



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

August 19, 2020

St. Johns River Water Management District
Attn: Ann Shortelle
4049 Reid Street
Palatka, FL 32177
ASHORTELE@SJRWMD.COM

File No. 0390337-001-EG, Lake and Orange Counties

Dear Ms. Shortelle:

On July 21, 2020, 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 perform an environmental enhancement project designed to reduce the discharge of phosphorus into Lake Apopka by improving water storage capabilities at Lake Apopka, a Class III Florida waterbody. The project is located on the Duda Property at the Lake Apopka North Shore, Lake and Orange Counties.

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 authorization, therefore, 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 – Approved

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.

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 – Not required

The activity does not appear to be located on sovereign submerged lands, and does not require further authorization under Chapter 253 of the Florida Statutes, or Chapters 18-20 or 18-21 of the Florida Administrative Code.

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 the Application for Department of the Army Permit (ENG 4345) or alternative as allowed by Corps regulations. More information on Corps permitting may be found online in the Jacksonville District Regulatory Division Sourcebook (<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 general permit. 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.

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 subsequent order may modify or take a different position than this action.

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, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; 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 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 Agency_Clerk@dep.state.fl.us. 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 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 Agency_Clerk@dep.state.fl.us, 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.

EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Helen Benson
Environmental Specialist II
Permitting and Waste Cleanup Program

Enclosures:

62-330.485, F.A.C.
General Conditions for All General Permits, Ch. 62-330.405, F.A.C.
Project drawings, 21 pages

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Rebecca Trudeau, SJRWMD, RTRUDEAU@SJRWMD.COM
Lake County, sshort@lakecountyfl.gov
Neal Thomas, Orange County, Neal.thomas@ocfl.net
Helen Benson, FDEP, Helen.Benson@FloridaDEP.gov
Reggie Phillips, FDEP, Reggie.Phillips@FloridaDEP.gov

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

August 19, 2020

Date

62-330.485 General Permit to the Department and Water Management Districts for Environmental Restoration or Enhancement.

(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 General Conditions for All General Permits

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. 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 http://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 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.

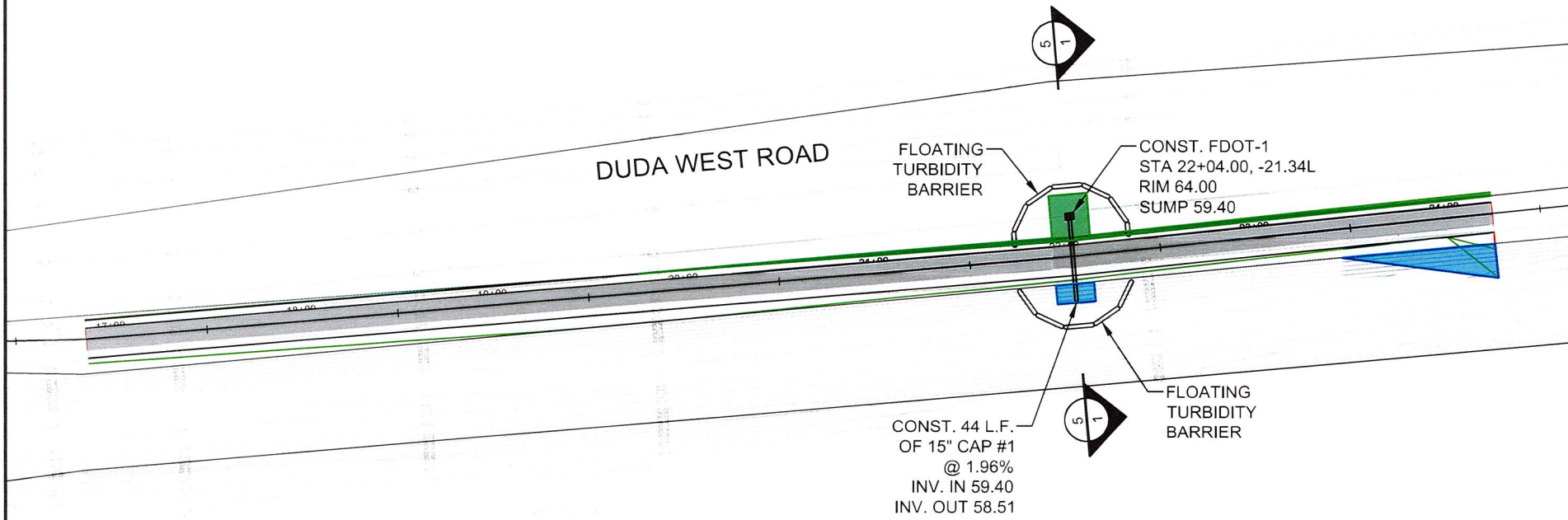
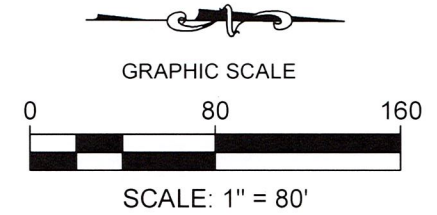
(e) Whenever there is a spill or frac-out of drilling fluid into waters accessible to the above species during a directional drilling operation, the FWC shall be notified at ImperiledSpecies@myfwc.com with details of the event within 24 hours following detection of the spill or frac-out.

(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.

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LEGEND:



SURFACE WATER IMPACTS (FILL) TOTAL 0.02 ACRES
CULVERT 202 S.F. (TEMPORARY), LEVEE 724 S.F. OF FILL



WETLAND IMPACTS (FILL) TOTAL 0.03 ACRES
CULVERT 493 S.F. (TEMPORARY), LEVEE 670 S.F. OF FILL

UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

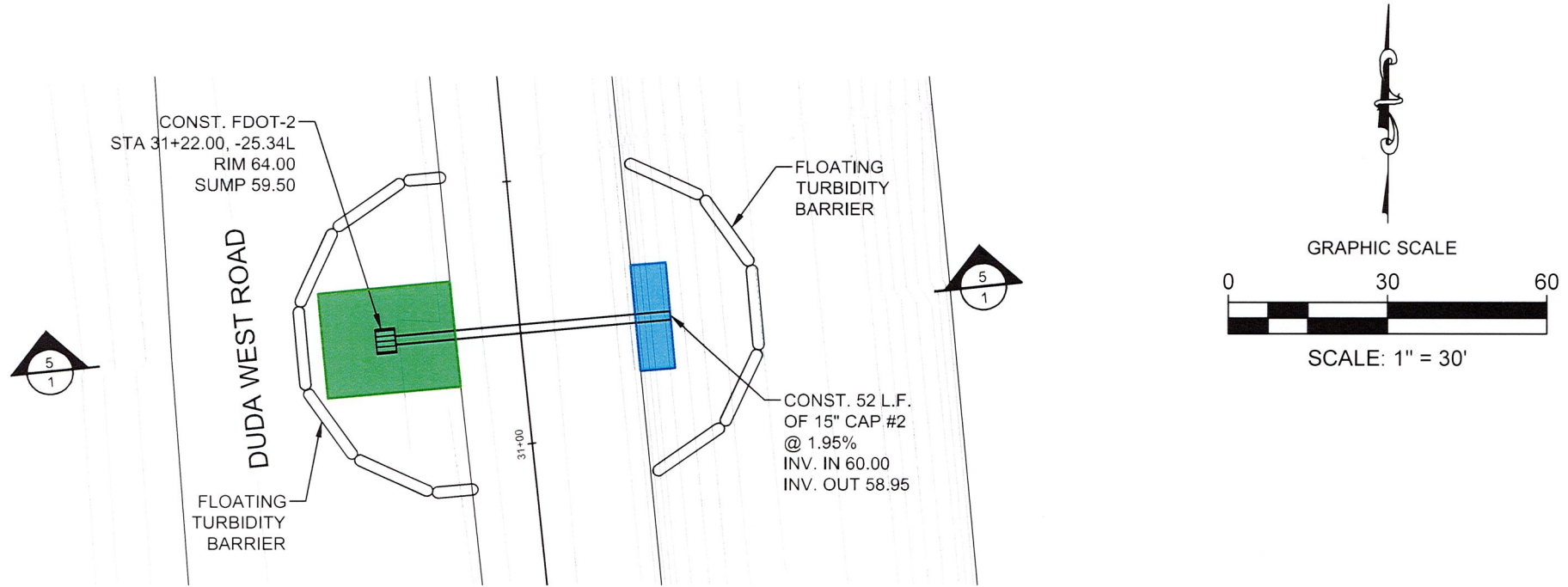
**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429, PALATKA, FLORIDA 32178

DUDA WEST ROAD PLAN

SHEET NUMBER:
3

ROBERT J. NALEWSKY
P.E. # 53197
DATE: JUNE 12, 2020

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LEGEND:

- SURFACE WATER IMPACTS TOTAL 0.003 ACRES
CULVERT 132 S.F. (TEMPORARY)
- WETLAND IMPACTS TOTAL 0.01 ACRES
CULVERT 500 S.F. (TEMPORARY)

UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429, PALATKA, FLORIDA 32178

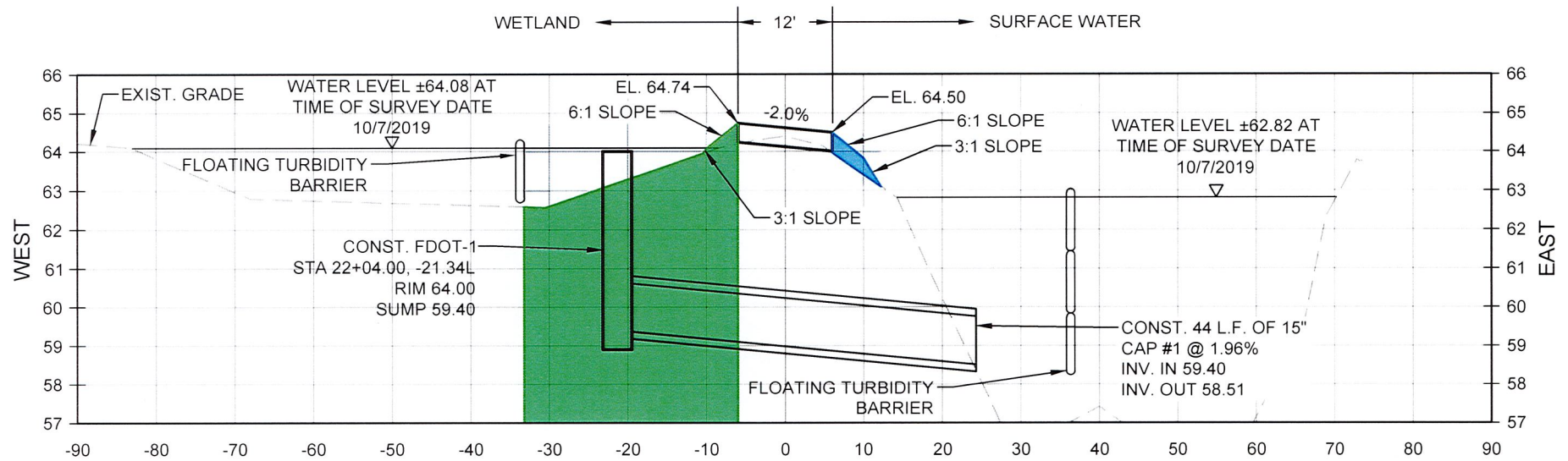
DUDA WEST ROAD STORM PLAN

SHEET NUMBER:
4

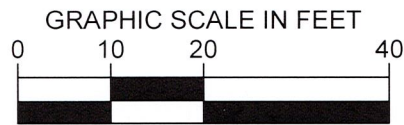
ROBERT J. NALEWY
Professional Engineer
No. 53197
STATE OF FLORIDA

Robert J. Nalewy 7/21/20
ROBERT J. NALEWY P.E. # 53197
DATE: JUNE 12, 2020

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5
1
DUDA WEST ROAD TYPICAL CROSS SECTION



HORIZONTAL



VERTICAL

LEGEND:

- SURFACE WATER IMPACTS
- WETLAND TEMPORARY IMPACTS

ROBERT J. NALEWAY
LICENSE NO. 53197
DATE: 7/21/20
ROBERT J. NALEWAY P.E. # 53197
DATE: JUNE 12, 2020

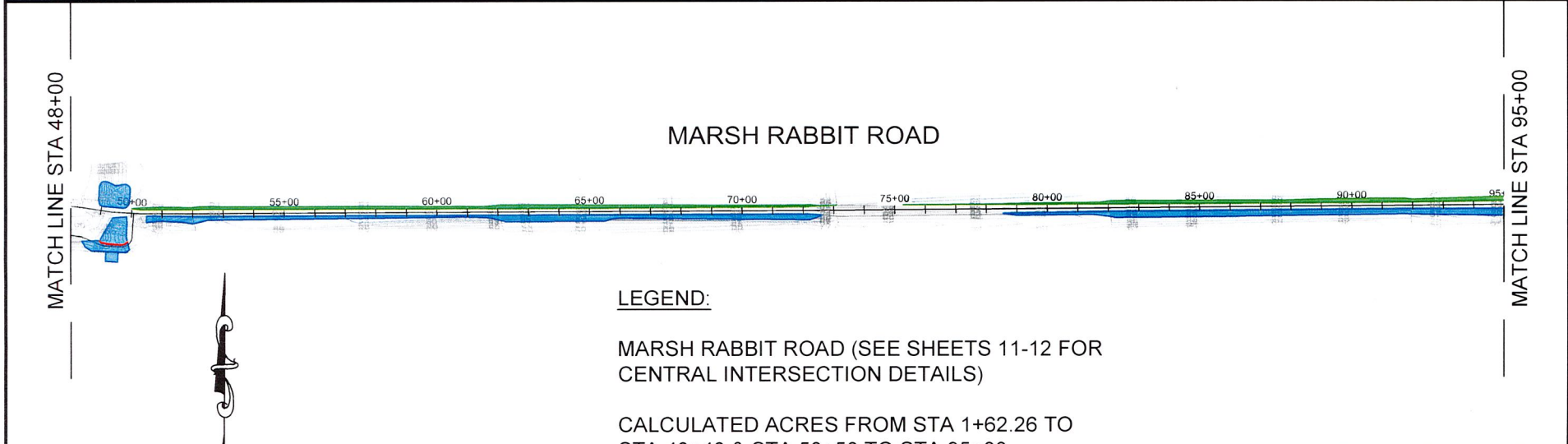
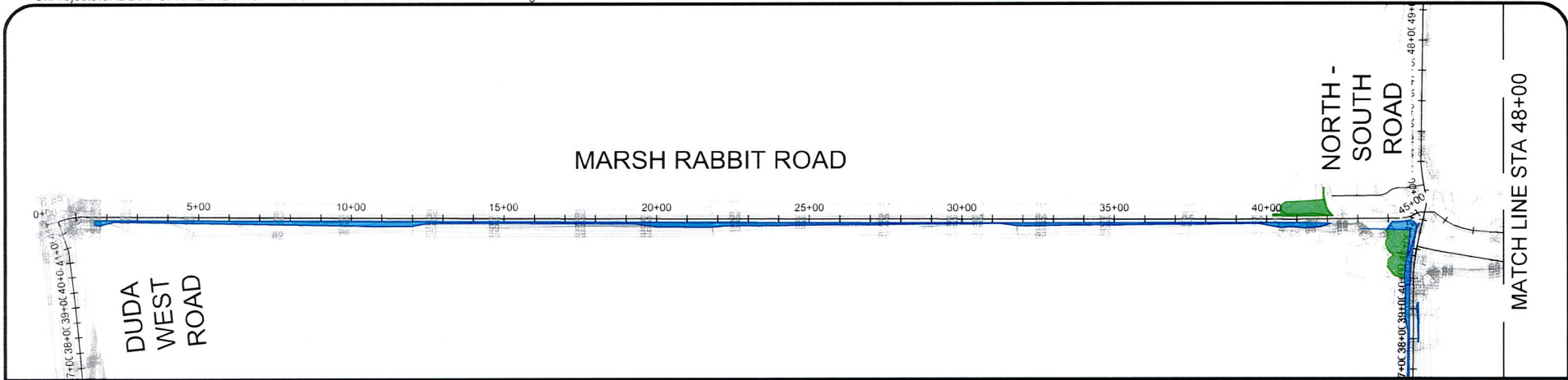
UPPER OCKLAWAHA RIVER BASIN
LAKE AOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429, PALATKA, FLORIDA 32178

DUDA ROAD TYPICAL CROSS SECTION

SHEET NUMBER:
5

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LEGEND:

MARSH RABBIT ROAD (SEE SHEETS 11-12 FOR CENTRAL INTERSECTION DETAILS)

CALCULATED ACRES FROM STA 1+62.26 TO STA 40+40 & STA 50+50 TO STA 95+00



SURFACE WATER IMPACTS (FILL) TOTAL 2.03 ACRES



WETLAND IMPACTS (FILL) TOTAL 0.82 ACRES OF

GRAPHIC SCALE



SCALE: 1" = 500'

UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

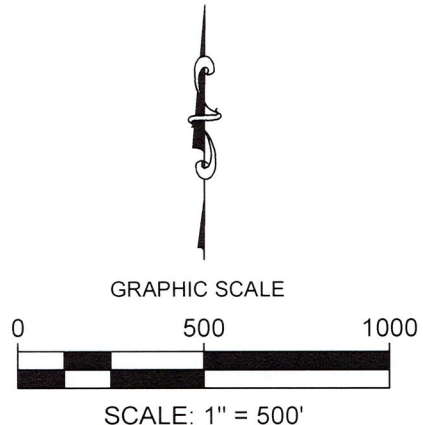
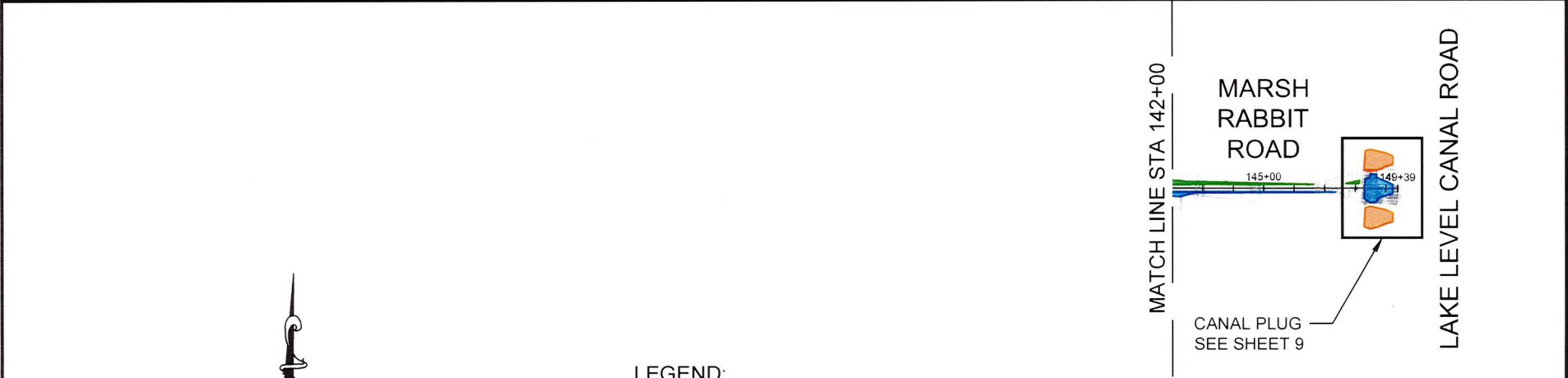
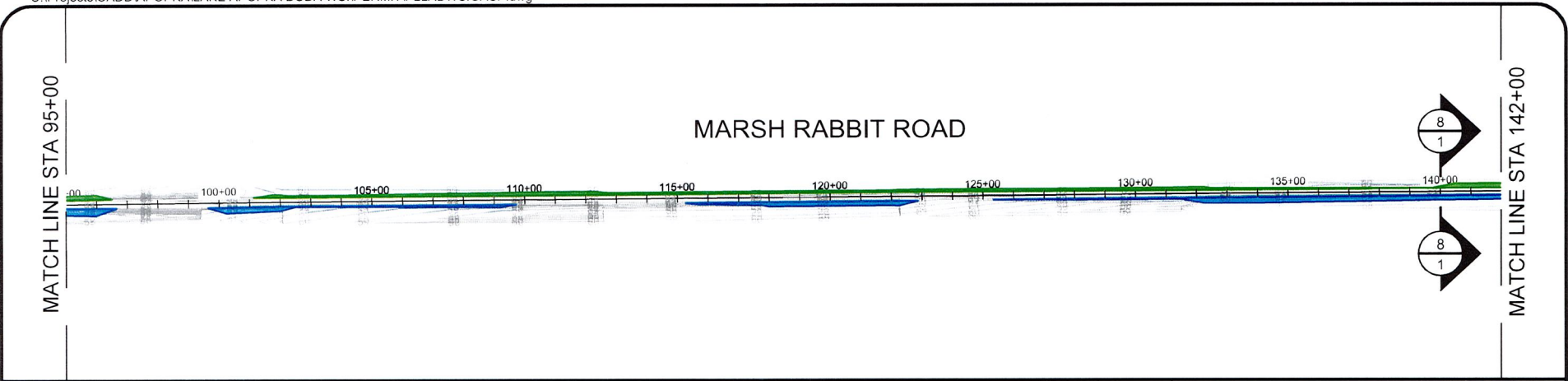
**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429, PALATKA, FLORIDA 32178

MARSH RABBIT ROAD PLAN

SHEET NUMBER:
6

Robert J. Naleyway 7/21/20
ROBERT J. NALEYWAY P.E. # 53197
DATE: JUNE 12, 2020

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LEGEND:

CALCULATED ACRES FROM STA 95+00 TO STA 147+50

 SURFACE WATER IMPACTS (FILL) TOTAL 0.86 ACRES

 WETLAND IMPACTS (FILL) TOTAL 0.73 ACRES

UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

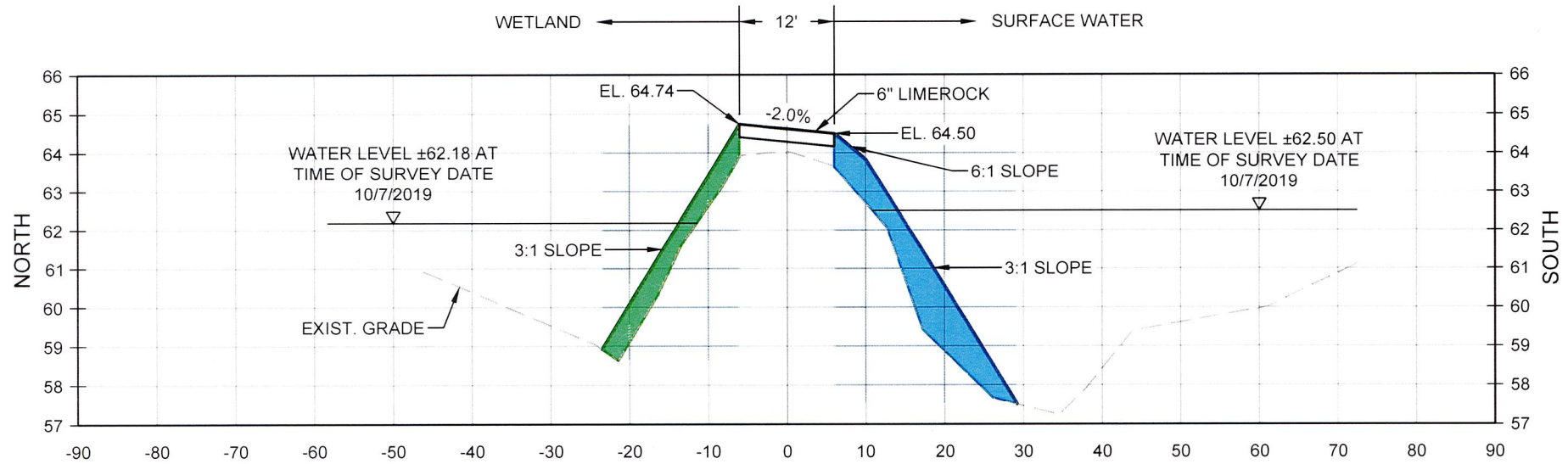
**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429, PALATKA, FLORIDA 32178

MARSH RABBIT ROAD PLAN

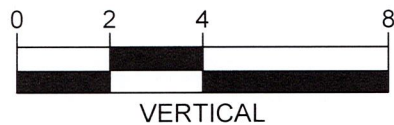
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7

Robert J. Naleway 2/21/20
ROBERT J. NALEWAY P.E. # 53197
DATE: JUNE 10, 2020

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8
1
MARSH RABBIT ROAD TYPICAL CROSS SECTION



LEGEND:

- SURFACE WATER IMPACTS
- WETLAND IMPACTS

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT

P.O. BOX 1429, PALATKA, FLORIDA 32178

Robert J. Naleway 7/21/20

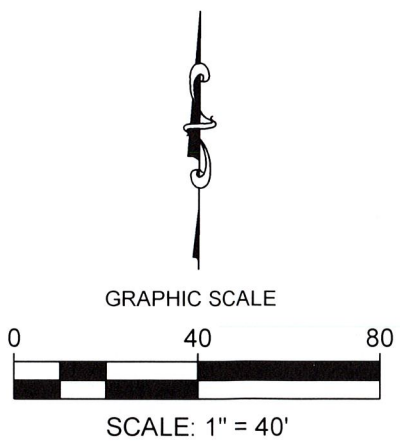
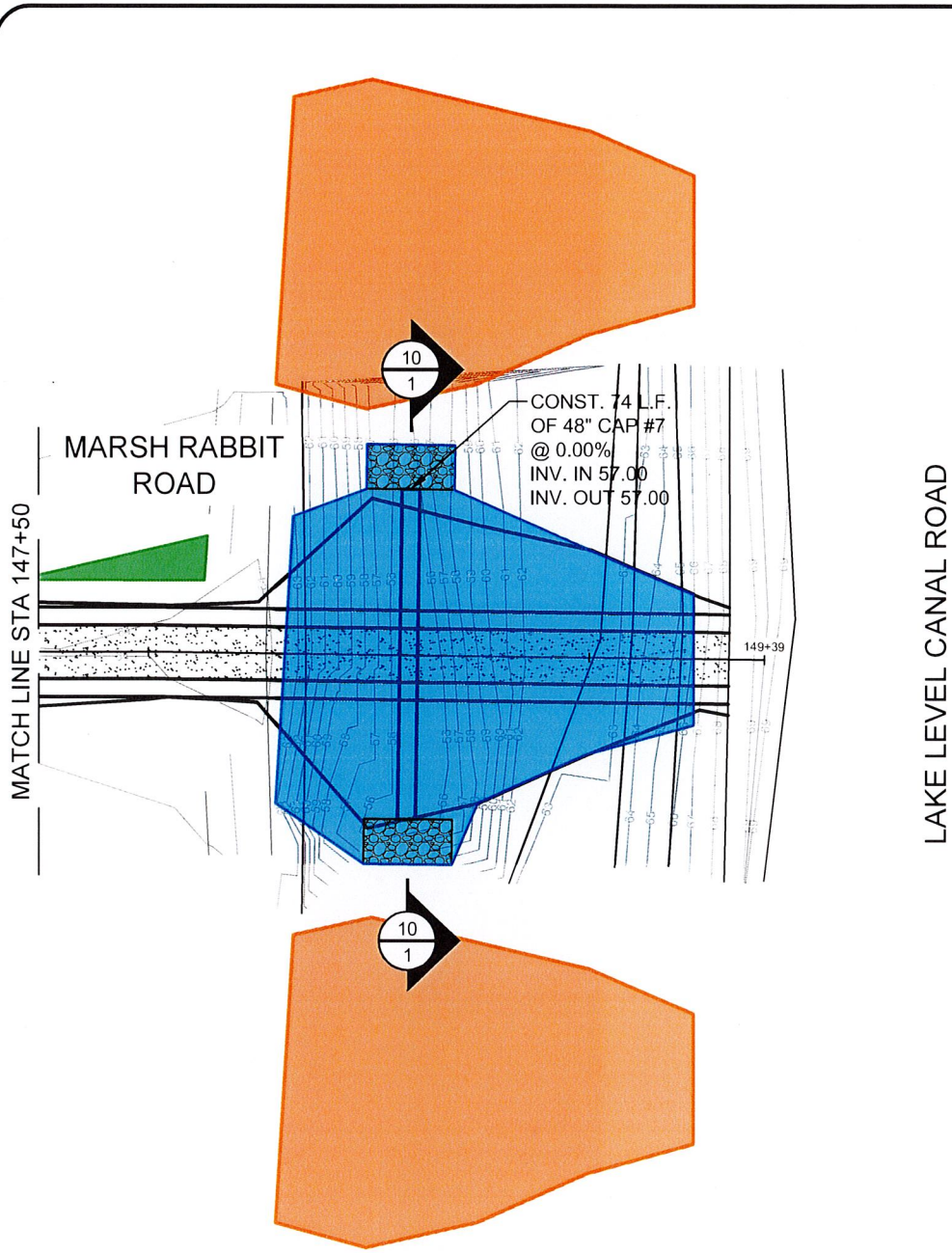
ROBERT J. NALEWAY P.E. # 53197
DATE: JUNE 12, 2020

UPPER OCKLAWAHA RIVER BASIN
 LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
 LAKE COUNTY AND ORANGE COUNTY, FLORIDA


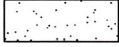



MARSH RABBIT ROAD TYPICAL SECTION

**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
 P.O. BOX 1429, PALATKA, FLORIDA 32178

SHEET NUMBER:
8



LEGEND:

-  TEMPORARY COFFERDAMS 0.24 ACRES FILL
-  LIMEROCK
-  RIPRAP
-  SURFACE WATER IMPACTS (FILL) 0.14 ACRES
-  WETLAND IMPACTS (FILL) 0.005 ACRES

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UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

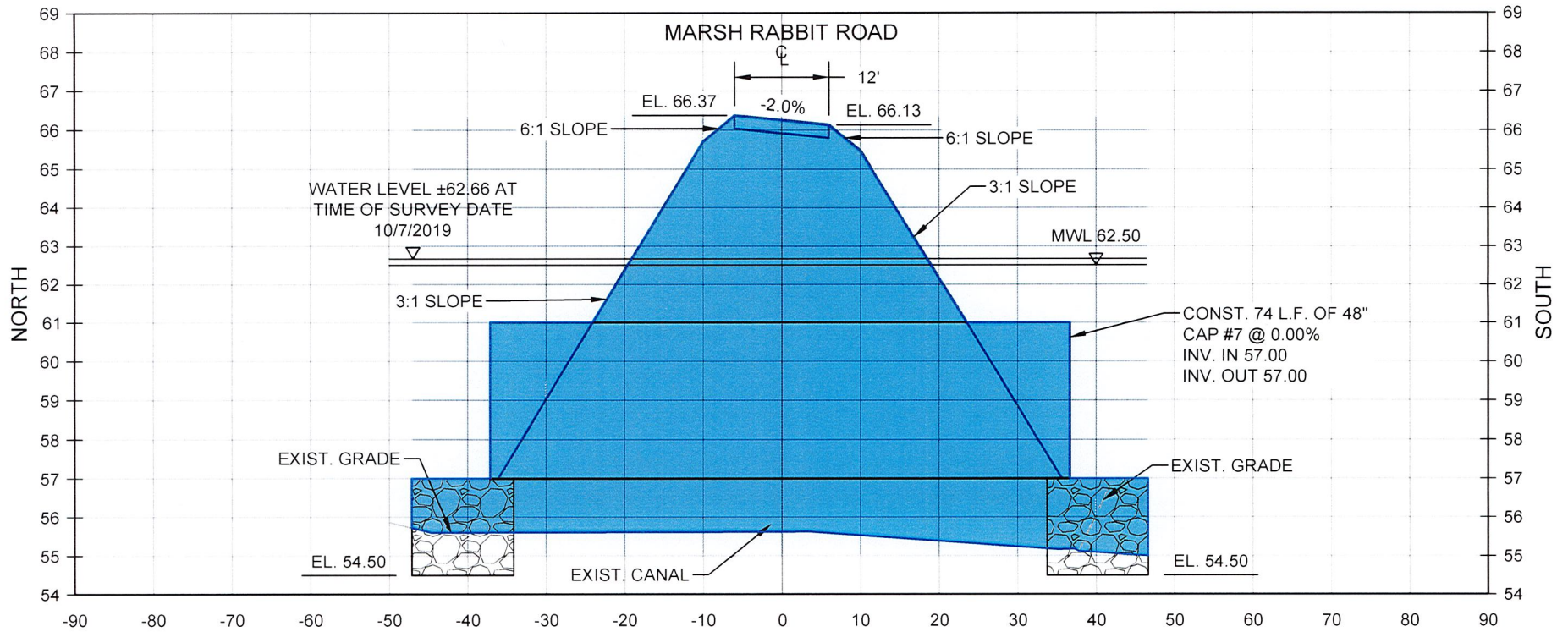
**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429, PALATKA, FLORIDA 32178

LAKE LEVEL CANAL ROAD PLUG PLAN

SHEET NUMBER:
9

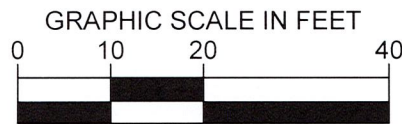
ROBERT J. NALEVAY P.E. # 53197
DATE: JUNE 12, 2020

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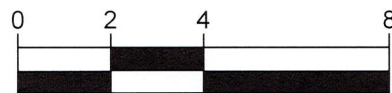


10
1

LAKE LEVEL CANAL ROAD PLUG CROSS SECTION



HORIZONTAL



VERTICAL

LEGEND:



RIPRAP



SURFACE WATER IMPACTS

UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

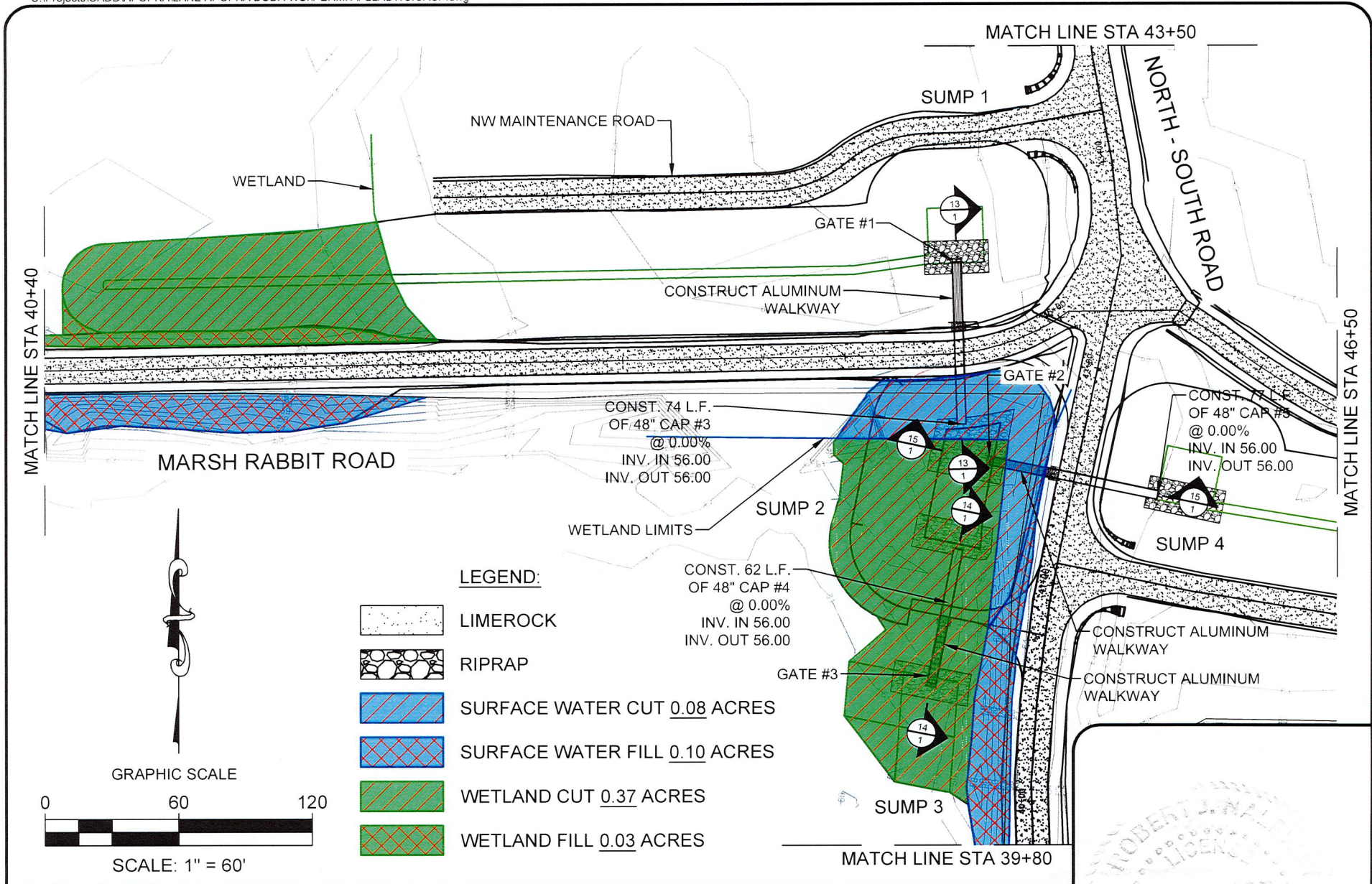
ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429, PALATKA, FLORIDA 32178

LAKE LEVEL CANAL ROAD PLUG CROSS SECTION

SHEET NUMBER:
10

ROBERT J. NALEWAY
P.E. # 53197
No. 53197
STATE OF FLORIDA
Robert J. Naleway 7/21/20
ROBERT J. NALEWAY P.E. # 53197
DATE: JUNE 12, 2020

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UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429, PALATKA, FLORIDA 32178

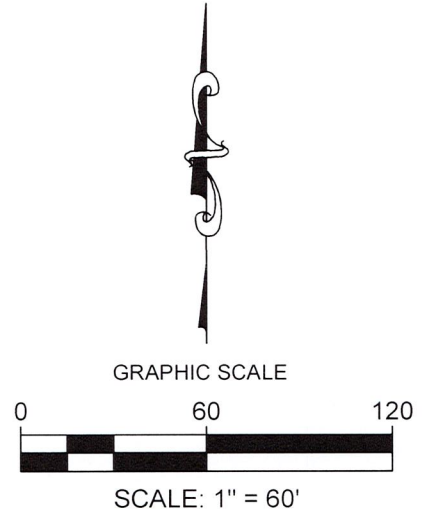
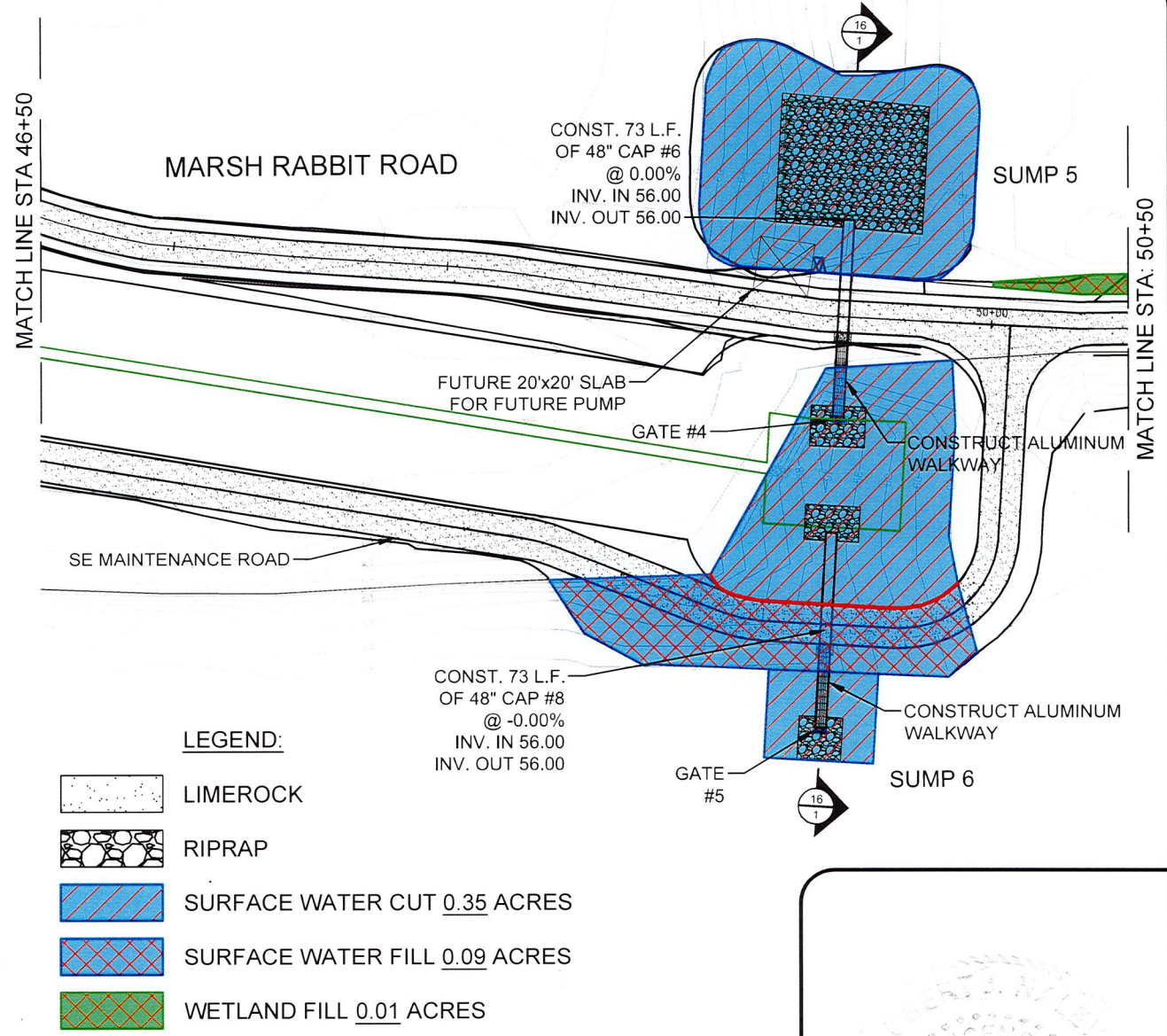
CENTRAL INTERSECTION

SHEET NUMBER:
11

ROBERT J. NALLEWAY
P.E. # 53197
DATE: JUNE 12, 2020

Robert J. Nalley 7/21/20

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UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

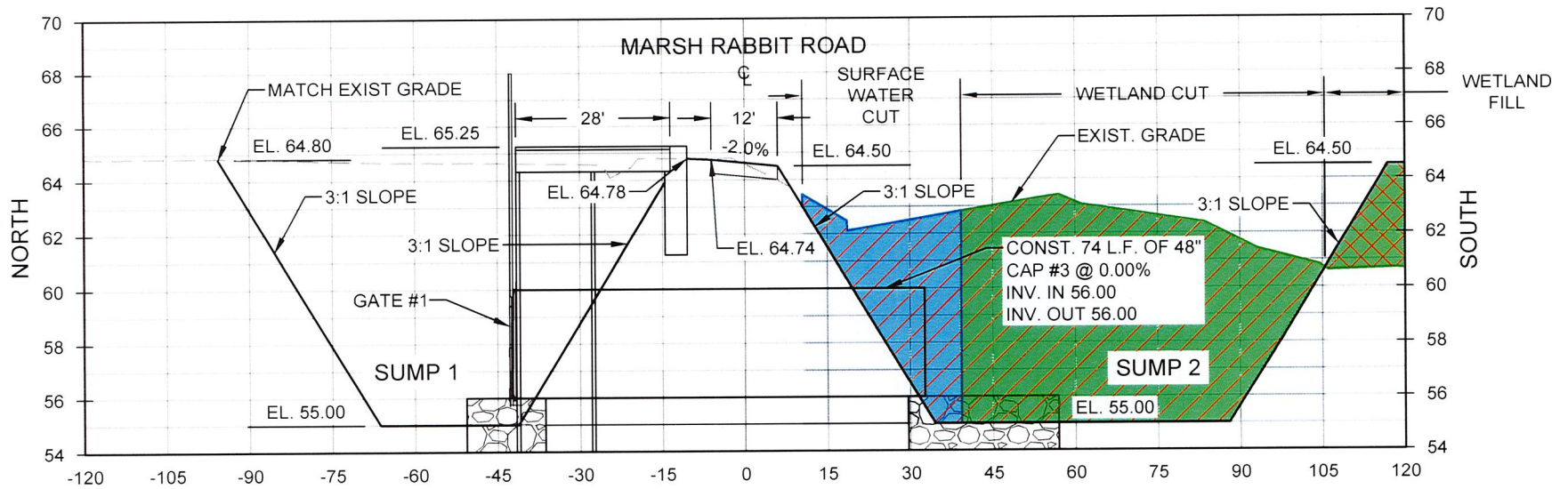
**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429, PALATKA, FLORIDA 32178

CENTRAL INTERSECTION

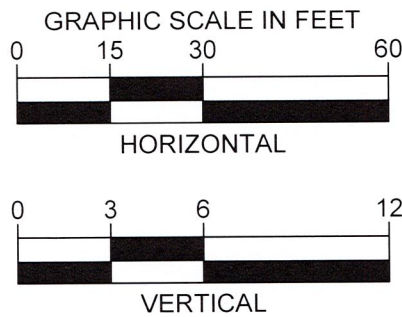
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Robert J. Naleway 7/21/20
ROBERT J. NALEWAY P.E. # 53197
DATE: JUNE 12, 2020

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13
1 GATE STRUCTURE #1 CROSS SECTION STA 44+51.49



LEGEND:

-  RIPRAP
-  SURFACE WATER FILL
-  WETLAND CUT
-  WETLAND FILL

UPPER OCKLAWAHA RIVER BASIN
 LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
 LAKE COUNTY AND ORANGE COUNTY, FLORIDA

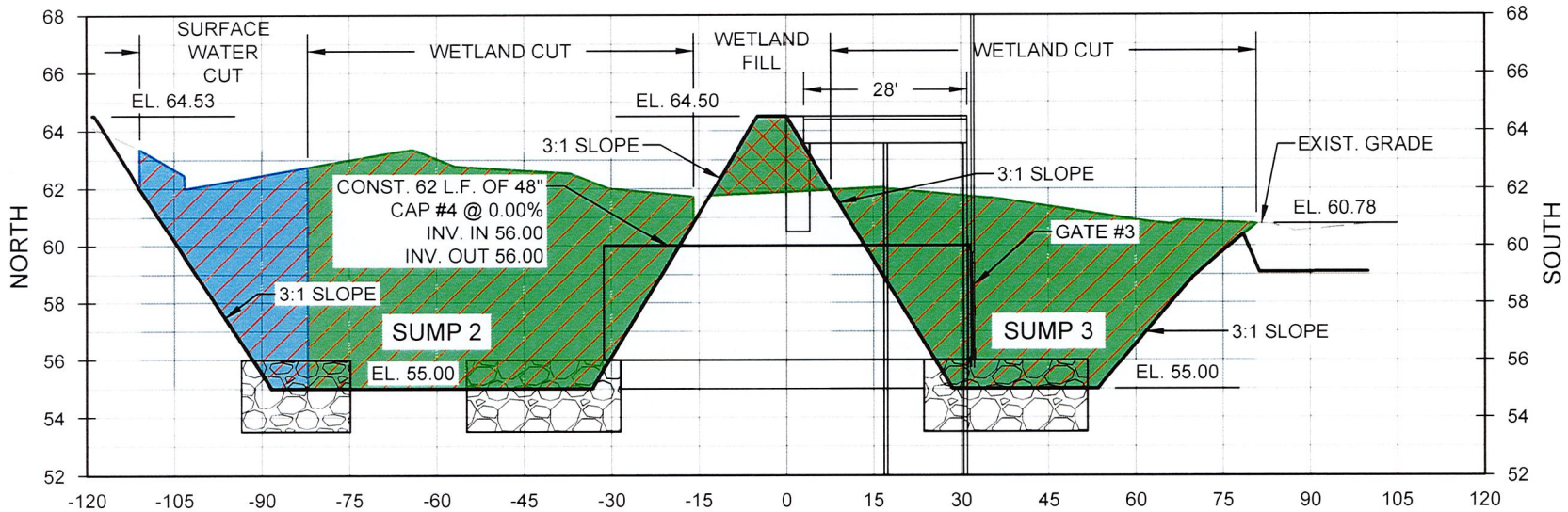
ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
 P.O. BOX 1429, PALATKA, FLORIDA 32178

CENTRAL INTERSECTION CROSS SECTION

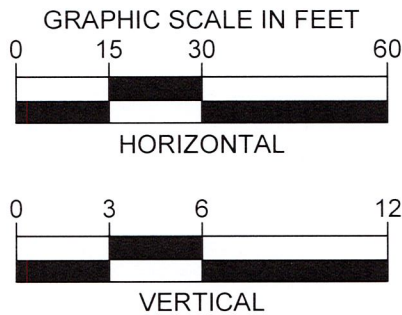
SHEET NUMBER:
 13

Robert J. Naleway 7/21/20
 ROBERT J. NALEWAY P.E. # 53197
 DATE: JUNE 12, 2020

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14
1 GATE STRUCTURE #3 CROSS SECTION STA 0+15.97



LEGEND:

-  RIPRAP
-  SURFACE WATER CUT
-  WETLAND CUT
-  WETLAND FILL

UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

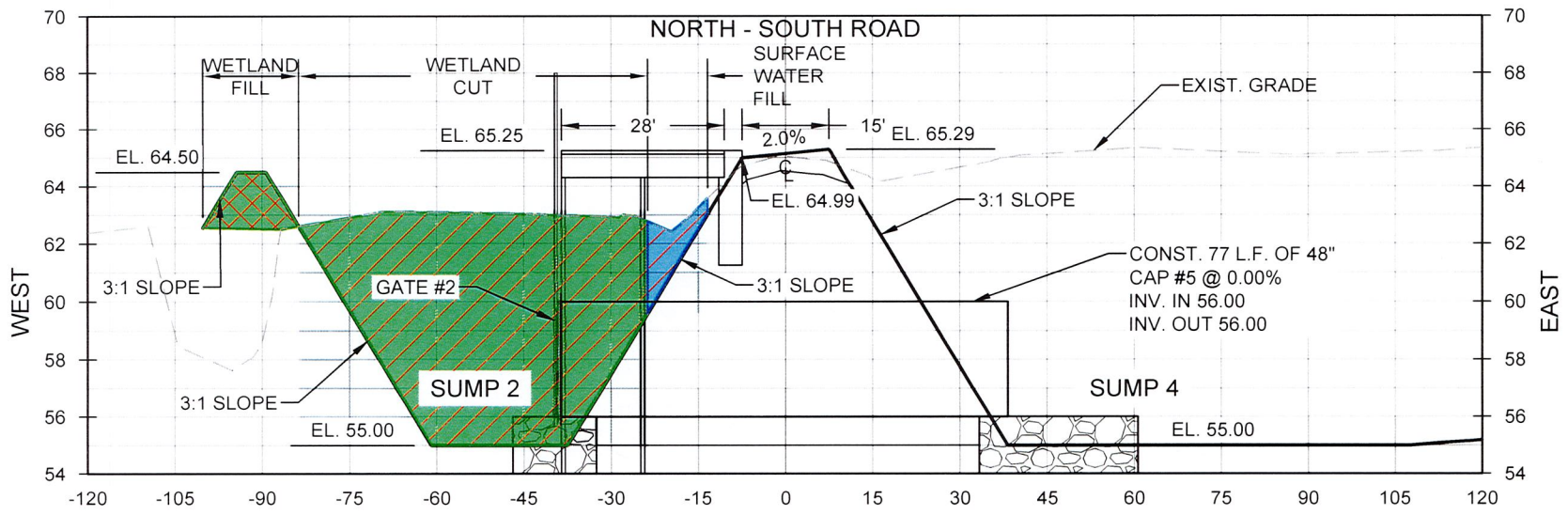
**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429, PALATKA, FLORIDA 32178

CENTRAL INTERSECTION CROSS SECTION

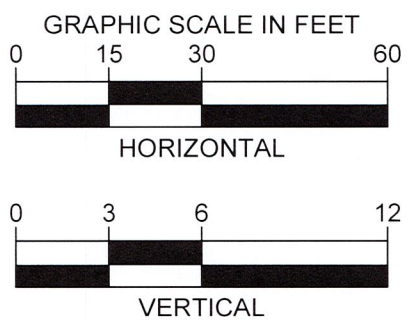
SHEET NUMBER:
14

Robert J. Naleway 7/21/20
ROBERT J. NALEWAY P.E. # 53197
DATE: JUNE 12, 2020

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15
1 GATE STRUCTURE #2 CROSS SECTION 41+38.61



- LEGEND:**
-  RIPRAP
 -  SURFACE WATER CUT
 -  WETLAND CUT
 -  WETLAND FILL

ROBERT J. NALEWAY
 P.E. # 53197
 DATE: JUNE 12, 2020
Robert J. Naleway 2/21/20

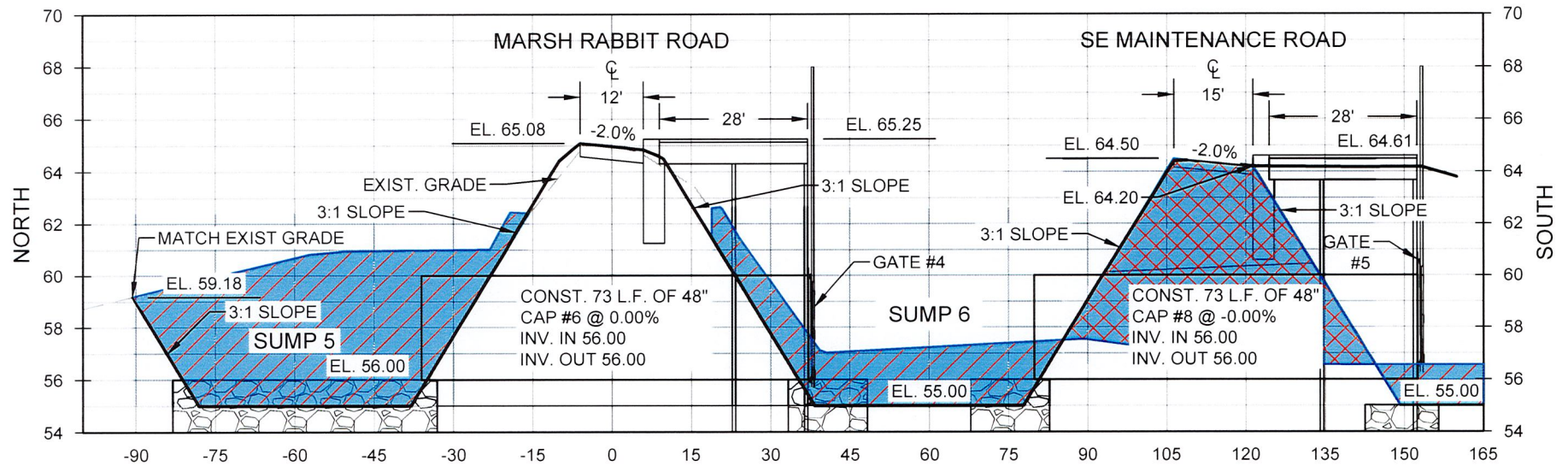
UPPER OCKLAWAHA RIVER BASIN
 LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
 LAKE COUNTY AND ORANGE COUNTY, FLORIDA

**ST. JOHNS RIVER
 WATER MANAGEMENT DISTRICT**
 P.O. BOX 1429, PALATKA, FLORIDA 32178

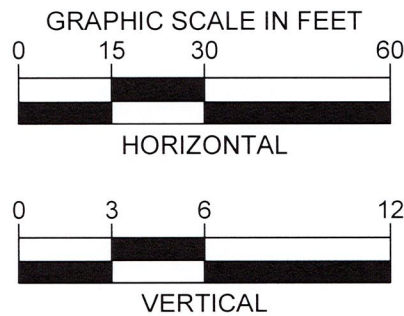
CENTRAL INTERSECTION CROSS SECTION

SHEET NUMBER:
 15

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16
1
GATE STRUCTURES #4 & #5 CROSS SECTION STA 49+45.93



LEGEND:

- RIPRAP
- SURFACE WATER CUT
- SURFACE WATER FILL

UPPER OCKLAWAHA RIVER BASIN
 LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
 LAKE COUNTY AND ORANGE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
 P.O. BOX 1429, PALATKA, FLORIDA 32178

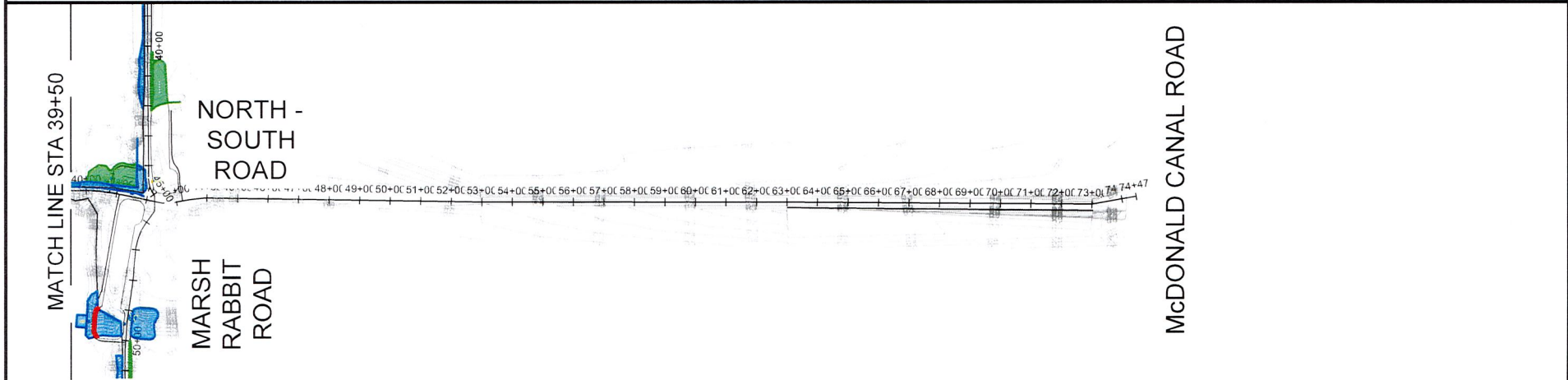
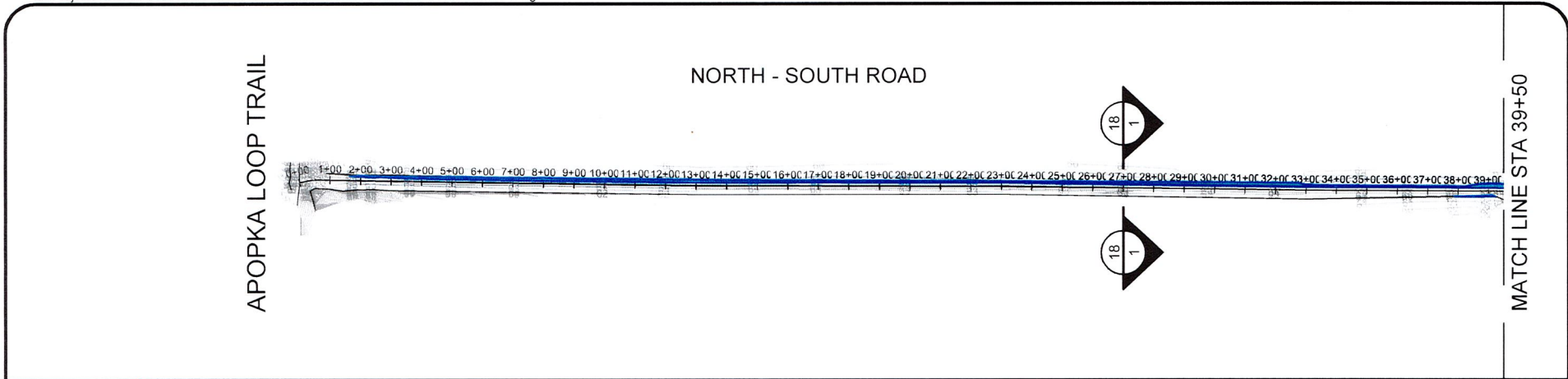
CENTRAL INTERSECTION CROSS SECTION

SHEET NUMBER:
 16

ROBERT J. NALEWAY
 P.E. # 53197
 DATE: JUNE 12, 2020

Robert J. Naleway 7/21/20

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LEGEND:

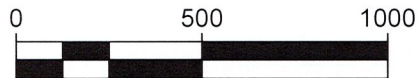
NORTH - SOUTH ROAD (SEE SHEETS 11-12 FOR CENTRAL INTERSECTION DETAILS)

CALCULATED ACRES FROM STA 0+00 TO STA 39+50

 SURFACE WATER IMPACTS (FILL) TOTAL 0.35 ACRES



GRAPHIC SCALE



SCALE: 1" = 500'

UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

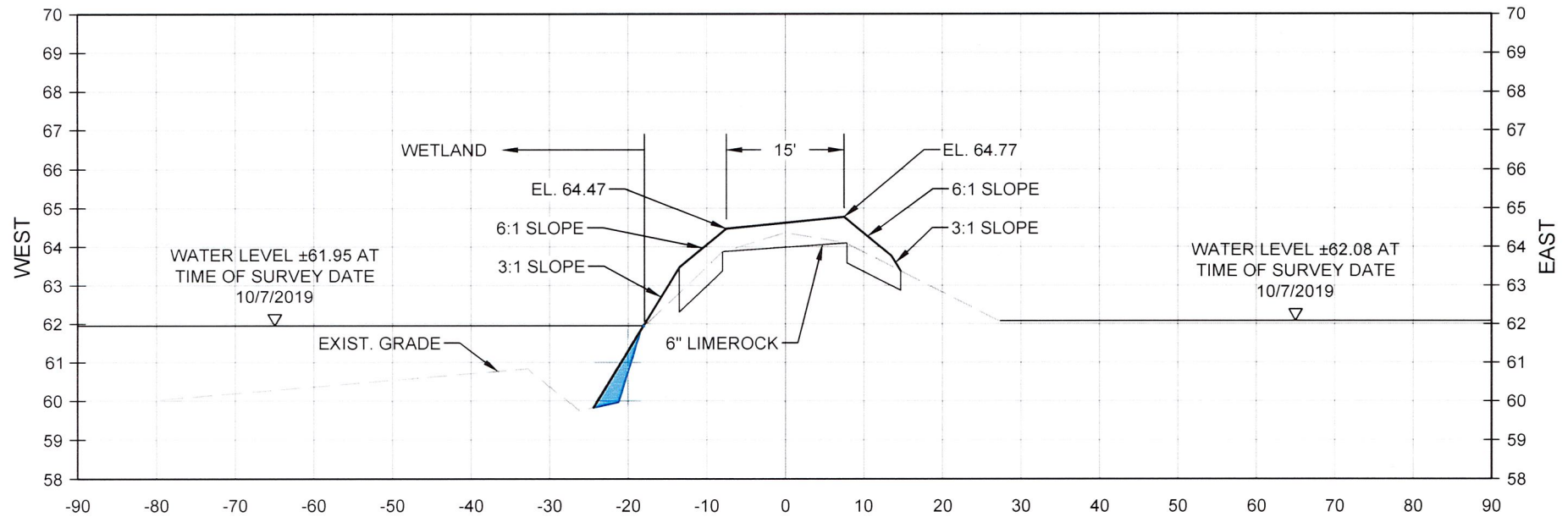
**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429, PALATKA, FLORIDA 32178

NORTH - SOUTH ROAD PLAN

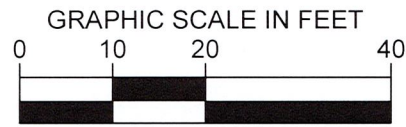
SHEET NUMBER:
17

Robert J. Nalewaj 7/2/20
ROBERT J. NALEWAJ P.E. # 53197
DATE: JUNE 12, 2020

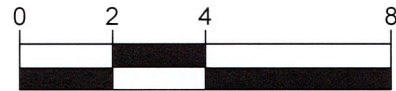
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18
1 NORTH - SOUTH ROAD TYPICAL CROSS SECTION



HORIZONTAL



VERTICAL

LEGEND:

 WETLAND IMPACTS

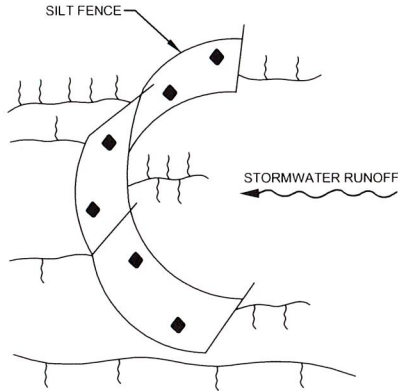
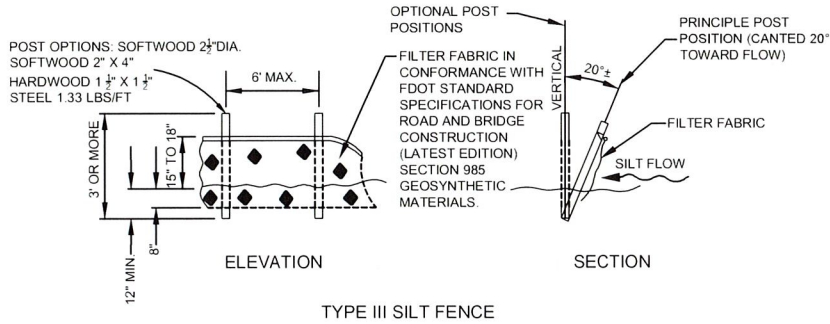
UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429, PALATKA, FLORIDA 32178

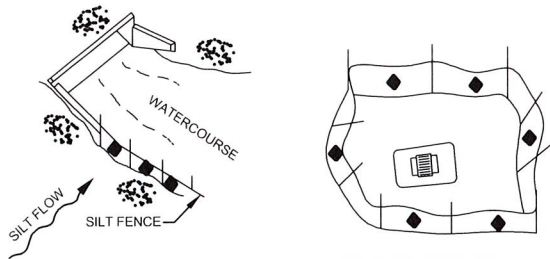
NORTH - SOUTH ROAD TYPICAL CROSS SECTION

SHEET NUMBER:
18

Robert J. Naleway 7/21/20
ROBERT J. NALEWAY P.E. # 53197
DATE: JUNE 12, 2020



SILT FENCE PROTECTION IN DITCHES WITH INTERMITTENT FLOW



SILT FENCE APPLICATIONS

NOTES FOR SILT FENCES

1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH SECTION V OF THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013).
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
5. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, (LF).

TEMPORARY SILT FENCE DETAIL
NOT TO SCALE

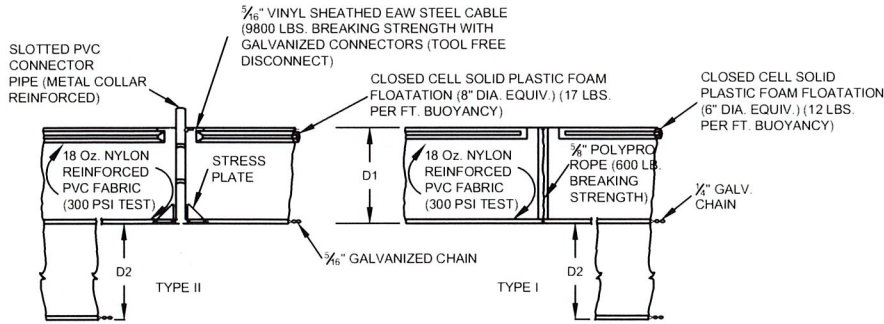
UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
LAKE COUNTY AND ORANGE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429, PALATKA, FLORIDA 32178

EROSION AND SEDIMENT CONTROL

SHEET NUMBER:
19

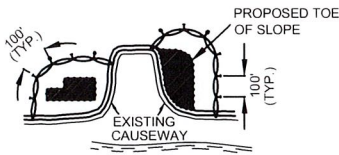
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D1= 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
 D2= 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5')
 CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

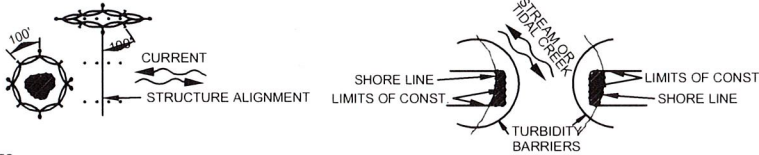
NOTICE: COMPONENTS OF TYPE I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGN. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS
 NOT TO SCALE



GENERAL NOTES:

1. FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIER, LF.
2. STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.



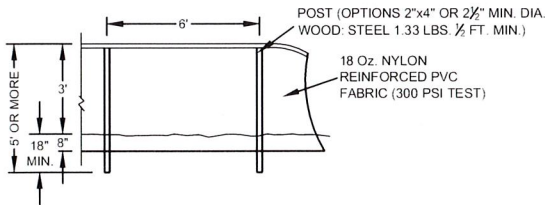
NOTES:

1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5. TURBIDITY BARRIERS SHALL CONFORM TO SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

LEGEND

- PILE LOCATIONS
- ▨ DREDGE OR FILL AREA
- MOORING BUOY W/ANCHOR
- ANCHOR
- ↻ BARRIER MOVEMENT DUE TO CURRENT ACTION

TURBIDITY BARRIER APPLICATIONS
 NOT TO SCALE



STAKED TURBIDITY BARRIER
 NOT TO SCALE

NOTES:

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTIONS UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE PAY ITEM(S) ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE DISTRICT.

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UPPER OCKLAWAHA RIVER BASIN
 LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS
 LAKE COUNTY AND ORANGE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
 P.O. BOX 1429, PALATKA, FLORIDA 32178

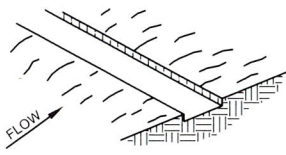
EROSION AND SEDIMENT CONTROL

SHEET NUMBER:

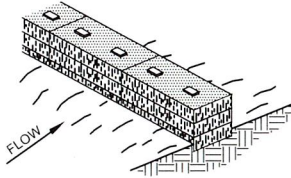
20

Professional Engineer Seal: ROBERT J. NALEWAY, No. 53197
 Signature: Robert J. Naleway 7/21/20
 DATE: JUNE 12, 2020 P.E. # 53197

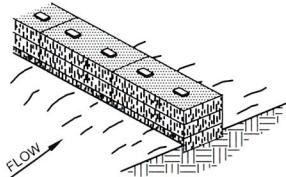
1. EXCAVATE THE TRENCH.
4" DEEP BY THE BALE WIDTH.



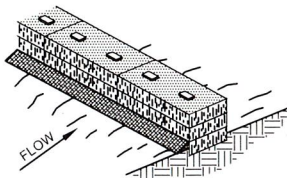
2. PLACE AND STAKE BALES.



3. WEDGE LOOSE STRAW BETWEEN THE BALES.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



NOTES:

1. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
2. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

HAY BALE BARRIER
NOT TO SCALE

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL WORK AT COMPLETION OF CONSTRUCTION.
2. ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
3. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
4. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
5. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
6. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND GRASSED.
7. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS, PERMITS, AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT CRITERIA.
8. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (LATEST EDITION).
9. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, WATERED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. GRASSING SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 570 AND 981 THRU 983 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITIONS), NOTE THAT OTHER GRASSING ALTERNATIVES MAY BE USED WITH PRIOR DISTRICT APPROVAL.

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UPPER OCKLAWAHA RIVER BASIN LAKE APOPKA DUDA WATER STORAGE IMPROVEMENTS LAKE COUNTY AND ORANGE COUNTY, FLORIDA	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT P.O. BOX 1429, PALATKA, FLORIDA 32178
EROSION AND SEDIMENT CONTROL	SHEET NUMBER: 21

ROBERT J. NALEWAY
 LICENCE
 No. 53197
 STATE OF FLORIDA
Robert J. Naleway 7/21/20
 ROBERT J. NALEWAY P.E. # 53197
 DATE: JUNE 12, 2020