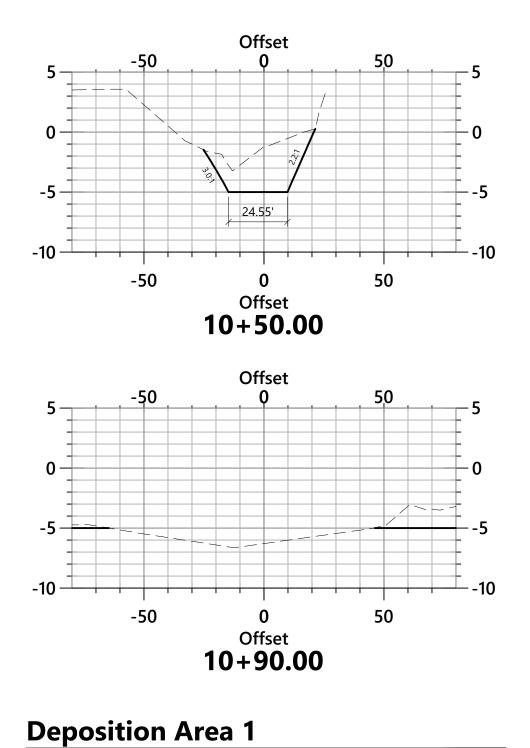


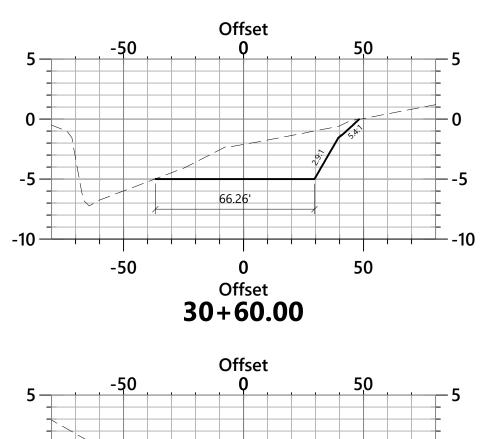
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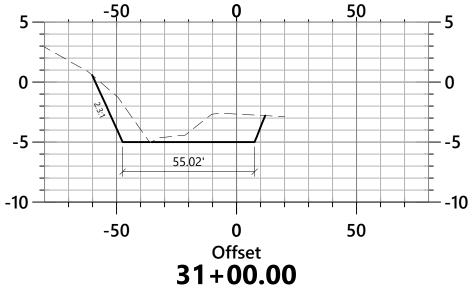
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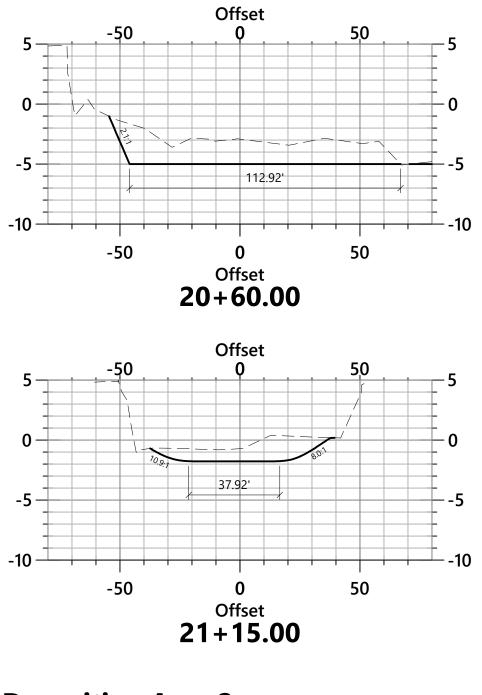




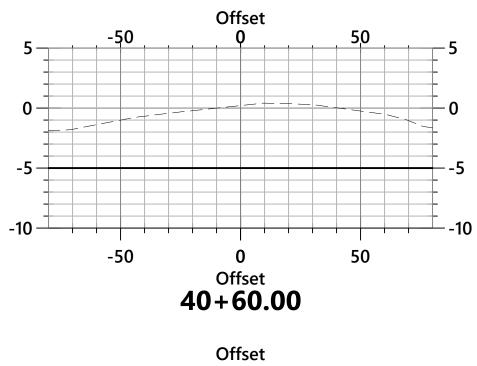


















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Vert. 0	4	8	16 Feet
Horiz. 0	20	40	80 Feet

Weeki Wachee River

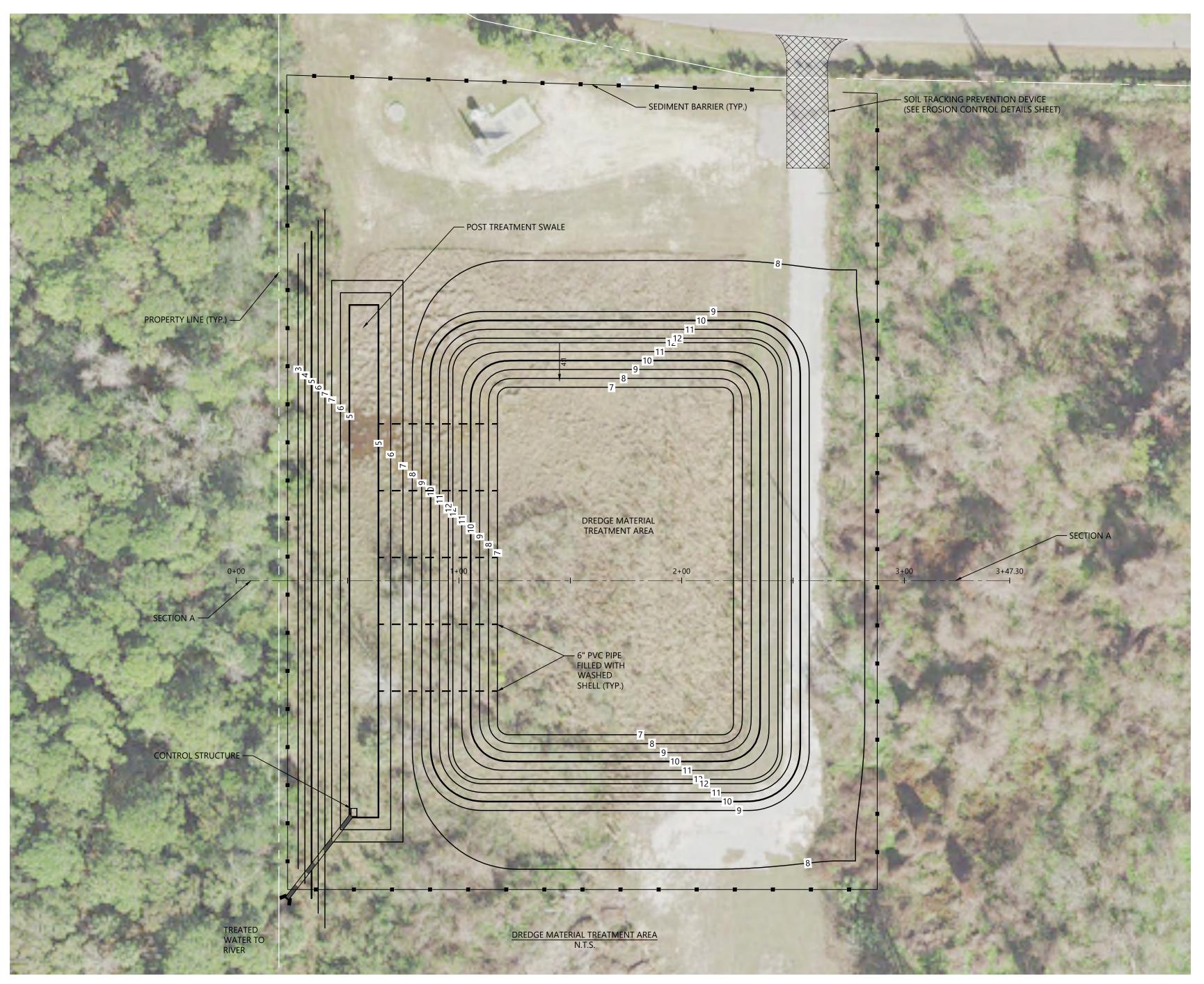
Shoal Line Blvd. to E. Richard Dr. Weeki Wachee, Florida

60	% Plans	June 28	8, 2019
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1	SFWMD Comments	08/02/19	GMS
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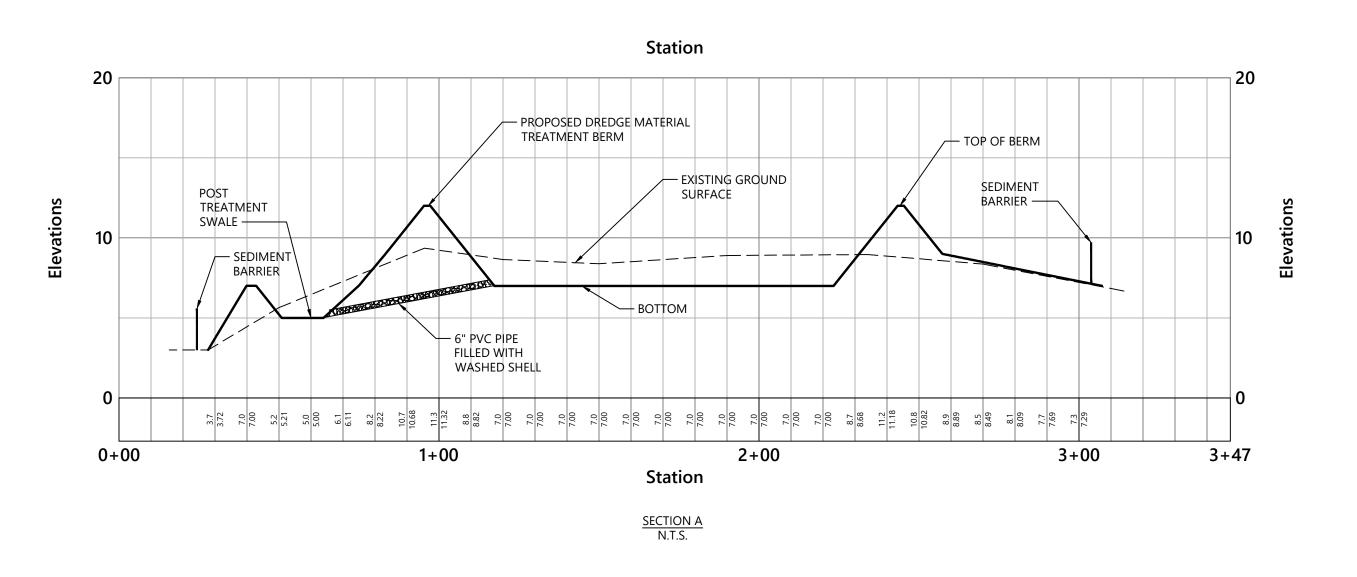
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Cross Sections

Drawing Number







HERNANDO COUNTY PARCEL



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Weeki Wachee River

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

60	% Plans	June 28	, 2019
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1	SFWMD Comments	08/02/19	GMS
No.	Revision	Date	Appvd.

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Dredge Material Treatment & Disposal Area

Drawing Number

C5.01

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.

NOTES:

\\vhb\gbl\proj\Sarasota\66277.01 SWFWMD-Weeki Wach Dredge\cad\te\planset\6627701-DT2.dwg

Notes

- I SITE DESCRIPTION: a. DESCRIBE THE NATURE OF THE CONSTRUCTION ACTIVITY:

- 4. DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, IF ANY, IS SHOWN ON THE PLANS.
- 5. CONSTRUCTION OF DREDGE MATERIAL TREATMENT AREA.
- ESTABLISHED.
- d. TOTAL AREA OF THE SITE: TBD e. TOTAL AREA OF THE SITE TO BE DISTURBED: TBD
- DISCHARGE POINT:
- GULF OF MEXICO LAT 28°32'04" N
- LONG 82°39'09" W
- II EROSION AND SEDIMENT CONTROLS:
- IN SUCH A WAY THAT IS CAUSES FLOODING.
- DREDGE AREAS.
- RECOMMENDED FOR DRAINAGE AREAS UNDER 10 ACRES. . NOT APPLICABLE

III EROSION AND SEDIMENT CONTROLS: a. WASTE DISPOSAL, THIS MAY INCLUDE CONSTRUCTION DEBRIS, CHEMICALS, LITTER, AND SANITARY WASTES: 1. ALL WASTE MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE LAWS. 2. THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.

- WETLANDS OR BURIED ON-SITE.

- b. OFFSITE VEHICLE TRACKING FROM CONSTRUCTION ENTRANCES/ EXITS:
- ALL OFFSITE TRACKING WILL BE REMOVED AFTER EACH WORKING DAY
- NOT APPLICABLE
- d. THE STORAGE, APPLICATION, GENERATION AND MIGRATION OF ALL TOXIC SUBSTANCES:
- AND IMMEDIATELY CLEANED UP, SHOULD THEY OCCUR.
- - TERMINATION IS MAILED. DEVICES.

- STORM EVENT THAT IS 0.50 INCHES OR GREATER (SEE ATTACHED FORM).
- CONTRACTOR.

- PFRMIT

VI IDENTIFY AND DESCRIBE ALL SOURCES OF NON-STORMWATER DISCHARGES AS ALLOWED IN PART IV.A.3 OF THE PERMIT, FLOW FROM FIREFIGHTING ACTIVITIES DO NOT HAVE TO BE LISTED OR DESCRIBED. NOT APPLICABLE

THE SITE IS LOCATED IN HERNANDO COUNTY AND BEGINS APPROXIMATELY 800 FT NORTHWEST OF THE INTERSECTION OF SHOAL LINE BOULEVARD AND THE WEEKI WACHEE RIVER, THEN APPROXIMATELY 1.5 MILES EAST ALONG THE WEEKI WACHEE RIVERTO APPROXIMATELY 700 FT EAST OF THE WEEKI WACHEE CANAL.

THIS PROPOSED PROJECT INCLUDES DREDGING OF THE RIVER TO A DEPTH APPROXIMATELY 5 FT BELOW MEAN LOW WATER LEVEL (MLW) FOR APPROXIMATELY 1.5 MILES OF THE RIVER. THE DREDGE MATERIAL WILL BE COLLECTED AND DEWATERED IN A DISPOSAL AREA, AND THE DECANTED WATER RETURNED TO THE RIVER.

b. DESCRIBE THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: 1. ALL EROSION CONTROL DEVICES FOR THE PROJECT ARE TO BE INSTALLED PRIOR TO BEGINNING WORK. 2. INSTALL SILT FENCE AND TURBIDITY WHERE LISTED ON THE PLANS.

THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A DEWATERING PLAN (IF NEEDED).

6. COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.

7. REMOVE PERIMETER CONTROLS AFTER AREAS ARE FULLY STABILIZED AND PERMANENT GRASSING IS

c. THE SOIL WITHIN THE PROJECT LIMITS: SEE GEOTECHNICAL REPORT.

f. ESTIMATE THE DRAINAGE AREA SIZE FOR EACH DISCHARGE POINT: AREA OF DISPOSAL SITE TO BE DETERMINED g. LATITUDE AND LONGITUDE OF EACH DISCHARGE POINT AND IDENTIFY THE RECEIVING WATER OR MS4 FOR EACH

a. GIVE A DETAILED DESCRIPTION OF ALL CONTROLS, BEST MANAGEMENT PRACTICES (BMPS) AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES SECTION. PROVIDE TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED. NOTE: ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN S. 62-40.432, F.A.C., THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE WATER MANAGEMENT DISTRICT, AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS. ALL EROSION PROTECTION TO BE INSTALLED PRIOR TO THE INITIATION OF CONSTRUCTION. SILT FENCE AND TURBIDITY BARRIERS TO BE INSTALLED AS SHOWN ON THE PLANS. ALL INLETS SHALL BE PROTECTED BEFORE CONSTRUCTION, AND REMOVED WHEN THE PROJECT IS COMPLETED ACCORDING TO DETAILS AND SITE PLAN. ALL OFFSITE TRACKING SHALL BE REMOVED AFTER EACH WORKING DAY. THE CONTRACTOR WILL BE RESPONSIBLE FOR DEWATERING DURING CONSTRUCTION AND UTILIZING A DEWATERING BEST MANAGEMENT PRACTICE IF NECESSARY. WELL POINTS, HORIZONTAL SOCK DRAINS OR ANY OTHER METHOD THAT WILL PREVENT DISCHARGE OF TURBID WATER ABOVE 29 NTU FROM THE CONSTRUCTION SITE, INTO THE RESIDENTIAL CANALS AND 0 NTU INCREASE TO THE RIVER. CONTRACTOR CANNOT PUMP TURBID WATER INTO STORMSEWER, PONDS, LAKES OR RIVER. NO HAY BALES SHALL BE USED FOR INLET PROTECTION IN ROADS. ONLY SYNTHETIC BALES OR OTHER TYPES OF INLET PROTECTION SHALL BE USED. INLET PROTECTION SHALL NOT BE PLACED

b. DESCRIBE ALL TEMPORARY AND PERMANENT STABILIZATION PRACTICES. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, MULCHING, PERMANENT SEEDING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, VEGETATIVE PRESERVATIONS, ETC. THE DISTURBED AREA SHALL HAVE EROSION CONTROL NET AND HAY BLANKETS INSTALLED. THE DISTURBED AREAS WILL HAVE VERTICAL STABILIZATION AS SPECIFIED BY THE CONTRACTOR. THE DISTURBED AREA WILL BE SEEDED AND MULCHED WITHIN SEVEN DAYS OF FINAL GRADING. STOCK PILES (IF USED) WILL BE STABILIZED IF THEY REMAIN FOR A TIME PERIOD OF MORE THAN 21 DAYS BY TEMPORARY SEEDING AND MULCHING, OR OTHER COVERING.

c. DESCRIBE ALL STRUCTURAL CONTROLS TO BE IMPLEMENTED TO DIVERT STORMWATER FLOW FROM EXPOSED SOILS AND STRUCTURAL PRACTICES TO STORE FLOWS, RETAIN SEDIMENTON-SITE OR IN ANY OTHER WAY LIMIT STORMWATER RUNOFF. THESE CONTROLS INCLUDE SILT FENCES, EARTH DIKES, DIVERSIONS, SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, COAGULATING AGENTS AND TEMPORARY OR PERMANENT SEDIMENT BASINS. SILT FENCES WILL BE PLACED ALONG THE LIMITS OF THE PROJECT AS SHOWN IN THE PLANS. AREAS ADJACENT TO DREDGING AREAS WILL BE PROTECTED WITH FLOATING TURBIDITY BARRIER AS SHOWN IN THE PLANS. CONTRACTOR SHALL NOT ALLOW TURBID WATER TO ENTER AREAS OUTSIDE THE

d. DESCRIBE ALL SEDIMENT BASINS TO BE IMPLEMENTED FOR AREAS THAT WILL DISTURB 10 OR MORE ACRES AT ONE TIME. THE SEDIMENT BASINS (OR AN EQUIVALENT ALTERNATIVE) SHOULD BE ABLE TO PROVIDE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE DRAINED. TEMPORARY SEDIMENT BASINS (OR AN EQUIVALENT ALTERNATIVE) ARE

f. DESCRIBE ALL PERMANENT STORMWATER MANAGEMENT CONTROLS SUCH AS, BUT NOT LIMITED TO, DETENTION OR RETENTION SYSTEMS OR VEGETATED SWALES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS.

3. ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. 4. NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO

5. ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

c. THE PROPER APPLICATION RATES OF ALL FERTILIZERS, HERBICIDES AND PESTICIDES USED AT THE CONSTRUCTION SITE:

NO FUEL WILL BE STORED ON SITE. FUEL SPILLS AND LEAKS FROM EQUIPMENT AND VEHICLES WILL BE PREVENTED

IV PROVIDE A DETAILED DESCRIPTION OF THE MAINTENANCE PLAN FOR ALL STRUCTURAL AND NON-STRUCTURAL CONTROLS TO ASSURE THAT THEY REMAIN IN GOOD AND EFFECTIVE OPERATING CONDITION. 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF

2. INSTALLATION, MAINTENANCE, REPAIR AND REMOVAL REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL

3. THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS: GENERAL - ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED IMMEDIATELY. 4. STRUCTURAL PRACTICES - BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE-HALF OF THE HEIGHT OF THE FENCE. SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. SYNTHETIC BALES SHALL BE REPLACED EVERY THREE (3) MONTHS OR WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V INSPECTIONS: DESCRIBE THE INSPECTION AND INSPECTION DOCUMENTATION PROCEDURES, AS REQUIRED BY PART V.D.4. OF THE PERMIT. INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A 1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY

RAINFALL IN ACCORDANCE WITH THE NPDES. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE

2. ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS. 3. THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES

4. QUALIFIED PERSONAL SHALL INSPECT THE PROJECT SITE AT LEAST ONCE EVERY (7) CALENDER DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVERNT THAT IS 0.50 INCHES OR GREATER



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Weeki Wachee River

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

1 SFWMD Comments 08/02/19	GMS
Designed by Checked b	у
Issued for Date	
60% Plans June	28, 2019

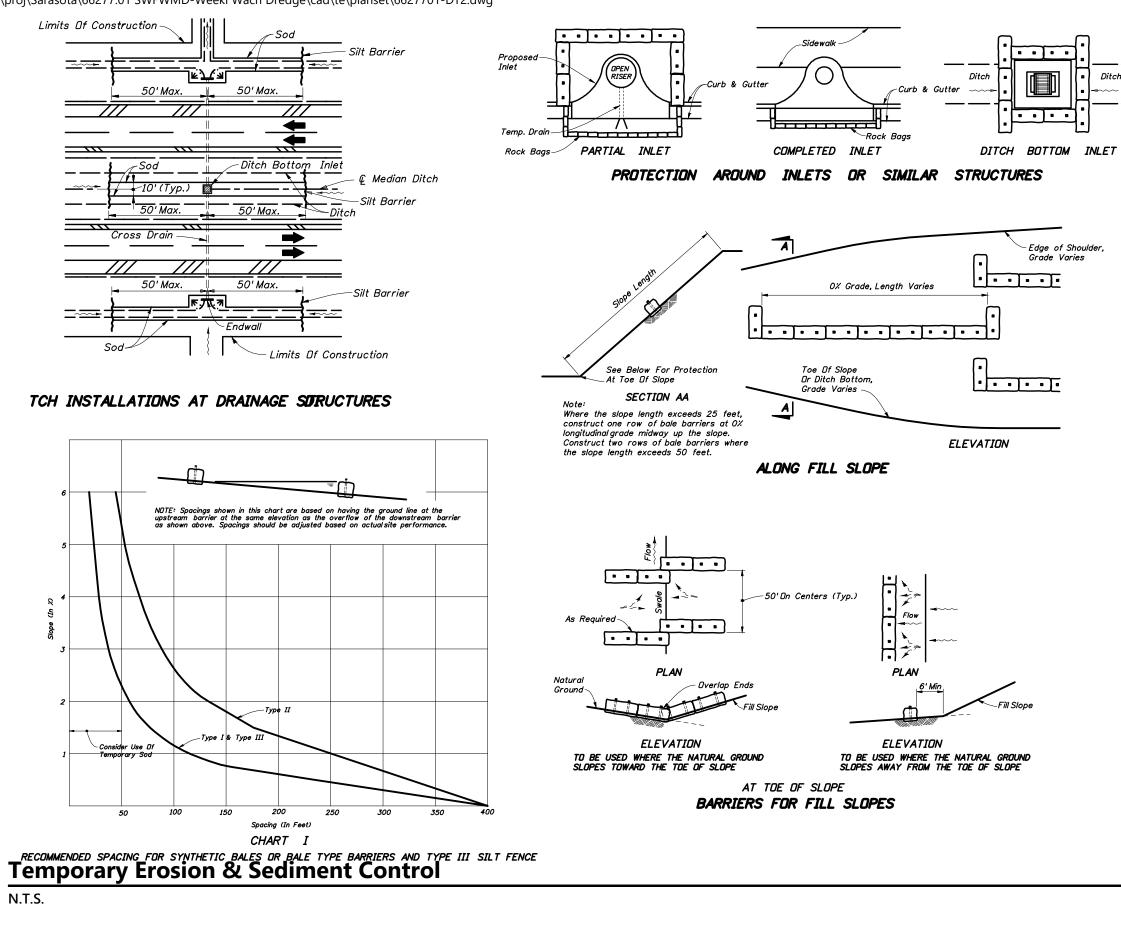
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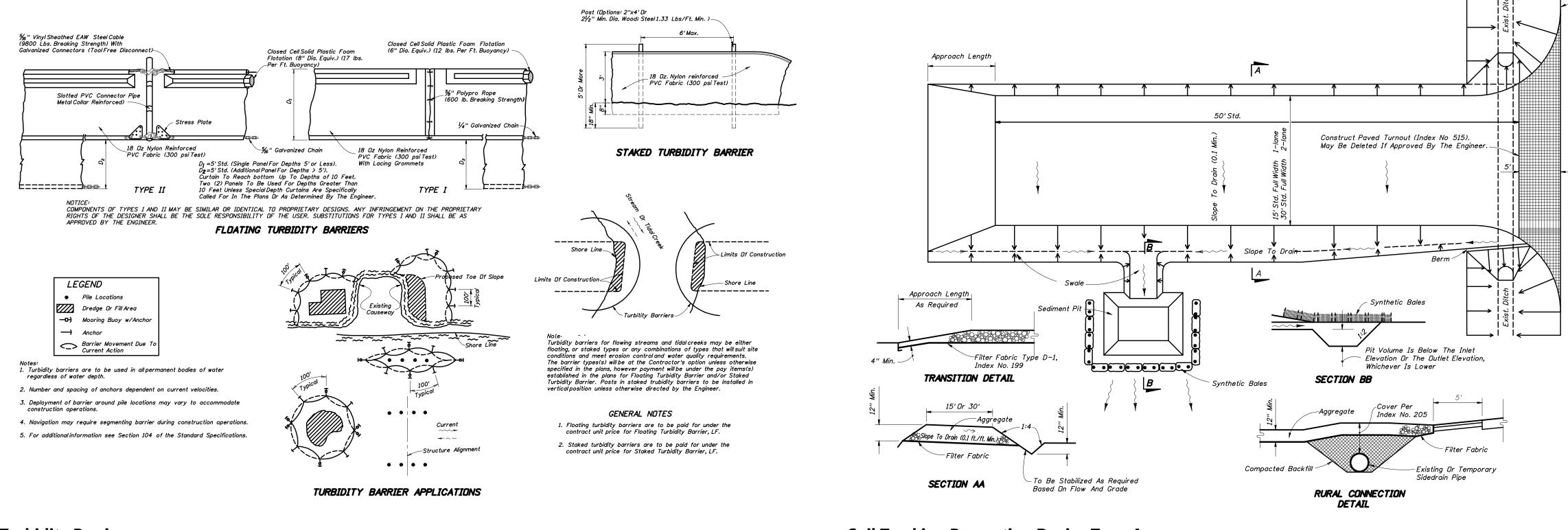
SWPPP & Erosion **Control Details**

Drawing Number

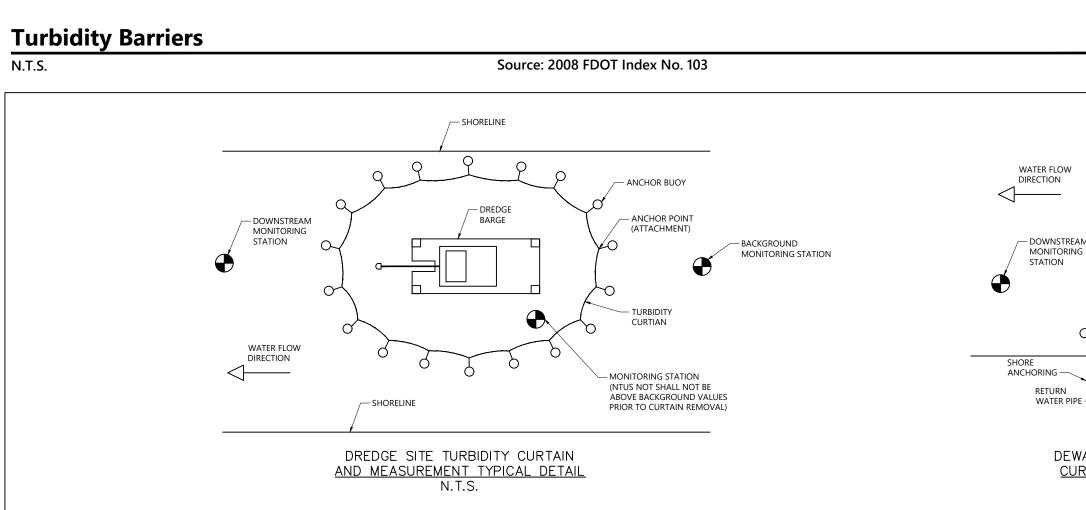


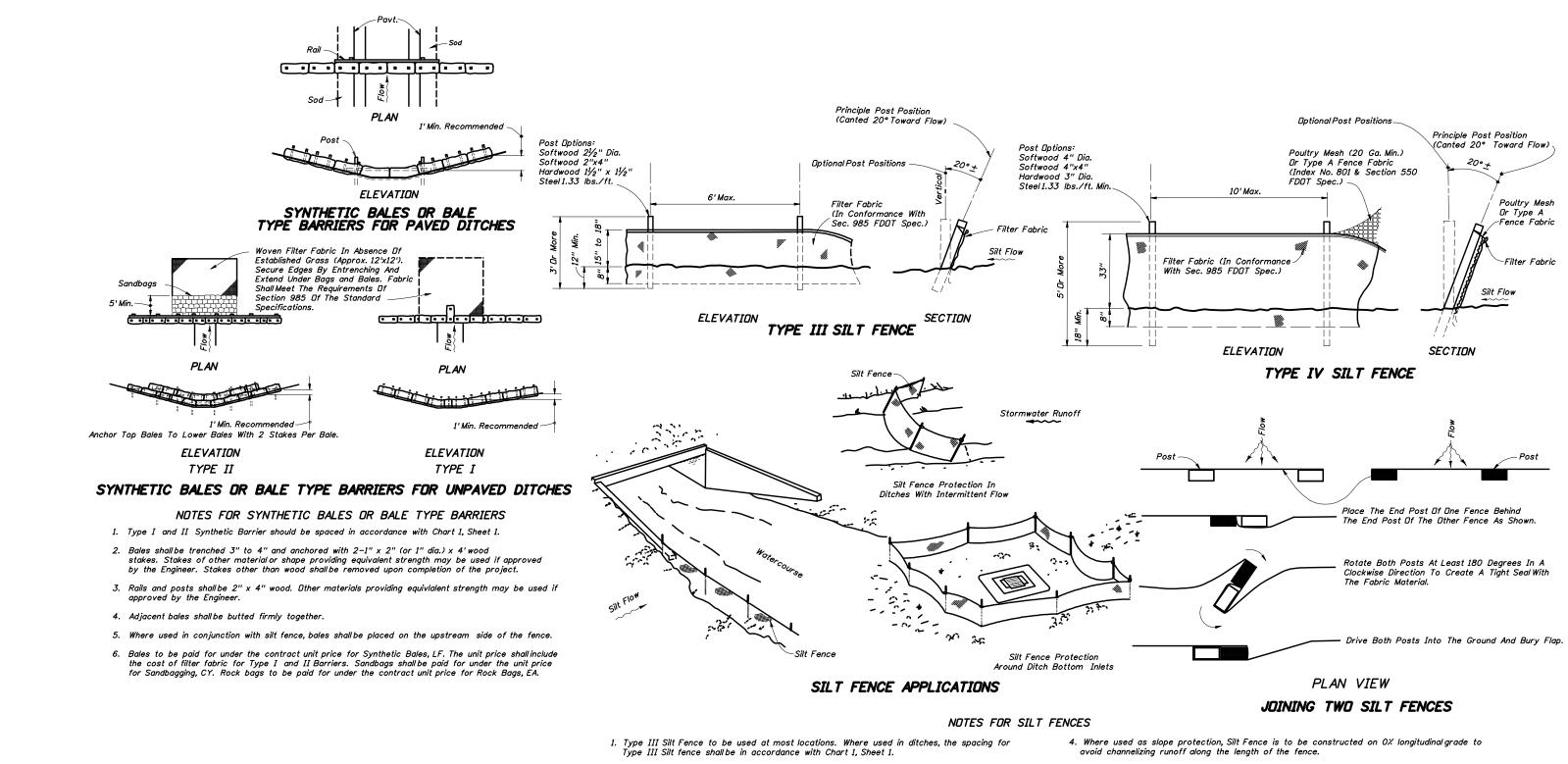
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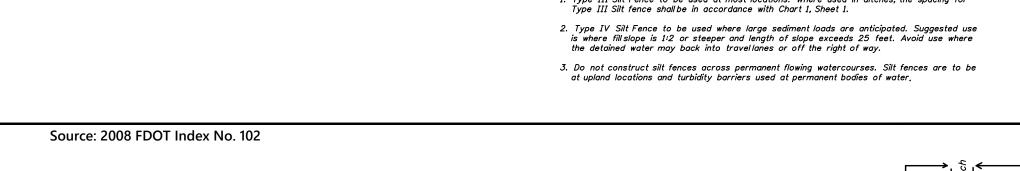




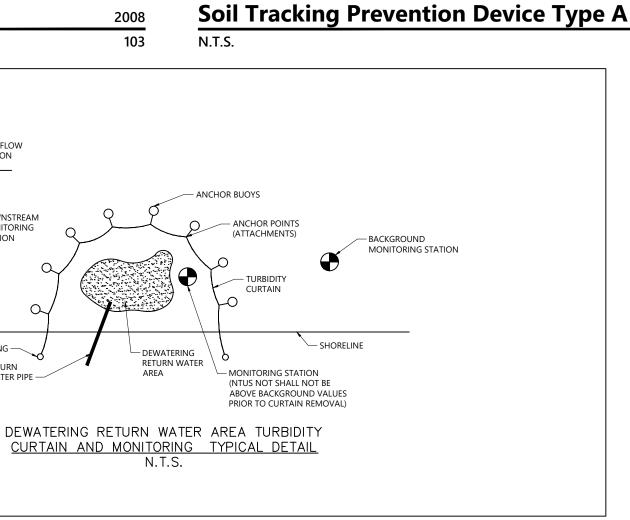








Source: 2008 FDOT Index No. 106



5. Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (LF).

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10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

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Weeki Wachee River

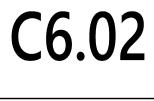
Shoal Line Blvd. to E. Richard Dr. Veeki Wachee, Florida

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

Not Approved for Construction

SWPPP & Erosion Control Details

Drawing Number



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.

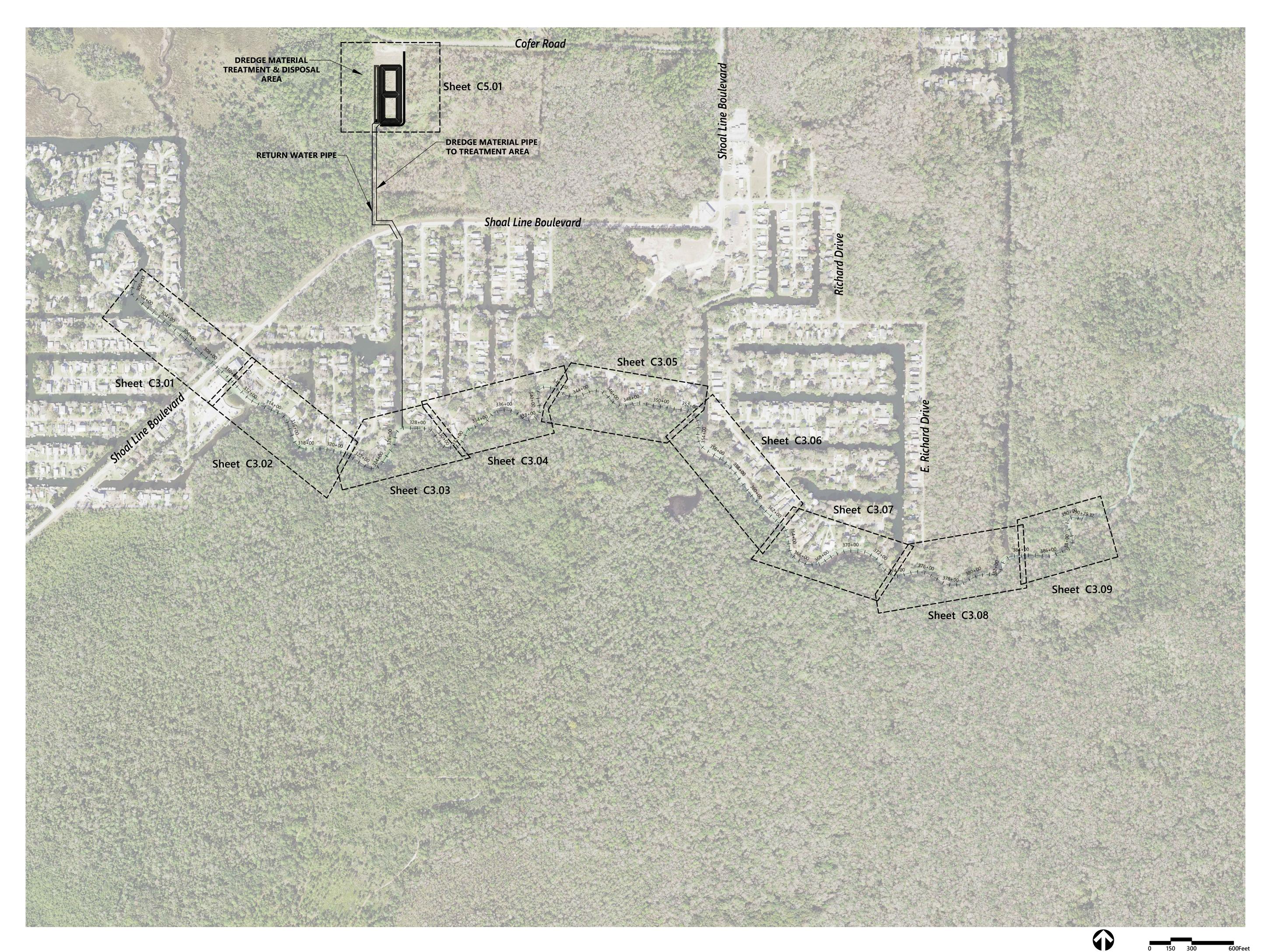
DEMOBILIZATION and RESTORATION

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

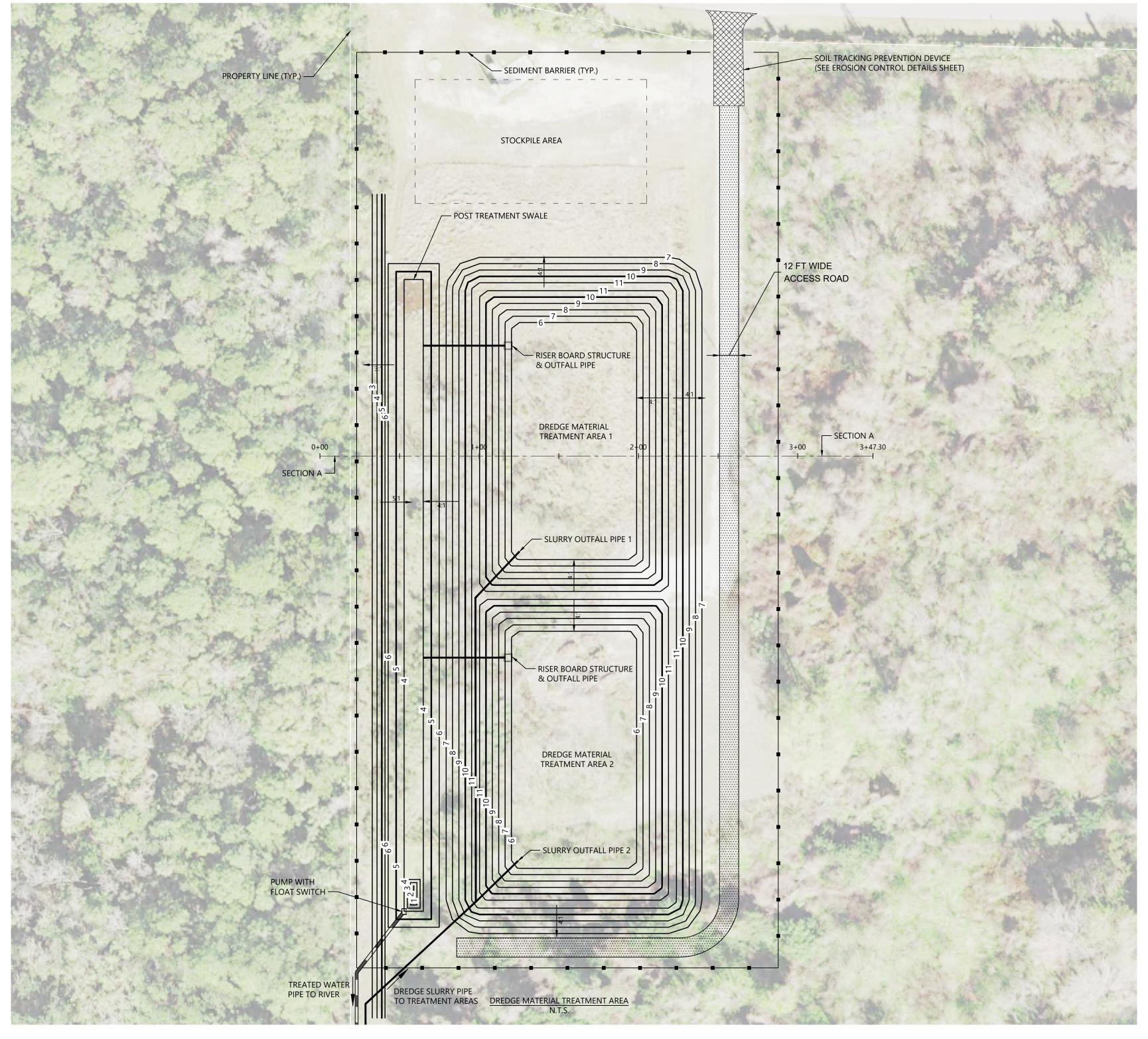
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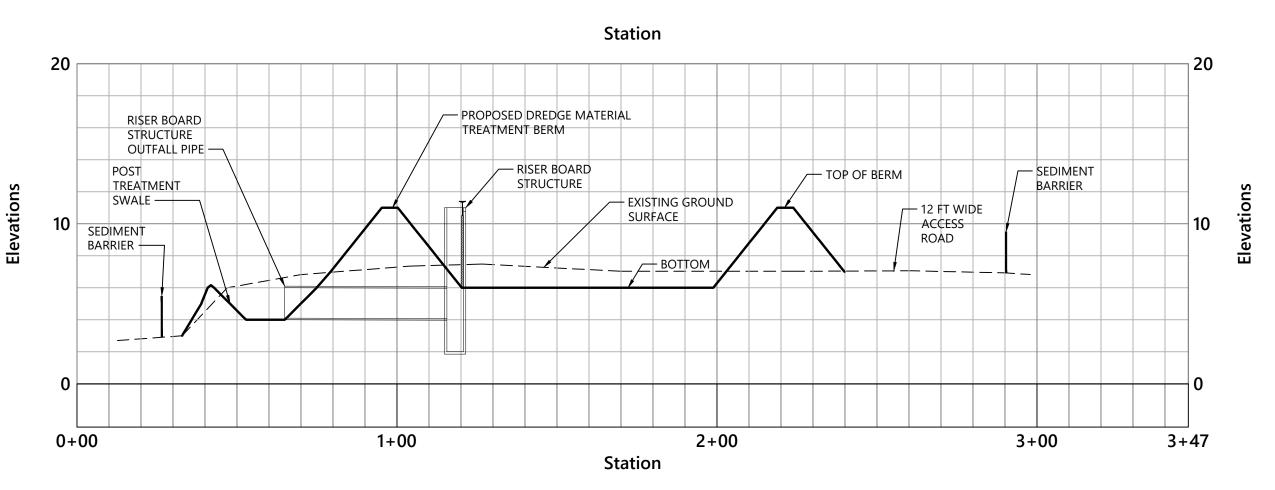
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HERNANDO COUNTY PARCEL



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Weeki Wachee River

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

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Issued	for	Date	
60	% Plans	June 28	, 2019

Not Approved for Construction

Dredge Material Treatment & Disposal Area

Drawing Number

C5.01

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.

NOTES:

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		Canditioner
Water Depth		Conditions:

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:	Background	Compliance	Background	Compliance	Background	Compliance
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 0I Yes*I Yes*NTUs in River or 29 NTUs in canalsI NoI Noabove Background Sample?I NoI No						
*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.