RESOLUTION  $\mathbf{BY}$ THE **BOARD OF** COUNTY COMMISSIONERS ST. **JOHNS** COUNTY. OF FLORIDA. APPROVING THE TERMS, PROVISIONS, CONDITIONS, AND REQUIREMENTS OF AN AMENDMENT TO THE GRANT WITH AGREEMENT THE FLORIDA DEPARTMENT ENVIRONMENTAL PROTECTION (FDEP) RELATED TO THE MASTERS TRACT REGIONAL STORMWATER TREATMENT FACILITY; AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO EXECUTE THE AMENDMENT TO THE GRANT AGREEMENT WITH FDEP ON BEHALF OF THE **APPROVING COUNTY:** THE TERMS, PROVISIONS, CONDITIONS, AND REQUIREMENTS OF AN AMENDMENT AND RESTATEMENT **OF** THE **MEMORANDUM AGREEMENT** WITH THE ST. **JOHNS** RIVER WATER MANAGEMENT DISTRICT (DISTRICT) RELATED TO THE MASTERS TRACT REGIONAL STORMWATER TREATMENT **FACILITY**; AND **AUTHORIZING** THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO EXECUTE AMENDMENT AND RESTATEMENT OF THE MEMORANDUM OF AGREEMENT WITH THE DISTRICT ON BEHALF OF THE COUNTY.

### **RECITALS**

**WHEREAS**, FDEP is in receipt of federal financial assistance from the U.S. Environmental Protection Agency; and

WHEREAS, St. Johns County (County) has been determined to be a recipient of this federal financial assistance; and

WHEREAS, as authorized by St. Johns County Resolution No. 2014-222, the County previously entered into a grant agreement with FDEP, FDEP Agreement No. G0393, to perform the project in accordance with the terms and conditions set forth therein; and

WHEREAS, the County and FDEP wish to make certain amendments to the grant agreement, including to extend the term of the agreement an additional twelve months at no additional cost, as reflected in FDEP Agreement No. G0393 Amendment No. 1, attached hereto; and

WHEREAS, the County has reviewed the terms, provisions, conditions, and requirements of FDEP Agreement No. G0393 Amendment No. 1 and determined that

they serve the interest of the County and will not create an undue burden on the County; and

WHEREAS, as authorized by St. Johns County Resolution No. 2014-192, on or about October 8, 2014, the County and the District previously entered into a Memorandum of Agreement related to the FDEP grant project regarding the St. Johns County Basin 8 Regional Offsite Mitigation Area (ROMA); and

WHEREAS, the County wishes, and the District has agreed, to make modifications to the ROMA for Basin 8 to exclude some of the proposed mitigation area within Canal 4 and defer mitigation activities in an additional area (Canal 4N); and

WHEREAS, the County and the District wish to formalize their agreement to these modifications to the ROMA in an Amendment and Restatement of the Memorandum of Agreement, attached hereto; and

WHEREAS, the County has reviewed the terms, provisions, conditions, and requirements of the Amendment and Restatement of the Memorandum of Agreement and determined that they serve the interest of the County and will not create an undue burden on the County.

### NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, as follows:

Section 1. The above Recitals are incorporated by reference into the body of this Resolution and such Recitals are adopted as findings of fact.

Section 2. The Board of County Commissioners hereby approves the terms, provisions, conditions, and requirements of FDEP Agreement No. G0393 Amendment No. 1, and authorizes the County Administrator, or designee, to execute FDEP Agreement No. G0393 Amendment No. 1 on behalf of the County, in substantially the same form and format as attached.

Section 3. The Clerk of Courts of St. Johns County is instructed to have four (4) copies of the original, executed FDEP Agreement No. G0393 Amendment No. 1 mailed to the State of Florida Department of Environmental Protection, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000.

Section 4. The Board of County Commissioners hereby approves the terms, provisions, conditions, and requirements of the Amendment and Restatement of the Memorandum of Agreement between St. Johns River Water Management District and St. Johns County for St. Johns County Basin 8 Regional Offsite Mitigation Area (ROMA), and authorizes the County Administrator, or designee, to execute the Amendment and Restatement of the Memorandum of Agreement on behalf of the County, in substantially the same form and format as attached.

Section 5. The Clerk is instructed to have four (4) copies of the original, executed Amendment and Restatement of the Memorandum of Agreement mailed to the St. Johns River Water Management District, Jacksonville Service Center, 7775 Baymeadows Way, Suite 102, Jacksonville, Florida 32256.

Section 6. To the extent that there are typographical and/or administrative errors that do not change the tone, tenor, or concept of this Resolution, then this Resolution may be revised without subsequent approval by the Board of County Commissioners.

PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, Florida, this day of \_\_\_\_\_\_\_\_, 2017.

BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA

By:\_\_

James K. Johns, Chair

ATTEST: Hunter S. Conrad, Clerk

By: Jan Halter

Deputy Clerk

RENDITION DATE 5/4/17

### DEP AGREEMENT NO. G0393 AMENDMENT NO. 1

THIS AGREEMENT as entered into on the August 27, 2014, between the STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (hereinafter referred to as the "Department") and the ST. JOHNS COUNTY BOARD OF COUNTY COMMISSIONERS (hereinafter referred to as the "Grantee") is hereby amended.

WHEREAS, due to construction delays, the Grantee has requested an additional twelve (12) months to complete work; and,

WHEREAS, the Department has agreed to the no-cost extension to complete the project; and,

WHEREAS, other changes to the Agreement are necessary.

NOW, THEREFORE, the parties hereto agree as follows:

- -- Paragraph 2 is hereby revised to change the completion date of the Agreement to June 30, 2018.
- -- Paragraph 7.C is hereby deleted in its entirety.
- -- Paragraph 17 is hereby deleted in its entirety and replaced with the following:
- 17. The Department's Grant Manager (which may also be referred to as the Department's Project Manager) for this Agreement is identified below.

Emily Forinash	
Florida Department	t of Environmental Protection
Nonpoint Source M	Ianagement Program
3900 Commonweal	lth Blvd., MS#3570
Tallahassee, Florid	a 32399-3000
Telephone No.:	(850) 245-2944
E-mail Address:	Emily.Forinash@dep.state.fl.us

- -- The following is hereby added to the Agreement as Paragraph 33:
  - A. Grantee shall comply with Florida Public Records law under Chapter 119, F.S. Records made or received in conjunction with this Agreement are public records under Florida law, as defined in Section 119.011(12), F.S. Grantee shall keep and maintain public records required by the Department to perform the services under this Agreement.
  - B. This Agreement may be unilaterally canceled by the Department for refusal by the Grantee to either provide to the Department upon request, or to allow inspection and copying of all public records made or received by the Grantee in conjunction with this Agreement and subject to disclosure under Chapter 119, F.S. and Section 24(a), Article I, Florida Constitution.
  - C. If Grantee meets the definition of "Contractor" found in Section 119.0701(1)(a), F.S.; [i.e., an individual, partnership, corporation, or business entity that enters into a contract for services with a public agency and is acting on behalf of the public agency], then the following requirements apply:

- i. Pursuant to Section 119.0701, F.S., a request to inspect or copy public records relating to this Agreement for services must be made directly to the Department. If the Department does not possess the requested records, the Department shall immediately notify the Grantee of the request, and the Grantee must provide the records to the Department or allow the records to be inspected or copied within a reasonable time. If Grantee fails to provide the public records to the Department within a reasonable time, the Grantee may be subject to penalties under s. 119.10, F.S.
- ii. Upon request from the Department's custodian of public records, Grantee shall provide the Department with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- iii. Grantee shall identify and ensure that all public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Grantee does not transfer the records to the Department.
- iv. Upon completion of the Agreement, Grantee shall transfer, at no cost to the Department, all public records in possession of Grantee or keep and maintain public records required by the Department to perform services under this Agreement. If the Grantee transfers all public records to the Department upon completion of the Agreement, the Grantee shall destroy any duplicate public records that are exempt or confidential and exempt from public disclosure requirements. If the Grantee keeps and maintains public records upon completion of the Agreement, the Grantee shall meet all applicable requirements for maintaining public records. All records that are stored electronically must be provided to Department, upon request from the Department's custodian of public records, in a format that is accessible by and compatible with the information technology systems of Department.
- D. IF THE GRANTEE HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE GRANTEE'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE DEPARTMENT'S CUSTODIAN OF PUBLIC RECORDS by telephone at (850) 245-2118, by email at <a href="mailto:ombudsman@dep.state.fl.us">ombudsman@dep.state.fl.us</a>, or at the mailing address below:

Department of Environmental Protection ATTN: Office of Ombudsman and Public Services Public Records Request 3900 Commonwealth Blvd, Mail Slot 49 Tallahassee, FL 32399

The following is hereby added to the Agreement as Paragraph 34:

Grantee certifies that it and any of its affiliates are not scrutinized companies as identified in Section 287.135, F.S. In addition, Grantee agrees to observe the requirements of Section 287.135, F.S., for

applicable sub-agreements entered into for the performance of work under this Agreement. Pursuant to Section 287.135, F.S., the Department may immediately terminate this Agreement for cause if the Grantee, its affiliates, or its subcontractors are found to have submitted a false certification; or if the Grantee, its affiliates, or its subcontractors are placed on any applicable scrutinized companies list or engaged in prohibited contracting activity during the term of the Agreement. As provided in Subsection 287.135(8), F.S., if federal law ceases to authorize these contracting prohibitions then they shall become inoperative.

-- The following is hereby added to the Agreement as Paragraph 35:

This Agreement, and any Amendments or Change Orders thereto, may be executed in two or more counterparts, each of which together shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by email delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof.

Attachment A, Grant Work Plan, is hereby deleted in its entirety and replaced with Attachment A-1, Revised Grant Work Plan, attached hereto and made a part of the Agreement. All references in the Agreement to Attachment A shall hereinafter refer to Attachment A-1, Revised Grant Work Plan.

In all other respects, the Agreement of which this is an Amendment, and attachments relative thereto, shall remain in full force and effect.

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IN WITNESS WHEREOF, the parties have caused this Amendment to be duly executed the day and year last written below.

ST. JOHNS COUNTY BOARD OF COUNTY COMMISSIONERS	F STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
By:*Title:	By: Secretary or Designee
Date:	
	DEP Grant Manager
	QC Review By
	al boards/commissions: If someone other than the Chairman signs this it or other document authorizing that person to sign the Amendment on behalf of mendment.
List of attachments/exhibits include	ed as part of this Amendment:
Specify Type Letter/Number	Description (include number of pages)
Attachment A-1	Revised Grant Work Plan (8 pages)

### ATTACHMENT A-1 REVISED GRANT WORK PLAN

**PROJECT NAME:** Masters Tract Regional Stormwater Treatment Facility

PROJECT LOCATION AND WATERSHED CHARACTERISTICS:

Geographic Location: County Road 13, Hastings, St. Johns County, Florida

**Latitude:** 29.686897 **Longitude:** -81.473536

**PROJECT DESCRIPTION:** The Masters Tract Regional Stormwater Treatment (RST) Facility (Figure 1) treats stormwater from the Canal 5 agricultural drainage ditch (Figure 2). As Figure 3 shows, the stormwater from Canal 5 is routed to an offline treatment system using a forebay and a pump station. The bypassed stormwater is treated using a wet detention pond followed by constructed wetland treatment cells. Stormwater from the pond may also be harvested during the dry season to irrigate an adjacent sod field. Below is a summary of the best management practices (BMP) that comprise the Masters Tract project. The federal grant funds will contribute to the second phase of construction, which includes BMPs 4 through 7 (Tasks 3 and 4).

3341	Soutonous.	Comparent	Stron Constitution	Description
BMP #1	Canal 5	Stormwater pump station	One 1.5-cfs base flow pump	Two 8-cfs storm flow pumps
BMP #2	Canal 5	Wet detention pond	285 acre-feet permanent pool volume	50 acre-feet treatment volume
BMP #31	Canal 5 – Dry season	Stormwater harvesting pump station	One 350-gpm irrigation pump	One 80-micron automatic filter
BMP #4	Canal 5 – Wet season	Wetland Cell 1	17.5 acres	Forested wetland
BMP #5	Canal 5 – Wet season	Wetland Cell 2	15.3 acres	Forested wetland
BMP #6	Canal 5 – Wet season	Wetland Cell 3	14.2 acres	Forested wetland
BMP #7	Canal 5	Wetland Cell 4 flow- way	9.9 acres	Herbaceous wetland flow- way

<sup>1</sup>BMP #3 will not be presented in the task descriptions, as it will be constructed in a future phase of the overall project.

### TASKS AND DELIVERABLES:

TASK 1: Bidding and Contract Administration

TASK DESCRIPTION: The Grantee has completed designing and permitting the Masters Tract RST and procured a contractor to construct the project. This task includes the time necessary to administer the construction, observe monitoring activities, and prepare a final report for the project that includes results of the monitoring described in Task 5. The Grantee's staff will provide a resident observer who will prepare monthly project status reports. The Grantee's staff will submit quarterly progress reports to the Department as required in paragraph 5A of the Agreement. The Grantee shall submit a draft project report (in Word or Adobe format) as well as a final project report that addresses the Department's draft report review comments. The final project report is intended to capture the outcome and results of the project, including all tasks included in the project. The report shall include, at a minimum, the following: a summary of monitoring results and an explanation of any unexpected monitoring results or unexpected occurrences, such as why a BMP did not obtain or exceeded the expected removal efficiencies; any problems encountered during the project and how those problems were overcome; an explanation of any project delays; any additional information that explains the results of the project; and a full accounting of the project funds, both grant and match, by budget category to give others a good idea of what the project cost.

**DELIVERABLES**: Copy of Notice to Proceed and draft and final project reports.

**PERFORMANCE STANDARD:** The Department's Grant Manager will review the draft final report and provide comments to the Grantee. The Grant Manager will review the final report for compliance with all of the requirements identified in the task descriptions and to ensure corrections to the draft have been made and comments considered for

incorporation. The monitoring portion of the report will be checked to see that the information needed for reporting to the Environmental Protection Agency (EPA) on the project's BMP efficiencies is included.

TASK 2: Construction of Canal 5 Intake, Pump Station, and Wet Detention Pond (BMPs 1 and 2)

**TASK DESCRIPTION**: This task entails the construction of a forebay for the Canal 5 intake, an 8 cfs pump station, and an approximately 35-acre wet detention pond, which will provide water for the wetland cells.

**DELIVERABLES**: Certificates of Completion for task components, construction photographs of all task components, and record drawings of this task's components, submitted electronically.

**PERFORMANCE STANDARD:** The Department's Grant Manager will review the photographs and record drawings for all components to verify that construction has been completed in accordance with the approved plans.

TASK 3: Construction of Wetland Cells 1, 2, and 3 (BMPs 4 through 6)

TASK DESCRIPTION: This task includes the construction and planting of three created wetland cells that comprise approximately 46 acres of forested wetlands adjacent to Deep Creek. These wetlands will be planted with a diversity of native tree, shrub, and herbaceous plant species to provide high-quality wildlife habitat and to further enhance water quality before it is discharged to the floodplain wetlands of Deep Creek.

**DELIVERABLE 3a:** Construction completed to date as described in this task, as evidenced by these interim deliverables: 1) Signed acceptance of the completed work by the Grantee, 2) Contractor's Application and Certification for Payment, and 3) dated color photographs of on-going work representing time period covered in payment request.

**PERFORMANCE STANDARD:** The Department's Grant Manager will review each submitted interim deliverable to verify that it meets the specifications in the Grant Work Plan and this task description and that work is being performed in accordance with the Grantee's construction contract documents and specifications. Upon review and written acceptance of each quarterly interim deliverables submittal by the Department's Grant Manager, the Grantee may proceed with payment request submittal for costs associated with that quarter under this task.

Contractor's Application and Certification for Payment should include the following supporting documentation:

- 1. An itemized summary of the materials, labor, and/or services utilized during the period for which payment is being requested.
- 2. The summary should identify the nature of the work performed; the amount expended for such work; the name of the person/entity providing the service or performing the work; proof of payment of the invoices; and evidence of all work conducted for which a request for payment is being made.
- 3. Evidence may include references to any drafts or partially-complete designs, surveys, environmental documents and/or permit applications, drawings, and specifications (which must be made available upon request); and documentation demonstrating partial completion of construction activities.

**DELIVERABLE 3b**: Certificates of Completion for task components, construction photographs of all task components, and record drawings of this task's components, submitted electronically

**PERFORMANCE STANDARD:** The Department's Grant Manager will review the final deliverables to verify that construction has been completed in accordance with the approved plans. Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

TASK 4: Construction of Cell 4 Wetland Flow-Way (BMP 7)

**TASK DESCRIPTION**: The Cell 4 Wetland Flow-Way is a passive wetland-treatment system. This task includes the construction of the Cell 4 wetland treatment flow-way, which entails excavating uplands to create a broad and shallow herbaceous treatment wetland.

**DELIVERABLE 4a:** Construction completed to date as described in this task, as evidenced by these interim deliverables: 1) Signed acceptance of the completed work by the Grantee, 2) Contractor's Application and Certification for Payment, and 3) dated color photographs of on-going work representing time period covered in payment request.

**PERFORMANCE STANDARD:** The Department's Grant Manager will review each submitted interim deliverable to verify that it meets the specifications in the Grant Work Plan and this task description and that work is being performed in accordance with the Grantee's construction contract documents and specifications. Upon review and written acceptance of each quarterly interim deliverables submittal by the Department's Grant Manager, the Grantee may proceed with payment request submittal for costs associated with that quarter under this task.

<u>Contractor's Application and Certification for Payment should include the following supporting</u> documentation:

- 1. An itemized summary of the materials, labor, and/or services utilized during the period for which payment is being requested.
- 2. The summary should identify the nature of the work performed; the amount expended for such work; the name of the person/entity providing the service or performing the work; proof of payment of the invoices; and evidence of all work conducted for which a request for payment is being made.
- 3. Evidence may include references to any drafts or partially-complete designs, surveys, environmental documents and/or permit applications, drawings, and specifications (which must be made available upon request); and documentation demonstrating partial completion of construction activities.

**DELIVERABLE 4b:** Certificate of Completion for task components, construction photographs of all task components, and record drawings of this task's components, submitted electronically

**PERFORMANCE STANDARD:** The Department's Grant Manager will review the final deliverables to verify that construction has been completed in accordance with the approved plans. Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

### TASK 5: BMP Effectiveness Monitoring

**TASK DESCRIPTION**: The project's water-quality-monitoring program will be supplemented by the Grantee's existing monitoring program and will quantify the performance of the project's BMPs. Since the project is a treatment-train approach, the monitoring program is tailored to each treatment component.

Within the last 6 months of project construction, the Grantee will complete and submit to the Department a Quality Assurance Project Plan (QAPP) for monitoring. The QAPP will be approved by the Department's staff before any monitoring commences. The QAPP will specify the sampling locations (Figure 3), sampling instruments, and parameters to be sampled. The parameters will include but will not be limited to TN (pounds per year), TP (pounds per year), Total Suspended Solids (pounds per year), NOx, Total Kjeldahl Nitrogen, NH<sub>3</sub>, Orthophosphate, rainfall, and flow.

The wet detention pond (BMP 2) will be monitored for seven storm events distributed over four seasonal quarters and five events during base/flow conditions during periods of increased agricultural activities in the upstream watershed, typically in early March, April, and May. The goal for storm-events monitoring is to capture data for events greater than 0.2 inch and less than 1.5 inches. There may be events that exceed the 1.5-inch threshold. Monitored events will include a minimum of seven discrete rain events that are generally greater than 0.20 inch and less than 1.5 inches. Inflow and outflow locations (Figure 3) will be monitored for each of the BMPs installed and in accordance with the approved QAPP. Sampling locations will be recorded and verified using a GPS device.

BMPs 4 through 7, which are funded by this grant, will be sampled 12 times at the inflow and outflow locations (Figure 3) for the same parameters listed above. After the monitoring is completed, the Grantee will submit a final report summarizing the removal efficiencies of each BMP component.

**DELIVERABLES**: Draft QAPP, approved QAPP, and quarterly reporting of monitoring activities accomplished. **PERFORMANCE STANDARD**: The Department's Grant Manager will provide comments on the draft QAPP and check the final QAPP to ensure comments were addressed in the final version. The Grant Manager will review the quarterly activities reports to ensure that the sampling is proceeding in a manner that can result in determining BMP efficiencies for reporting to EPA.

### TASK 6: Community Outreach and Education

**TASK DESCRIPTION**: This task entails the Grantee's efforts to increase awareness of water-quality issues and educate and inform the public and local farmers of the intent and importance of this project. This will be accomplished by:

- Developing a brochure explaining the benefits of the project to the county.
- Presenting the benefits of the project to local growers at a Hastings Drainage District commission meeting.
- Conducting tours of the project when requested by the public.
- Installing a public kiosk onsite explaining the benefits of the project.

**DELIVERABLE 6a**: 1) Copy of draft print-ready brochure submitted to the Department's Grant Manager for review and approval prior to final printing and distribution; 2) copy of draft kiosk/sign(s) text and graphic submitted to the

Department's Grant Manager for review and approval prior to final printing and distribution; 3) draft materials for public presentations and educational meetings submitted to the Department's Grant Manager for review and approval prior to presentation or meetings.

**PERFORMANCE STANDARD:** The Department's Grant Manager must approve draft materials prior to public distribution. The Department's Grant Manager will review the draft deliverables and provide comments to the Grantee as needed.

**DELIVERABLE 6b**: 1) Copy of the final printed brochure with number distributed and where; 2) dated photograph(s) of installed kiosk/sign as approved; and 3) copy of meeting or workshop notices, agenda(s), meeting minutes or notes, and sign-in sheets.

**PERFORMANCE STANDARD:** The Department's Grant Manager will review the final deliverables to ensure the draft comments have been taken into consideration.

**PROJECT TIMELINE:** The tasks must be completed by the corresponding task end date and all deliverables must be received by the designated due date. If at any time, this Grant Agreement is amended to extend the Grant Agreement end date, in no event shall grant project work be authorized past EPA's 319(h) 2013 Grant end date of September 30, 2017 regardless of whether it is grant-funded or match-funded work.

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1	Bidding and Contract Administration	December 1, 2012	June 30, 2018	June 30, 2018
2	Construction of Canal 5 Intake, Pump Station, and Wet Detention Pond (BMPs 1 and 2)	February 1, 2013	October 31, 2015	October 31, 2015
3	Construction of Wetland Cells 1, 2, and 3 (BMPs 4 through 6)	January 1, 2014*	June 30, 2017	June 30, 2017
3a	Interim Deliverables			Not more than once per quarter
3b	Final Deliverables			June 30, 2017
4	Construction of Cell 4 Wetland Flow- Way (BMP 7)	January 1, 2014*	June 30, 2017	June 30, 2017
4a	Interim Deliverables			Not more than once per quarter
4b	Final Deliverables			June 30, 2017
5	BMP Effectiveness Monitoring	June 1, 2014	June 30, 2018	June 30, 2018
6	Community Outreach and Education	January 1, 2014	June 30, 2017	June 30, 2018
6a	Interim Deliverables			May 31, 2018
6b	Final Deliverables			June 30, 2018

<sup>\*</sup>Invoices submitted for reimbursement will be for work performed after the execution of this Agreement.

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### PROJECT BUDGET BY TASK and CATEGORY:

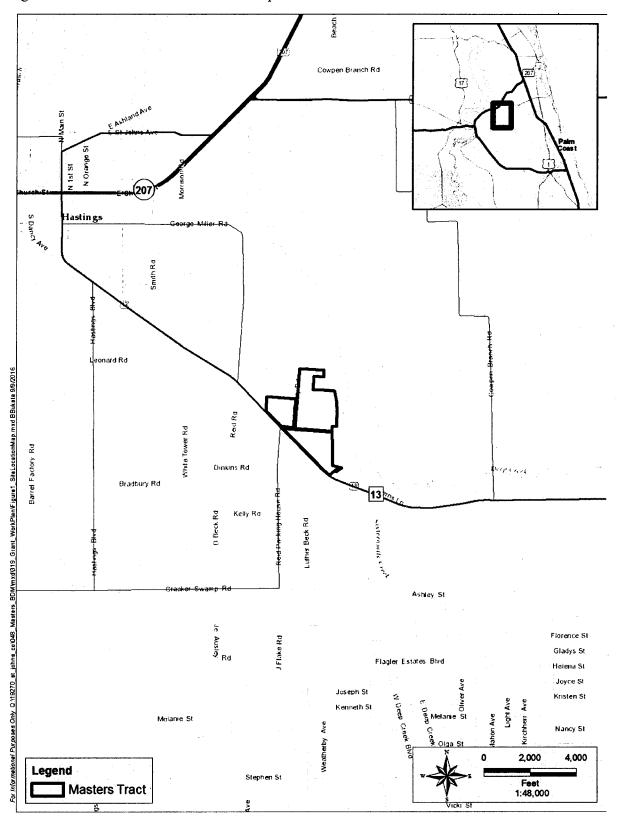
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deservation (antique) amount and a second		20.5%	71.7%

### PROJECT BUDGET BY CATEGORY:

Ceresia B <b>aret</b> s	Carnii Handing.	Regnared ismit Landing
Contractual Total	\$796,007	\$1,917,006
Subtotals:	\$796,007	\$1,917,006
Total Grant Project Cost:	\$2,713	,013
Percentage Match:	29.3%	70.7%

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Figure 1 Masters Tract Location Map



DEP Agreement No. G0393, Attachment A-1, Page 6 of 8

Figure 2 Drainage Basin Aerial Map

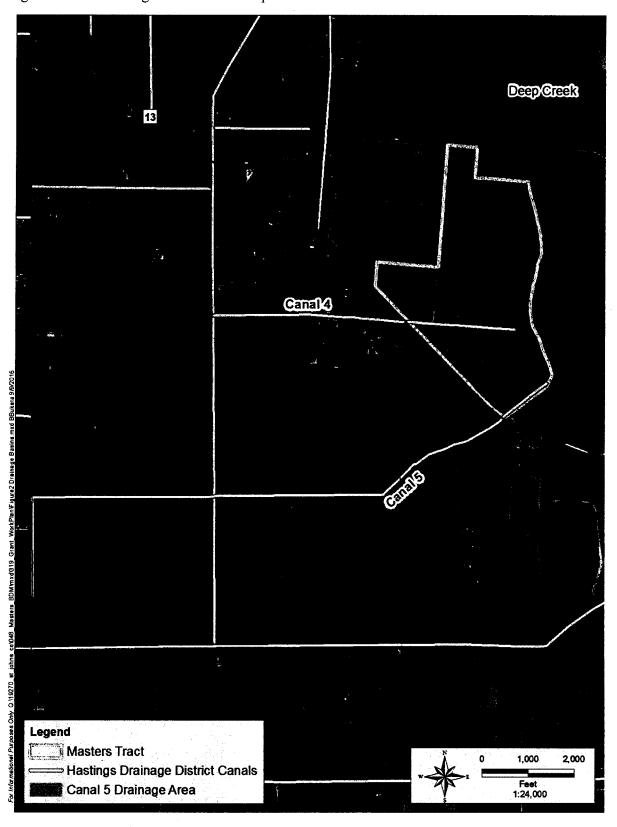
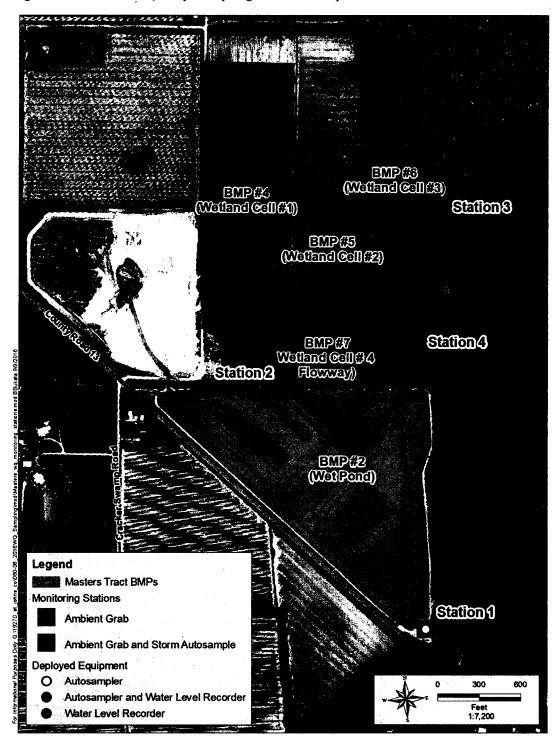


Figure 3 Water Quality Sampling Location Map



### AMENDMENT AND RESTATEMENT OF MEMORANDUM OF AGREEMENT BETWEEN

### ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ST. JOHNS COUNTY FOR ST. JOHNS COUNTY BASIN 8 REGIONAL OFFSITE MITIGATION AREA (ROMA)

THIS AMENDMENT AND RESTATEMENT OF MEMORANDUM OF AGREEMENT (MOA) is entered into by the St. Johns River Water Management District (District) and St. Johns County (County) regarding the St. Johns County Basin 8 Regional Offsite Mitigation Area (ROMA).

### WITNESSETH:

WHEREAS, Section 373.4135(1), Florida Statutes (F.S.), directs the District to participate in and encourage the establishment of public offsite regional mitigation;

WHEREAS, the County desires to establish a ROMA to serve as mitigation for future environmental resource permits (ERPs) issued by the District to the County for County projects;

WHEREAS, Section 373.4135(6), F.S., requires that certain ROMAs for which money is donated or paid as mitigation be established and operated pursuant to a Memorandum of Agreement (MOA);

WHEREAS, although Section 373.4135(6), F.S., does not require that this St. Johns County Basin 8 ROMA be established and operated under an MOA because no money will be donated or paid as mitigation, the parties have determined that an MOA would be mutually beneficial;

WHEREAS, Section 373.4135, F.S., provides that such MOA need not be adopted by rule;

WHEREAS, the County wishes to make modifications to the ROMA for Basin 8 to exclude some of the proposed mitigation area within Canal 4 and defer mitigation activities in an additional area (Canal 4N);

NOW THEREFORE, for and in consideration of the foregoing, which are made a part of the MOA, the District and the County hereby agree to the following:

**Section 1.** The County will implement the St. Johns County Basin 8 ROMA as described in the following five documents: (1) The Floyd Preservation Plan- attached as Exhibit "A"; (2) The Masters Tract Wetland Mitigation Plan (Drawings WM1-WM11) – attached as Exhibit B (3) The Tatum Tract Mitigation Plan View Map- attached as Exhibit C; (4) Uniform Mitigation Assessment Methodology analysis summary table as

Exhibit D, and (5) this MOA. Each of the exhibits described in this section shall be incorporated into and made part of this MOA.

**Section 2.** In exchange for the County's implementation of the St. Johns County Basin 8 ROMA as described above, the County will be able to use 25.44Total Functional Gain Units (FGUs) from the ROMA as mitigation for ERPs issued by the District to the County for County projects in Basin 8 upon implementation of Phase 1 and an additional 1.57 FGUs from the ROMA as mitigation for ERPs issued by the District for County projects in Basin 8 upon implementation of Phase 2 for a total of 27.01 FGUs.

### Section 3. Responsibilities.

A. *Description of work.* The County will conduct the following activities to return the sites to a more natural state:

### Floyd Tract

- Preservation of 55.87 acres of wetlands
- Preservation of 2.77 acres of uplands

### Masters Tract

- Phase I- Wetland Herbaceous Creation (Cell 4 and Cells 1, 2, and 3) of 10.4 acres
- Phase I- Wetland Forest Enhancement of 7.8 acres
- Phase I- Forested Wetland Creation (Cells 1, 2,3A and 3B) of 37.4 acres
- Phase I- Upland Buffer Enhancement of 20.6 acres
- Phase I- Preservation of 3.1 acres of wetlands
- Phase II- Wetland Flow-way Creation (Cell 4N) of 4.4 acres.

### Tatum Tract

- Preservation of 60.7 acres of wetlands
- Forested Wetland Enhancement of 13.4 acres
- Forested Upland Buffer Enhancement of 17.1 acres

The County will begin conducting these activities in 2013 and expects to complete construction in 2017.

B. *Timeline for obtaining any required ERP*. Some of the mitigation activities required an ERP, which the County obtained on March 16, 2012 (4-109-126294-1). A modification to this permit was obtained on September 9, 2016, (4-109-126294-2) to address changes to the grading and construction plans for the Masters Tract.

### C. Environmental success criteria.

### Floyd Tract:

- (a) Preserve the entire property in perpetuity by conveying a conservation easement approved in writing by District staff.
- (b) Perform annual inspection and exotic species removal/maintenance as needed. Invasive exotic species covers 1% or less in any one acre area.

### Masters Tract:

- (a) Preserve the entire property in perpetuity by conveying a conservation easement approved in writing by District staff.
- (b) Perform annual inspection and exotic species removal/maintenance as needed. Invasive exotic species covers 1% or less in any one acre area.
- (c) Perform the activities described in Exhibit B and ERP 4-109-126294-2
- (d) For the planted areas, plantings must meet the following success criteria within five years after initial planting:
- i. At least 75 percent of the planted trees have survived throughout the monitoring period and are showing signs of normal growth, based upon standard growth parameters such as height and base diameter, or canopy circumference.
- ii. At least 80 percent cover by appropriate wetland herbaceous species has been obtained.
- iii. Hydrologic conditions generally conform to those specified for wetlands in Chapter 62-340, F.A.C..
- iv. If successful establishment has not occurred as stated above within 5 years following initial planting, then within 30 days of the termination of the monitoring period, the County shall submit to the District a narrative describing the type and causes of failure and a complete set of plans for the redesign or replacement planting of the wetland mitigation area so that the success criteria will be achieved. If an ERP is required for the activity, then the County shall apply for a permit

modification. Within 30 days of District approval and, if applicable, issuance of the permit modification, the permittee must implement the redesign and/or replacement planting. Following completion of such work, success criteria as stated above or modified by subsequent permit must again be achieved. In addition, the monitoring must be conducted.

v. In the event that 50 percent or greater mortality of planted wetland species in any stratum within the mitigation area occurs, the permittee must undertake a remediation program approved by District staff.

### Tatum Tract:

- (a) Preserve the entire property in perpetuity by conveying a conservation easement approved in writing by District staff.
- (b) Perform annual inspection and exotic species removal/maintenance as needed. Invasive exotic species covers 1% or less in any one acre area.
- (c) Perform the activities described in Exhibit C.
- (d) Plant the following material at the Tatum Tract:

Planting	Plan for Tatum Tract					
	Tatum Tract Fores	sted Wetland Enh	ancement	(13.4-Ac)	res)	
Type	Scientific Name	Common Name	% Plants	Feet on Center	Size	Number of Plants
Tree	Acer rubrum	Red maple	25	10	1 gal	401
	Nyssa sylvatica var. biflora	Swamp tupelo	25			401
	Taxodium distichum	Bald Cypress	50			803
Subtotal						1,605
Herb	Osmunda cinnamomea	Cinnamon fern	30	6	1 gal	1,926
	Osmunda regalis	Royal fern	30		1 gal	1,926
	Saururus cernuus	Lizards tail	40		2" Liner	2,568
					Subtotal=	6,421
	Tatum Tract Forested	Wetland Buffer l	Enhancem	ent (17.1	Acres)	
Туре	Scientific Name	Common Name	% Plants	Feet on Center	Size	Number of Plants
Tree	Celtis laevigata	Sugarberry	20	20	1 gal	410
	Ulmus americana	American elm	30			615
	Liquidambar styraciflua	Sweetgum	30			615
	Sabal palmetto	Cabbage palm	- 20			410

- (e) For the planted areas, plantings must meet the following success criteria within five years after initial planting:
- i. At least 75 percent of the planted trees have survived throughout the monitoring period and are showing signs of normal growth, based upon standard growth parameters such as height and base diameter, or canopy circumference.
- ii. At least 80 percent cover by appropriate wetland or upland herbaceous species has been obtained.
- iii. Hydrologic conditions generally conform to those specified for wetlands in Chapter 62-340, F.A.C..
- iv. If successful establishment has not occurred as stated above within 5 years following initial planting, then within 30 days of the termination of the monitoring period, the County shall submit to the District a narrative describing the type and causes of failure and a complete set of plans for the redesign or replacement planting of the wetland mitigation area so that the success criteria will be achieved. If an ERP is required for the activity, then the County shall apply for a permit modification. Within 30 days of District approval and, if applicable, issuance of the permit modification, the permittee must implement the redesign and/or replacement planting. Following completion of such work, success criteria as stated above or modified by subsequent permit must again be achieved. In addition, the monitoring must be conducted.
- v. In the event that 50 percent or greater mortality of planted wetland species in any stratum within the mitigation area occurs, the permittee must undertake a remediation program approved by District staff.
- D. Monitoring and long-term management requirements. The County will monitor the planted areas for a total of 5 years following planting. In addition, the County shall furnish the District with two copies of an annual monitoring report on EN-55 for all wetland creation, restoration, and enhancement areas and upland enhancement areas for four growing seasons after establishment of this MOA unless otherwise notified by the District.

The County shall perform exotic species removal and maintenance activities and land management activities as described in this MOA.

The County will operate and maintain the site in a manner consistent with the Plans (Exhibits A, B and C), permits 4-109-126294-1 and 4-109-126294-2, the MOA, and the conservation easement.

- E. *Project Assessment*. Mitigation value was assessed pursuant to the Uniform Mitigation Assessment Method (UMAM) in Chapter 62-345, Florida Administrative Code. The District has determined that the ROMA can provide 25.44 FGUs in Phase 1 and 1.57 FGUs in Phase 2. Total Functional Gain Units (FGUs). The final UMAM assessment is attached as Exhibit D. Because this assessment accounts for time lag and risk, all of the FGUs will be available once the County records the District-approved conservation easements. To track the use of FGUs, the County and District will maintain a list containing the project name, ERP number, FGUs used, and date used, until all FGUs have been used.
- F. Completion of the mitigation work. The County is responsible for all work at the ROMA.
- G. Geographic area where the project may be used. The FGUs from the ROMA may be used as mitigation for ERPs issued for County projects proposing impacts to herbaceous and forested freshwater wetlands in the District's Basin 8, which is where the ROMA is located.
- H. Cost accounting, annual review and adjustment. Because the County will be using the ROMA only for County projects and will not be collecting funds from others to implement the ROMA, and because an MOA is not required for this type of ROMA, the District has determined that a procedure for full cost accounting is not needed in this case.
- I. Land Acquisition. The County owns the property and does not need to acquire any lands for the ROMA.
- J. *Preservation of the site*. The County will convey conservation easements to the District, as explained above.
- K. Funds. Because the County will not collect moneys from others to implement the ROMA, the District has concluded that a procedure to track funds is not needed in this case.
- L. *Termination*. If the District determines that the County is not in material compliance with the terms and conditions of this MOA, it shall provide the County with written notice of its material non-compliance and give the County ninety (90) calendar days, or another time period mutually agreed upon in writing, to correct the non-compliance. During the time period provided for correcting the non-compliance, the County may not use FGUs as mitigation for newly issued ERPs from the District.

If the County does not correct the material non-compliance within the stated timeframe, the District may terminate use of the remaining FGUs for future ERPs from the District.

If the District determines that the material non-compliance diminishes the value of FGUs already used from the ROMA, then the District shall provide the County with written notice of this determination. The District shall give the County ninety (90) calendar days, or another time period mutually agreed upon in writing, to correct the non-compliance or submit for District approval alternative mitigation for any permits that were not fully mitigated within the ROMA.

The County is obligated to manage the lands in accordance with the plans (Exhibits A-C), the conservation easement, and this MOA, regardless of whether FGUs have been used or terminated.

### Section 4. Notices.

All notices required by this MOA shall be in writing and shall be sent by registered or certified mail, return receipt requested, as follows:

To the District:

St. Johns River Water Management District

Jacksonville Service Center

7775 Baymeadows Way, Suite 102

Jacksonville, FL 32256 Attention: Christine Wentzel

To the County:

St. Johns County

St. Johns County Environmental Division

4040 Lewis Speedway St. Augustine, FL 32084 Attention: Ryan Mauch

Each party may unilaterally change the person to whom notices are sent by notifying the other party in writing.

### Section 5. Effective Date and Term.

This MOA shall become effective upon the date the last party signs the agreement. This MOA shall remain in effect in perpetuity, unless both parties amend or terminate the MOA.

### Section 6. Amendments.

This MOA, including its exhibits, may be amended in writing by the District and County.

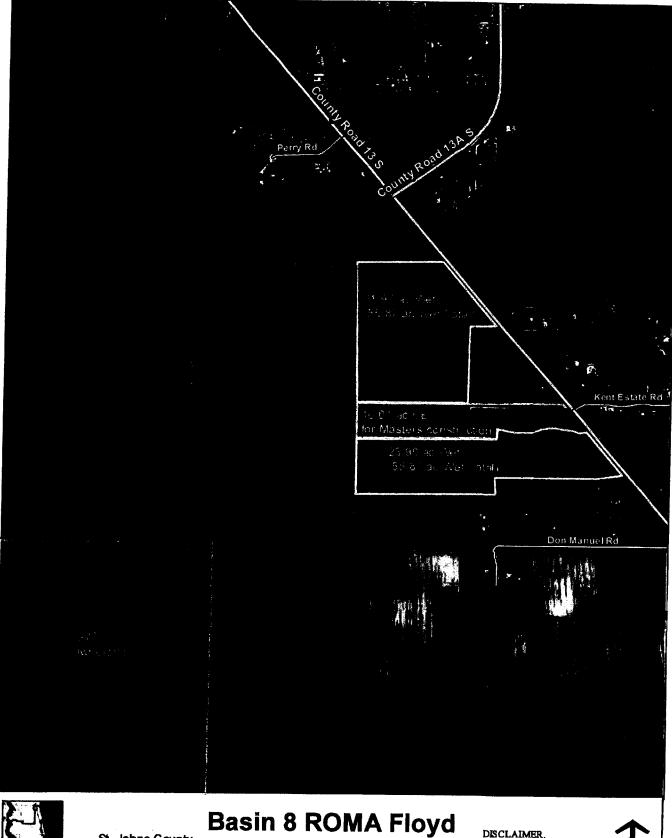
### Section 7. Severance Clause.

The invalidity of one or more of the phrases, sentences, clauses, or articles contained in the MOA shall not affect the validity of the remainder of this MOA, provided that the material purposes of this MOA can be determined and effectuated.

IN WITNESS WHEREOF, the parties have caused this Memorandum of Agreement to be executed.

Approved as to Form and Legality District Office of General Counsel	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
By:	By: Printed Name: Title: Date:
Approved as to Form and Legality St. Johns County Office of General Counsel	ST. JOHNS COUNTY
By:	By: Printed Name: Title: Date:

### **Exhibit A**





St. Johns County Environmental Division (904) 209-0792 Date: 05152013

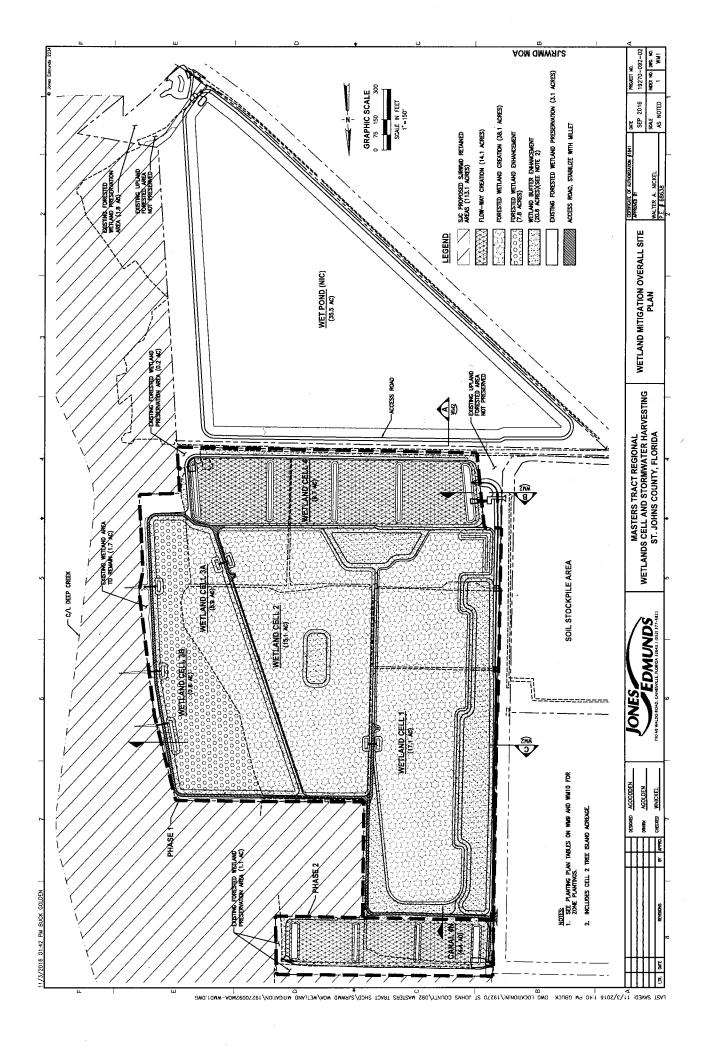
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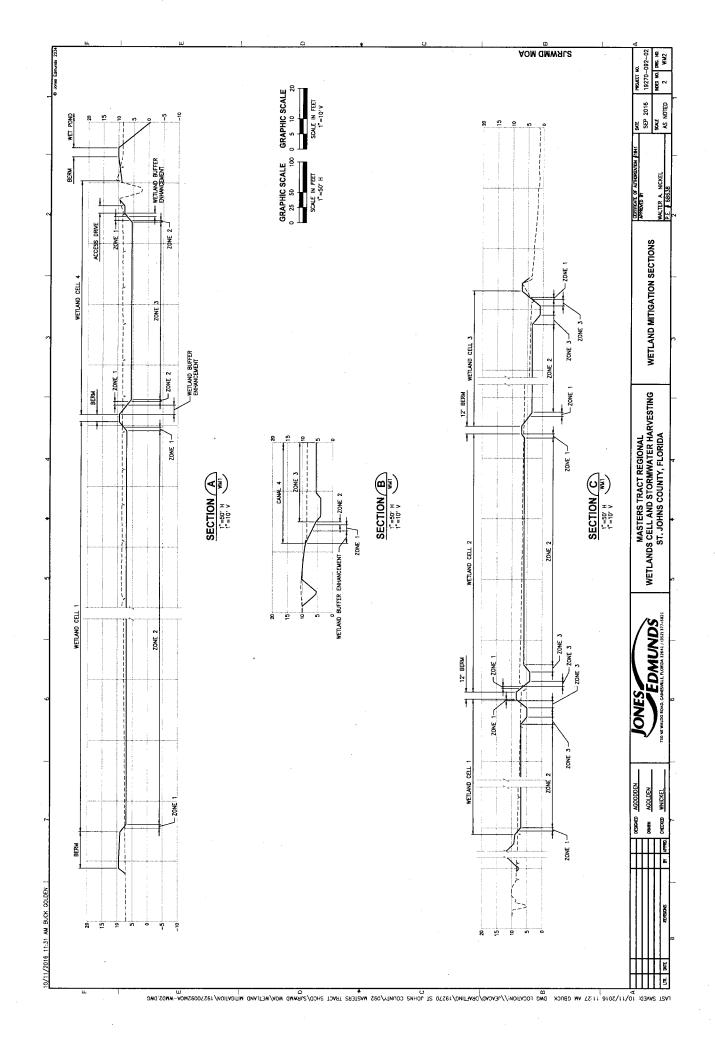
2010 Aerial Imagery

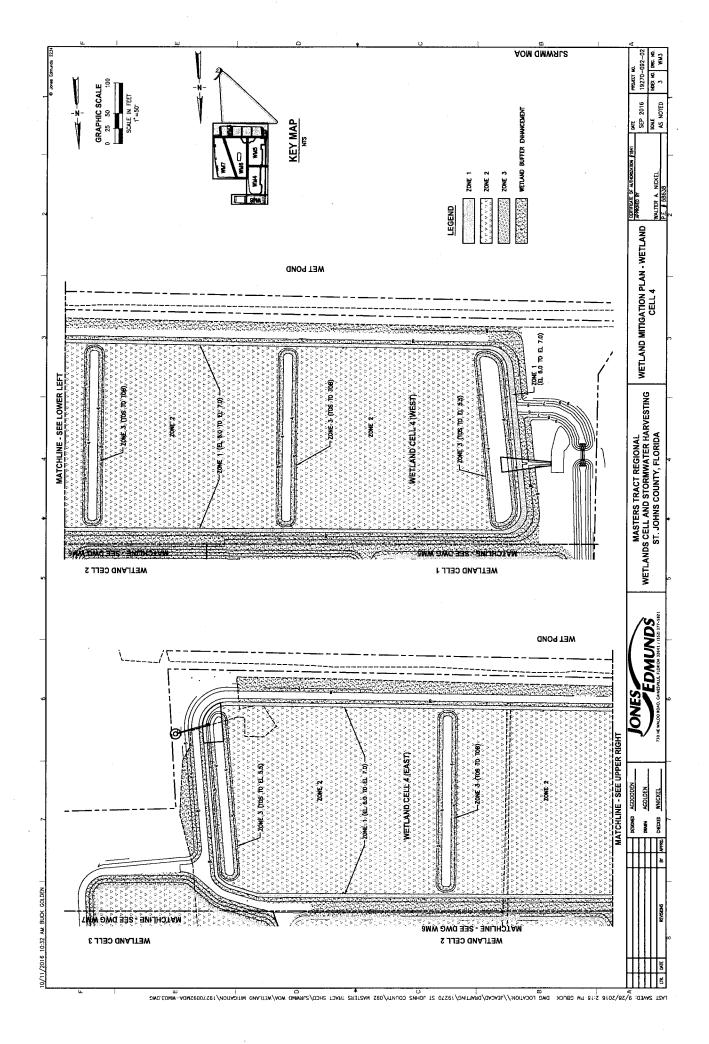
### DISCLAIMER.

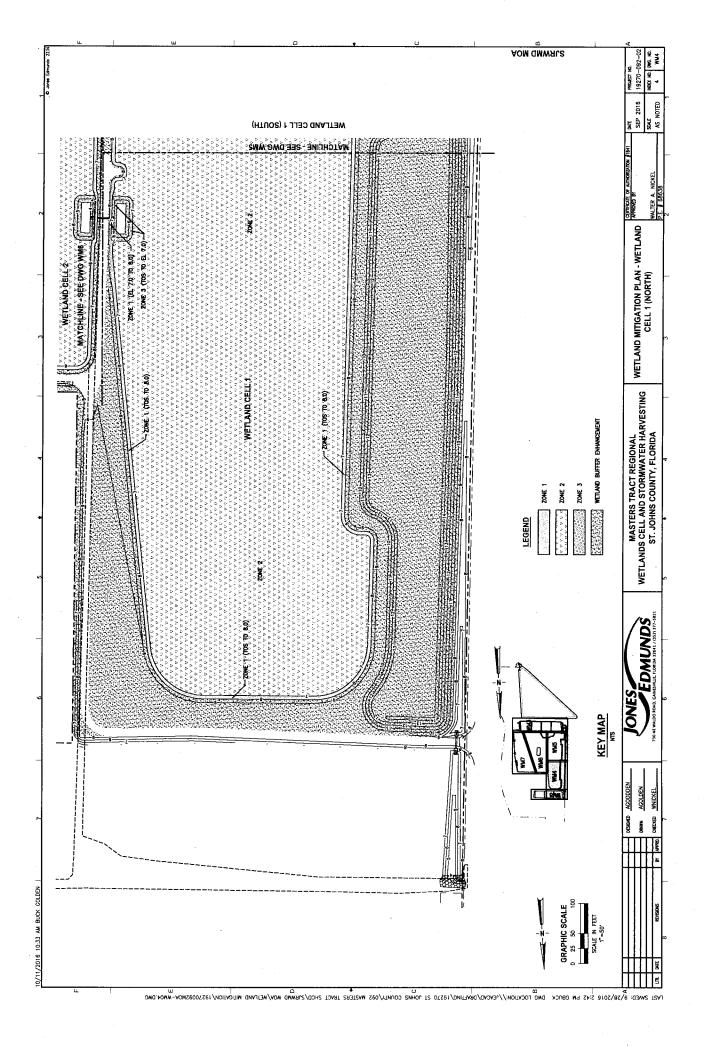
This map is for reference use only. Data provided are derived from multiple sources with varying levels of accuracy.

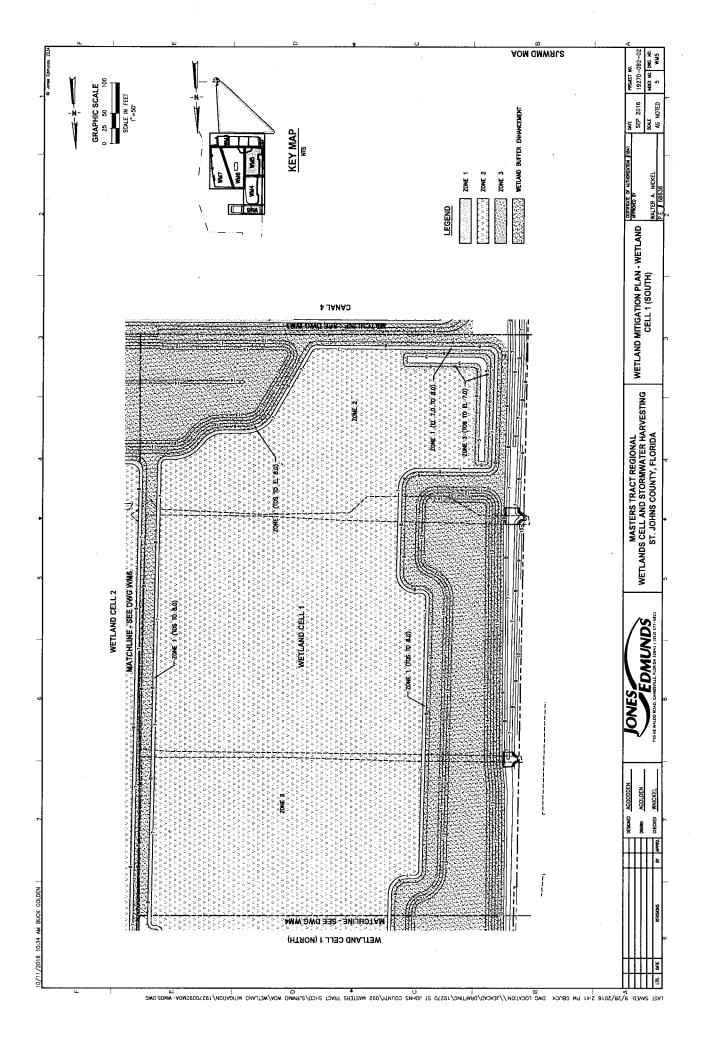


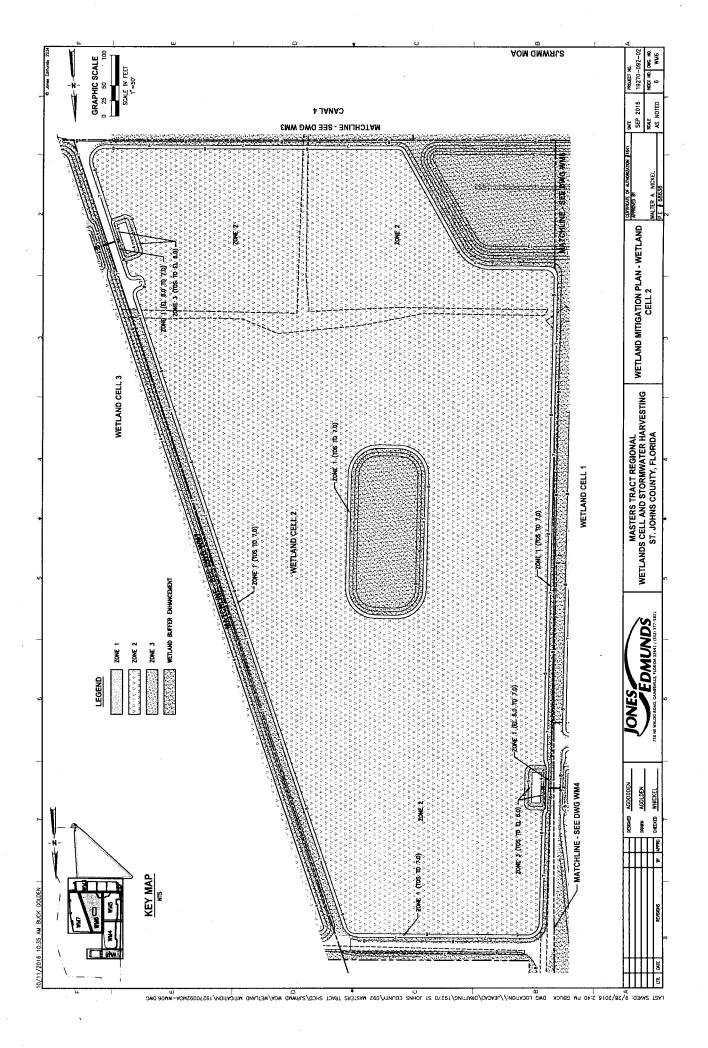


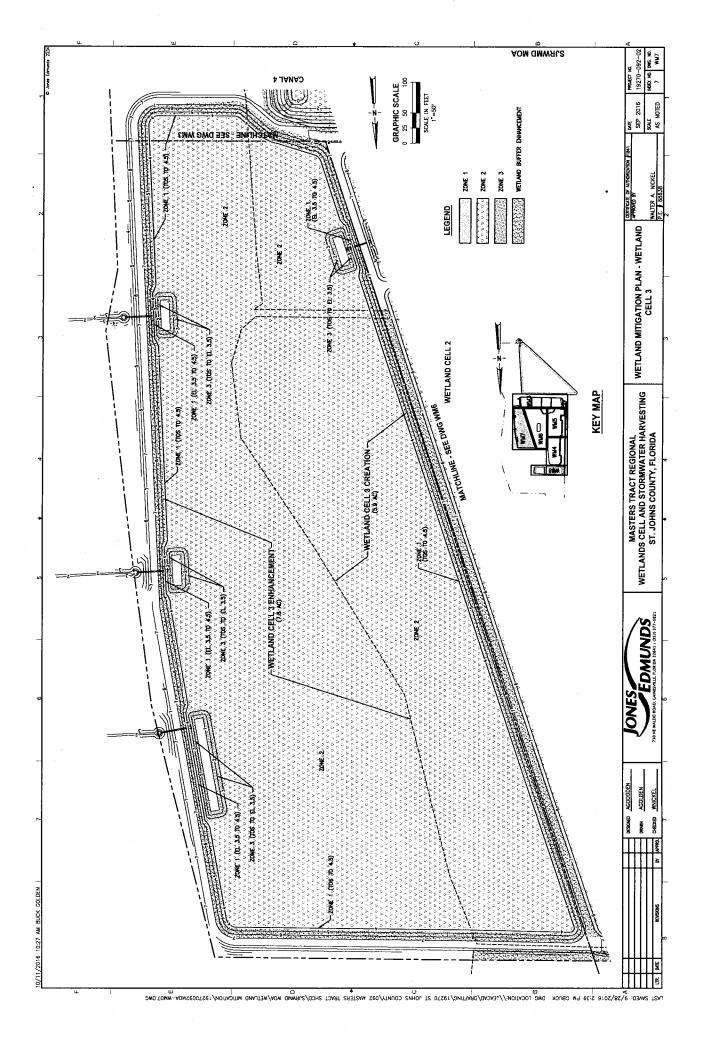


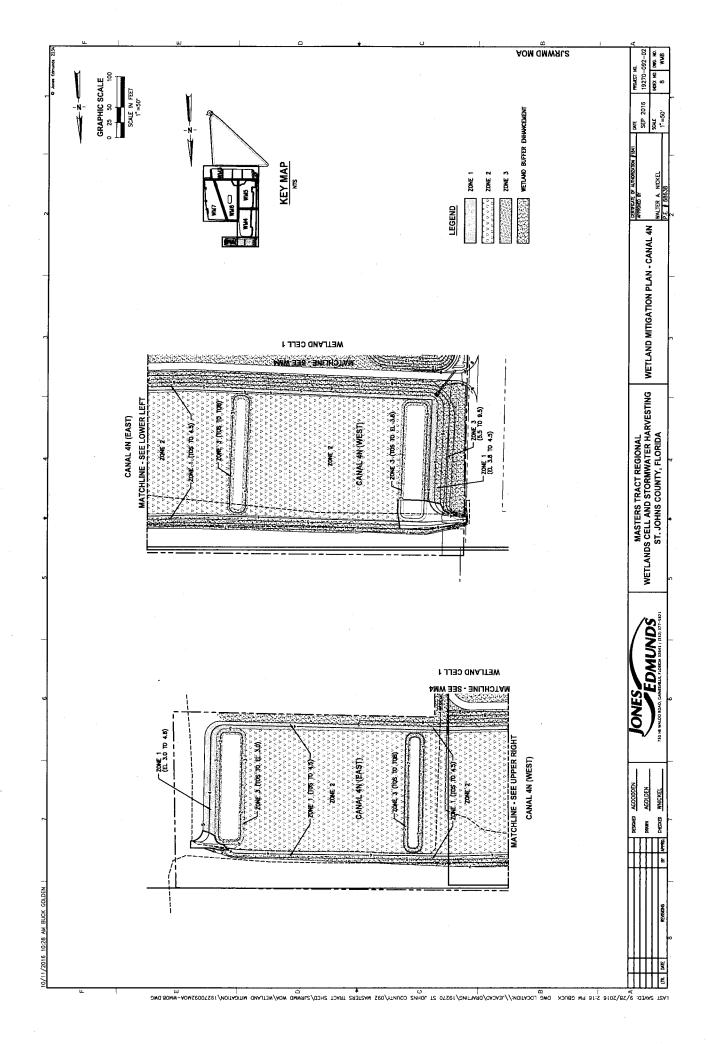












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APPROVED BY ZONE 3 (0.3-AC) (EL 1.0'-EL 3.5')

SAWGRASS
S BULRUSH
S SPATTERDOCK 9 5 COMMON NAME
(0.5-AC) (EL 3.5"LAUREL OAK
RED MAPLE
SUGARBERRY
CABBAGE PALM
MUSCLEWOOD WALTER A. NII P.E. | 68638 SAND CORDGRASS BLUE IRIS SOFT RUSH BEAUTYBERRY FETTERBUSH DWARF PALMETTO ZONE 2 (12.9–AC) (EL 3. BLACKGUN RED WALLE POPASH BALD CYPRESS SOFT RUSH MAIDENCANE DUCK POTATO UZARDS TAIL BUTTONBUSH ST. JOHNS WETLAND MITIGATION PLANTING TABLES CEPHALANTHUS DOCIDENTALIS ACER RUBRUM
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SAURURUS CERNUUS IRIS SP. JUNCUS EFFUSUS **OVERCUS LAURIFOLIA** SPARTINA BAKERII NYSSA SYLVANCA SCIENTIFIC NAME NOTE: PLANTING QUANTITIES INCLUDE A 10% INCREASE FOR POTENTAL MORTALITY. SHRUB HERB SHRUB TREE | September | Sept MASTERS TRACT REGIONAL
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PANICUM HEUITOMON MUDENCANE
SAGITTARIA LATIFOLM DUCK POTATO
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PANICUM HEMITOMON
SAGITTARIA LATIFOLA
SAURURUS CERMUUS CELL 1 (17.1-AC) NYSSA SYLVATICA ACER RUBRUM FRAXINUS CAROLINIANA TAXODIUM DISTICHUM CLADIUM JAMAICENSE SCIRPUS CALIFORNICUS NUPHAR LUTEUM SCIENTIFIC NAME JONES FEMUNDS SHRUB SHRUB SHRUB HERB HER8 HERB TREE TREE HER8 HERB TREE 4,579 6,868 4,579 45,786 1,118 799 932 932 2,662 NUMBER OF PLANTS\* 213 466 399 1,331 WETLAND CELL 4 (9.7-AC) - VEGETATION PLANTING PLAN TABLE BARE ROOT 35
SUBTOTAL 100 A OF PLANT SPECIES 5 8 22 22 23 # OF PLANT SPECIES CELL 1 (17.1-AC) - VEGETATION PLANTING PLAN TABLE SUBTOTAL Z" LINER BARE ROOT BARE ROOT BARE ROOT SUBTOTAL 3 PLANT <u>4</u> PLANT
SPACING (FT P
COMMON NAME ON CENTER)
ZONE 1 (0.8-MC) (EL 7.0"-EL 8.0") AGOODDEN AGOLDEN WNICKEL ZONE 2 (8.6-AC) (EL 5.5-EL 6.0) PLANT SPACING (FT ON CENTER) 5 | ZONE 3 (0.8-AC) (EL 4.0'-5.5') | SAWGRASS | BULRUSH | 3 | PICKERELWEED | COMMON NAME ON SONE 1 (0.5-AC) (EL 6.0"-1 SAND CORDCRASS BLUE IRIS SOFT RUSH DRAWN SAND CORDGRASS BLUE IRIS SOFT RUSH OUERCUS LAURITOLA. IALIREL OW ACER RUBRIM. RED MAPLE CELTIS LACAGAIA. SUGARBERIT SARL MELETTO. CARBACE PALM. CARPINUS CAROLINAM. MUSCLEWOOD CEPHALANTHUS OCCIDENTALIS BUTTONBUSH
LYONA LUCIDA FETTERBUSH
SABAL MINOR DWARF PALMETTO BY APPRO. SPARTINA BAKERII IRIS SP. JUNCUS, EFFUSUS. CLADIUM JAMAICENSE SCIRPUS CALIFORNICUS PONTEDARA CORDATA SCIENTIFIC NAME SCIENTIFIC NAME SPARTINA BAKERII IRIS SP. JUNCUS EFFUSUS SHRUB TREE HERB HERB HERB HERB TY21 29AED: 11/3/5018 1:45 BM CBNCK

11/3/2016 01:42 PM BUCK COLDEN

AOM DIWARLS

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CANAL 4 NORTH (4.4-AC) - VEGETATION PLANTING PLAN TABLE	A OF	ON CENTER) SIZE SPECIES PLANTS.	35 745	32	3 2 LINEX 30 639	SUBTOTAL 100 2,130		10 1.943	10 1,943	, BARE 10 1,943	3 RDOT 20 3,887	25 4,858	25 4,858	SUBTOTAL 100 19,433		35 559	3 DARKE 35 559	30 479	SUBTOTAL 100 1,597
(C) - VEGETATION I		COMMON NAME OF	SAND CORDGRASS	BLUE IRIS	SOFT RUSH		2 (3.7-AC) (EL 3.0-EL	SPIKERUSH	MAIDENCANE	SAWGRASS	FIRE FLAG	PICKERELWEED	DUCK POTATO		(0.3-AC) (APPROX EL	SAWGRASS	BULRUSH	PICKERELWEED	
(4.4-AC) - VEGETATION		7	SAND CORDGRASS	BLUE IRIS	SOFT RUSH		ZONE 2 (3.7-AC) (EL 3.0-EL 3.8)	SPIKERUSH	MAIDENCANE	SAWGRASS	FIRE FLAG	PICKERELWEED	DUCK POTATO		ZONE 3 (0.3-AC) (APPROX EL 2'-3.5'	SAWGRASS	_	PICKERELWEED	
CANAL 4 NORTH		SCIENTIFIC NAME	SPARTINA BAKERII	IRIS SP.	JUNCUS EFFUSUS			ELEOCHARIS SP.	PANICUM HEMITOMON	CLADIUM JAMAICENSE	THALLA GENICULATA	PONTEDERIA CORDATA	SACITTARIA LATIFOLIA			CLADIUM JAMAICENSE	SCIRPUS CALIFORNICUS	PONTEDARIA CORDATA	
		JAPE		-	HERB					6	שבאם						HERB		

NOTE: R PLANTING QUANTITIES INCLUDE A 10% INCREASE FOR POTENTIAL MORTALITY.

**EDMUNDS** 

ONES.

DESIGNED AGOODDEN AGOLDEN CHECKED WINICKEL Name

MASTERS TRACT REGIONAL WETLANDS CELL AND STORMWATER HARVESTING ST. JOHNS COUNTY, FLORIDA

WETLAND MITIGATION PLANTING TABLES, DETAILS, AND NOTES

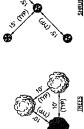
PROJECT NO. 19270-02 DATE
SEP 2016
SCALE
NONE

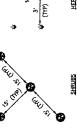
### PLANTING PLAN NOTES

- 1. ALL PUANT MATERIAL SHALL BE CONTAINER GROWN FLORIDA #1 OR BETTER AS OUTLINED BY GRADES AND STANDARDS FOR NUPSERY PLANTS, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTIENT OF AGRICULTURE AND CONSUMER SERVICES.
- 2. PLANTING WILL NOT BE CONDUCTED UNTIL AS-BUILT SURVEY HAS BEEN REVIEWED AND ACCEPTED BY ENGINEER AND OWNER.
- 3. SUBSTITUTIONS TO PLANTING PLAN CAN BE MADE BASED ON PLAN ANALABILITY AND AS-BUILT SITE CHARACTERISTICS BUT MUST FIRST BE APPROVED BY OWNER'S PROJECT MANAGER.
- 4. PLANTS INSTALLED IN ZONES 1-4 OF THE CONSTRUCTED WETLANDS SHALL BE INSTALLED IN LARGE GROUPS OF THE SAME SPECIES WITH THE EXCEPTION OF TREE SPECIES.
- 5. CONTROTOR SHALL INSTALL BLUE TICK AND SOFT RESSH. IN LARGE CONDONS OF THE SAME SPECIES ON 3 TOOT CONTESS IN CANAL 4 AND 444 FARM-WANS. MAD HENDERS IN THE UPPER HALF OF ZONE I AND WHEN FISHING CHEMBERS IN THE UPPER HALF OF ZONE I AND WHEN FISHING CHEMBERS SHALL BE INSTALLED IN A STRAGERED PATTERN IN CONJUNCTION WITH BLUE FACE AND SEPT RESH TO ALLAWIE A DESTINATION BEING THE SPECIAL SOURCE OF THE LOWER HALF OF ZONE 2 IN CELLS 1, 2, 4, 400 3,
- 6. CONTRACTOR SHALL RAKE ZONE 2 OF ALL CREATION AREAS TO LOOSEN SOIL PRIOR TO PLANT MATERIAL INSTALLATION.
- 7. WETLAND BUFFER PLANTINGS SHOULD BEGIN FROM THE TOP OF ZONE 1 IN CREATION AREAS, AND FLOW-WAYS.

## WETLAND CREATION CELL NOTE

ZONE 1 REPRESENTS 5:1 SDE SLOPES FROM TOE OF WETLAND CREATION AREAS. UP TO UPLAND GRADE, ZONE 2 REPRESENTS THE WETLAND BASIN.







PLANTING SCHEME

AOM GMWRLS

## WETLAND MONITORING & MITIGATION NOTES

10/11/2016 10:29 AM BUCK GOLDEN

- TO SHOW COMPLANCE WITH THE PERFORMANCE STANDARDS OUTLINED IN THE USACE PERMIT, CONTRACTOR SHALL COMPLETE THE FOLLOWING:
  - O. PERFORM A TIME-ZERO MONITORING EVENT OF THE PROJECT SITES WITHIN 60 DAYS OF COMPLETION OF THE WETLAND AND UPLAND PLANTING.
- S. SUBMIT THE TIME—ZERO REPORT TO THE COUNTY WITHIN 45 DAYS OF COMPLETION OF MONITORING EVENT.
   THE REPORT SHALL INCLUDE A PARAGRAPH DISCUSSING BASELINE CONDITIONS OF THE PROJECT AREAS PRIOR <u>10</u> initation of work and a detailed plan view drawing of all enhanced/greation areas. The report shall also include as—bult drawings that depict the creation and enhancement activities.
  - C. PERFORM SEMI-ANNUAL MONTORING OF THE WORK AREAS FOR THE FIRST 3 YEARS AND ANNUAL MONITORING. THEREAFTER FOR A YOTAL OF 5 YEARS OF MONITORING.
- d. Submit up to five annual reports to the county within 45 days of completion of the monitoring event (subl-annual, monitoring is combined into one report). Annual, Monitoring Reports Shall Ber andamana of 10 pages and comply with reporting formal and required contined in the Usace Frank.
- SITES WILL BE CONSIDERED SUCCESSFUL, AND RELAKED FROM MONTORING AND REPORTING REQUIREMENTS WHICH THE FOLLOWING CRITERA ARE MET CONTINUOUSLY FOR AT LESS! 1 YEAR WITHOUT INTERVENTION IN THE WAR PRESENTING OR THE LODGING OR PRESENTAL OF PRESENTING.
  - 0. BOX COVER OF DESIRABLE WETLAND PLANT SPECIES IN WETLAND CREATION AND ENHANCEMENT AREAS. b. 75% SURWIVAL OF SHRUB AND TREE PLANT MATERIAL.
    - c. POSITIVE TREE GROWTH RATES FOR TWO CONSECUTIVE YEARS.
- d. LESS THAN 10% COVER BY NUISANCE AND/OR INVASIVE EXOTIC PLANT SPECIES.

### MAINTENANCE NOTES

- EDIGER OF CATGORY I AND IN INMARY EDONE PANT SPECIES, PRESAUCH TO THE MOST CHARGOT WILLOW INCIDENT CHARGOT WILLOW CHARGOT WILLOW CHARGOT WILLOW CHARGOT SPECIES PRIMARSOT WILLOW (LUDWACH PERDAWAL), DOG TENNET (FLOATORIUM, CHALLOWILLIM), BERAUDA GANSS (PROSALLIM WORTHER), AND CATHEL (TITEM SETS) SAME, DITOR LESS THAN I ID PRETERT IN ALL WETLAND CHESTION AND EMPHRESHER MESS, AS WELL AS THE WITHOUR BUTTER ENHANCEMENT MESS.
  - MAINTENANCE SHALL BE CONDUCTED SEMI-ANNUALLY OR AS NEEDED TO MAINTAIN INVASIVE AND EXOTIC PLANT COVERAGE BELOW 10% WITHIN THE PROPERTY.
- all removed plant material will be properly disposed of off-site at a landfill or other Appropriate Waste collection site.
- ONLY HERBICIDES APPROVED FOR AQUATIC APPLICATIONS SHALL BE UTILIZED IN THE WETLAND MITIGATION AREAS.
  - 5. A STATE LICENSED AQUATIC COMMERCIAL PESTICIDES / HERBICIDE APPLICATOR SHALL CONDUCT ALL HERBICIDE APPLICATIONS.
- NO MOTORZED VEHICLES SHALL BE USED BEYOND THE LUKTS OF CONSTRUCTION AREAS, SPECIFICALLY NOT WHITH DESCRIPED COMSERVATION EASUBORT AREAS EXCEPT FOR THE PURPOSE OF IMPLEMENTING THE WITCATON ACTIVITIES. HAWN HELD MECHANIZED EQUIPMENT SHALL ONLY BE UTILIZED IN WETLAND AREAS FOR THE PURPOSE OF REDIGNANC EXOTIC / NUISANCE SPECIES.

FEDMUNDS

CONTENTE FLORID 3761 / 033 377-581 ONES AGOLDEN WNICKEL

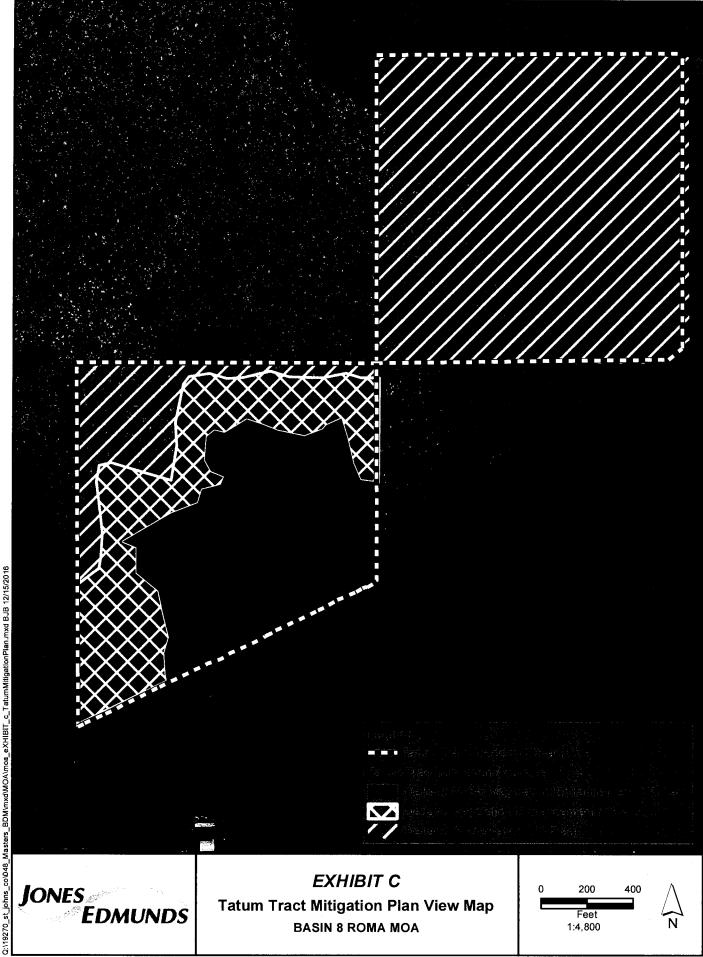
MASTERS TRACT REGIONAL
WETLANDS CELL AND STORMWATER HARVESTING
ST. JOHNS COUNTY, FLORIDA

WETLAND MITIGATION MONITORING AND MAINTENANCE PLAN

PROJECT NO. 19270-092-02 SEP 2016 SCALE AS NOTED WALTER A NICKEL

INDEX NO. DWG. NO. 11 WIR11

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For Informational Purposes Only

### **EXHIBIT D**

# Uniform Mitigation Assessment Method Summary

SJC B.	Site/Project Name:			_				1							
SJC B					Application Number:	Ľ		Date:				_			
Mitiga	SUC Basin 8 ROMA Mod				Item Number 1314293	314293		Decemb	December 15, 2016	g					
	Mitigation Summary														
			Location and Landscape Support	pe Support	Water Environment	ent	Community Structure	cture	Mitigation	Time	ä				
	Assessment Area	Mitigation Type	Current or w/o Mit	w/Mit	Current or w/o Mit	w/Mit	Current or w/o Mit	w/Mit	Delta		¥ SIL	ž	5	Acres	Functional Gain
	Masters WP	Preservation	9	7	9	9	æ	6	0.07	1.00	97	0.60	0.040	3.10	0 10
_	Floyd WP	Preservation	7	80	8	8	∞	6	0.07	1.00	1.00	09.0	0.040	55.87	200
Т	Tatum WP	Preservation	9	7	8	ω	7	8	0.07	1.00	100	090	0.040	60.70	2.43
	Masters WC Forested	Creation	0	7	0	6	0	8	0.80	1.92	2.00	n/a	0.208	37.40	7.78
$\neg$	Masters we	Enhancement	9	7	4	6	2	8	0.40	1.92	1.50	n/a	0.139	7.80	1 08
S F	Masters Herbaceous WC and Canal 4	Creation	0	7	0	6	0	8	0.80	1.07	1.75	n/a	0.427	10.40	4 44
_	latum WE	Enhancement	9	7	&	80	5	80	0.13	1.68	1.50	n/a	0.053	13.40	0.71
_	Masters UE	Enhancement	9	7	,	1	2.	8	0.35	1.92	1.25	n/a	0.146	20.60	301
	Floyd UP	Preservation	0	8	•	•	0	7	0.75	1.00	9.1	0.70	0.525	277	1 45
	latum UE	Enhancement	မွ	7	•		2	æ	0.20	1.25	1.25	n/a	0.128	17.10	2.19
- 5	Phase II - Masters WC Canal 4N	Creation	0	7	0	သ	0	8	0.67	1.07	1.75	n/a	0.356	4.40	1.57
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TOTALS			
Mitigation - Upland	Acres	Mitigation - Wetland	Acres
		Creation	52.20
Restoration	0.00	Restoration	0.00
Enhancement	37.70	Enhancement	21.20
Preservation	2.77	Preservation	119 67
Total Upland Mitigation	40.47	Total Wetland Mitigation	193.07