March 14, 2023

Cindy Mulkey
Deputy Director, Water Resource Management
Siting Coordination Office
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 5500
Tallahassee, FL 32399-2400
Submitted electronically to: sco@floridadep.gov

Re: FPL Sweatt-Whidden 230 kV Transmission Line Project
TLSA Application No. TA22-19
Segment 1: Sweatt – Basinger Post Certification Submittal

Dear Ms. Mulkey,

Florida Power & Light Company (FPL) respectfully submits the enclosed Post Certification submittal for Segment 1 of the FPL Sweatt – Whidden 230 kV Transmission Line Pursuant to Conditions of Certification, *Section A: General Conditions, Subsection XXI, Procedures for Post Certification Submittals.* This segment of the certified corridor originates at the Sweatt Substation and terminates at the Basinger Substation. The enclosed Environmental Resource Permit (ERP) form and included attachments address the post-certification conditions listed below.

- Section A, General Conditions:
  - 1.a. Submittals for Construction Activities – ERP Section A and C
  - 1.b. Wetland and surface waters map – Attachment 8
- Section B: Specific Condition I – FDEP:
  - A.2. Transition from Construction Area into adjacent wetlands – within Attachment 6
  - A.3. Wetlands Mitigation Plan – within Attachment 18
  - A.4. Erosion and sediment plan – within Attachment 6
  - A.6. Construction Schedule – within Attachment 6A
  - A.7 Water Quality Assurance – within Attachment C
  - A.15 Herbicide Management and Application Plan – within Attachment 14
- Section B: Specific Condition V - FWC:
  - A.2. General Listed Species Surveys – within Attachment 12
  - B.1. Specific Listed Species Surveys- within Attachment 12
  - C.1. Listed Species Location – within Attachment 12
  - E.1. Wading Birds - within Attachment 12
  - F.1. Florida Sandhill Crane- within Attachment 12
  - G.1. Southeastern American Kestrel- within Attachment 12
  - H.1. Florida Burrowing Owl- within Attachment 12

FPL looks forward to continuing working with the Department and other agencies during the Post-Certification process. If you have additional questions, please do not hesitate to contact Nick Zweber at (561) 348-4387 or Nick.Zweber@fpl.com.

Best Regards,

Franck Leblanc

Digitally signed by Franck Leblanc
DN: cn=Franck Leblanc, o=Environmental Services, ou=Florida Power & Light, email=franck_l_leblanc@fpl.com, c=US
Date: 2023.03.14 16:50:24 -04'00'

Franck Leblanc
Director, FPL, Environmental Services
Franck.L.Leblanc@fpl.com

Enclosures:
Distribution List
Segment 1: Sweatt-Basinger Post-Certification Filing

FPL Sweatt-Whidden TLSA (TA22-19) Distribution List
Segment 1: Sweatt-Basinger

Florida Department of Environmental Protection
Siting Coordination Office
2600 Blair Stone Road, MS 5500
Tallahassee, Florida 32399-2400
ann.seiler@floridadep.gov and
SCO@floridadep.gov

Southeast District – West Palm Beach
3301 Gun Club Road, MSC 7210-1
West Palm Beach, Florida 33406
Indarjit.Jagnarine@FloridaDEP.gov
Danielle.Sattelberger@FloridaDEP.gov

Office of General Counsel
3900Commonwealth Blvd, MS 35
Tallahassee, Florida 32399-3000
Kelley.Corbari@FloridaDEP.gov

Florida Fish & Wildlife Conservation Commission
Josh Cucinella
620 South Meridian Street
Tallahassee, Florida 32399-1600
josh.cucinella@myfwc.com, and
Laura.DiGruttolo@MyFWC.com
conservationplanningservices@myfwc.com

Sweatt-Whidden 230-kV Transmission Project, TA22-19

Segment 1: Sweatt – Basinger Substation
Post-certification Filing

FPL

March 2023

ECT No. 210863-0700

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FORMS

Section A
DEP Form 62-330.060(1)
Application for Individual and Conceptual Approval Environmental Resource Permit, State 404 Program Permit, and Authorization to Use State Owned Submerged Lands

Application for Individual and Conceptual Approval Environmental Resource Permit, State 404 Program Permit, and Authorization to Use State-Owned Submerged Lands

Florida Department of Environmental Protection/

Water Management Districts

Effective December 22, 2020

Instructions for Use of This Form:

This form is designed to assist you in submitting a complete application. All applications must include Section A-General Information for All Activities. Sections B through H list typical information that is needed based on the proposed activities and are only required as applicable. Part 1-C of Section A will guide you to the correct sections needed based on your proposed activities. Applicants are advised to consult Chapter 62-330, F.A.C., and the Environmental Resource Permit Applicant's Handbook Volumes I and II for information regarding the ERP permitting process and requirements while preparing their application. Internet addresses for Chapter 62-330, F.A.C., and the Applicant's Handbook, Agency contact information, and additional instructions for this form can be found in Attachment 1.

What Sections of the Application Must I Fill Out?

Type of Activity	Section A	Section B	Section C	Section D	Section E	Section F	Section G	Section H	Section I
Fill in wetlands or waters for a single family residence?	Y	Y	N	N	N	N	N	N	Y, if in assumed waters
Docks, shoreline stabilization, seawalls associated with a single family residence?	Y	Y	N	N	N	Y, as needed	N	N	Y, if in assumed waters
Wetland impacts (other than association with an individual residence)?	Y	N	Y	N	N	N	N	N	Y, if in assumed waters
Boating facilities, a marina, jetty, reef, or dredging?	Y	N	Y	Y	N	Y, as needed	N	N	Y, if in assumed waters
Any work on state owned submerged land?	Y	N	Y	N	N	Y	N	N	Y, if in assumed waters
Construction of a stormwater management system?	Y	N	Y, as needed	N	Y	N	N	N	N
Constructing a mitigation bank?	Y	N	Y	N	Y, as needed	N	Y	N	Y, if in assumed waters
Creating a mine?	Y	N	Y, as needed	N	N	N	N	Y	Y, if in assumed waters

If you have any questions, or would like assistance completing this form, please contact the staff of the nearest office of either the Florida Department of Environmental Protection (DEP) or a Water Management District (WMD) (see Attachment 2).

Section A:
General Information for All Activities

Part 1: Name, Application Type, Location, and Description of Activity

A. Name of project, including phase if applicable:

Sweatt – Whidden TLSA Project, TA22-19
Segment 1: Sweatt – Basinger Substation

B. This is for (check all that apply):

☒ Construction and operation of **new** works, activities, and/ or a stormwater management system

☐ **Conceptual Approval** of proposed works, activities and/ or a stormwater management system

☐ Modification or alteration of **existing** works, activities, and/or a stormwater management system. Provide the existing DEP or WMD permit #, if known: Note: Minor modifications do not require completion of this form, and may instead be requested by letter in accordance with section 6.2 of Applicant's Handbook Volume I.

☐ **Maintenance or repair** of works, activities, and/ or a stormwater management system previously permitted by the DEP or WMD. Provide existing permit #, if known:

☐ Abandonment or removal of works, activities, and/ or a stormwater management system.

Provide existing DEP or WMD permit #, if known:

☐ Operation of an **existing unpermitted** work, activity, and/or stormwater management system.

☐ Construction of additional phases of a permitted work, activity, or system.

Provide the existing DEP or WMD permit #, if known:

☐ A State 404 Program authorization:

☐ Exemption ☒ General Permit ☐ Individual Permit

If requesting an Exemption or General Permit provide Rule #, if known: **62-331.215, F.A.C.**

☐ **By checking this box**, I hereby voluntarily waive, in accordance with Rule 62-330.090(8), F.A.C., the agency action deadlines in section 5.5.3 of Volume I in the event my project also requires a State 404 Program authorization (other than an exemption) under Chapter 62-331, F.A.C., and request that the agency actions for the ERP and State 404 Program authorizations be issued at the same time. (This is strongly recommended to ensure consistency, and to reduce the potential need for project modifications to resolve inconsistencies that may occur when the agency actions are issued at different times.) If this box is checked and the Agency(ies) determines that no State 404 Program authorization is required, the Agency will continue to abide by section 5.5.3 of Volume I.

C. **List the type of activities proposed. Check all that apply**, **and provide the supplemental information requested in each of the referenced application sections.** Please also reference Applicant's Handbook Volumes I and II for the type of information that may be needed.

☐ Activities associated with one single-family residence, duplex, triplex, or quadruplex that do not qualify for an exemption or a General Permit: **Provide the information requested in Section B. Do not complete Section C.**

☒ Activities within wetlands or surface waters, or within 25 feet of a wetland or surface water, (not including the activities associated with an individual single-family residence). Examples include dredging, filling, outfall structures, docks, piers, over-water structures, shoreline stabilization, mitigation, reclamation, and restoration/enhancement. **Provide the information requested in Section C.**

☐ Activities within navigable or flowing surface waters such as a multi-slip dock or marina, dry storage facility, dredging, bridge, breakwaters, reefs, or other offshore structures: **In addition to Section C, also provide the information requested in Section D.**

☐ Activities that are (or may be) located within, on, or over state-owned submerged lands (See Chapter 18-21, F.A.C. https://www.flrules.org/gateway/ChapterHome.asp?Chapter=18-21): **In addition to Section B or C, also provide the information requested in Section F.**

☐ Construction or alteration of a stormwater management system serving residential, commercial, transportation, industrial, agricultural, or other land uses, or a solid waste facility (excluding mines that are regulated by DEP). **Provide the information requested in Section E.**

☐ Creation or modification of a Mitigation Bank (refer to Chapter 62-342, F.A.C. https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-342): **Provide the information requested in Section G.**

☐ Mines (as defined in Section 2.0 of Applicant's Handbook Volume I) that are regulated by the DEP: **Provide the information requested in Section H.**

☐ Other, describe: Please contact the Agency to determine which additional sections of the application are needed. See Attachment 2 for Agency contacts.

D. Describe in general terms the proposed project, system, works, or other activities. For permit modifications, please briefly describe the changes requested to the permit:

Florida Power & Light Company (FPL) is proposing to construct the first phase of a new 230-kilovolt (kV) transmission line, Sweatt-Whidden (Project), which is scheduled to be in service by December 2025. The Overall Project will extend approximately 80.5 miles traversing through multiple counties in a combination of existing and new right-of-way. The Project originates at FPL's existing Sweatt substation located in Okeechobee County and terminates at FPL's existing Whidden substation located in DeSoto County (Attachment 1).

FPL has certified the Project under the Florida Electric Transmission Line Siting Act (TLSA) and received its Final Order in September 2022, TA22-19. Substations are not part of this certification.

This post-certification submittal pertains to the Segment 1 portion of this Project, Sweatt – Basinger, approximately 21 miles, in Okeechobee County. See also Attachment 1, Location Map.

E. Project/Activity Street/Road Address or other location (if applicable):
City: County(ies): **Okeechobee** Zip:

Note: For utility, road, or ditch/canal activities, provide a starting and ending point using street names and nearest house numbers or provide length of project in miles along named streets or highways.

Segment 1: Sweatt - Basinger
The proposed transmission line originates at the existing Sweatt Substation, located on NE 224th Street (Hililo Road) in Okeechobee, approximately one mile east of Highway 441.

From Sweatt Substation, the line travels one mile west to Highway 441, where the line crosses to the west side of the highway and turns north, continuing another approximately 1.10 miles to NW 240th Street, where the project turns west. The proposed transmission line traverses west along NW 240th Street approximately 12.15 miles, crossing from the north to the south side of the road once, before turning south at NW 176th Avenue.

The proposed line continues south along NW 176th Avenue for approximately another 5.6 miles to US 98, where the line turns west. At US 98, the line travels west for another 1.26 miles to the existing Basinger Substation.

Segment 1 terminates at the existing Basinger Substation, located at 19712 US 98 in Okeechobee, approximately 1.3 miles west of NW 176th Avenue.

F. Project location map and Section, Township, and Range information (use additional sheets if needed):

Attachments 1 and 1A depicts an overall Location Map, with all phases of Project identified. Attachment 2 is the Section-Township-Range map of Segment 1: Sweatt – Basinger.

Please attach a location map showing the location and boundaries of the proposed activity in relation to major intersections or other landmarks. The map should also contain a north arrow and a graphic scale; show Section(s), Township(s), and Range(s); and must be of sufficient detail to allow a person unfamiliar with the site to find it.

A list of Section-Township-Ranges is provided as Attachment 3.

G. Latitude (DMS) **27º 27' 52.19N"** Longitude (DMS) **80º 58' 45.85W"** (Taken from central location of the activity). Explain source for obtaining latitude and longitude (i.e., U.S.G.S. Quadrangle Map, GPS, online resource): **Google Earth**

H. Tax Parcel Identification Number(s): **Please refer to Attachment 4, Parcel Table.**

[Number may be obtained from property tax bill or from the county property appraiser's office; if on multiple parcels, provide multiple Tax Parcel Identification Numbers]

I. Directions to Site (from major roads; include distances and landmarks as applicable): .

Directions to Sweatt Substation: Sweatt Substation is located on NE 224th Street (Hililo Road) in Okeechobee, approximately one mile east of Highway 441.

Directions to Basinger Substation: Basinger substation is located at 19712 US 98 in Okeechobee, approximately 1.3 miles west of NW 176th Avenue.

J. Project area or phase area: **155.22** acres (this is the total area within the project footprint, which includes both the temporary workspace plus the eventual right-of-way or narrowed corridor).

K. Name of waterbody(ies) (if known) in which activities will occur or into which the system will discharge:

The project crosses several named and unnamed creeks, including:
Fish Slough, Gore Branch and Ash Slough.

The following questions (M-O) are not applicable to activities related to an individual single-family residence, including a dock, pier, and/or seawall associated with that residence.

L. Is it part of a larger plan of development or sale? ☐ yes ☒ no

M. Impervious or semi-impervious area excluding wetlands and other surface waters (if applicable):

acres or square feet
0.27 acre or **11,712.5** square feet = **permanent fill associated with 233 transmission structures in Uplands.**

Plus, 0.086 acre or 3767.94 square feet = permanent fill associated with guy anchors in Uplands.

N. Volume of water the system is capable of impounding (if applicable): **Not Applicable.**

Normal Pool: acre-feet. Depth ft.
Maximum Pool: acre-feet. Depth ft.

Part 2: Supplemental Information, and Permit History

A. Is this an application to modify an existing Environmental Resource Permit or to construct or implement part of a multi-phase project, such as a project with a Conceptual Approval permit? ☒ Yes ☐ No (If you answered "yes", please provide permit numbers below*):*

This submittal is one of four anticipated for the Project, being Segment 1: Sweatt-Basinger, part of a certified Transmission Line Siting Act linear project, TA22-19.

Agency	Date	Permit/Application No.	Project Name
FDEP SCO	**9/22/22**	**TA22-19**	**FPL Sweatt-Whidden 230kV Transmission Line**
FDEP SCO	**12/13/2022**	**TA22-19**	**FPL Sweatt-Whidden 230kV Transmission Line**

B. Indicate if there have been any **pre-application meeting(s)** with the DEP, WMD, or delegated local government, or other discussions, meetings, or coordination with other stakeholders or agencies about the proposed project, system or activity. If so, please provide the date(s), location(s) of the meeting, and the name(s) of Agency staff that attended the meeting(s):

Agency	Date	Location	Meeting Attendees
FDEP SCO	**12/13/2022**	**TA22-19**	**Ann Seiler (FDEP), Benny Luedike (FPL), Nick Zweber, Scott Goorland (FPL), Jude Dawson (ECT)**

C. **Attach a depiction (plan and section views), which clearly shows the works or other activities proposed to be constructed.** Use multiple sheets, if necessary, a scale sufficient to show the location and type of works, and include a north arrow and a key to any symbols used. **Specific information to be included in the plans is based on the activities proposed and is further described in Sections B-H**. However, supplemental information may be required based on the specific circumstances or location of the proposed works or other activies.

Please refer to Attachment 6 for typical drawings and Attachment 16 for Route of Line/Civil Drawings depicting the Project.

Processing Fee: **Please submit the application processing fee along with this application form and supplemental information.** Processing fees vary based on the size of the activity, the type of permit applied for, and the reviewing Agency. Please reference Appendix D of Applicant's Handbook Volume I to determine the appropriate fee.

Part 3: Applicant and Associated Parties Information

Instructions: Please complete the following sections. For corporations, list a person who is a registered agent or officer of the corporation who has the legal authority to bind the corporation.

A. Applicant (Entity Must Have Sufficient Real Property Interest)
☐ **This is a Contact Person for Additional Information**

Last Name: **Leblanc** First Name: **Franck** Middle Initial:
Title: **Director, Environmental Services** Company: **Florida Power & Light Company**
Address: **15340 Endeavor Drive**
City: **Jupiter** State: **Florida** Zip: **33478**
Home Telephone: Work Telephone: **(561)904-3415**
Cell Phone: E-mail Address: **Franck.L.Leblanc@fpl.com**

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

B. Land Owner(S) (If Different or in Addition to Applicant)
☐ **Check here if land owner is also a co-applicant**

Last Name: First Name: Middle Initial:
Title: Company:
Address:
City: State: Zip:
Home Telephone: Work Telephone:
Cell Phone: E-mail Address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

C. Operation and Maintenance Entity(see Applicant's Handbook I, Section 12.3)

Last Name: **Leblanc** First Name: **Franck** Middle Initial:
Title: **Director, Environmental Services** Company: **Florida Power & Light Company**
Address: **15340 Endeavor Drive**
City: **Jupiter** State: **FL** Zip: **33478**
Home Telephone: Work Telephone: **(561)904-3415**
Cell Phone: E-mail Address: **Franck.L.Leblanc@fpl.com**

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

D. Co-Applicant (If Different or In Addition to Applicant and Owner)

Last Name: First Name: Middle Initial:
Title: Company:
Address:
City: State: Zip:
Home Telephone: Work Telephone:
Cell Phone:
E-mail Address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

D. Registered Professional Consultant
☐**This is a contact person for additional information**

Last Name: First Name: Middle Initial:

Title: Company:
Address:
City: State: Zip:
Home Telephone: Work Telephone:
Cell Phone:
E-mail Address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

E. Environmental Consultant
☒**This is a contact person for additional information**

Last Name: **Dawson** First Name: **Jude** Middle Initial: **F.**
Title: **Senior Scientist** Company: **Environmental Consulting & Technology, Inc.**
Address: **7027 SW 24th Avenue**
City: **Gainesville** State: **FL** Zip: **32607**
Home Telephone: Work Telephone: **352-248-3336**
Cell Phone: **352-213-9803**
E-mail Address: **jdawson@ectinc.com**

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

F. Agent Authorized to Secure Permit (If Different from Consultant)

Last Name: First Name: Middle Initial:
Title: Company:
Address:
City: State: Zip:
Home Telephone: Work Telephone:
Cell Phone:
E-mail Address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

If necessary, please add additional pages for other contacts and property owners related to this project.

G. Real Property Interest

a. Permits are only issued to entities having sufficient real property interest as described in Section 4.2.3(d) of Applicant's Handbook Volume I**. Please attach evidence of the applicant's real property interest over the land upon which the activities subject to the application will be conducted, including mitigation areas (if applicable).** Refer to Sections 4.2.3(d)-(e) for sufficient real property interest documentation.

b. For activities that require a recorded notice in accordance with rule 62-330.090(7), F.A.C., please provide either the complete legal description of the property or a copy of the pages of the document recorded in the public records that contains the complete legal description. If the land upon which the proposed activities are to occur is not owned by the applicant, the applicant must also provide copies of any right-of-way, leases, easements, or other legal agreement which authorizes the applicant to perform the activities on those lands.

Part 4: Signatures and Authorization to Access Property

Instructions: For multiple applicants please provide a separate Part 4 for each applicant. For corporations, the application must be signed by a person authorized to bind the corporation. A person who has sufficient real property interest (see Section 4.2.3(d) of Applicant's Handbook Volume I) is required in (B) to authorize access to the property, except when the applicant has the power of eminent domain.

A. By signing this application form, I am applying for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto does not relieve me of any obligation for obtaining any other required federal, state, water management district, or local permit prior to commencement of construction. I agree to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a different responsible operation and maintenance entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Jude Dawson Typed/Printed Name of Applicant or Applicant's Authorized Agent	Jude Dawson Signature of Applicant or Applicant's Authorized Agent	March 14, 2023 Date

Senior Scientist, Environmental Consulting & Technology, Inc.
(Corporate Title if applicable)

B. Certification of Sufficient Real Property Interest And Authorization For Staff To Access The Property:

I certify that:

☐ **I possess sufficient real property interest in or control, as defined in Section 4.2.3 (d) of Applicant's Handbook Volume I,** over the land upon which the activities described in this application are proposed and I have legal authority to grant permission to access those lands. I hereby grant permission, evidenced by my signature below, for staff of the Agency to access, inspect, and sample the lands and waters of the property as necessary for the review of the proposed works and other activities specified in this application, upon advance notice. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review, inspection, and/ or sampling. Further, if a permit is granted, upon advance notice, I agree to provide entry to the project site for such agents or personnel with proper identification to determine compliance with permit conditions and permitted plans and specifications.

OR

☒ I represent an entity having **the power of eminent domain and condemnation authority**, and I/we shall make appropriate arrangements to enable staff of the Agency to legally access, inspect, and sample the property as described above.

Franck Leblanc, Florida Power & Light Company Typed/Printed Name	Franck Leblanc Digitally signed by Franck Leblanc DN: cn=Franck Leblanc, o=Environmental Services, ou=Florida Power & Light, email=franck_l_leblanc@fpl.com, c=US Date: 2023.03.14 16:44:32 -04'00' Signature	March, 14, 2023 Date

Director, Environmental Services
(Corporate Title if applicable)

C. Designation of Authorized Agent (If Applicable):

I hereby designate and authorize Jude Dawson to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S., and 18 U.S.C. Section 1001.

Franck Leblanc, Florida Power & Light Company Franck Leblanc Digitally signed by Franck Leblanc DN: cn=Franck Leblanc, o=Environmental Services, ou=Florida Power & Light, email=franck_l_leblanc@fpl.com, c=US Date: 2023.03.14 16:45:42 -04'00' March, 14, 2023

Typed/Printed Name of Applicant | Signature of Applicant | Date

Director, Environmental Services
(Corporate Title if applicable)

Section C
DEP Form 62-330.060(1)
Supplemental Information for Works or Other Activities In, On, or Over Wetlands and/or Other Surface Waters

Section C: Supplemental Information for Works or Other Activities In, On, or Over Wetlands and/or Other Surface Waters

Instructions: **This section is for applications that do not involve activities associated with an individual single-family residence, duplex, triplex, or quadruplex. For those activities, please use Section B.** This form is to be completed if the proposed work or activity will occur in, on, over, or within 25 feet of a wetland or other surface water. The supplemental information required by this section is in addition to the information required by Section A of the application.

Part 1: Wetland or Other Surface Water Impact Summary

1. Describe the basic purpose of the project or activity: **Construction of a 230-kV transmission line to increase reliability and meet customer demand. See also Attachment 6A for Project Narrative and Construction Methods.**

2. Total area of work (dredging, filling, construction, alteration, or removal) in, on, or over wetlands or other surface waters: sq. ft.; **34.04 ac. (acreage of wetlands and surface waters within the project footprint, which is defined as the narrowed corridor/eventual transmission line right-of-way plus temporary construction workspace).**

3. Total volume of material to be dredged or filled in wetlands or other surface waters:
   a. to be dredged: 0 cubic yards,
   b. to be filled: **44.68** cubic yards. **(permanent fill at structure locations located in wetlands)**

4. Identify the seasonal high water level (SHWL) and wetland normal pool elevations for each wetland or surface water within the project site. For tidal wetlands and/or surface waters provide the elevation of mean high and mean low water. Include an aerial photograph showing the location of each sampling location, dates, datum, and methods used to determine these elevations.

5. Name of waterbody(ies) (if applicable & if known) in which work will occur? **Fish Slough, Gore Branch and Ash Slough (aerial overhead crossing).**

☐ ☒ ☐

6. Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve?
   yes, name: no I don't know

7. Has there ever been a formal or informal wetland determination for the project site? If yes, provide the identifying number and/or a copy of the jurisdictional map. **No wetland determination has been conducted for the project site.**

8. Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil types. **Please refer to Attachment 7 – Soils Map.**

9. Provide recent aerials legible for photointerpretation (no photocopies) with a scale of 1" = 400 ft, or more detailed, with project boundaries and wetland boundaries delineated on the aerial. **Please refer to Attachment 8 – Aerial Map with Delineated Wetlands.**

10. Provide maps accurately portraying the existing and proposed natural vegetative community types and land cover classifications using recognized classification schemes. Suggested sources include: the Florida Natural Areas Inventory Guide to the Natural Communities of Florida (2010) available at http://www.fnai.org/naturalcommguide.cfm, or the Florida Land Use and Cover Classification System (FLUCCS) (FDOT 1999, available at http://www.dot.state.fl.us/surveyingandmapping/documentsandpubs/fluccmanual1999.pdf). For vegetated areas dominated by exotic vegetation, use the descriptors representative of the native community type that was present prior to exotic infestation. **Please find Attachment 9 – Land Use Land Cover Maps.**

11. Impact Summary Tables (located at the end of this section): **Please refer to Attachment 10 – Wetland Impacts Table and Attachment 17 – Impacts Map**

a. For all projects, complete Table 1, 2 and 3 as applicable. **See also Attachment 10.**

b. For shoreline stabilization projects, provide the information requested in Table 4. **NA**

	Summary of Impacts by Type			
		Structures	**Matting**	**Clearing**
Wetlands		**Permanent Fill**	**Temporary Impact**	**(Permanently Maintained *)**
Forested Wetlands		**.005 acre**	**0.23 acre**	**0.92 acre**
Herbaceous Wetlands		**.023 acre**	**3.50 acres**	

* Forested wetlands within the permanently maintained utility right-of-way will be permanently converted from forested wetlands to herbaceous wetlands.

12. If the activity is located on state owned submerged lands and requires a lease or easement, provide a list of names and addresses from the latest county tax assessment roll of all property owners located within a 500 ft. radius of the proposed lease or easement boundary in mailing label format, or you may elect to send notice to those persons by certified mail, with the return-receipt card addressed to the DEP or water management district, as applicable, in accordance with subsection 18-21.005(3), F.A.C., and Section 253.115, F.S. Attach additional sheets if necessary. **Not Applicable for Segment 1: Sweatt – Basinger. State Lands Determination Letter from State provided as Attachment 5.**

1. Name:
   Mailing Address:
   City, State, Zip Code:

2. Name:
   Mailing Address:
   City, State, Zip Code:

3. Name:
   Mailing Address:
   City, State, Zip Code:

4. Name:
   Mailing Address:
   City, State, Zip Code:

5. Name:
   Mailing Address:
   City, State, Zip Code:

6. Name:
   Mailing Address:
   City, State, Zip Code:

Part 2: Environmental Considerations

Note: for many questions, a state statute/Applicant's Handbook Volume I (AH I)/State 404 Program Applicant's Handbook section is cited to assist the applicant in addressing these questions.

1. Elimination or Reduction of Impacts (Avoidance and Minimization). Describe measures taken to eliminate or reduce impacts to wetlands and other surface waters (*Refer to AH I Section 10.2.1*). **Please refer to Attachment 11 for proposed methods to eliminate or reduce wetland impacts.**

2. Fish, Wildlife, Listed Species, and their Habitats. Provide results of any wildlife assessments that have been conducted on the project site and provide any comments, biological opinions, formal or informal consultation decisions, or recommended actions you have received pertaining to the project from the Florida Fish and Wildlife Conservation Commission, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service. (*Refer to AH I Section 10.2.2*). **Please find Attachment 12 for a discussion of vegetation, fish, wildlife, listed species and habitat assessments.**

3. Water quantity impacts to wetlands and other surface waters (*Refer to AH I Section 10.2.2.4 and AH II*).

   a. Does the activity include a proposed surface water management system with a control elevation different than the wetland normal pool elevation(s) of existing or proposed created wetlands or other surface waters? **Not Applicable.**

   b. If yes to (a), provide documentation (e.g. drawdown assessment or other methods) that shows the proposed surface water management system will not change the hydroperiod of the existing or created wetland or other surface water. **Not Applicable.**

4. Public Interest Test. Please describe how the proposed activity will ***not be contrary*** to the public interest, OR if such an activity significantly degrades or is located within an Outstanding Florida Water (OFW), that the regulated activity will be ***clearly in*** the public interest (*Refer to AH I Section 10.2.3*). **Please find Attachment 13, which addresses the Public Interest Test.**

   a. Please describe how the project will be designed to avoid adverse effects to public health, safety, or the welfare or the property of others. **See Attachment 13.**

   b. Please describe how the project will be designed to avoid adverse effects to the conservation of fish and wildlife, including endangered or threatened species, or their habitats. **See Attachment 13 as well as Attachment 12.**

   c. Please describe how the project will be designed to avoid adverse effects to navigation or the flow of water or cause harmful erosion or shoaling. **Not Applicable.**

d. Please describe how the project will be designed to avoid adverse effects to the fishing or recreational values or marine productivity in the vicinity of the activity. **Please refer to Attachment 13.**

e. Will the project be of a temporary or permanent nature? **Permanent.**

f. Please describe how the project will be designed to avoid adverse impacts to significant historical and archaeological resources, under the provisions of section 267.061, F.S. **See Attachment 13.**

g. Please describe how the project will be designed to avoid adverse effects to the current condition and relative value of functions being performed by areas affected by the proposed regulated activity. **Please refer to Attachment 13.**

5. Water Quality.
Provide a description of how water quality will be maintained in wetlands and other surface waters that will be preserved or will remain undisturbed, both on and offsite. Please address both short-term (such as during construction) and long-term water quality considerations (*Refer to AH I Section 10.2.4*).

Please refer to Attachment 6A which discusses Construction and Maintenance of the proposed Project. Attachment 11 addresses the reduction and minimization of impacts, which also includes Best Management Practices.

6. Class II Waters; Waters approved for shellfish harvesting *(Refer to AH I Section 10.2.5)*.

a. Will the project occur in Class II that are NOT approved for shellfish harvesting? If yes, please provide a plan or procedure detailing the measures to be taken to meet the requirements of *AH I Section 10.2.5(a)*. **Not Applicable.**

b. Is the project located adjacent to or in close proximity to Class II waters? If yes, please provide a plan or procedure detailing the measures to be taken to meet the requirements of *AH I Section 10.2.5(b)*. **Not Applicable.**

c. Is the project located in Class II or Class III waters that are classified as “approved”, “restricted”, “conditionally approved”, or “conditionally restricted”? If yes, demonstrate that the project meets the requirements of *AH I Section 10.2.5(c)*. **Not Applicable.**

7. Vertical seawalls. Are vertical seawalls proposed in an estuary or lagoon as part of the project? If yes, please describe how the project meets the requirements of *AH I Section 10.2.6*. **Not Applicable.**

8. Secondary Impacts (*AH I Section 10.2.7*).

a. Will an upland buffer, with a minimum width of 15' and an average width of 25', be provided between the proposed activities and existing wetlands or wetlands to be preserved, enhanced, restored, or created? Provide the location and dimension of all buffers on the plans. If not, demonstrate that secondary impacts will not occur or describe how they will be offset.

Please refer to Attachments 6A and 11, which discusses best management practices and methodology to maintain water quality during construction and operation of the Project.

If listed species are present or may be present, then coordination with wildlife agencies is needed. Have you coordinated with the FFWCC and/or USFWS? If so, please provide correspondence from the wildlife agencies indicating concurrence with the species management plan(s).
Initial coordination has occurred with FWC and USFWS. See also Attachment 13, which addresses the Public Interest Test.

What measures will be taken to avoid impacts to wetland-dependent wildlife and/or listed species that use uplands for nesting or denning?
See Attachment 13, which addresses the Public Interest Test.

b.

Describe whether there are any other relevant activities that are very closely linked and causally related to any proposed dredging or filling in wetlands or other surface waters that have the potential to cause impacts to significant historical and archaeological resources.
See Attachment 13, which addresses the Public Interest Test.

c. Are there additional future phases or extensions of the proposed activities that are not shown? If yes, please describe.
Segment 1: Sweatt – Basinger is the first of four segments for this project. See also Attachment 1 for map showing all segments of the Project.

9. Cumulative Impacts. Is the proposed mitigation located within the same drainage basin (*Refer to AH I Figures 10.2.8.1 – 10.2.8.5)* as the proposed wetland impacts? If not, please submit a Cumulative Impact Evaluation in accordance with *AH I Section 10.2.8*.
Please see Attachment 18 – Mitigation Plan.

10. Mitigation Plan (*Refer to AH I Section 10.3*). **Please see Attachment 18 – Mitigation Plan.**

a. If a mitigation bank is proposed to offset wetland/other surface water impacts, provide:

i. the name of the bank: . A letter of reservation from the banker will be required once the application has been evaluated.
ii. If the mitigation bank was assessed using UMAM, provide UMAM worksheets for impact area(s). If the bank was assessed using a method other than UMAM, then prepare the impact assessment using the same method. **UMAM Forms are appended as Attachment 15.**

b. If mitigation is proposed to offset wetland/other surface water impacts, please provide a mitigation plan that includes, at a minimum, the following: **Not Applicable.**

i. ☐ Proposed mitigation narrative:
(1) ☐ Describe the current and proposed condition for each type of mitigation component (restoration, enhancement, creation, preservation), including:
(a) ☐ Describe current and proposed vegetation
(b) ☐ Describe current and proposed hydrologic conditions for the proposed mitigation.
(c) ☐ Describe the soil types from NRCS maps and confirm if actual soil conditions appear to match.

(2) ☐ Provide details of the proposed construction/mitigation activities including phasing and timing, as appropriate.
(3) ☐ Identify measures that will be implemented during and after construction to avoid adverse impacts related to the proposed activities.
(4) ☐ A mitigation implementation and monitoring schedule with dates.
(5) ☐ Identify the success criteria.
(6) ☐ Describe the anticipated site conditions in and around the mitigation area after the mitigation plan is successfully implemented.
(7) ☐ Provide a comparison of current fish and wildlife habitat to expected habitat after the mitigation plan is successfully implemented.

ii. ☐ Provide a Management Plan that includes, as appropriate, aspects of operation and maintenance, including water management practices, vegetation establishment, exotic and nuisance species control, fire management, and control of access.

iii. ☐ Maps:
(1) ☐ Soil map (include soil names/codes, hydrologic soil groups and hydric soil types).
(2) ☐ Topographic map of the mitigation area and adjacent contributing and receiving areas.
(3) ☐ Hydrologic features map of the mitigation area and adjacent contributing and receiving areas.
(4) ☐ Vegetative communities map (using FLUCCS or other appropriate classification system).
(5) ☐ For all maps, identify source.

iv. Provide the necessary supporting information for the application of sections 62-345.400 - .600 (Uniform Mitigation Assessment Method (UMAM)). To meet this requirement, submittal of UMAM worksheets is acceptable for impact and mitigation areas.

v. If onsite and/or offsite applicant-responsible mitigation is proposed, submit a draft Conservation Easement document or other form of restrictive covenant that provides for protection of the mitigation area in perpetuity. Standard forms, as described in subsection 62-330.301(6), F.A.C., are available from the Agency or on its website.

vi. If onsite and/or offsite applicant-responsible mitigation is proposed, submit a cost estimate for completing the mitigation, including monitoring and maintenance.

vii. If onsite and/or offsite applicant-responsible mitigation is proposed and the proposed mitigation exceeds $25,000, please provide a draft financial assurance document. Standard forms, as described in subsection 62-330.301(5), F.A.C., are available from the agency or on its website.

viii. Identify the entity responsible for monitoring, maintenance, and long-term stewardship of the mitigation area (i.e. the landowner or homeowner association, not the consultant or contractor that will do the work).

Note: If your project is in retained waters, it is highly recommended that you coordinate the design of any mitigation plan that also may be required for the Corps permit to meet the requirements of both permits. Pre-application meetings with both the applicable Agency and the Corps can help you to choose a mitigation option that is acceptable to both the applicable Agency and the Corps.

Part 3: Plans

Plans: The information listed in the checklist below represents the typical information required on the submitted project plans. The Plans checklists in each application section are cumulative unless otherwise noted. Separate plans for each application section are not required.

1. ☒ Include the following on the construction plans and cross sections: **See Attachments 6 (Typical Drawings and 16 (Route of Line/Civil Design Drawings).**

    a. ☒ An Existing Conditions sheet showing the entire project and wetland/other surface water boundaries. Include the following: Acreage and type (herbaceous, forested or other surface water) of each wetland/other surface water. **See also Attachment 8 - Delineated Wetlands.**
    b. ☐ A Proposed Conditions sheet showing the entire project and wetland/other surface water boundaries with construction plan overlay. **See also Attachment 16 - Civil Design Drawings.**
    c. ☒ A Proposed Wetland Impact sheet that includes the following: **See Attachment 17 – Wetland Impacts Map.**
        i. ☐ Acreage and type (herbaceous, forested, or other surface water) of each wetland/other surface water to be impacted.
        ii. ☐ Proposed upland buffers with dimensions.
        iii. ☐ Identify the seasonal high water and wetland normal pool elevations on the plans.
    d. ☐ Include wetland boundaries on all construction plan sheets.

2. ☐ If onsite and/or offsite applicant-responsible mitigation is proposed, submit mitigation plans and cross sections including, at a minimum: **Not Applicable.**

    a. ☐ existing conditions plan sheet identifying upland and wetland communities and acreage of each, topography, drainage patterns, and location of cross-section detail.
    b. ☐ proposed conditions plan sheet identifying proposed improvements by type (restoration, enhancement, creation, preservation), acreage of each, topography, drainage patterns, and location of cross-section detail.
    c. ☐ monitoring plan sheet including proposed improvements, monitoring transects, photostations, and mitigation signage (if applicable).
    d. ☐ cross-section and/or profile detail(s) sheet(s) including representative section of each type of mitigation component. Include existing and proposed conditions and representative elevations.
    e. ☐ planting schedule, plant species including common and scientific names divided into three sections (canopy, shrub, herbaceous) by mitigation component, quantity, spacing, size, and elevation range.

Section I
DEP Form 62-330.060(1)
Supplemental Information for State 404 Program Permits

Section I:
Supplemental Information for State 404 Program Permits

State 404 Program authorization is required for activities within state-assumed waters under Chapter 62-331, F.A.C. The following information is necessary to facilitate the State 404 Program review when a project is within state-assumed waters.

1. Identify the project purpose. (*Describe the purpose and need for the proposed project. Why are you proposing the work? How will you use the proposed structure(s); and/or, how will the proposed fill area(s) be used?)* Include a description of any related activities that may be developed as a result of the proposed project. Provide the approximate dates you plan to both begin and complete all work:

Florida Power & Light Company (FPL) is proposing to construct the first segment of a new 230-kilovolt (kV) transmission line, Sweatt-Whidden (Project) as part of a reliability project in the area. Pre-construction clearing is anticipated to begin in January 2024 and the line is expected to be in service by December 2025. The Overall Project will extend approximately 80.5 miles traversing through multiple counties in a combination of existing and new right-of-way. The Project originates at FPL's existing Sweatt substation located in Okeechobee County and terminates at FPL's existing Whidden substation located in DeSoto County (Attachment 1 – Location Map).

FPL has certified the Project under the Florida Electric Transmission Line Siting Act (TLSA) and received its Final Order on September 22, 2022, TA22-19.

This submittal pertains to the Segment 1 portion of this Project, Sweatt – Basinger, approximately 21 miles, in Okeechobee County. See also Attachments 1 and 1A, Location Map.

Construction and operation of Segment 1: Sweatt- Basinger will result in the permanent fill of 0.03 wetlands at 24 transmission structure locations. All other wetland impacts will be temporary in nature and FPL anticipates that there will be no other net loss of wetlands. There is no in-water work proposed. See Attachment 6 for Typical Drawings, Attachment 16 for Civil Drawings, Attachment 10 for Wetland Impacts Tables and Functional Loss calculations, Attachment 17 for Wetland Impacts associated with the Project and Attachment 18 for discussion of the wetland delineation methodology and mitigation plan.

FPL submits this supplemental information for review with the understanding that the Project meets the requirements for a General Permit and can comply with all conditions per 62-331.201, F.A.C.

2. List all other certificates or approvals/denials received or pending from federal, state, or local agencies for work affecting wetlands and/or other surface waters encompassed by the overall project site: (*You need not have obtained all other permits before applying for a State 404 Program permit.)*

Agency	Action Type	ID Number	Date Applied	Date Approved/Denied
FDEP SCO	**TLSA Certified Corridor**	**TA22-19**	**4/13/22**	**09/22/22**

4. Identify the specific reason/need for the proposed activity (What will the activity be used for and why? Include activities that are linked to or reasonably related to the proposed activity.)

   The project will increase the capacity and reliability of the existing transmission network in the central Florida area in a manner consistent with North American Electric Reliability Corporation (NERC) and other applicable transmission system standards. The Project will consist of a single-circuit, 230kV transmission line extending from FPL's existing Whidden substation in DeSoto County, Florida, to the existing FPL Sweatt substation in Okeechobee County, Florida (Attachment 1). Several sections may involve rebuilding of existing utility (transmission and/or distribution) lines within existing utility corridors to accommodate the new circuit where practicable. Additional agreements, easements, or special use and/or right-of-way permits may be required in these areas. Other areas will require new easements for the placement of transmission facilities.

   The scope of this submittal includes construction of Segment 1 of the new transmission line extending from FPL's Sweatt substation in Okeechobee County to the existing Glades Electrical Cooperative's (Glades') Basinger substation in Okeechobee County, Florida. This is the first segment of the larger project that will traverse through three Florida counties: Okeechobee, Highlands and DeSoto. See Attachment 1 for an overview map depicting the four project segments.

5. Provide an alternatives analysis as described in the 404 Handbook, Appendix C. **Not Applicable. Project meets the requirements for a General Permit.**

6. Describe any listed species or designated critical habitat that might be affected by, or is in the vicinity of, the proposed activity. Include the name(s) of those listed species or critical habitat areas. Describe any actions proposed to be taken to avoid or minimize adverse effects to listed species. Provide any other available data and information necessary for purposes of reviewing impacts to state and federal listed species.

   There is no critical habitat traversed by Segment 1: Sweatt – Basinger. Please refer to Attachment 11 for a discussion of avoidance and minimization of impacts and to Attachment 12 for a narrative regarding vegetation, wildlife and habitats found within the project area.

7. Clearly show location and extent of all wetlands and other surface waters, delineated in accordance with Chapter 62-340, F.A.C. Label all special aquatic sites (e.g., wetlands, sanctuaries and refuges, mudflats, vegetated shallows, and riffle and pool complexes). Each type of boundary (for example, ordinary high water line, mean high water line, wetlands, or other special aquatic sites) must be clearly annotated and/or symbolized to ensure they are differentiable on the map. Unless indicated below, all wetlands and other surface waters on the site, as delineated in accordance with Chapter 62-340, F.A.C., that will be impacted by the proposed activities will be evaluated for permitting purposes under Section 404 of the Clean Water Act.

Please refer Attachment 8 – Aerial Map with Delineated Wetlands and to Attachment 17 – Wetland Impacts Map.

☐ Check this box if you do not accept that all or a portion of the wetlands and other surface waters on the site are jurisdictional under Section 404 of the Clean Water Act, and provide documentation demonstrating which wetlands and other surface waters on the site are not jurisdictional, using reasonable scientific judgement.

8. Provide the complete names and full correct mailing address of the owners (public and private) of properties contiguous to the overall project site where the work is proposed. You may also provide email addresses, if available. Use additional sheets as necessary. (*This information may be obtained from your County Property Appraiser Office, which is typically accessible on the Internet; this information is needed so that, if required, the contiguous owners may be notified of the proposed activity (for example, through a public notice.*) **Not Applicable. Project meets the requirements for a General Permit.**

    1. Name:
       Mailing Address:
       City, State, Zip Code:
       Email:

    2. Name:
       Mailing Address:
       City, State, Zip Code:
       Email:

    3. Name:
       Mailing Address:
       City, State, Zip Code:
       Email:

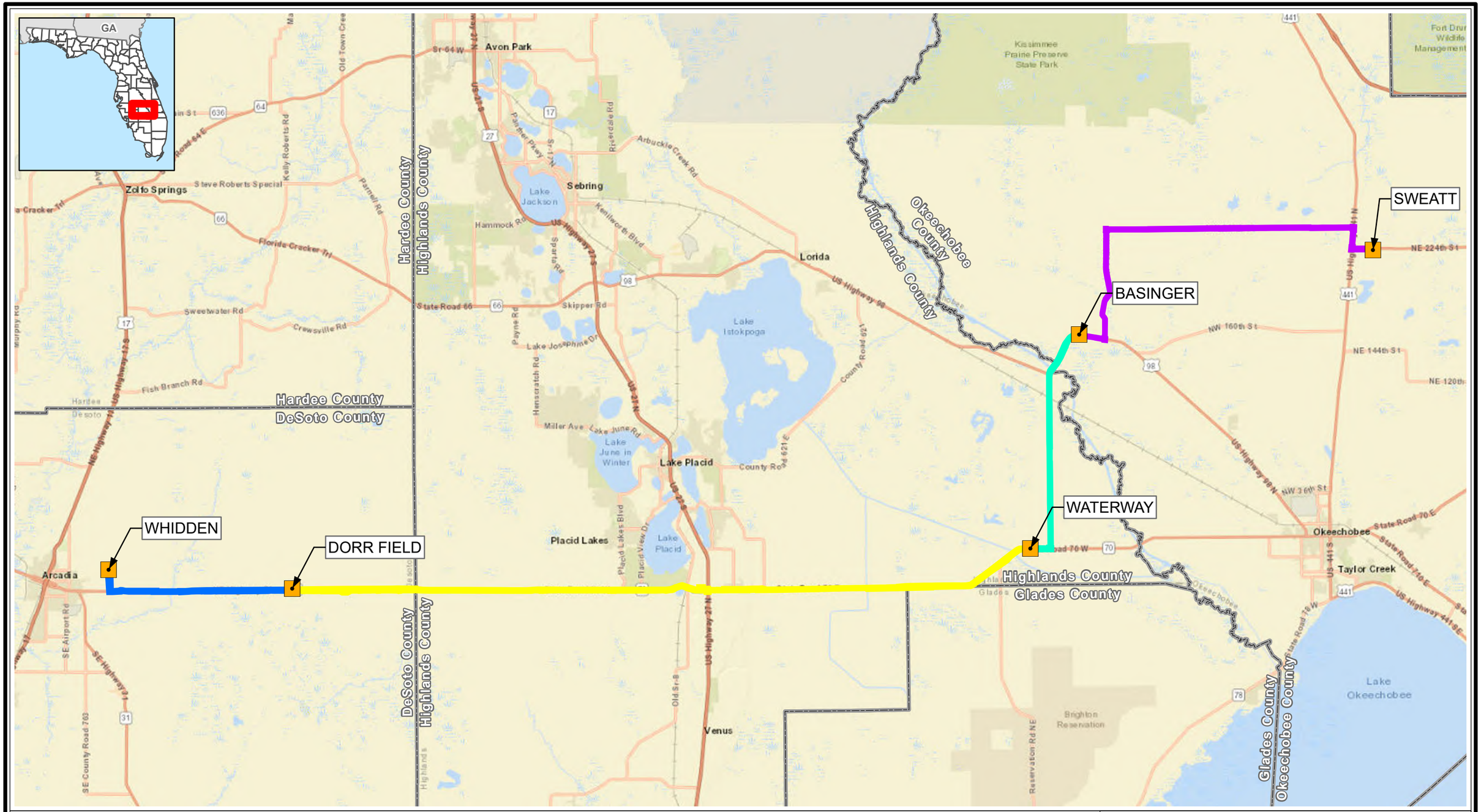
    4. Name:
       Mailing Address:
       City, State, Zip Code:
       Email:

    5. Name:
       Mailing Address:
       City, State, Zip Code:
       Email:

    6. Name:
       Mailing Address:
       City, State, Zip Code:
       Email:

ATTACHMENTS

Attachment 1/1A – Location Map (overall, depicting project phases)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SWEATT
BASINGER
WATERWAY
DORR FIELD
WHIDDEN
Avon Park
Sebring
Lake Jackson
Lorida
Lake Istokpoga
Lake Placid
Lake June in Winter
Placid Lakes
Zolfo Springs
Arcadia
Okeechobee
Taylor Creek
Lake Okeechobee
Venus
Brighton Reservation
Kissimmee Prairie Preserve State Park
Hardee County
Highlands County
DeSoto County
Okeechobee County
Glades County
Sr-64 W
Steve Roberts Special
Florida Cracker Trl
Sweetwater Rd
Crewsville Rd
Fish Branch Rd
Hammock Rd
Kenilworth Blvd
Arbuckle Creek Rd
Riverdale Rd
Skipper Rd
Lake Josephine Dr
Miller Ave
Lake June Rd
Placid Lakes Blvd
Placid View Dr
Old Sr 8
Reservation Rd NE
NE 224th St
NE 144th St
NE 120th
NW 160th St
NW 36th St
US Highway 98 N
US Highway 441 SE
State Road 70 E
State Road 70 W
State Road 710 E
State Road 78
SE Airport Rd
SE Highway 31
SE County Road 760
US Highway 17 S
US Highway 27 S
US Highway 27 N
US Highway 98
US Highway 441
US Highway 27 Alt S
US Highway 27 Alt N
US Highway 27 Alt
US Highway 441 S
US Highway 441 N
US Highway 70 E
US Highway 70 W
US Highway 31 N
US Highway 31 S
US Highway 17 S
US Highway 17 N
US Highway 17
US Highway 98
US Highway 27 N
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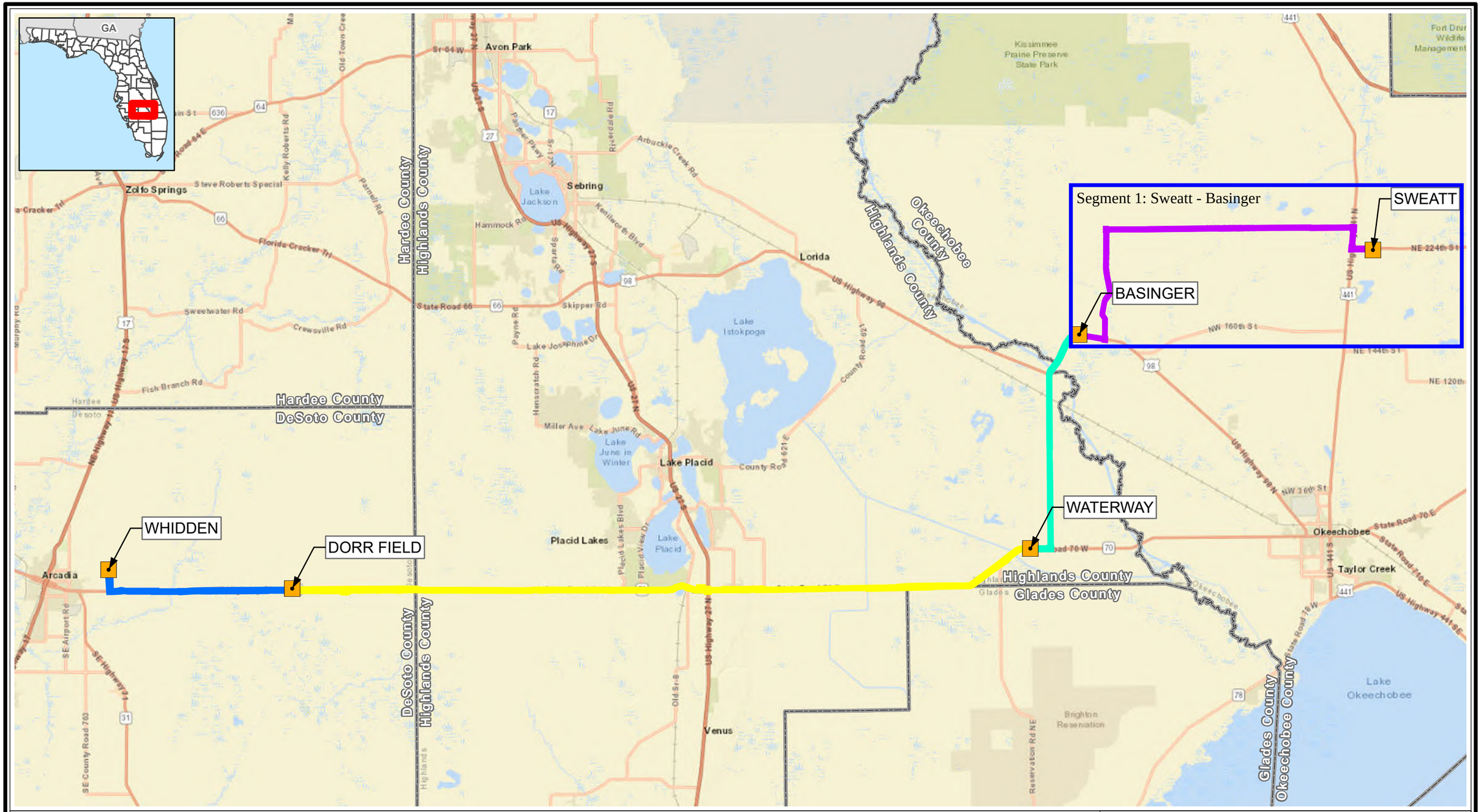
US Highway 31
US Highway 98
US Highway 27



Legend

- Existing Substation
- Segment 1: Sweatt-Basinger
- Segment 2: Basinger-Waterway
- Segment 3: Waterway-Dorr Field
- Segment 4: Dorr Field-Whidden

N

0 2 4

Miles

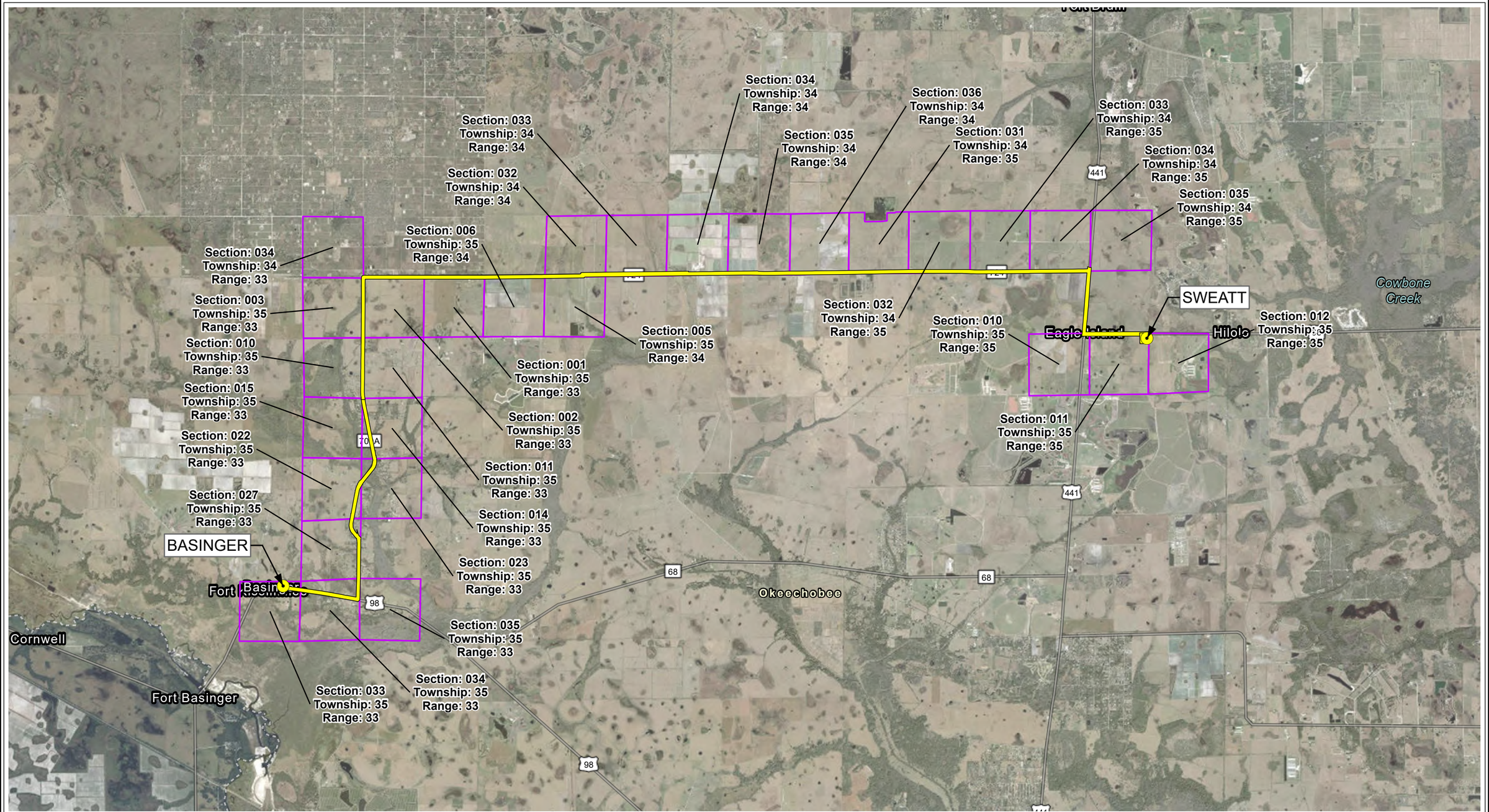
Sources: ESRI World Street map; ECT, 2023.

Attachment 1A
Segment 1: Sweatt - Basinger
Location Map

Sweatt-Whidden Transmission Line
Desoto/Glades/Highlands/Okeechobee Counties, Florida

ECT

Attachment 2 – Section Township Range Map (Segment 1)



Legend

- Substation (HIFLD)
- Section/Township/Range Boundary
- Sweatt - Basinger Project Footprint

N

0 4,000 8,000

Feet

Sources: ECT, 2023.

Attachment 2
Segment 1: Sweatt - Basinger
Section, Township, Range Map

Okeechobee County, Florida

ECT

Attachment 3 – Section Township Range List

Attachment 3: Sweatt - Basinger Section/Township/RangeTable					
SECTION	**TOWNSHIP**	**RANGE**	**TD**	**RD**	**COUNTY**
034	34	33	S	E	OKEECHOBEE
032	34	34	S	E	OKEECHOBEE
033	34	34	S	E	OKEECHOBEE
034	34	34	S	E	OKEECHOBEE
035	34	34	S	E	OKEECHOBEE
036	34	34	S	E	OKEECHOBEE
031	34	35	S	E	OKEECHOBEE
032	34	35	S	E	OKEECHOBEE
033	34	35	S	E	OKEECHOBEE
034	34	35	S	E	OKEECHOBEE
035	34	35	S	E	OKEECHOBEE
001	35	33	S	E	OKEECHOBEE
002	35	33	S	E	OKEECHOBEE
003	35	33	S	E	OKEECHOBEE
010	35	33	S	E	OKEECHOBEE
011	35	33	S	E	OKEECHOBEE
014	35	33	S	E	OKEECHOBEE
015	35	33	S	E	OKEECHOBEE
022	35	33	S	E	OKEECHOBEE
023	35	33	S	E	OKEECHOBEE
027	35	33	S	E	OKEECHOBEE
033	35	33	S	E	OKEECHOBEE
034	35	33	S	E	OKEECHOBEE
035	35	33	S	E	OKEECHOBEE
005	35	34	S	E	OKEECHOBEE
006	35	34	S	E	OKEECHOBEE
010	35	35	S	E	OKEECHOBEE
011	35	35	S	E	OKEECHOBEE
012	35	35	S	E	OKEECHOBEE

Attachment 4 – Parcel Table

Attachment 4: Sweatt - Basinger Parcel Table	
Okeechobee County	
Parcel ID	**Parcel ID**
10135330A00000010000	12735330A00000020000
10135330A0000002A000	12735330A00000030000
10235330A00000010000	12735330A0000003B000
10235330A00000020000	12735330A0000003C000
10335350A00000010000	12735330A00000060000
10535340A00000010000	12735330A00000070000
10635340A00000010000	12735330A00000080000
10635340A0000001A000	12934340010000000010
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11035350A00000020000	12934340010000000740
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11435330A0000001D000	134353300100000000P0
11435330A00000040000	13435330010000200010
11435330A00000050000	13435330010000300130
11435330A00000100010	13435330010000300220
11435330A00000100130	13435330A00000010000
11435330A00000110000	13435330A00000020000
12235330A00000020000	13435330A0000002A000
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12235330A0000007B000	
12235330A0000007D000	
12235330A0000002A000	
12335330A00000030000	
12335330A0000003A000	
12335330A00000070000	
12335330A00000080000	
12635330A0000006B000	

Attachment 5 – State Lands Determination of Waterbodies Crossed

FLORIDA DEPARTMENT OF
Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, FL 32399

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

May 24, 2022

Mr. Jude Dawson
Environmental Consulting & Technology, Inc.

RE: Water Crossings

Dear Mr. Dawson:

This letter is in response to your recent inquiry based on the information provided, requesting a submerged lands determination of state-owned lands in multiple sections, Okeechobee County.

Our records indicate that the lands lying below the ordinary high water line of the Kissimmee River, prior to alterations for the C-38 Canal are state owned and are subject to Sovereignty Submerged Lands Easement 29173(4674) to Florida Department of Transportation and subject to SSL Easement 41337 to South Florida Water Management District relative to Current Uplands Lease 4099.

Our records contain insufficient information to determine the ordinary high water line of Fish Slough prior to alterations, at the subject site. Additionally, our records contain insufficient information to determine the ordinary high water line of Gore Branch and Ash Slough. Therefore, we recommend proprietary requirements that would normally apply to state owned lands not apply to Fish Slough, Gore Branch, Ash Slough and wetlands along the corridor route.

The conclusions stated herein are based on a review of records currently available within the Department of Environmental Protection as supplemented, in some cases, by information furnished by the requesting party and do not constitute a legal opinion of title. A permit from the Department of Environmental Protection and other federal, state and local agencies may be required prior to conducting activities.

Should you have any questions regarding this determination, please contact Sarah Branham, Government Operations Consultant II, at mail station 108 at the above address or call at (850) 245-2788.

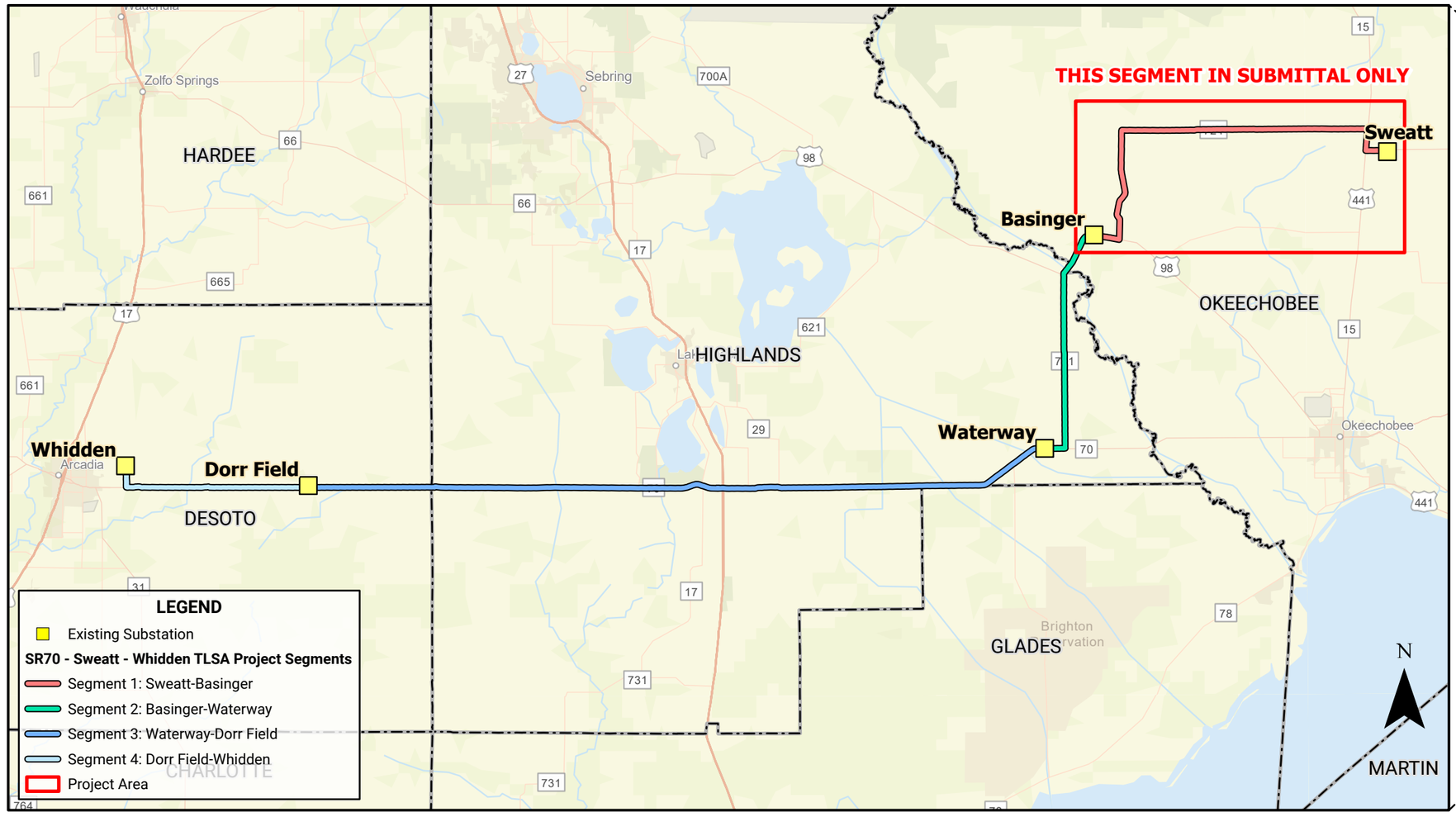
Sincerely,

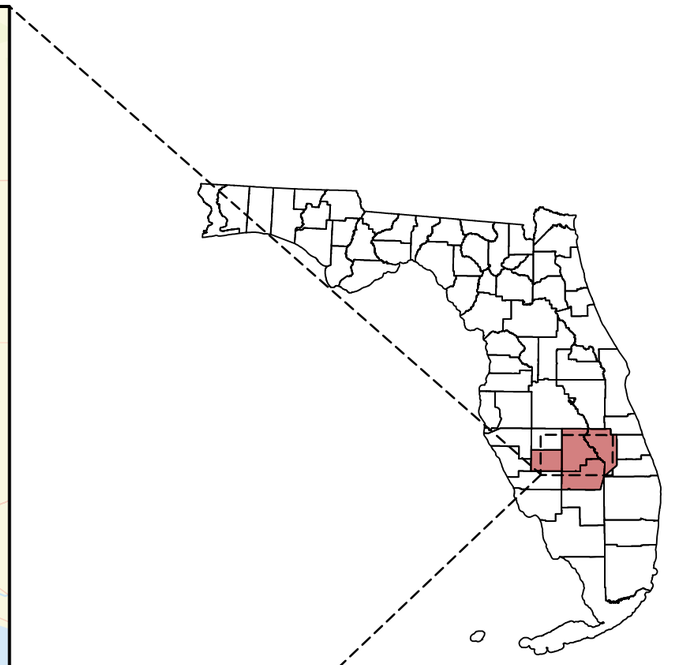
Karen McMillan, for

Scott Woolam, Bureau Chief
Division of State Lands
Bureau of Survey and Mapping
SW/sb
F:\TITLE\Sarah\2022\TITLE DETERMINATIONS\OKEECHOBEE\WS 124320\LETTER TO Jude Dawson

Attachment 6 – Typical Drawings

Sweatt to Whidden 230kV Transmission Line - TA22-19
ATTACHMENTS
Segment 1: Sweatt - Basinger





PROJECT LOCATION

DESOTO COUNTY
GLADES COUNTY
HIGHLANDS COUNTY
OKEECHOBEE COUNTY

MICHAEL K. LEAHY LICENSE No. 45287 STATE OF FLORIDA PROFESSIONAL ENGINEER

MICHAEL K. LEAHY P.E. #45287

REV	DATE	DESCRIPTION	BY	CKD	APP
0	3/13/2023	ISSUED FOR PERMIT SUBMITTAL	ANG	BJW	BJW

FLORIDA POWER & LIGHT COMPANY — **Sweatt-Whidden TLSA Project, TA22-19**

SCALE: NTS
DRAWN BY: ANG
ENGINEER: MKL
COUNTY: DESOTO, GLADES, HIGHLANDS, OKEECHOBEE
DATE: 3/13/2023
CHECKED BY: BJW
SECTION: AS SHOWN
COVER SHEET

PROPOSED SWEATT - WHIDDEN 230KV LINE
SEGMENT 1: SWEATT - BASINGER
ATTACHMENTS

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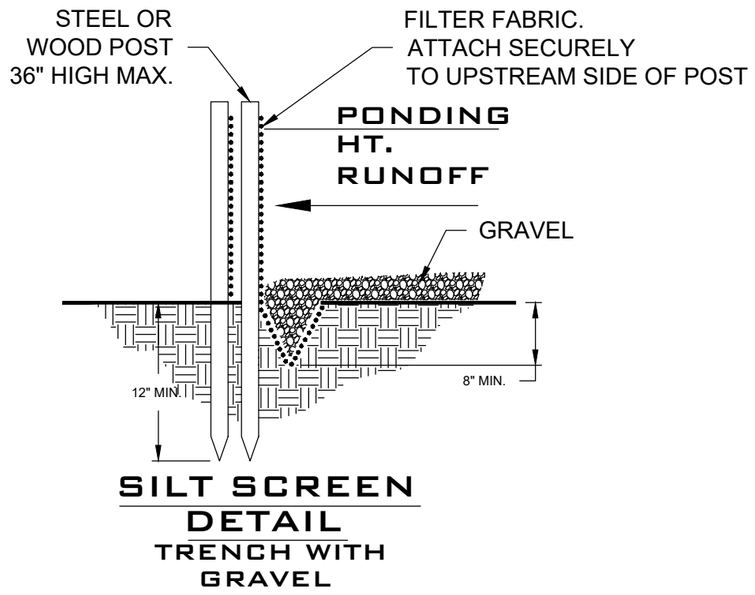
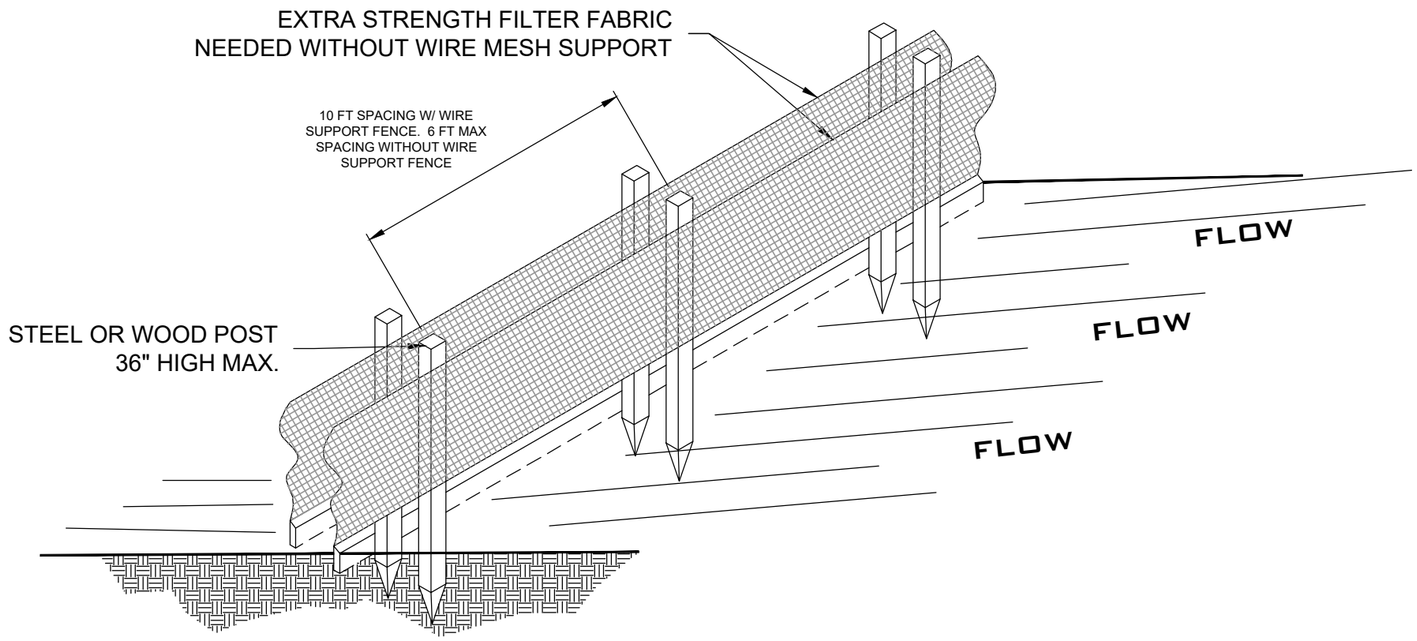
C.1

EROSION CONTROL DETAILS



SILT SCREEN
DETAIL
TRENCH WITH
GRAVEL



NOTES:
1. THE STRAW BALES SHALL BE PLACED ON SLOPE CONTOUR.
2. BALES TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS AND/OR FILTER FABRIC TO FILL GAPS BETWEEN THE BALES AND TAMP THE BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND BALES.
3. DURING CONSTRUCTION, SILT SCREENS WILL BE INSTALLED AROUND, WITHIN, OR IN PROXIMITY TO A JURISDICTIONAL AREA.

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FLORIDA POWER & LIGHT COMPANY

Sweatt-Whidden TLSA Project, TA22-19

SCALE: NTS
DRAWN BY: ANG
ENGINEER: MKL
COUNTY: OKEECHOBEE
SHEET 1 OF 5

DATE: 3/13/2023
CHECKED BY: BJW
SECTION: AS SHOWN
FILE NAME:
FPL_SR70SW_DualFrameCivilMap

BEST MANAGEMENT PRACTICES
EROSION CONTROL

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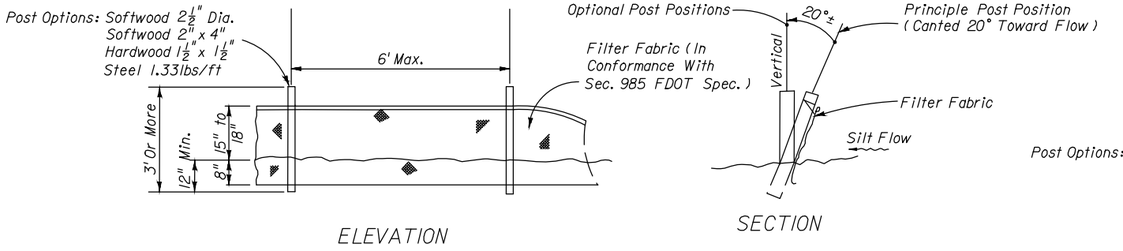
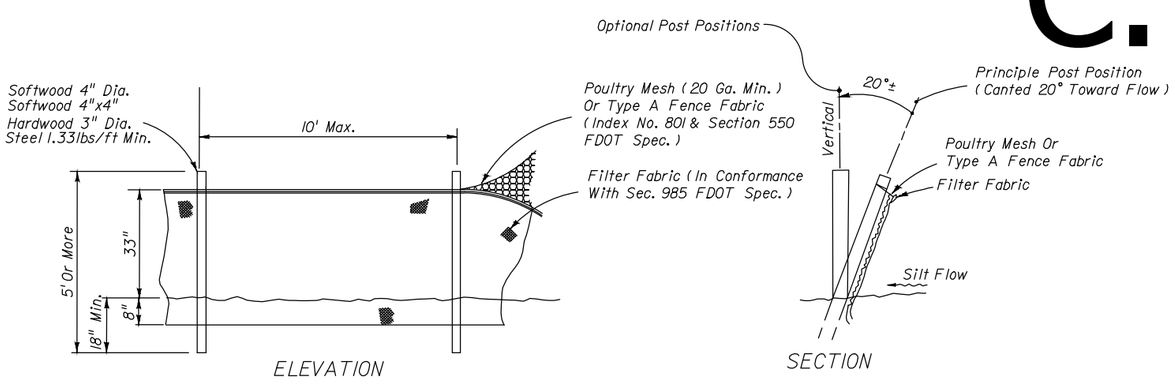
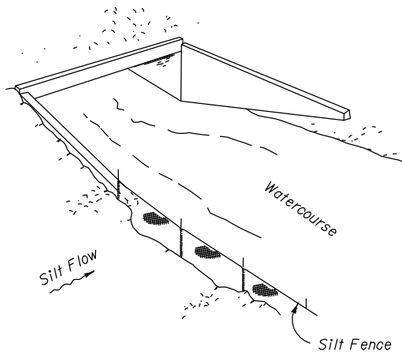
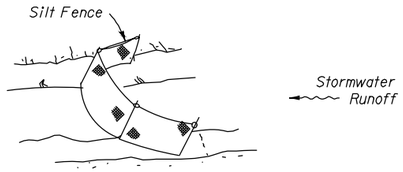


TYPE III SILT FENCE

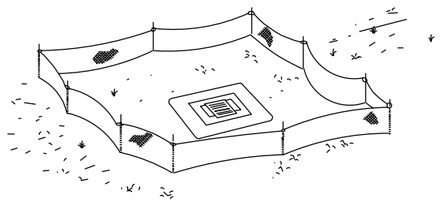


TYPE IV SILT FENCE



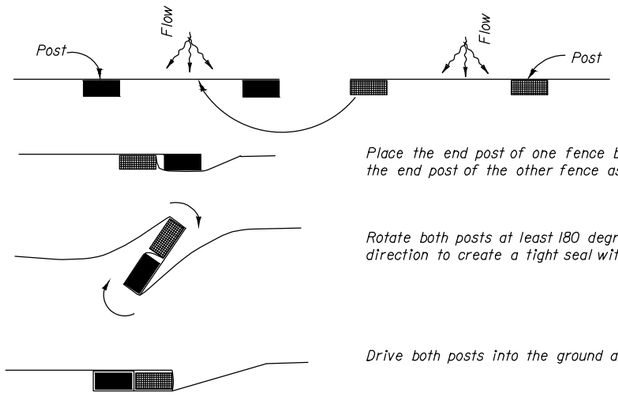


Silt Fence Protection
in Ditches with Intermittent Flow



Silt Fence Protection
Around Ditch Bottom Inlets.

SILT FENCE APPLICATIONS



PLAN VIEW

JOINING TWO SILT FENCES

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 Chart 1, Sheet 1.
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).

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FLORIDA POWER & LIGHT COMPANY — **Sweatt-Whidden TLSA Project, TA22-19**

SCALE: NTS
DRAWN BY: ANG
ENGINEER: MKL
COUNTY: OKEECHOBEE
SHEET 2 OF 5

DATE: 3/13/2023
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FPL_SR70SW_DualFrameCivilMap

BEST MANAGEMENT PRACTICES
EROSION CONTROL

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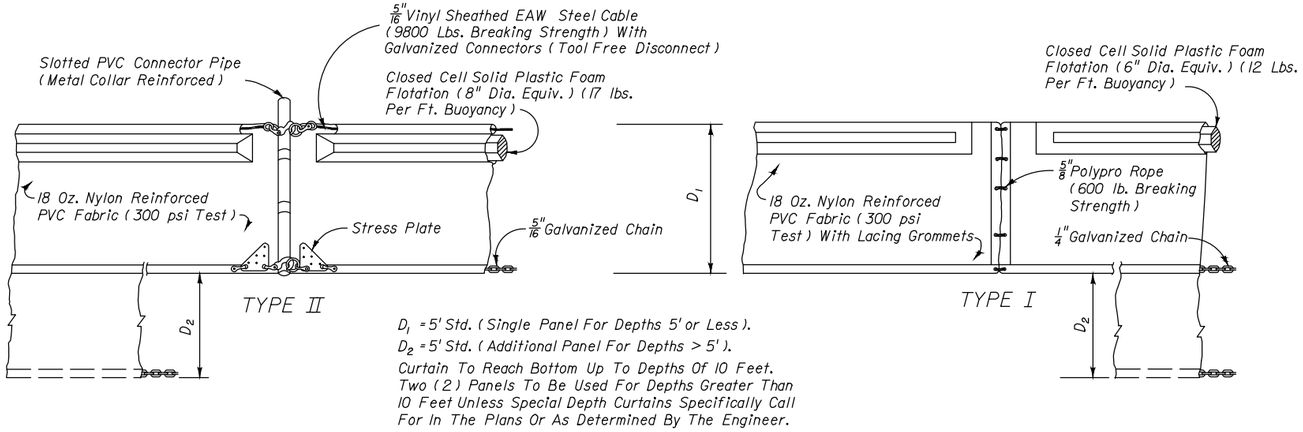
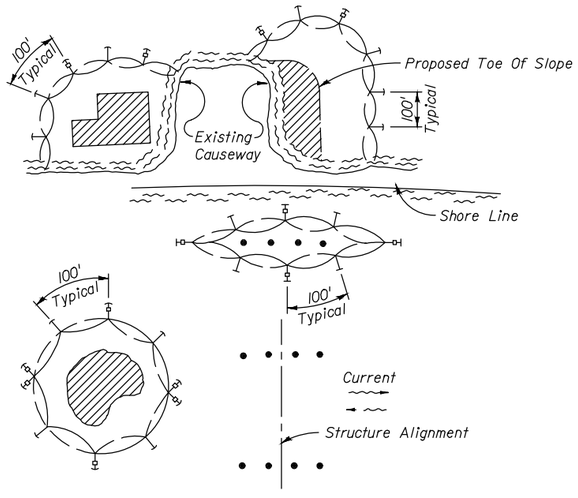


D_1 = 5' Std. (Single Panel For Depths 5' or Less).
D_2 = 5' Std. (Additional Panel For Depths > 5').
Curtain To Reach Bottom Up To Depths Of 10 Feet. Two (2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Call For In The Plans Or As Determined By The Engineer.

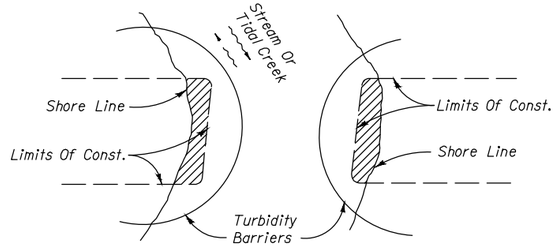
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS



LEGEND

- Pile Locations
- Dredge Or Fill Area
- Mooring Buoy w/Anchor
- Anchor
- Barrier Movement Due To Current Action

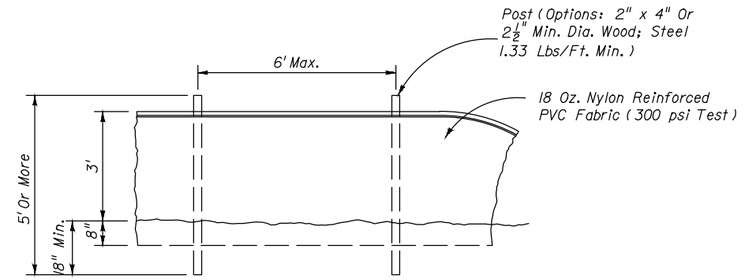


Note:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

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. For additional information see Section 104 of the Standard Specifications.

TURBIDITY BARRIER APPLICATIONS



STAKED TURBIDITY BARRIER

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.

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FLORIDA POWER & LIGHT COMPANY

Sweatt-Whidden TLSA Project, TA22-19

SCALE: NTS
DRAWN BY: ANG
ENGINEER: MKL
COUNTY: OKEECHOBEE
SHEET 3 OF 5

DATE: 3/13/2023
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BEST MANAGEMENT PRACTICES
EROSION CONTROL

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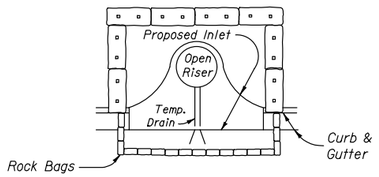
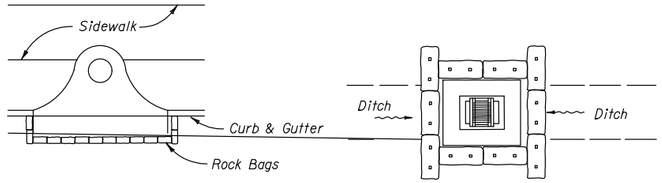


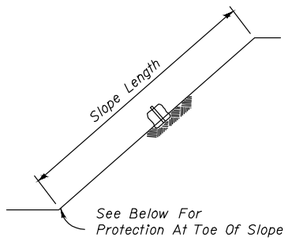
PARTIAL INLET



COMPLETED INLET

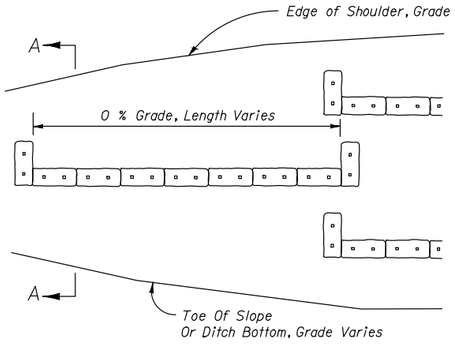
DITCH BOTTOM INLET

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



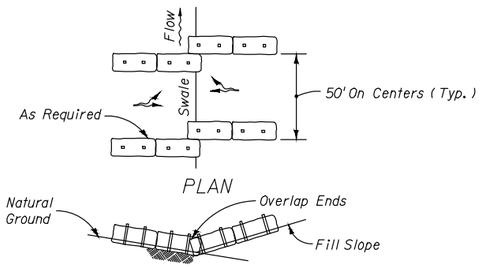
SECTION AA

Note:
Where the slope length exceeds 25 feet, construct one row of bale barriers at 0% longitudinal grade midway up the slope. Contruct two rows of bale barriers where the slope length exceeds 50 feet.



ELEVATION

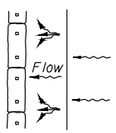
ALONG FILL SLOPE



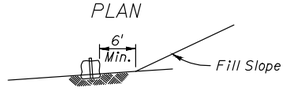
PLAN

ELEVATION

TO BE USED WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



PLAN

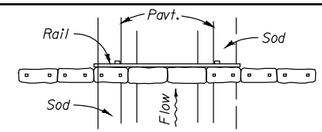


ELEVATION

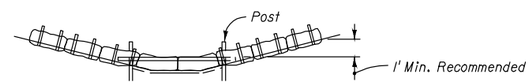
TO BE USED WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

AT TOE OF SLOPE

BARRIERS FOR FILL SLOPES

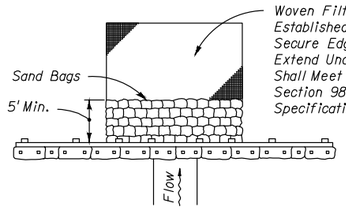


PLAN

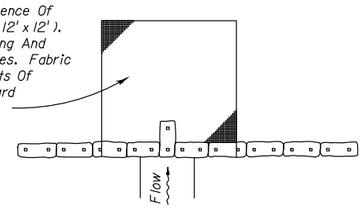


ELEVATION

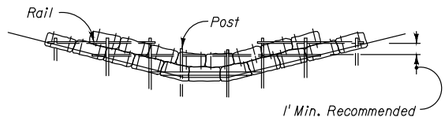
BARRIER FOR PAVED DITCH



PLAN



PLAN



Anchor Top Bales To Lower Bales With 2 Stakes Per Bale.

ELEVATION

TYPE II

ELEVATION

TYPE I

BARRIERS FOR UNPAVED DITCHES

NOTES FOR BALED HAY OR STRAW BARRIERS

1. Type I and II Barriers should be spaced in accordance with Chart 1, Sheet 1.
2. Hay bales shall be trenched 3" to 4" and anchored with 2 - 1" x 2" (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rails and posts shall be 2" x 4" wood. Other materials providing equivlalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together. Unavoidable gaps shall be plugged with hay or straw to prevent silt from passing.
5. Where used in conjunction with silt fence, hay bales shall be placed on the upstream side of the fence.
6. Bales to be paid for under the contract unit price for Baled Hay or Straw, EA. The unit price shall include the cost of filter fabric for Type I and II Barriers. Sand bags shall be paid for under the unit price for Sandbagging, CY. Rock bags to be paid for under the contract unit price for Rock Bags, EA.

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FLORIDA POWER & LIGHT COMPANY

Sweatt-Whidden TLSA Project, TA22-19

SCALE: NTS
DRAWN BY: ANG
ENGINEER: MKL
COUNTY: OKEECHOBEE
SHEET 4 OF 5

DATE: 3/13/2023
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BEST MANAGEMENT PRACTICES
EROSION CONTROL

C.1

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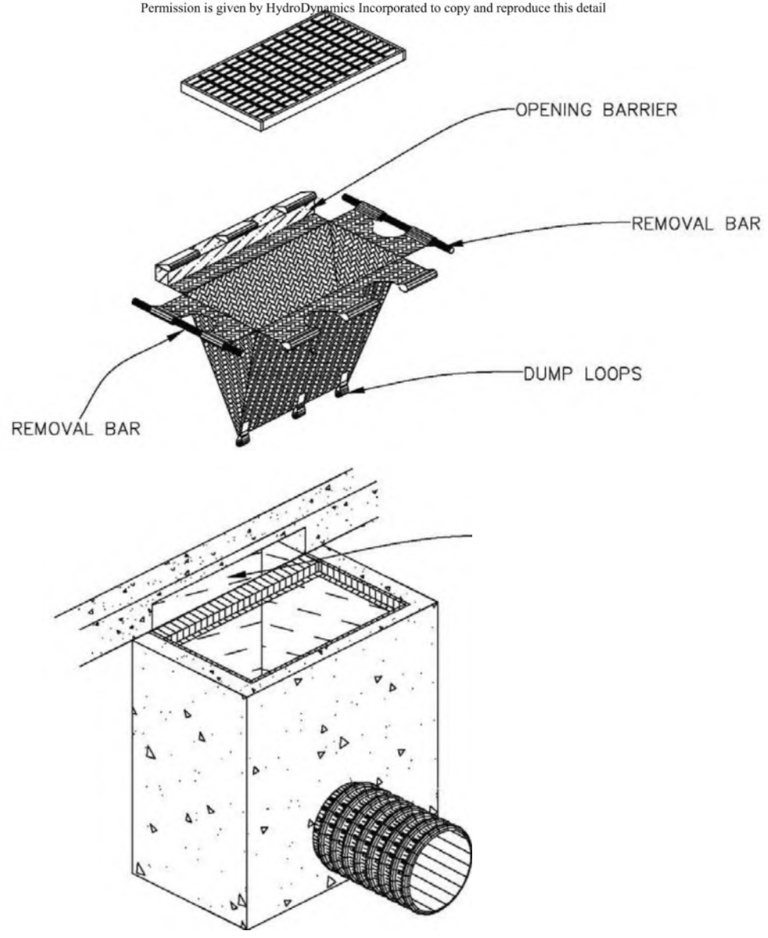
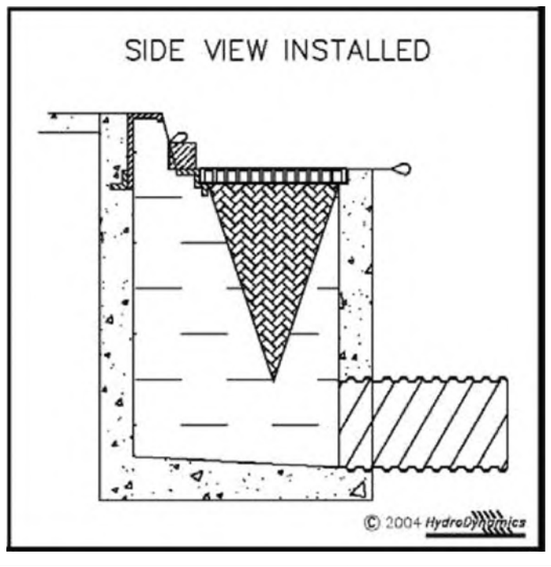
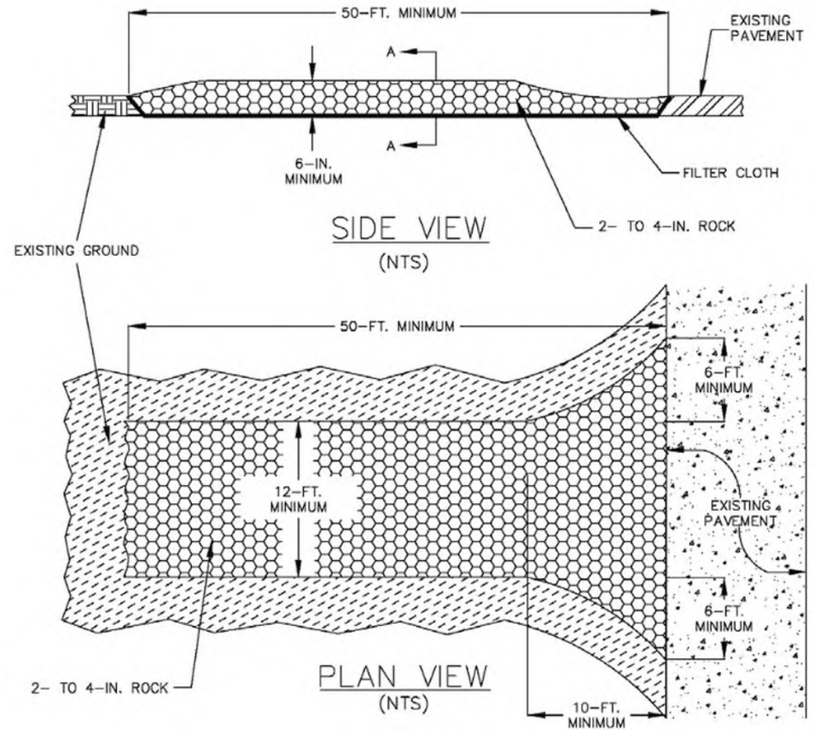


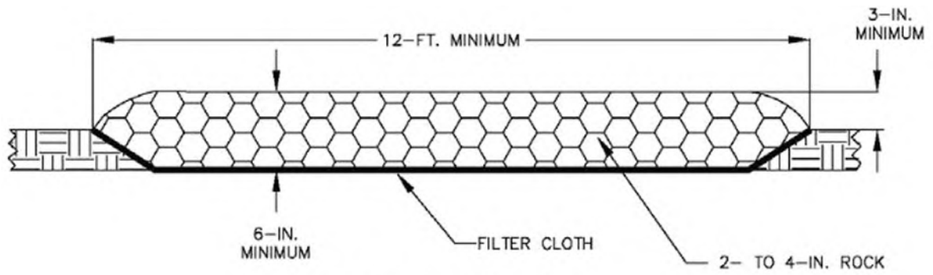


INLET INSERT SEDIMENT CONTAINMENT SYSTEM



SIDE VIEW
(NTS)

PLAN VIEW
(NTS)



SECTION A–A
(NTS)

SOIL TRACKING PREVENTION DEVICE

C.1

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FLORIDA POWER & LIGHT COMPANY — **Sweatt-Whidden TLSA Project, TA22-19**

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ENGINEER: MKL
COUNTY: OKEECHOBEE
SHEET 5 OF 5

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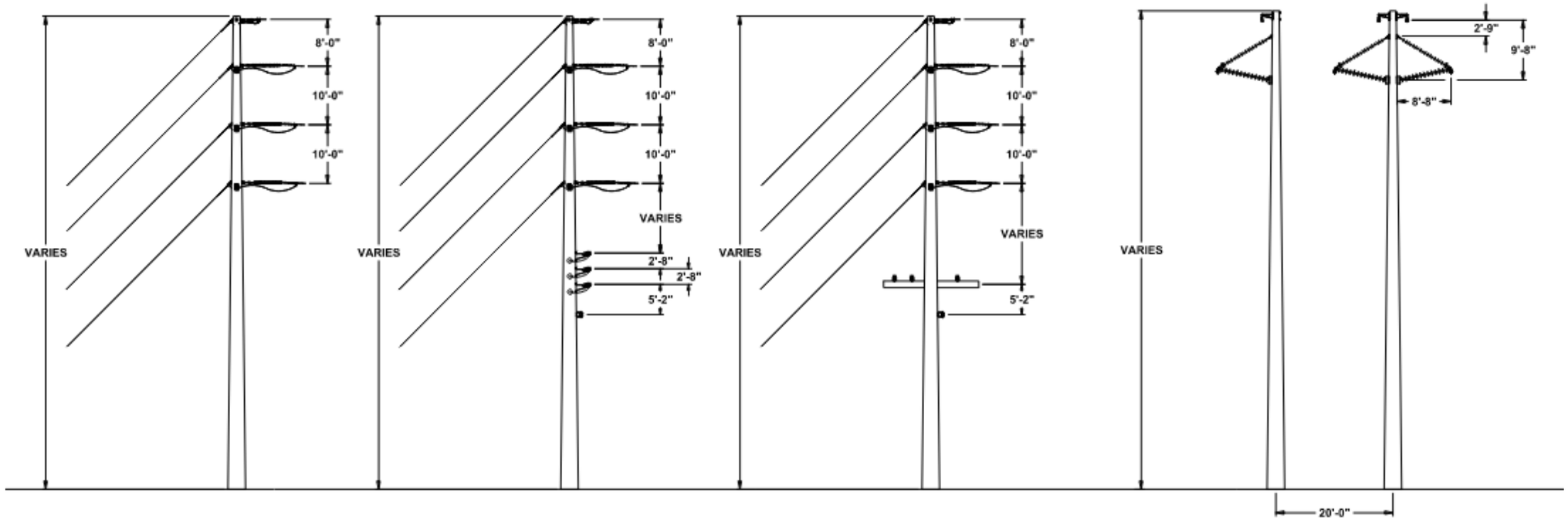
C.2



230kV SINGLE CIRCUIT DEADEND

230kV SINGLE CIRCUIT DEADEND
W/ VERTICAL DISTRIBUTION UNDERBUILD

230kV SINGLE CIRCUIT DEADEND
W/ HORIZONTAL DISTRIBUTION UNDERBUILD

230kV SINGLE CIRCUIT 2 POLE HORIZONTAL TANGENT

REV	DATE	DESCRIPTION	BY	CKD	APP
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FLORIDA POWER & LIGHT COMPANY

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COUNTY: OKEECHOBEE
SHEET 1 OF 2

DATE: 3/13/2023
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FILE NAME:
FPL_SR70SW_DualFrameCivilMap

FPL

TYPICAL STRUCTURES

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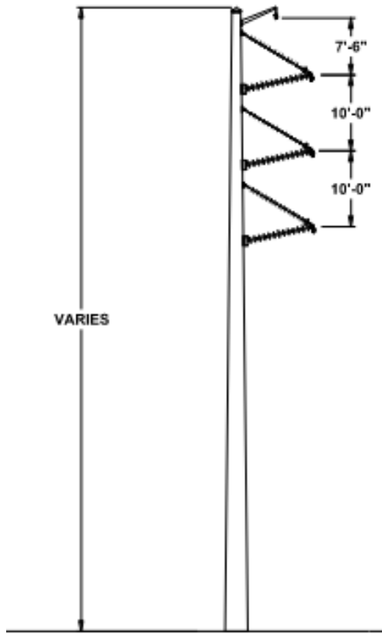
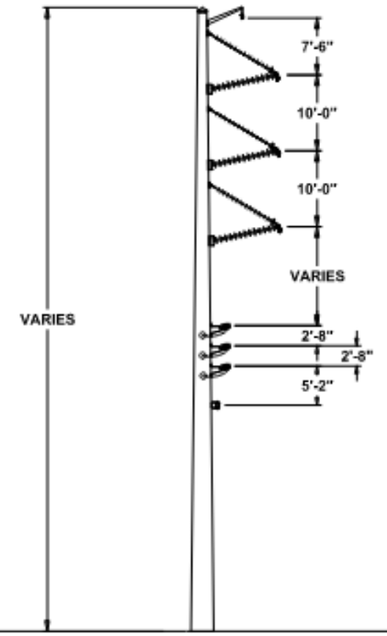
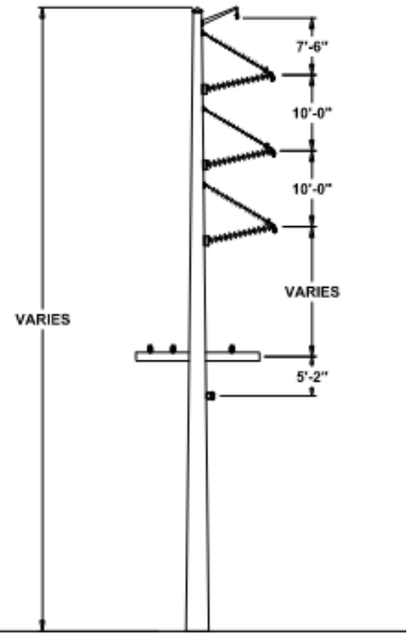
C.2



230kV SINGLE CIRCUIT VERTICAL TANGENT



230kV SINGLE CIRCUIT VERTICAL TANGENT
W/ VERTICAL DISTRIBUTION UNDERBUILD



230kV SINGLE CIRCUIT VERTICAL TANGENT
W/ HORIZONTAL DISTRIBUTION UNDERBUILD

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FLORIDA POWER & LIGHT COMPANY

Sweatt-Whidden TLSA Project, TA22-19

SCALE: NTS
DRAWN BY: ANG
ENGINEER: MKL
COUNTY: OKEECHOBEE
SHEET 2 OF 2

DATE: 3/13/2023
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TYPICAL STRUCTURES

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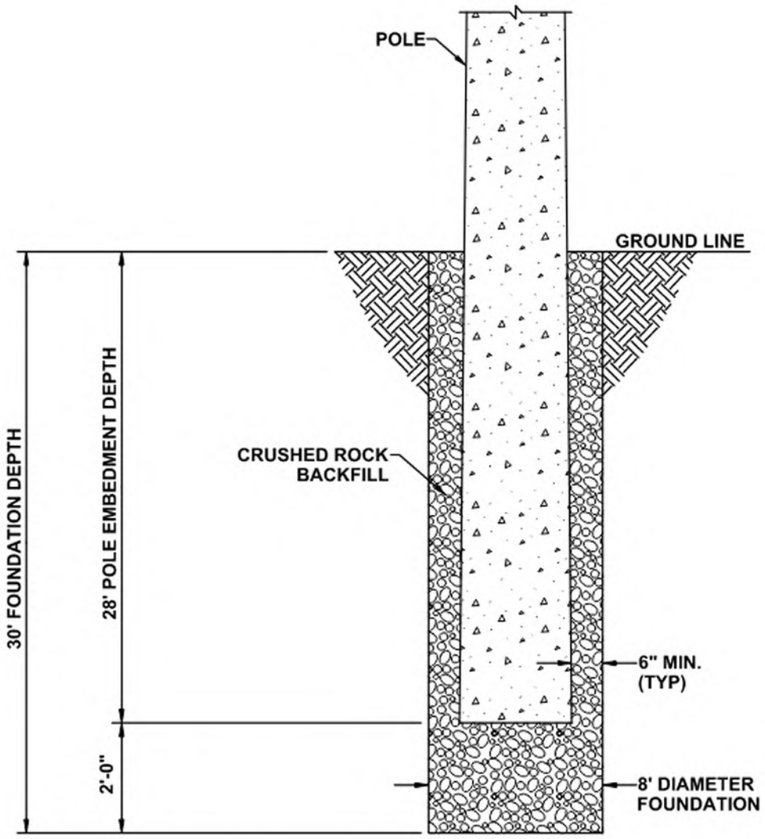
C.3



FOUNDATION DETAIL
DIRECT EMBEDDED POLE WITH ROCK BACKFILL
AREA = 50.3 SQUARE FEET (0.001 ACRES)
VOLUME = 1509 CUBIC FEET (55.9 CUBIC YARDS)

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FLORIDA POWER & LIGHT COMPANY

Sweatt-Whidden TLSA Project, TA22-19

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TYPICAL FOUNDATION DETAIL

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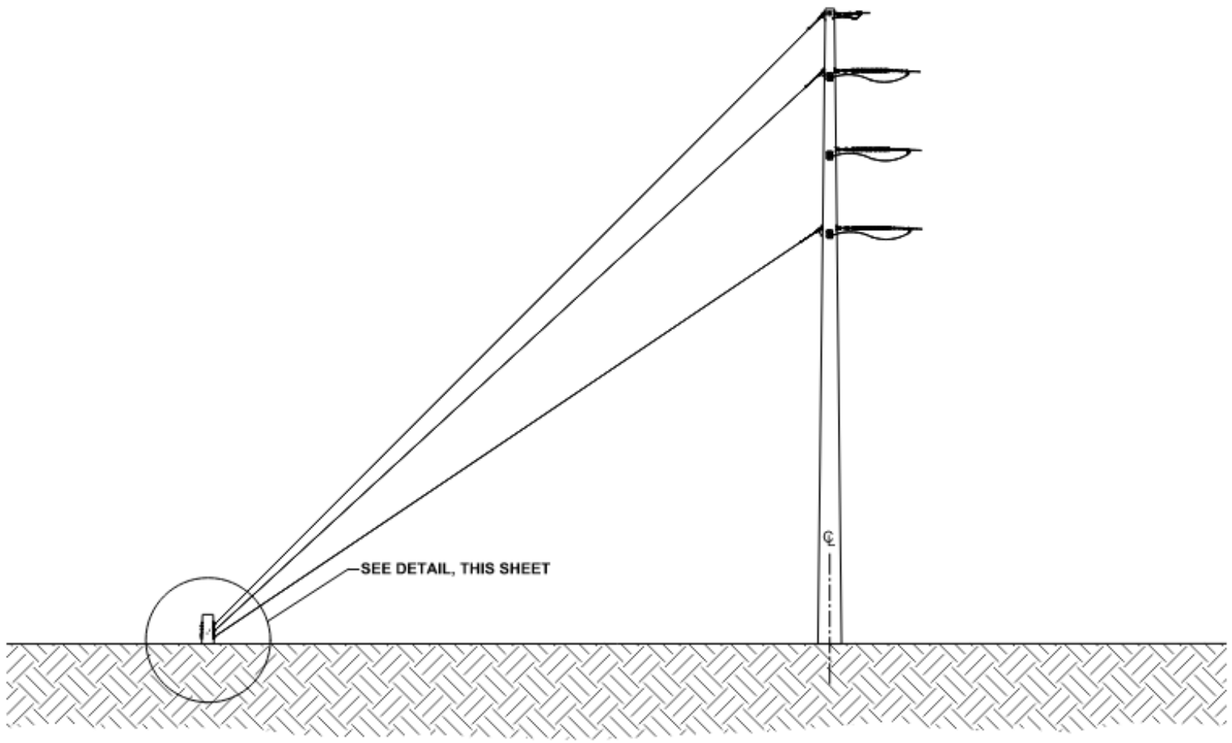
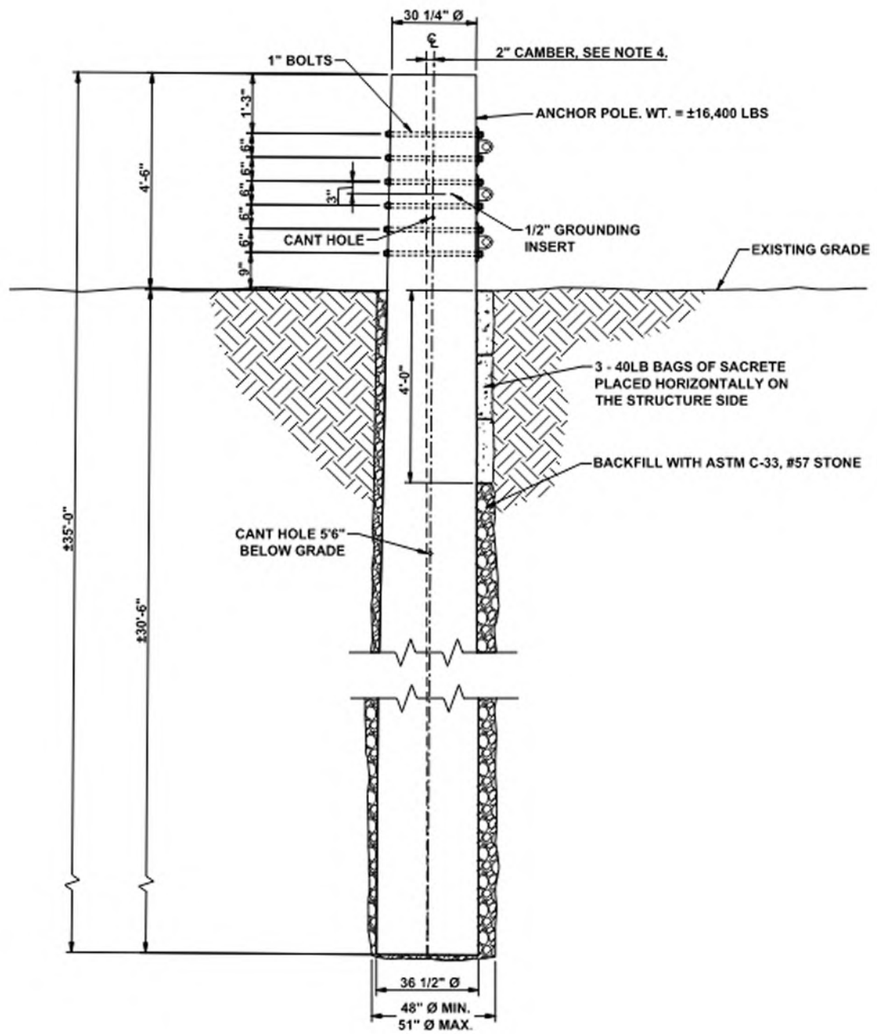
C.4



TYPICAL GUYED POLE PROFILE WITH ANCHOR PILE



TYPICAL SPUN CONCRETE ANCHOR PILE DETAIL

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FLORIDA POWER & LIGHT COMPANY — **Sweatt-Whidden TLSA Project, TA22-19**

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TYPICAL ANCHOR PILE DETAIL

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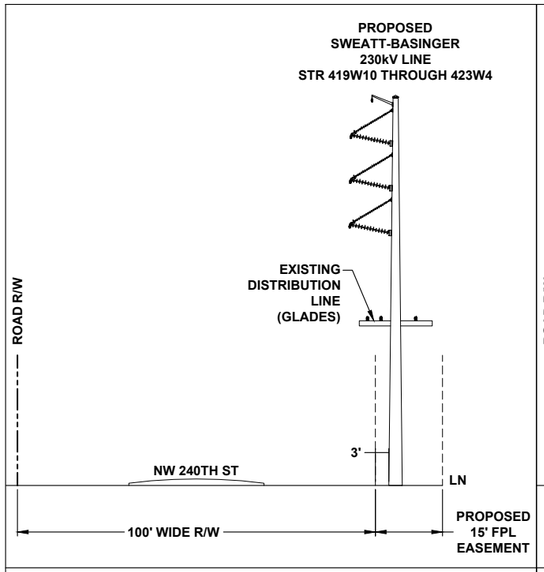

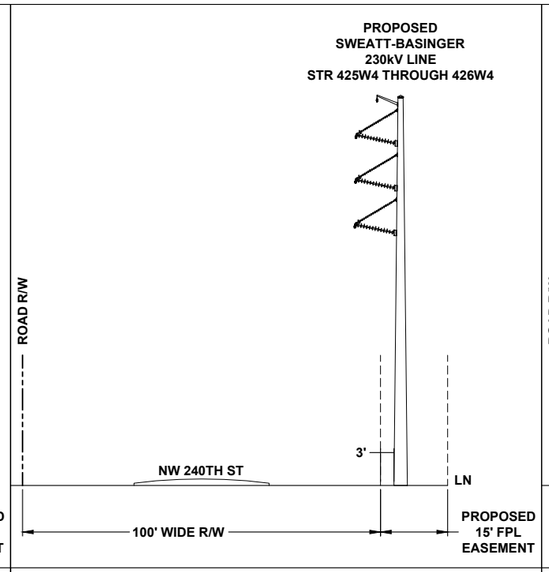

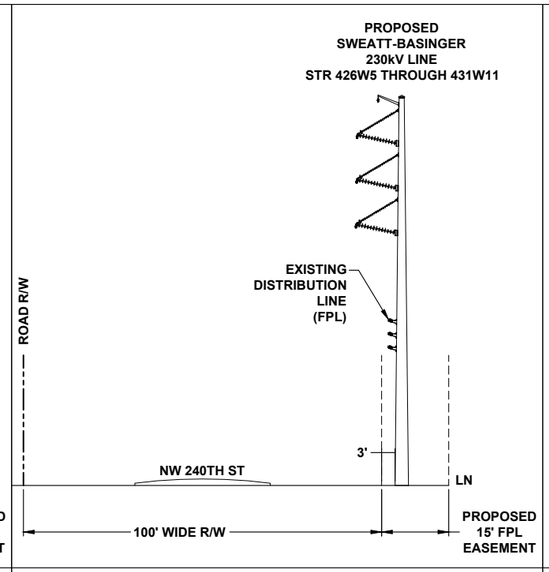

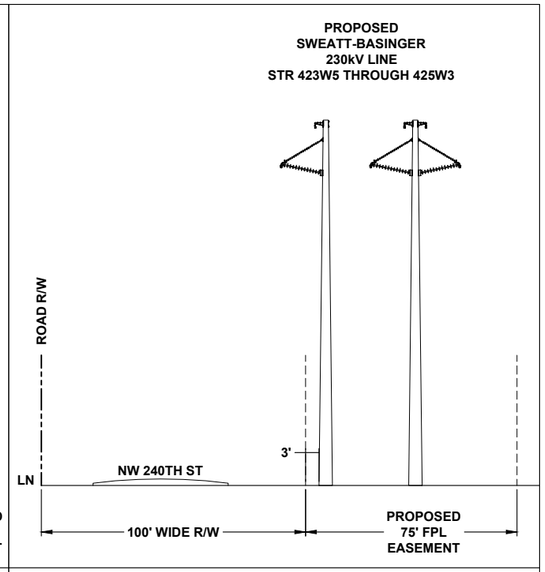

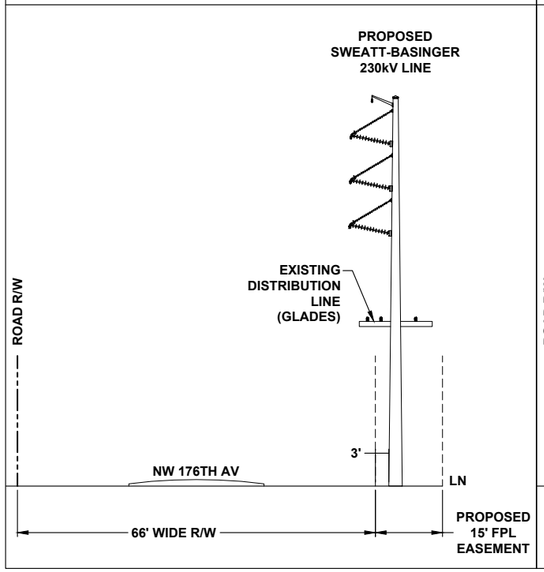

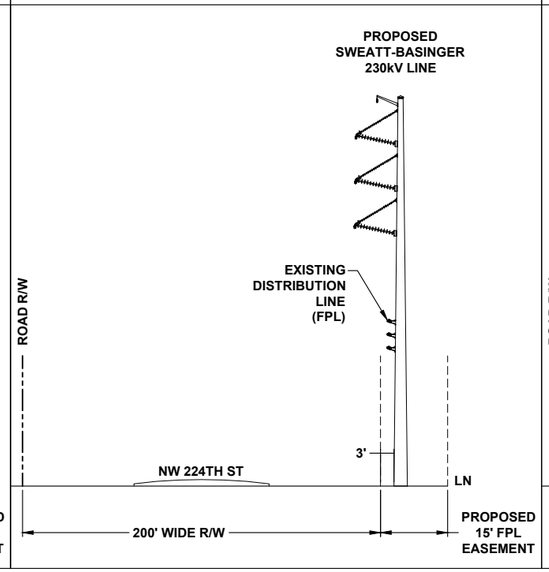

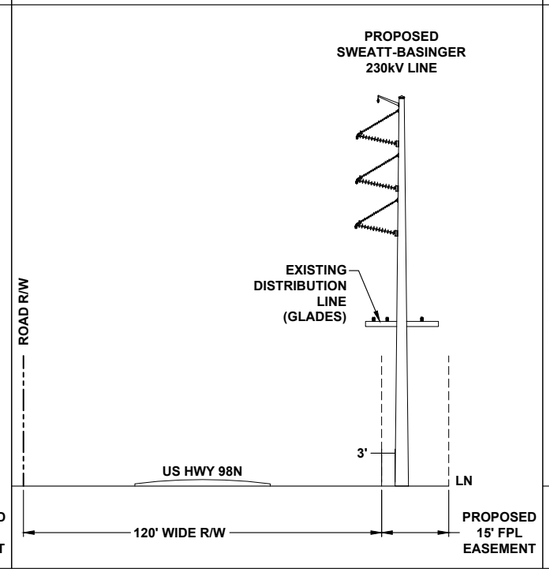

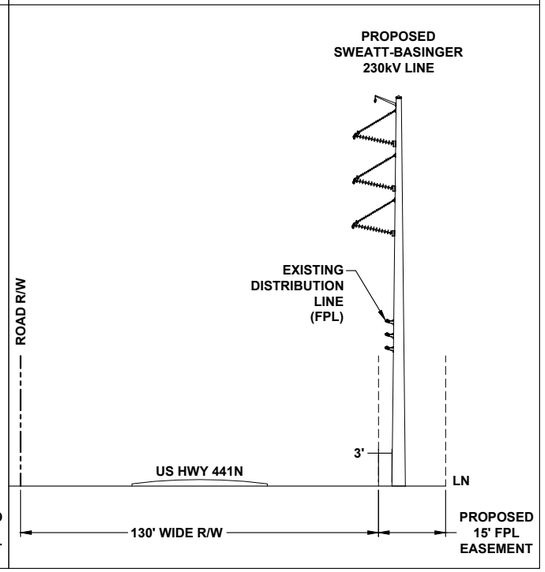

TYPICAL STRUCTURE CROSS SECTIONS

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FLORIDA POWER & LIGHT COMPANY

Sweatt-Whidden TLSA Project, TA22-19

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DRAWN BY: ANG
ENGINEER: MKL
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SHEET 1 OF 1

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TYPICAL RIGHT-OF-WAY SECTIONS

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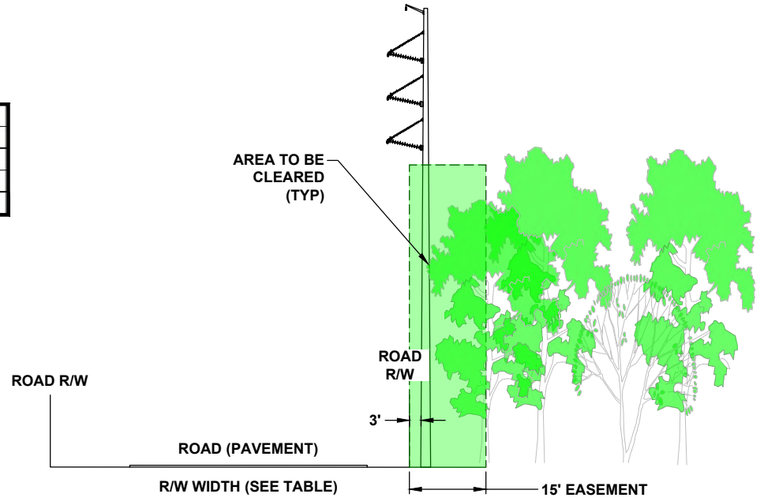
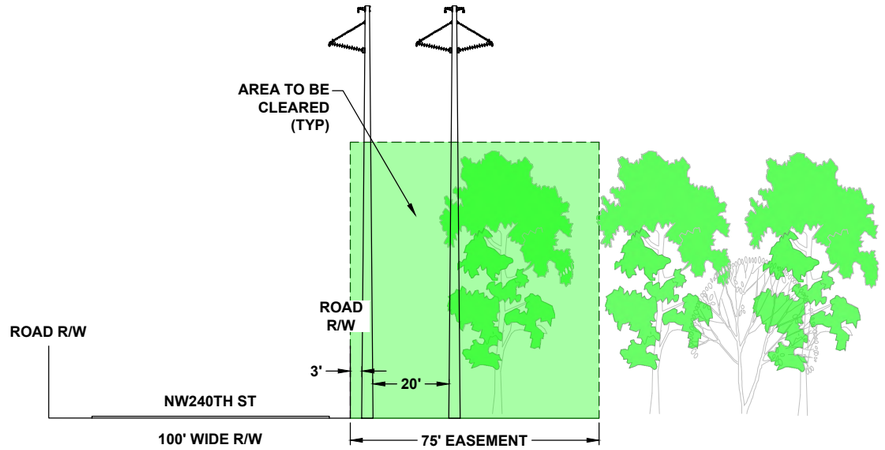
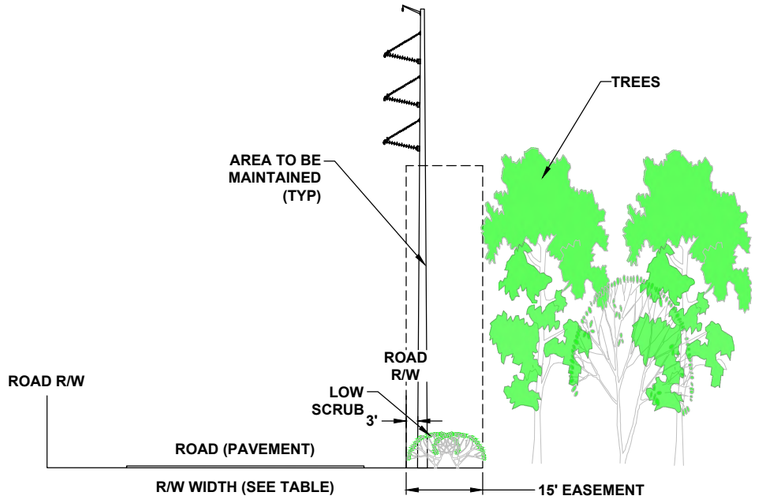
Road Name	R/W Width
U.S. 98	120' (Typ.)
N.W 176th Ave	66' (Typ.)
N.W. 240th St	100' (Typ.)
U.S. 441	130' (Typ.)



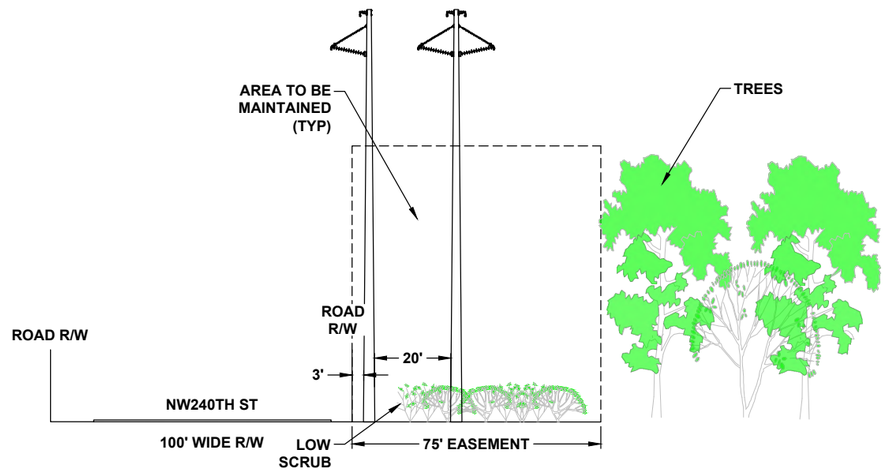
TYPICAL CLEARING 15' EASEMENT



TYPICAL CLEARING 75' EASEMENT



TYPICAL MAINTENANCE 15' EASEMENT



TYPICAL MAINTENANCE 75' EASEMENT
(STR 423W6 THROUGH 425W4)

REV	DATE	DESCRIPTION	BY	CKD	APP
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FLORIDA POWER & LIGHT COMPANY — **Sweatt-Whidden TLSA Project, TA22-19**

SCALE: NTS
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COUNTY: OKEECHOBEE
SHEET 1 OF 2

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TYPICAL RIGHT-OF-WAY MAINTENANCE

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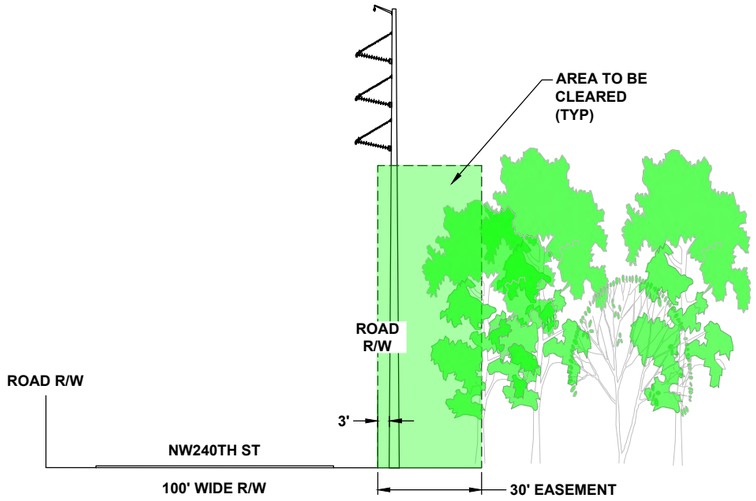
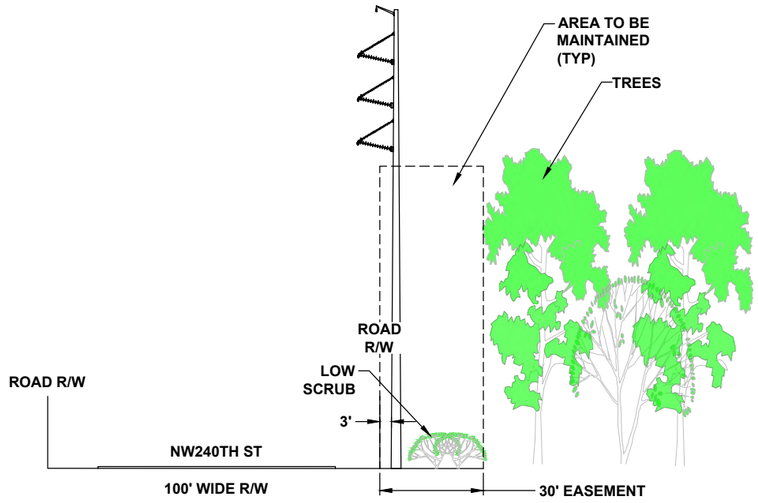


TYPICAL CLEARING 30' EASEMENT



TYPICAL MAINTENANCE 30' EASEMENT
(STR 425W5 THROUGH 426W4)

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FLORIDA POWER & LIGHT COMPANY

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TYPICAL RIGHT-OF-WAY
MAINTENANCE

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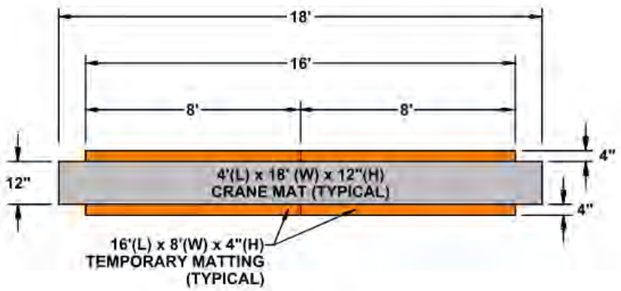
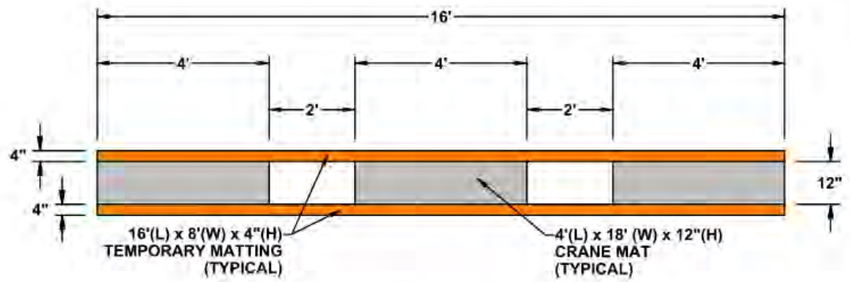
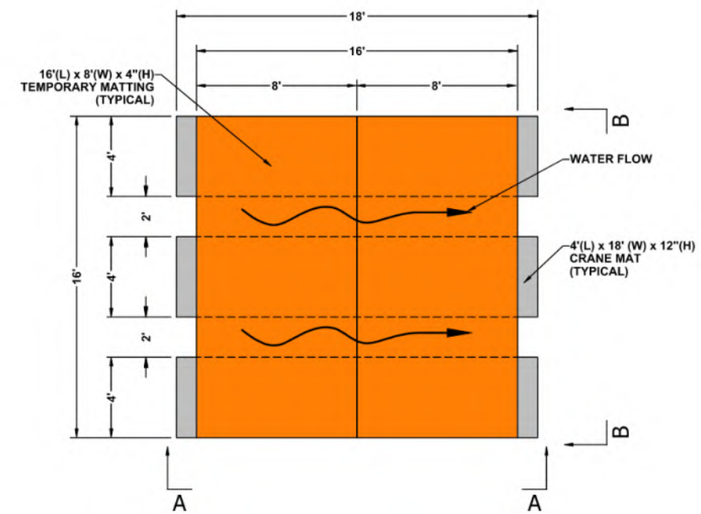
C.7



SECTION A-A



SECTION B-B



TEMPORARY MATTING DETAIL
MATTING WITH CROSSING CRANE MATS

REV	DATE	DESCRIPTION	BY	CKD	APP
0	3/13/2023	ISSUED FOR PERMIT SUBMITTAL	ANG	BJW	BJW

FLORIDA POWER & LIGHT COMPANY — **Sweatt-Whidden TLSA Project, TA22-19**

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TEMPORARY MATTING DETAILS

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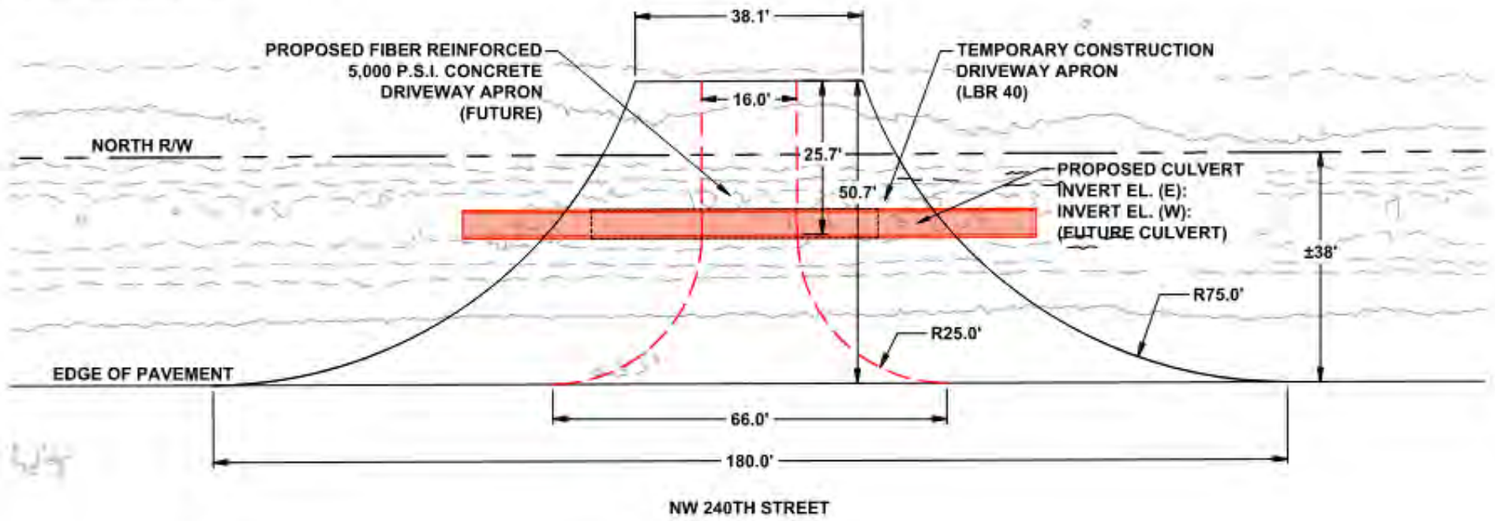
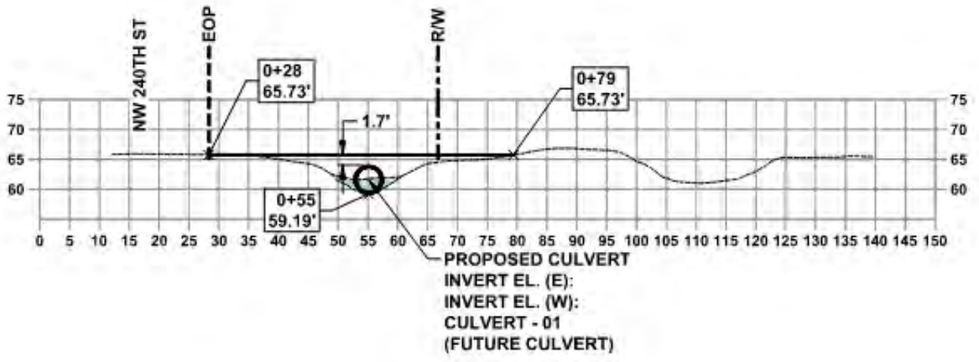
C.8





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TYPICAL DRIVEWAY APRON
DETAIL

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Attachment 6A – Project Description and Construction Methods

Attachment 6A – Project Description

Florida Power & Light Company (FPL) is proposing to construct a new 230-kilovolt (kV) transmission line, Sweatt-Whidden (Project), which is scheduled to be in service by December 2025. The Project will extend approximately 80.5 miles traversing through multiple counties in a combination of existing and new rights-of-way. The Project originates at FPL's existing Sweatt substation located in Okeechobee County and terminates at FPL's existing Whidden substation located in DeSoto County. Substations are not part of the certified project and improvements to the substations are not included in this submittal.

The project will increase the capacity and reliability of the existing transmission network in the central Florida area in a manner consistent with North American Electric Reliability Corporation and other applicable transmission system standards. The Project will consist of a single-circuit, 230-kV transmission line extending from FPL's existing Whidden substation in DeSoto County, Florida, to the existing FPL Sweatt substation in Okeechobee County, Florida (Figure 1-3). Several sections may involve rebuilding of existing utility (transmission and/or distribution) lines within existing utility corridors to accommodate the new circuit where practicable. Additional agreements, easements, or special use and/or right-of-way use may be required in these areas. Other areas will require new easements for the placement of transmission facilities.

The scope of this submittal includes construction of Segment 1 of the new transmission line extending from FPL's Sweatt substation in Okeechobee County to the existing Glades Electrical Cooperative's Basinger substation in Okeechobee County, Florida. This is the first segment of the larger project that will traverse through three Florida counties: Okeechobee, Highlands, and DeSoto. See Attachment 1 for an overview map depicting the four project segments.

Impacts to wetlands will be minimized by selective pole placement and the minimization of access roads. No new permanent roads are anticipated for this project.

PROJECT PURPOSE AND NEED

The need for the Project is based on the following considerations:

- Improvement of reliability for FPL customers served from the existing 69-kV circuit between Okeechobee and Whidden substations;
- Establishment of an additional transmission path to increase east-to-west power transfer capabilities; and
- Mitigation of potential overloads and low voltage conditions under contingency events.

The Project will efficiently and effectively meet this need by improving reliability for FPL customers currently served from the existing 69-kV circuit between Okeechobee and Whidden substations; increasing east-to-west power transfer capabilities of the transmission network by providing a resilient, hardened 230-kV circuit between the east and west areas of FPL's territory north of Lake Okeechobee; relieving potential overloads and low voltage conditions under contingency events; and reducing line loading on existing transmission circuits.

FPL evaluated multiple transmission alternatives for meeting this identified need, which resulted in the selection of the Project. The Project presents the best alternative, taking into account the demand for electricity, enhancing electric system reliability and integrity, and addressing the need for abundant, low-cost electrical energy to assure the economic well-being of the citizens of this state. Furthermore, the Project meets area load requirements by serving potential future industrial, commercial, and residential load, while maximizing system reliability and minimizing cost to customers.

PROJECT LOCATION

The entire project is approximately 80.5 miles in length and traverses portions of three Florida counties: Okeechobee, Highlands, and DeSoto. Segment 1 is specific to the easternmost 21 miles of the project, in Okeechobee County, between the Sweatt and Basinger substations. Attachments 1, 2 and 16 provide the project location map, Section-Township-Range map, and Route of Line map, respectively.

PROJECT FACILITIES

The Project will be constructed using monopole, self-supported structures. Where engineering considerations require, the poles may require guy wires. Structures will either be spun concrete or steel. The aerial overhead transmission line will have three phases and an optical ground wire/overhead ground wire, which can also be used for communications. Construction of Segment 1 will involve the rebuilding/ replacement of existing distribution structures, and in some sections, distribution underbuilt facilities will be attached to the new structures.

For the purpose of both construction and maintenance, both temporary and permanent easements may be required. Transmission poles to construct this Project will vary in height from 75 to 110 feet above ground height, typically. Poles will be approximately 3 to 4 feet in diameter, and foundations will be either direct embedded or augered, cast-in-place concrete varying in width from 4 to 8 feet for steel structures. Pole spacing will typically vary from 300 to 750 feet, depending on physical features and site conditions along the right-of-way. See Attachment 6 for typical drawings.

The Project will be built using standard construction techniques. Existing paved and unpaved access roads will be utilized for construction and maintenance of the Project to the extent practicable. Based on their condition, some improvements to these existing access roads may be required.

Both temporary and permanent easements may be acquired for both construction and maintenance access purposes. It is anticipated for Segment 1, most construction access will be from road rights-of-way where matting will be used temporarily. In addition, temporary ditch crossings are proposed in six locations along NW 240th , including culverts topped with limerock base for aprons for use as construction access. See Attachments 6 and 16 for typical drawings and route of line/civil drawings, respectively.

Permanent patrol roads will not be constructed. However, both temporary and permanent easements along the road rights-of-way are being acquired for both construction and maintenance purposes. Typical land requirements will be either 15-foot wide easements when adjacent to road

right-of-way and 60 feet in width otherwise. The width and length of off-road right-of-way access points will vary as needed, depending on site-specific locations and landowner negotiations. Staging areas and substation expansions will be permitted outside of this process and are not included in this submittal.

DESIGN CODES AND STANDARDS

The primary code used in design of transmission lines is the National Electrical Safety Code (NESC), 2017 Edition. The NESC is an American National Standards Institute standard that covers electrical clearances and loading and strength requirements, including extreme wind. Codes and standards of other agencies and standard organizations that provide rules, guidelines, and conditions for particulars not specified by NESC but used to design and construct proposed transmission lines include the following:

- Occupational Safety and Health Administration rules, which provide requirements for safe minimum approach distances during construction;

- American Society of Civil Engineers Manual of Practice No. 74, Guidelines for Electrical Transmission Line Structural Loading, 2009, and Standard No. 048 11, Design of Steel Transmission Pole Structures, if using steel structures;

- Federal Aviation Administration guidelines (Title 14, Part 77, Code of Federal Regulation), which cover requirements in the vicinity of airports, if applicable;

- Florida Department of Environmental Protection regulations for electric and magnetic fields from electrical transmission lines under the provisions of Sections 403.061(30) and 403.523(14), Florida Statutes (The pertinent rule is 62-814, Florida Administrative Code. No permit is issued; however, utility companies can demonstrate compliance with the regulations with monitoring.); and

- Florida Department of Transportation 2017 Utility Accommodation Manual.

These codes, guidelines, and standards provide design parameters with the goal of protecting public safety.

CONSTRUCTION OF THE FACILITIES

General Construction Description

The Project will not construct new permanent roads but will instead utilize roadless construction techniques to minimize impacts to wetland features. Permanent impacts will be limited to the footprint of the transmission line structures, and selection of those pole placement locations has been planned to avoid or minimize impacts to wetlands and water bodies to the extent practicable. Temporary impacts to wetlands will be restricted to areas where access or construction workspace is needed. Matting will be used to protect wetlands where impacts cannot be avoided. The route of line/civil drawings (Attachment 16) depict where those temporary impacts are expected to occur. Following construction, natural contours will be restored to preconstruction levels. In areas where clearing is required, some forested wetlands will be converted to herbaceous. Those impacts may

be found in Attachment 10, Impacts Table and Functional Loss Calculations, and are depicted in Attachment 17, Wetland Impacts Map.

The Project will use a combination of skilled construction personnel. Prior to clearing, survey crews will enter the transmission right-of-way to establish clearing limits followed by clearing crews, which will generally consist of laborers and equipment operators. After clearing is complete, matting will be placed as needed by matting crews. Foundation installation and excavation will be completed by site civil personnel, which, similar to clearing and matting, will consist of laborers and equipment operators. Concrete workers will also be utilized for those structures supported by auger cast foundations. Structure setting, framing, and conductor installation will be performed by experienced transmission line workers, crane operators, and other heavy equipment operators. Clearing crews will be utilized to maintain stormwater pollution prevention plan measures and right-of-way restoration. Continuous oversight of construction operations will be provided by FPL Construction Management, with daily direct supervision of construction (including adherence to safety and environmental requirements) performed by the general contractor's supervisory personnel.

Construction sequencing along several spreads will keep the duration of construction to a minimum and limit the disturbance of the temporary matting. Attachment 6 provides an exhibit on typical matting detail. Once construction is completed, the area will be returned to its original contours.

Best management practices (BMPs) will be implemented during construction to prevent or minimize release of fluids from construction-related equipment.

Construction Clearing Methods

The work area will be cleared according to area type (i.e., wetland, upland) using the following methods. In general, vegetation removal will occur in the work area to the widths specified on the plans:

- Clearing Within Wetlands—Removal of trees by hand or utilizing low ground pressure equipment to reduce soil compaction and damage to ground cover and mowing of remaining vegetation with a low ground pressure flail or grinder type mower. Removable construction matting in conjunction with BMPs may be used in wetlands to support equipment. Final cut height of tree stumps will be either the top of water or ground surface, whichever is higher. Cut vegetation and woody debris will be removed and resulting ruts will be repaired.

- Mowing Within Wetlands—Shrub vegetation will be mowed to ground surface or top of water, whichever is higher, utilizing a low ground pressure flail or grinder type mower. Woody debris will be removed and resulting ruts will be repaired.

- Clearing Within Uplands—At minimum, all at-grade roads, pads, structure, and guy areas will be grubbed. Remaining tree removal can be grubbed or stumps ground to below ground surface. Remaining shrubs and ground cover can be grubbed or mowed. Disturbed areas will be filled, leveled, and stabilized with seed and mulch. Disturbed slopes will be sodded and staked.

Construction Schedule

The transmission line pre-construction activities in Segment 1 are anticipated to begin in the spring of 2024 and be completed approximately 6 months later.

TLSA Segment 1: Sweatt - Basinger Schedule																								
	2023												2024											
Activity	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Vegetation Clearing													1/1			4/1								
Installation of Erosion & Turbidity Control													1/1						7/31					
Dredging and Filling (Pole Installation)														2/5						8/30				
Removal of erosion control and															3/1						9/30			

Access to Right-of-Way

FPL is currently negotiating agreements with landowners for temporary and permanent easements for both construction and maintenance access. No new roads are proposed. For Segment 1: Sweatt – Basinger, it is anticipated that access will be from road right-of-way. Improvements for access are expected to be limited to light grading, filling in of potholes, and light tree trimming. Matting will be used as needed to address site-specific conditions to be assessed at the time of construction. Attachment 6 provides a typical drawing for site-specific matting.

Operations and Maintenance

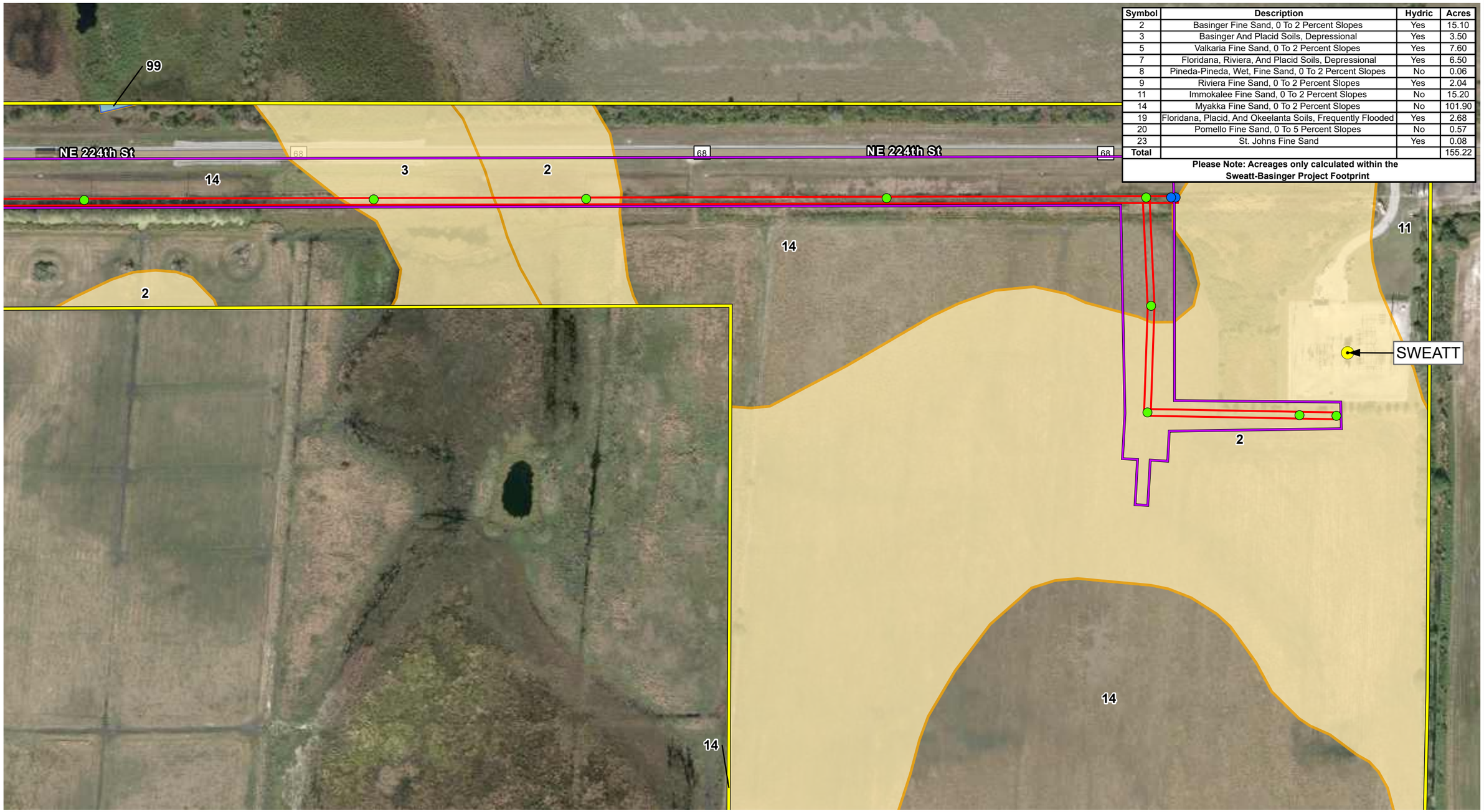
Once constructed, the transmission line would be in service continuously for approximately 50 years. Routine inspection/maintenance will be conducted for poles, conductors, vegetation management, and the right-of-way once a year from the ground. Additional inspections may also be conducted by helicopter, or drone, on an as-needed basis.

FPL's vegetation management practices are to use an integrated vegetation management approach to achieve program objectives through:

- Identification of compatible and incompatible vegetation through inspections that occur two times a year.
- Implementation of appropriate control methods to discourage incompatible vegetation.
- Promotion of compatible vegetation.

Control methods are based on environmental impact and anticipated effectiveness, along with site characteristics, security, economics, current land use, and other factors. These methods include, but are not limited to pruning, removal, herbicide application, and mowing. Typical mowing cycles are on a regular maintenance cycle, whereas other work activities are performed as needed.

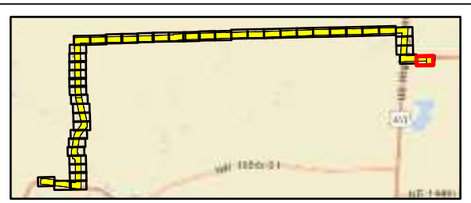
Attachment 7 – Soils Map



Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Guy Anchor
- Substation
- Soil
- Hydric Soil
- Unranked Soil (Water)
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 1 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
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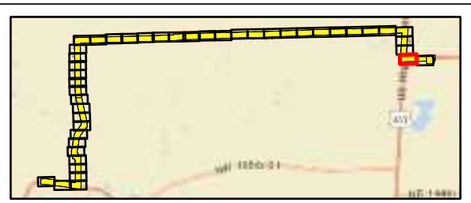
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Guy Anchor
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

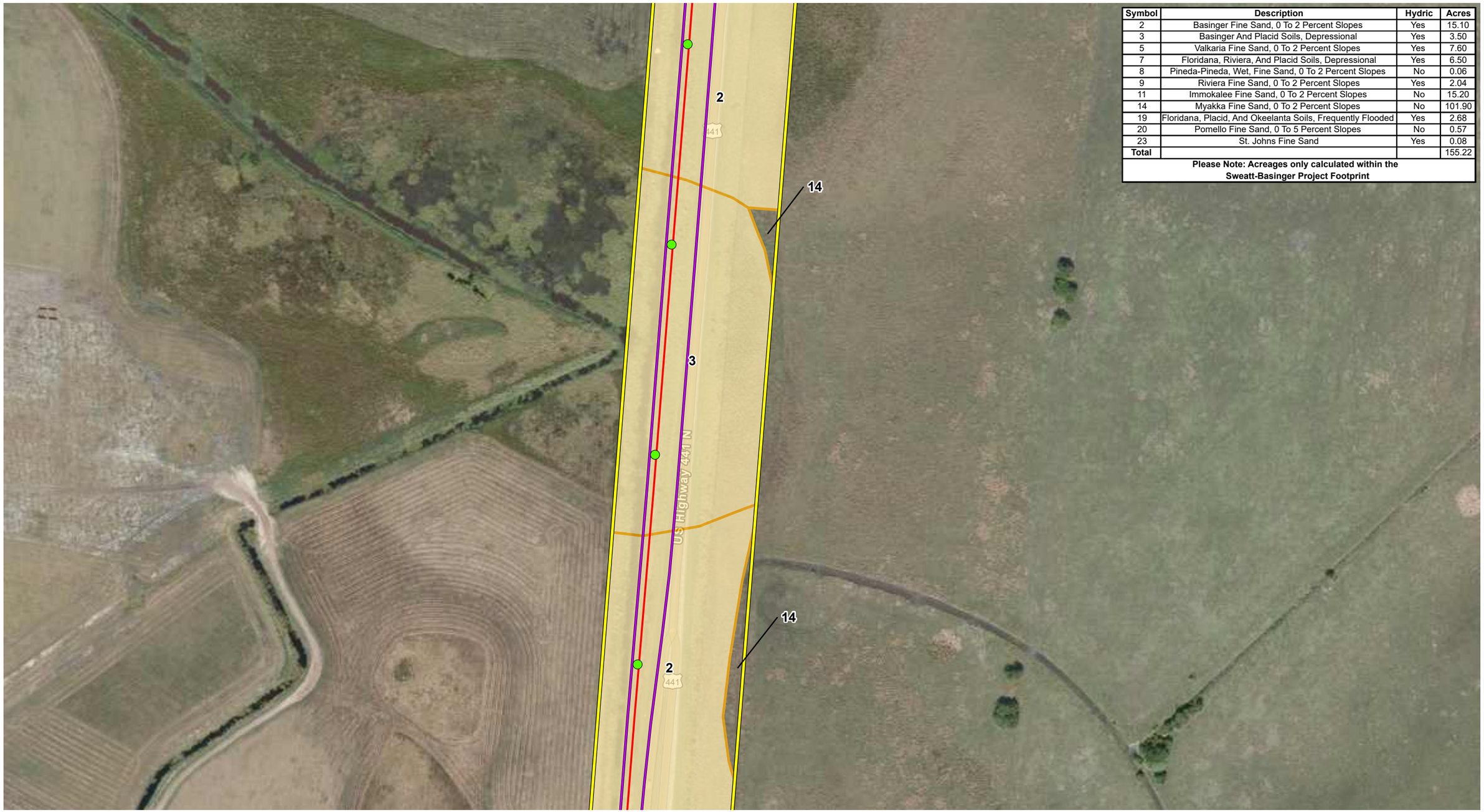
Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 2 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT



Symbol	Description	Hydric	Acres
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3	Basinger And Placid Soils, Depressional	Yes	3.50
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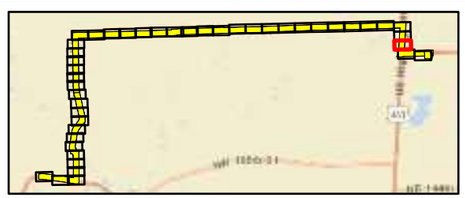
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 3 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
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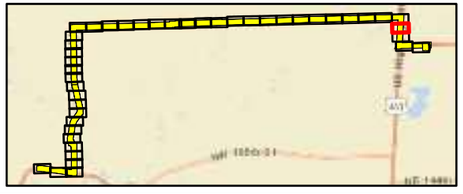
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 4 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
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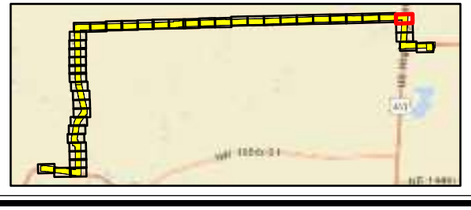
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Guy Anchor
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

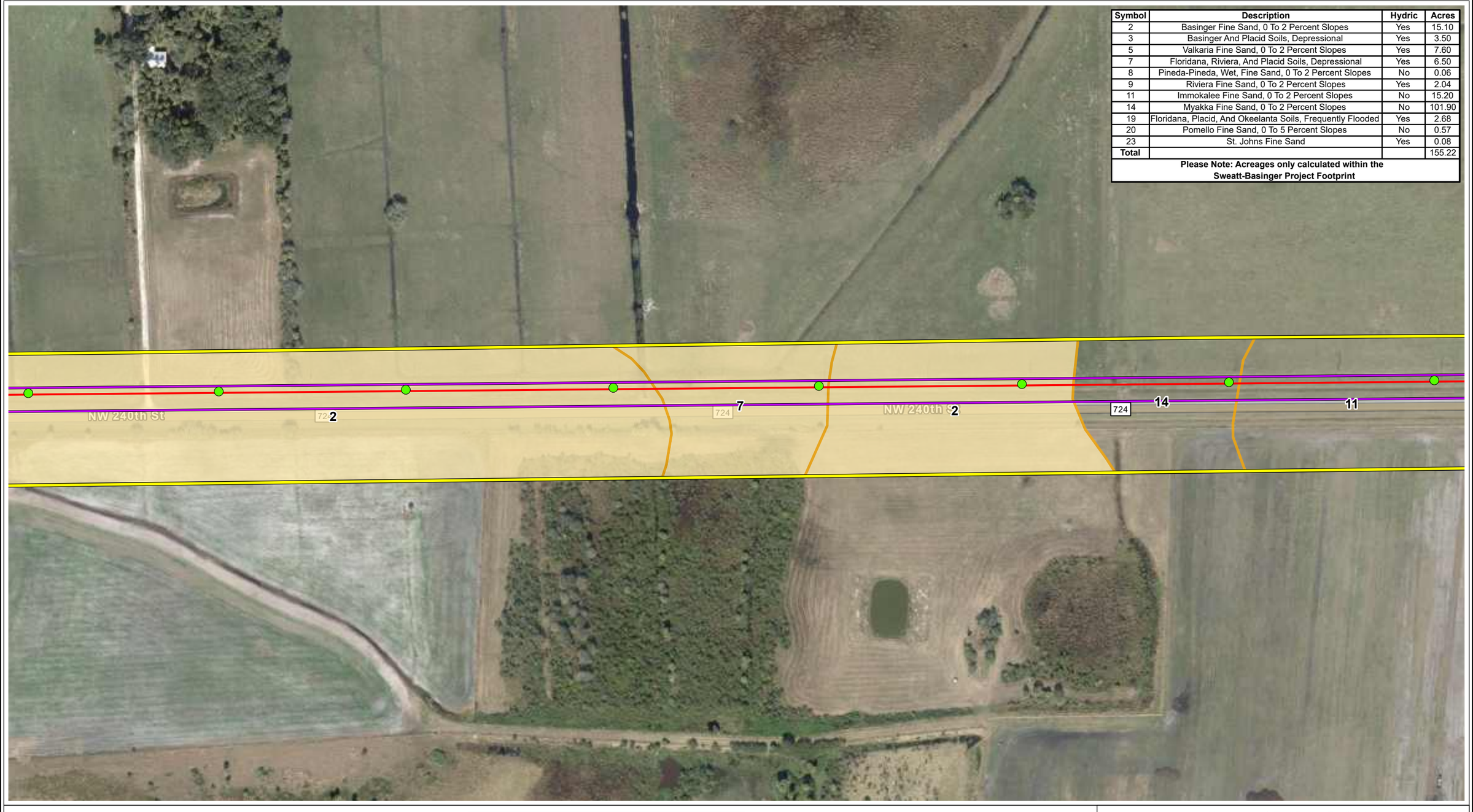
Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 5 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT



Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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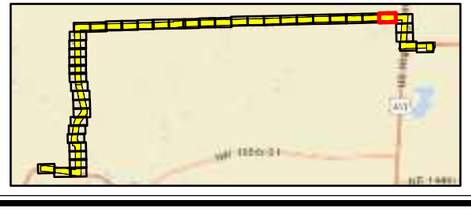
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 6 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
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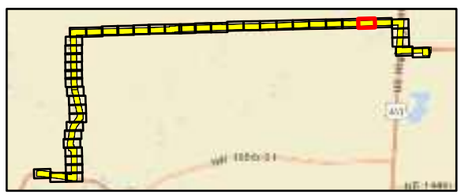
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 7 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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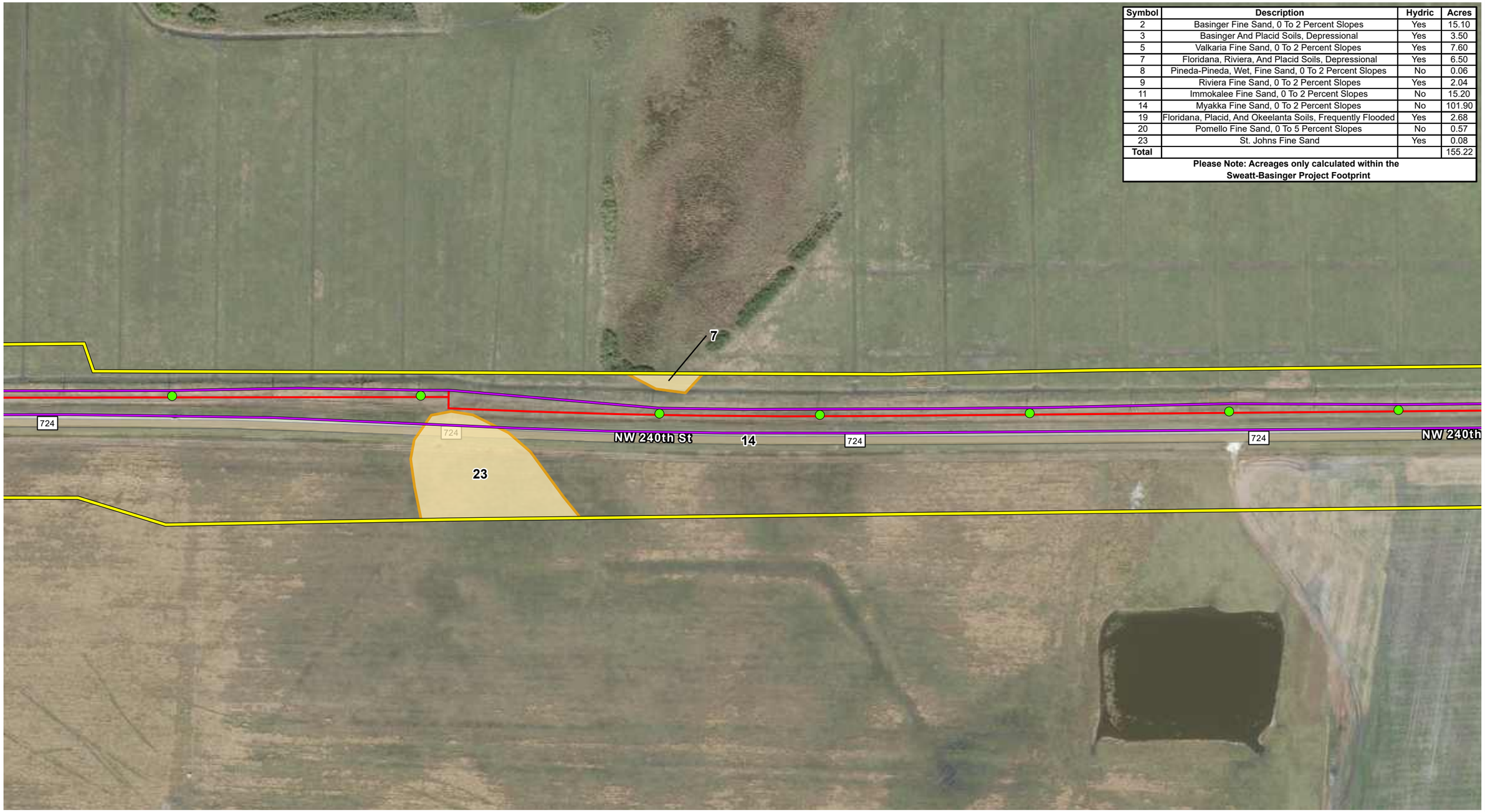
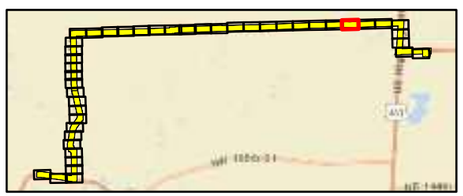


- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 8 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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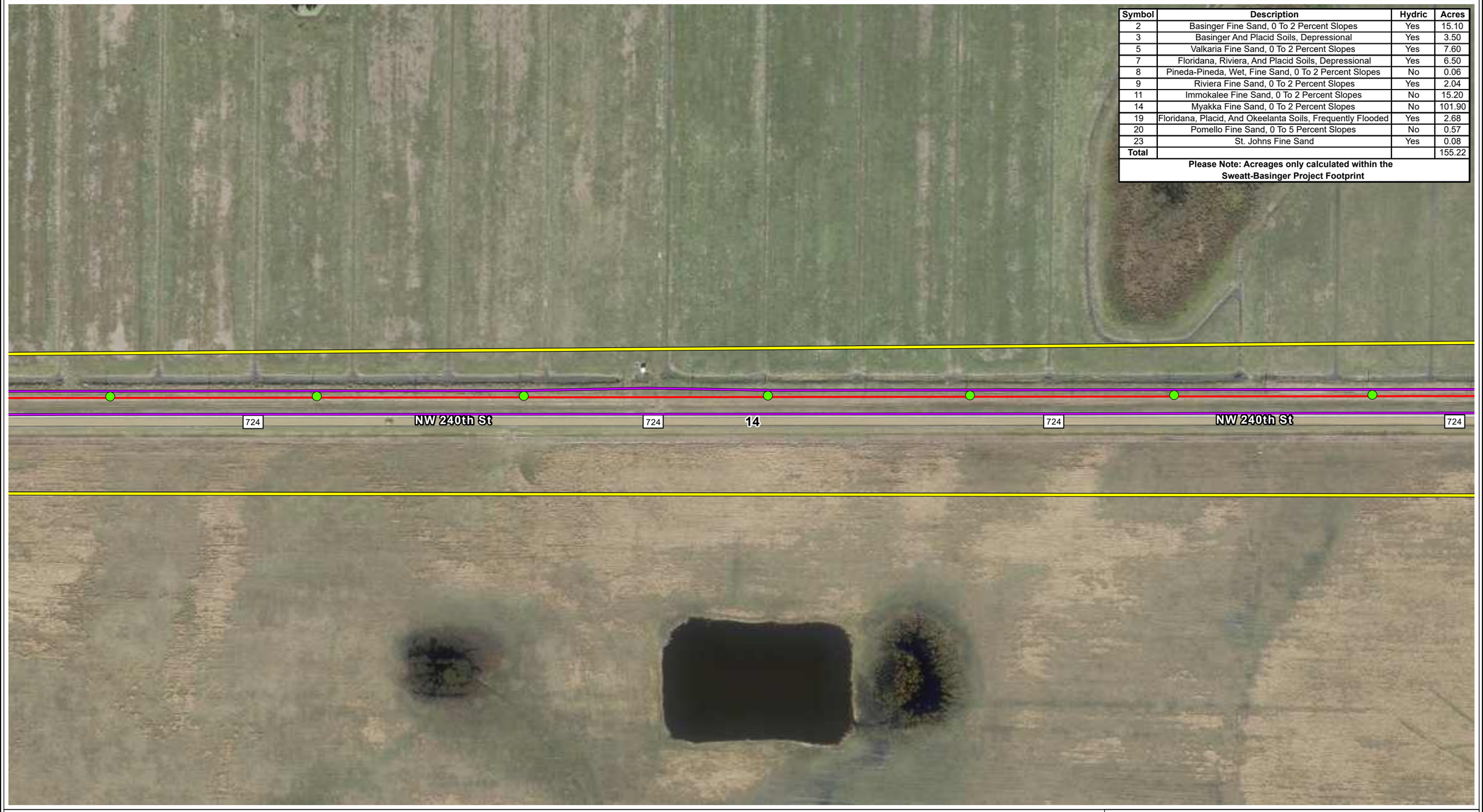
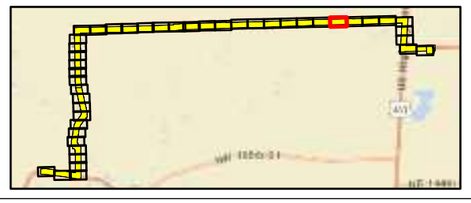
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 9 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

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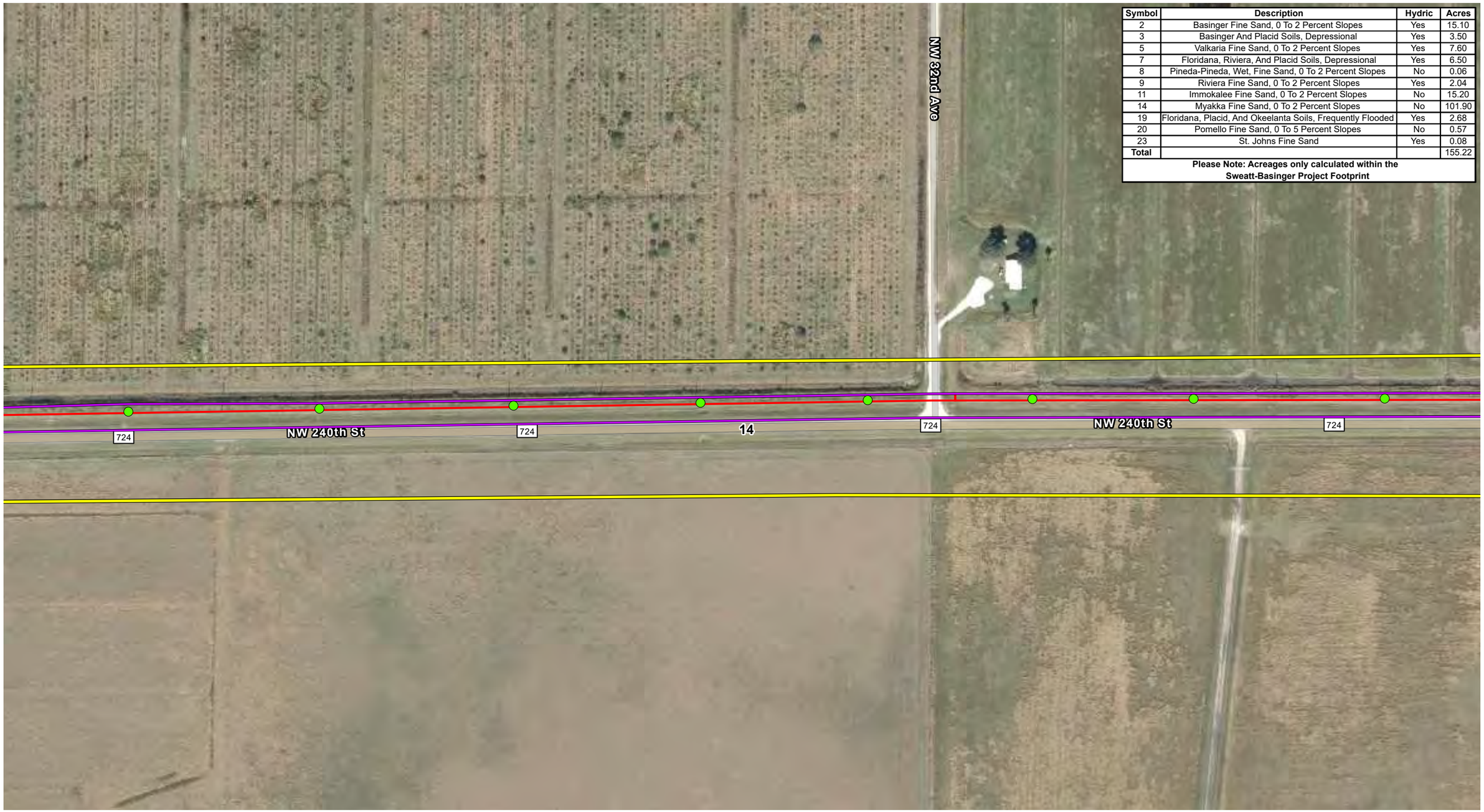
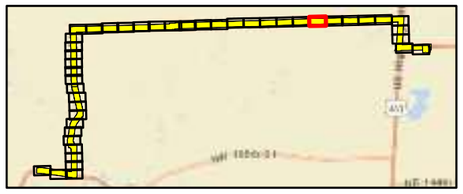


- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 10 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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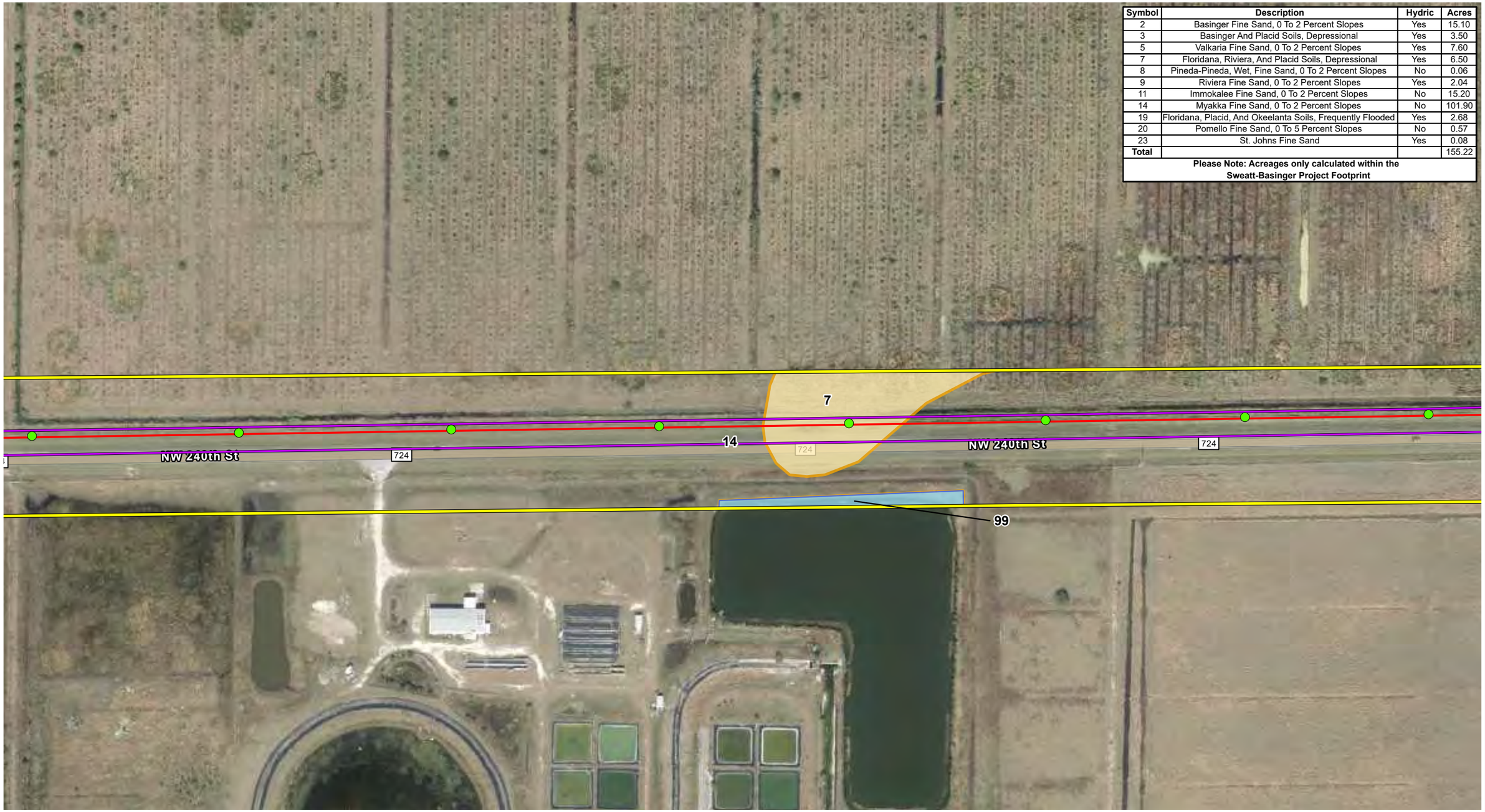
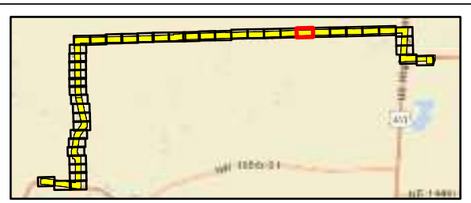
Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Unranked Soil (Water)
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 11 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert

N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 12 of 44
Segment 1: Sweatt – Basinger
Soils

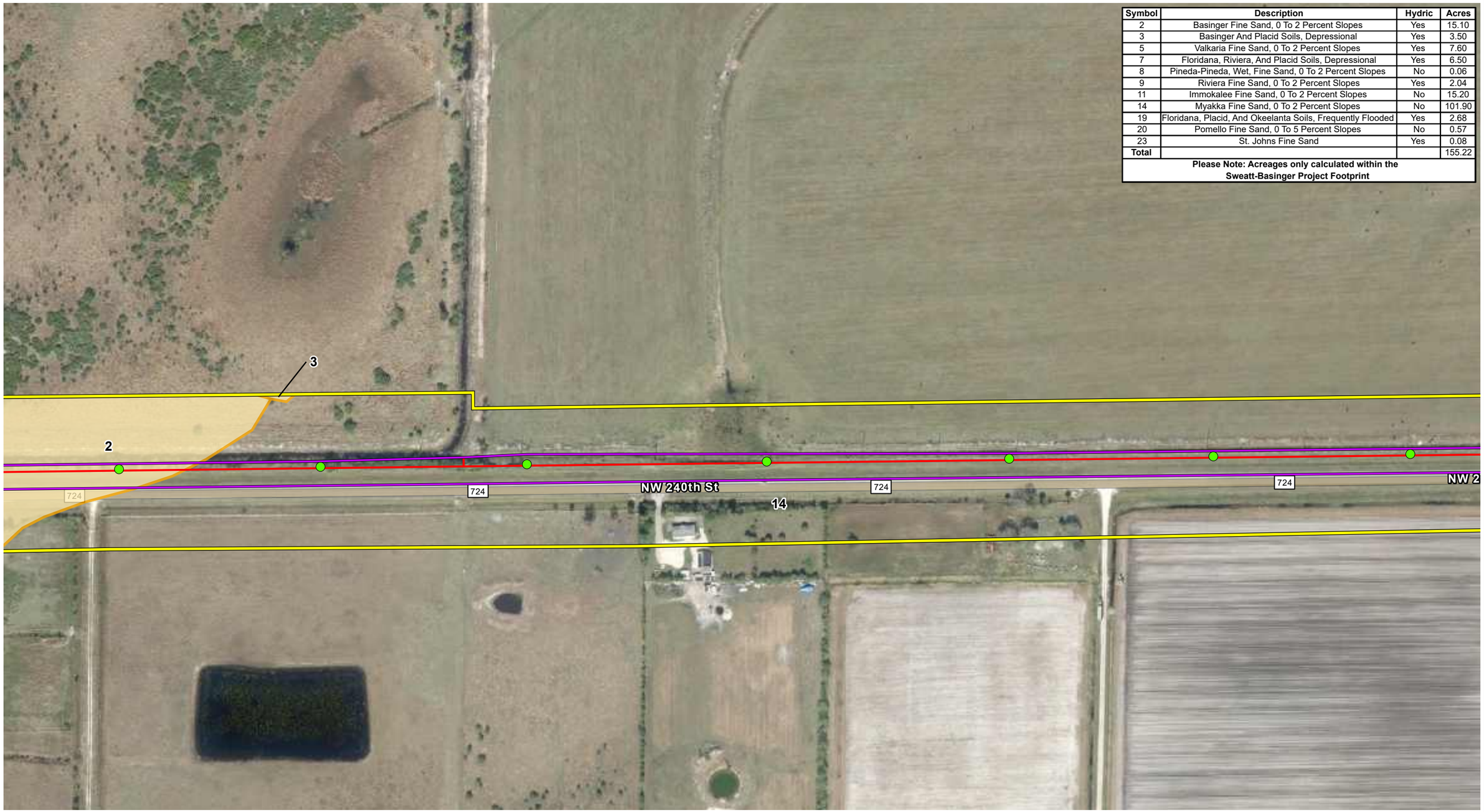
Okeechobee County, Florida

Date: 3/10/2023

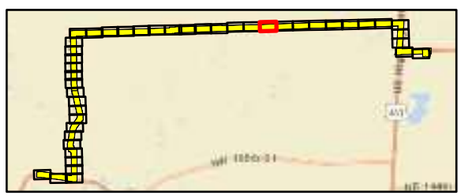
ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 13 of 44
Segment 1: Sweatt – Basinger Soils

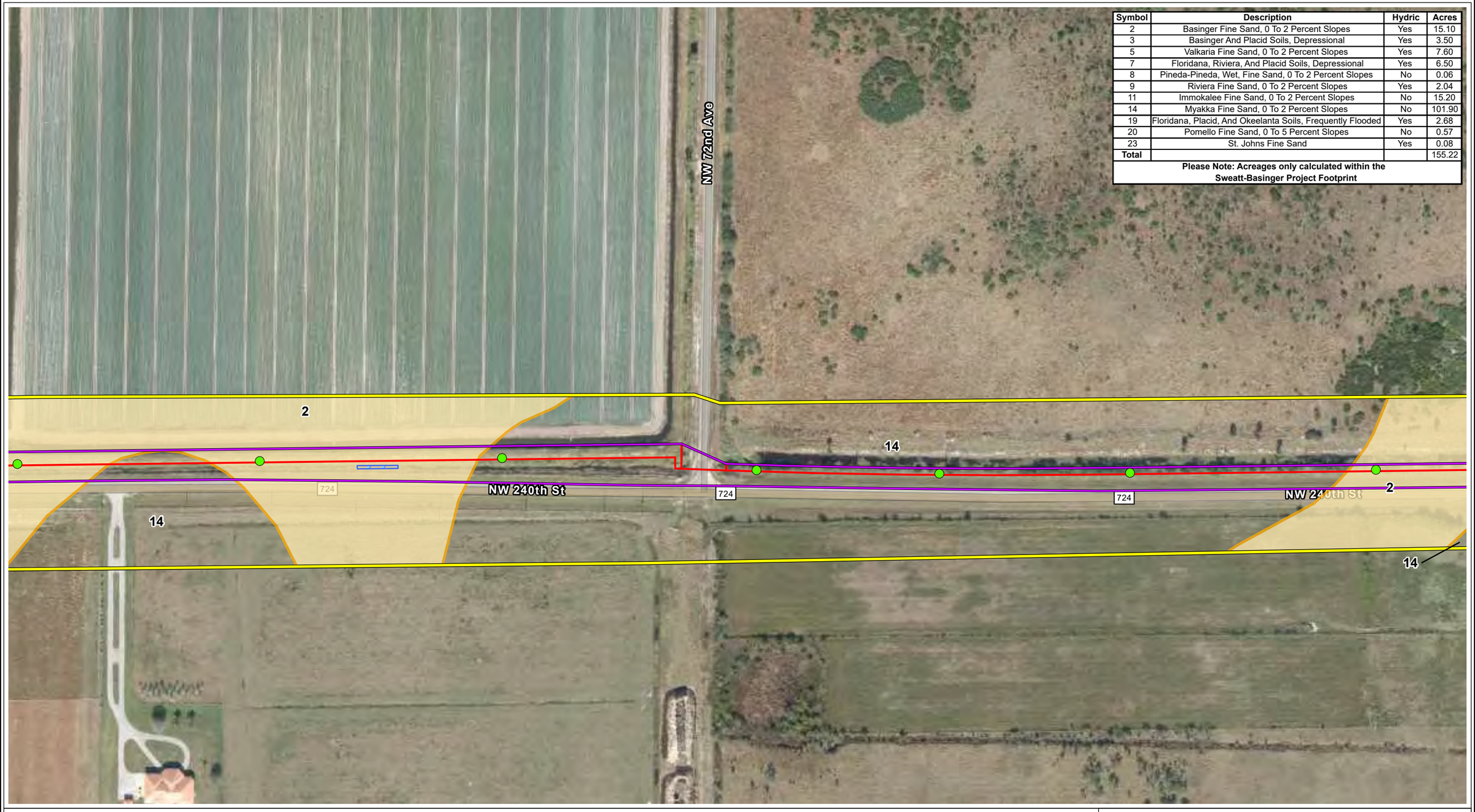
Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert

N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 14 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
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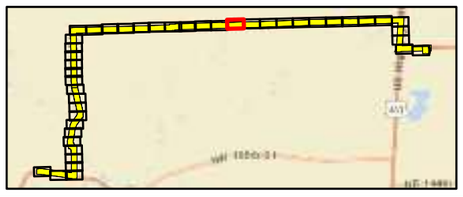
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 15 of 44
Segment 1: Sweatt – Basinger Soils

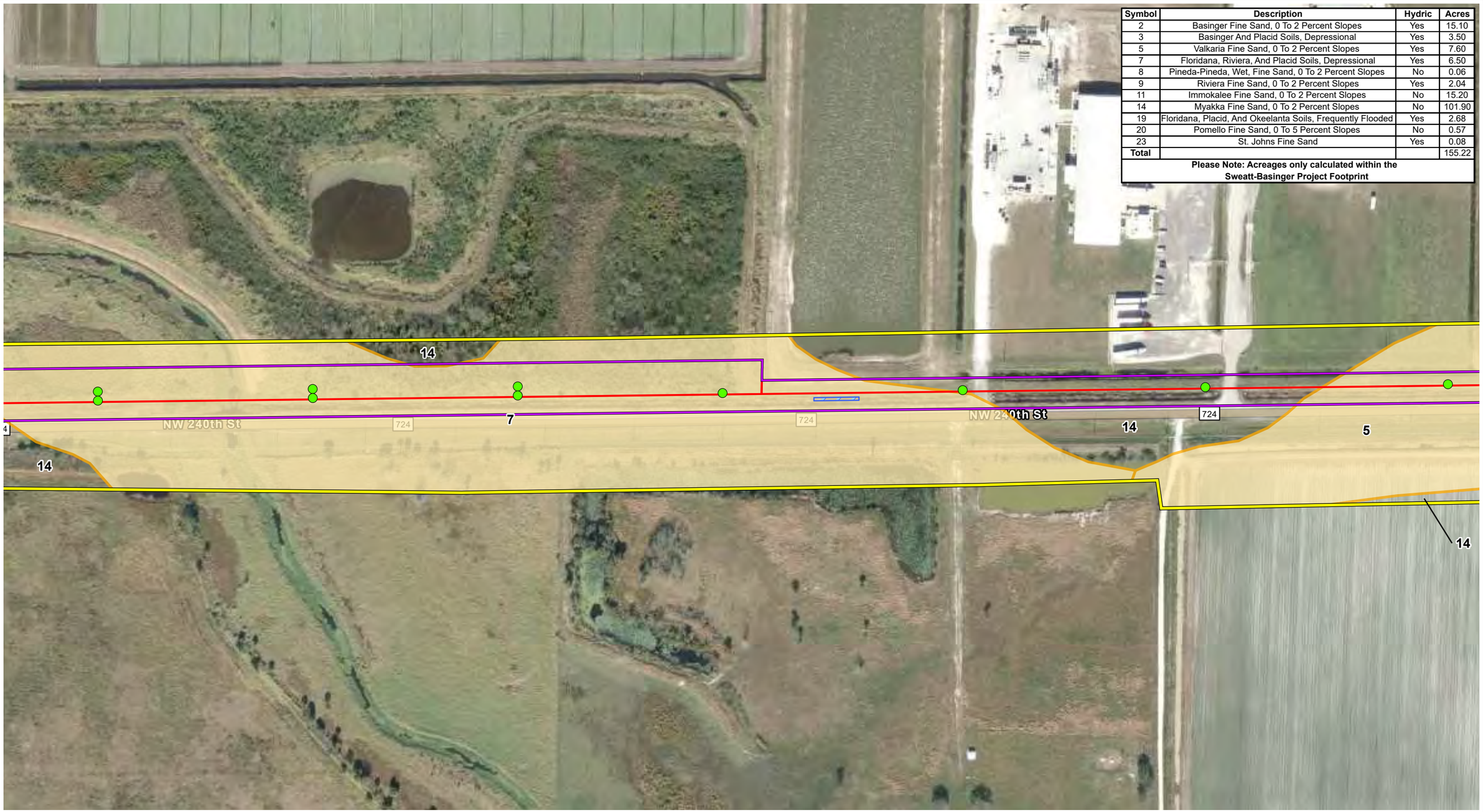
Okeechobee County, Florida

Date: 3/10/2023

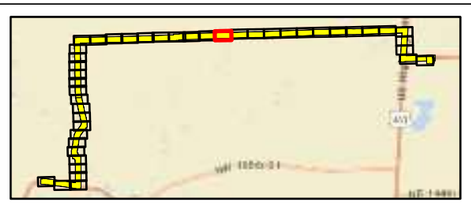
ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 16 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

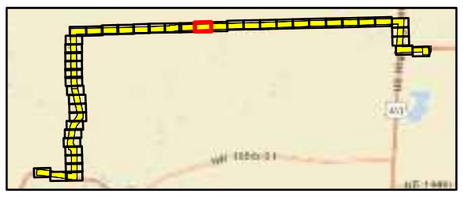
Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 17 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
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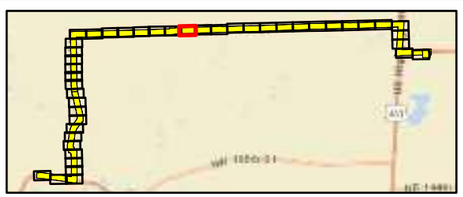
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 18 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
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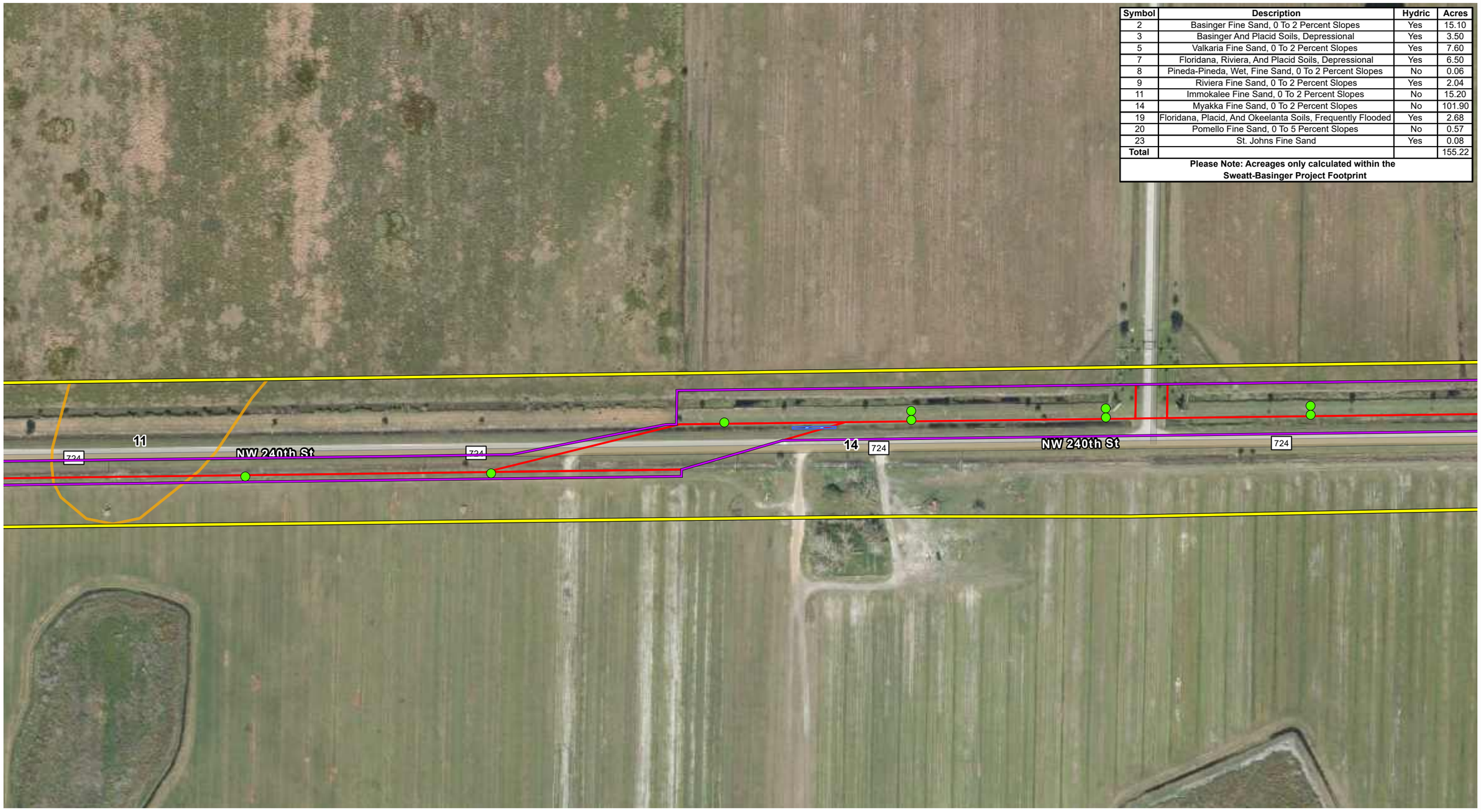
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert

N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 19 of 44
Segment 1: Sweatt – Basinger
Soils

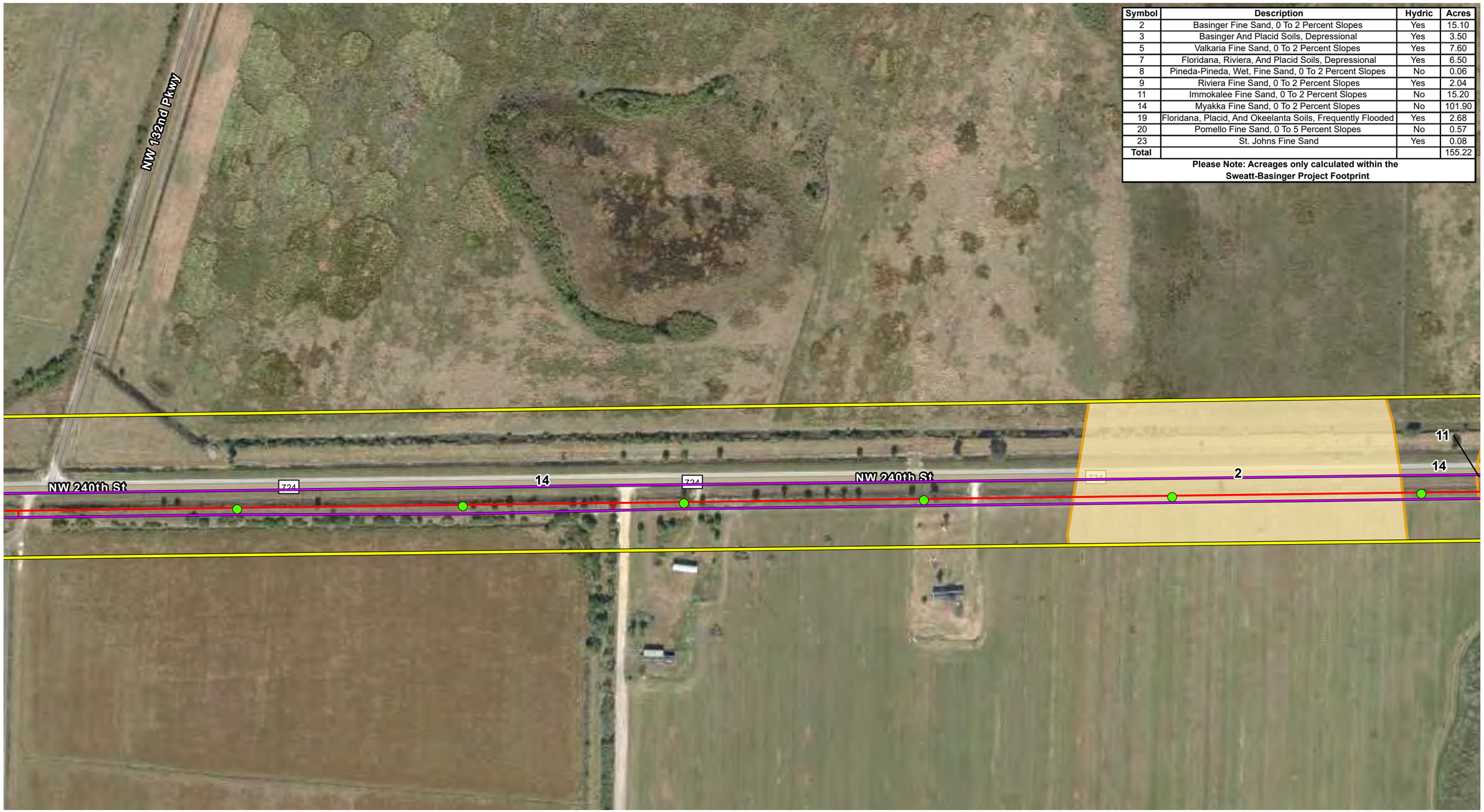
Okeechobee County, Florida

Date: 3/10/2023

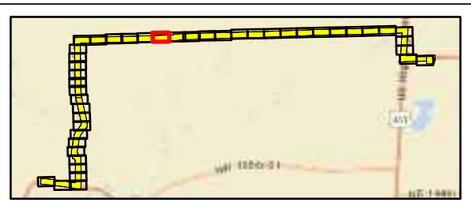
ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 20 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

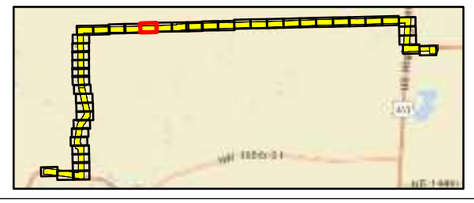
Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 21 of 44
Segment 1: Sweatt – Basinger Soils

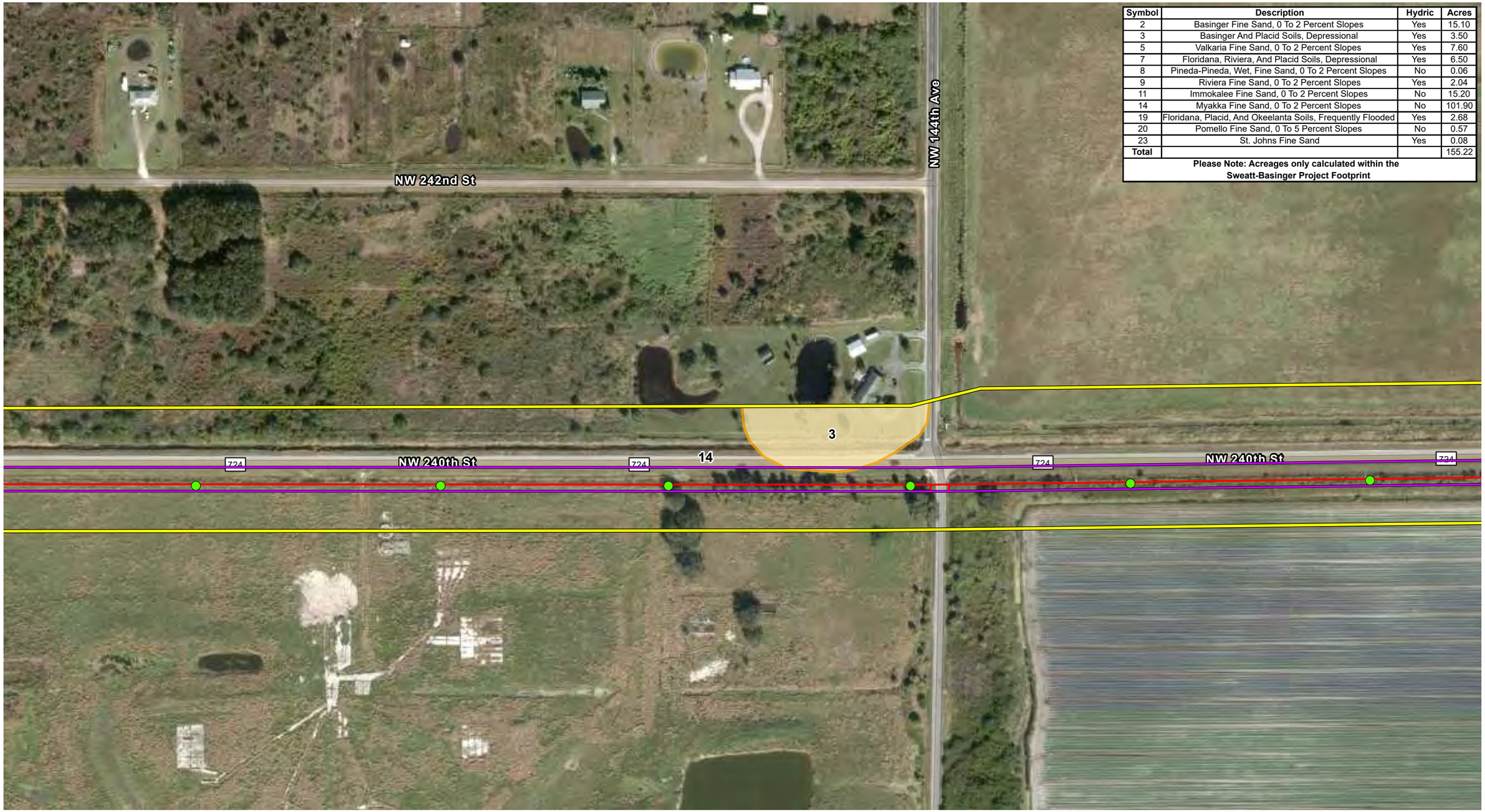
Okeechobee County, Florida

Date: 3/10/2023

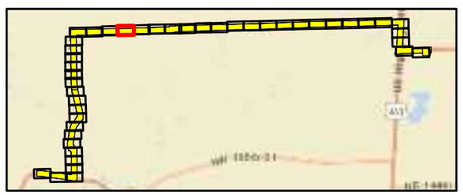
ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 22 of 44
Segment 1: Sweatt – Basinger Soils

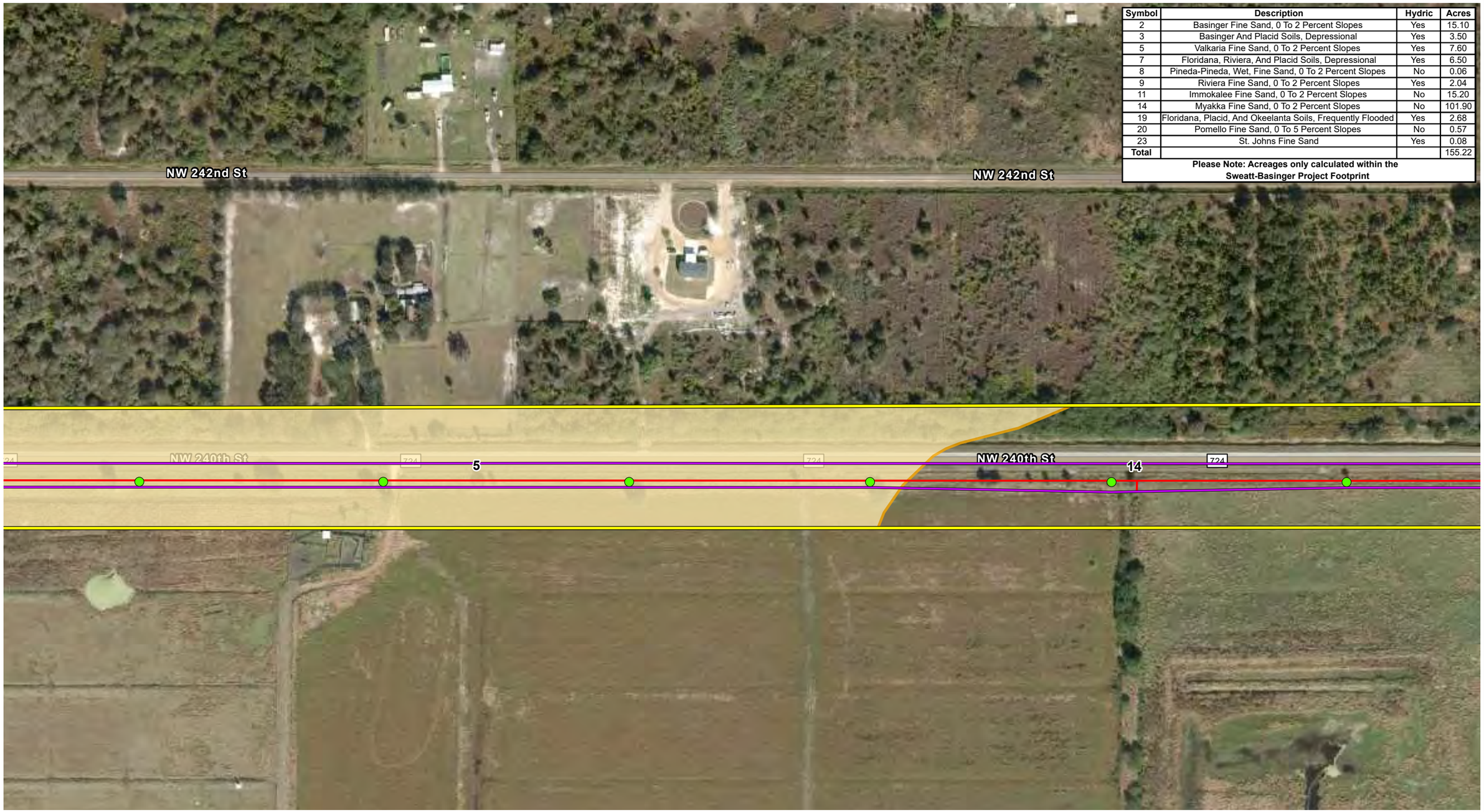
Okeechobee County, Florida

Date: 3/10/2023

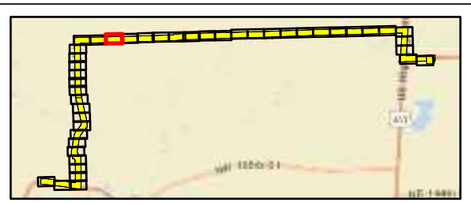
ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 23 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
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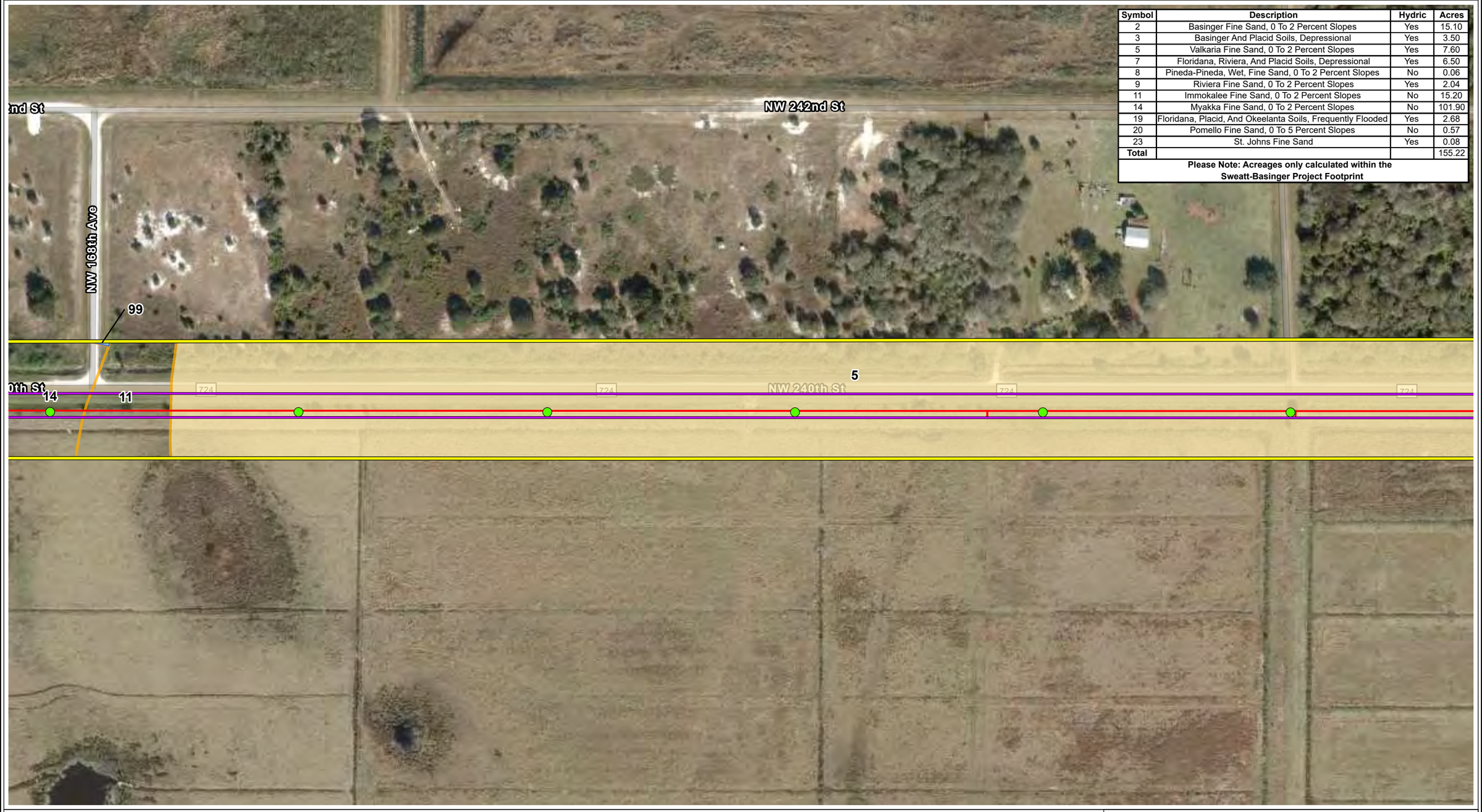
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Unranked Soil (Water)
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert

N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 24 of 44
Segment 1: Sweatt – Basinger Soils

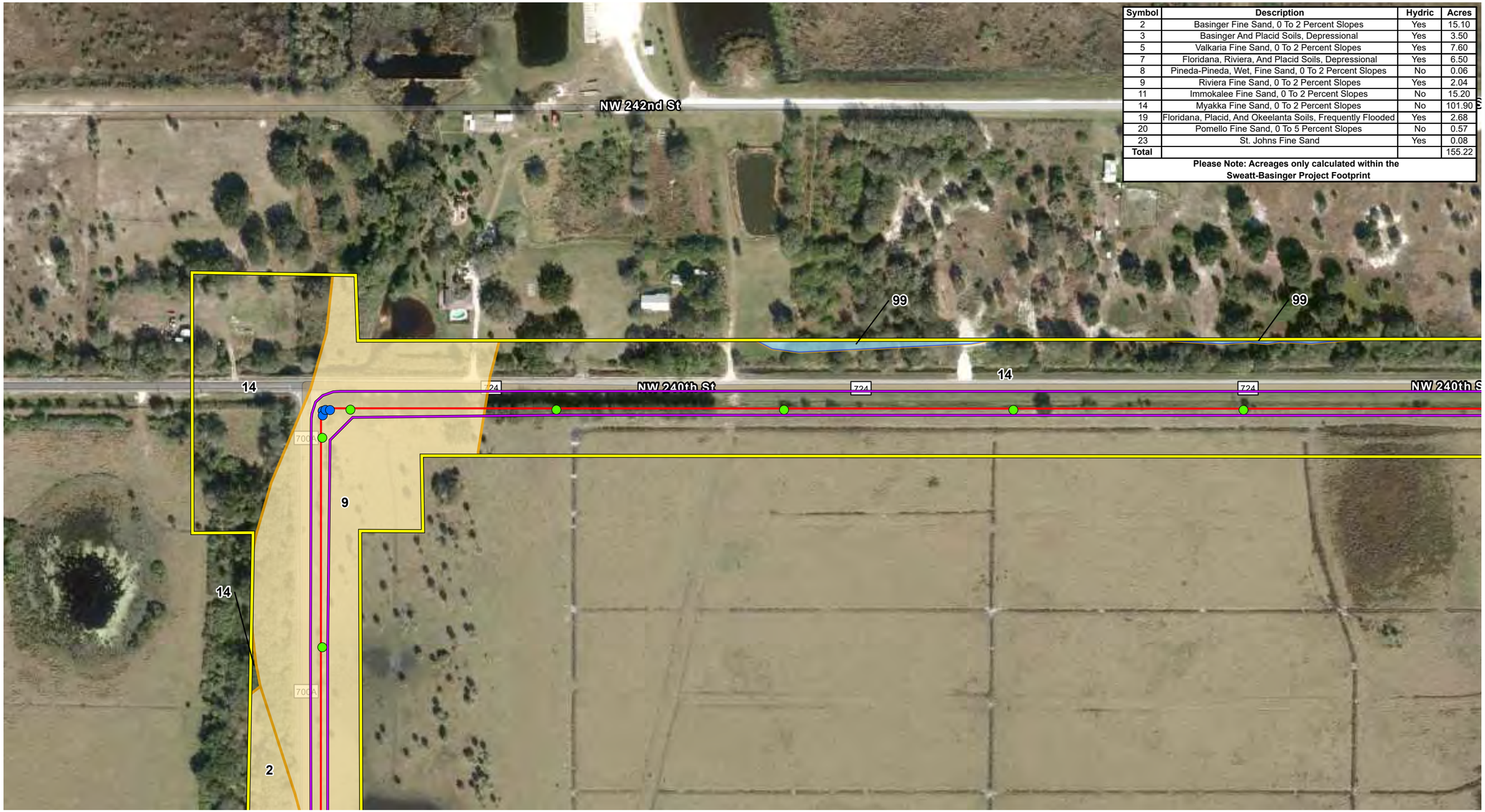
Okeechobee County, Florida

Date: 3/10/2023

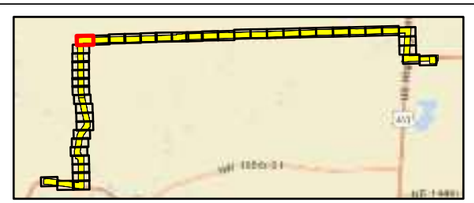
ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Guy Anchor
- Soil
- Hydric Soil
- Unranked Soil (Water)
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 25 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert

N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 26 of 44
Segment 1: Sweatt – Basinger Soils

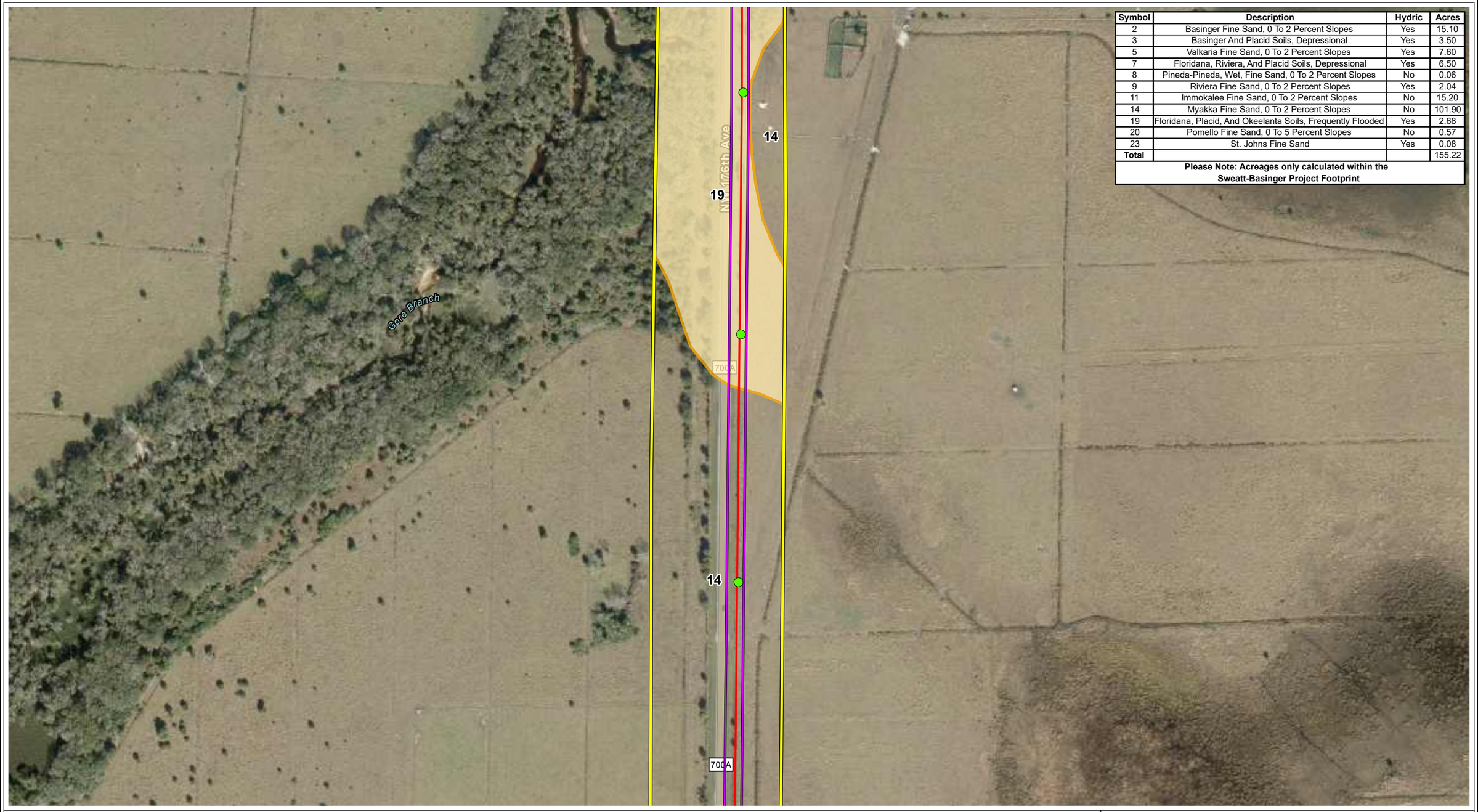
Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert

N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 27 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

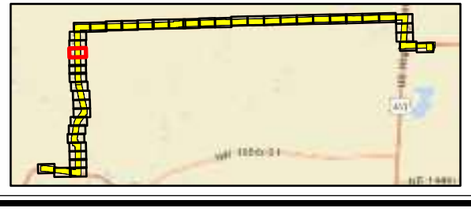
Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 28 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
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9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
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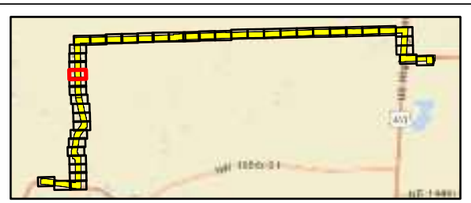
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

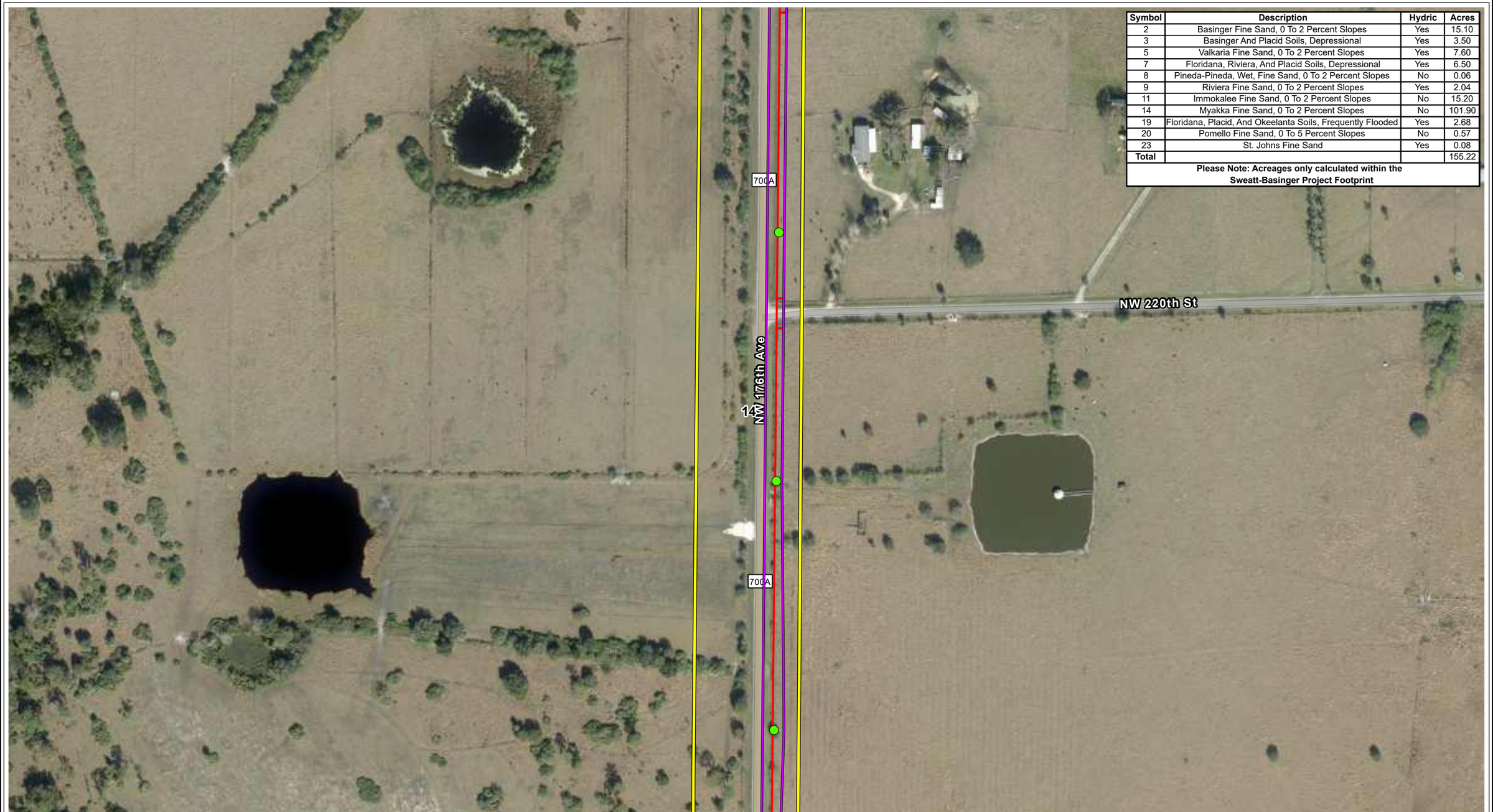
Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 29 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT



Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
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9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
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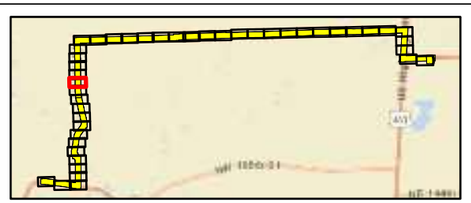
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 30 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

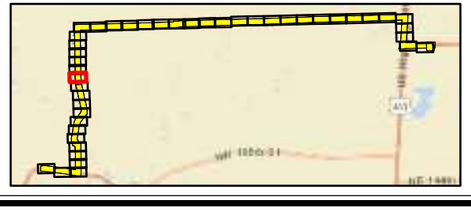
Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 31 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

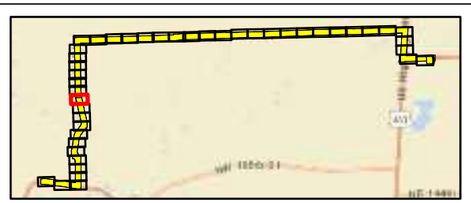
Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 32 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
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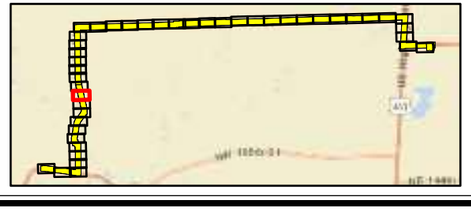
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 33 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
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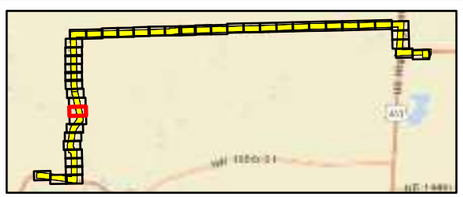
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 34 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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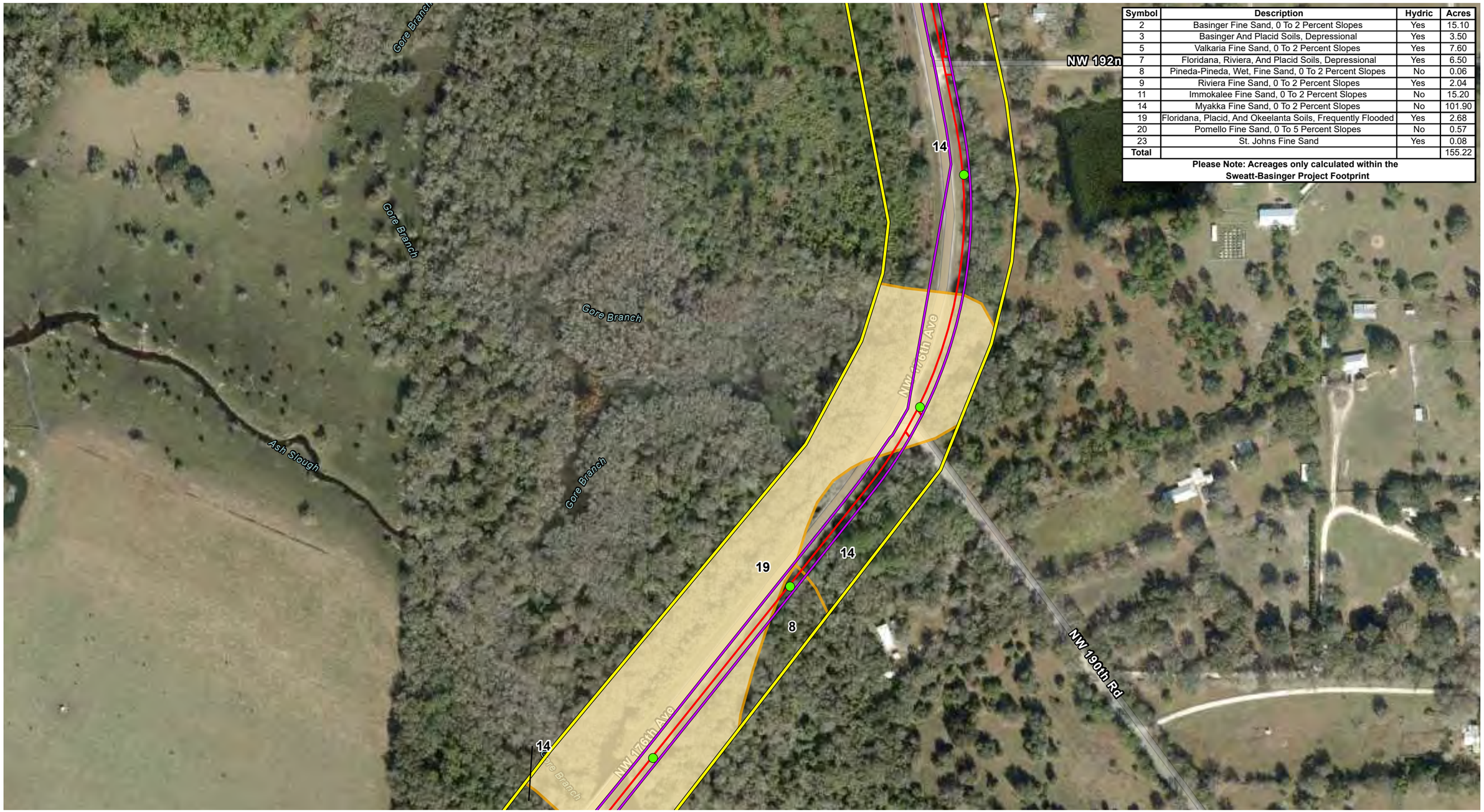
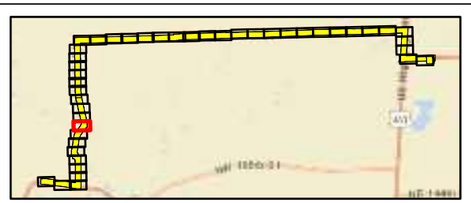
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 35 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
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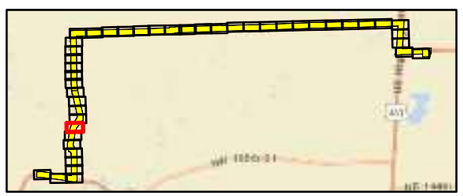
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 36 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
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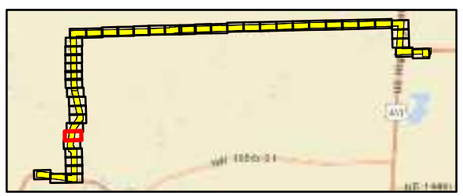
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 37 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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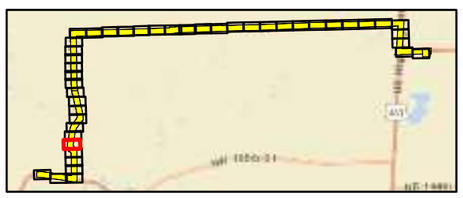
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 38 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

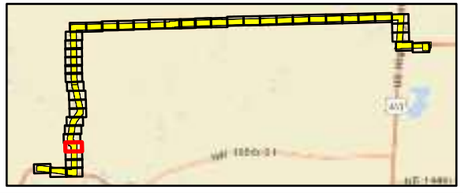
Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
7	Floridana, Riviera, And Placid Soils, Depressional	Yes	6.50
8	Pineda-Pineda, Wet, Fine Sand, 0 To 2 Percent Slopes	No	0.06
9	Riviera Fine Sand, 0 To 2 Percent Slopes	Yes	2.04
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 39 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
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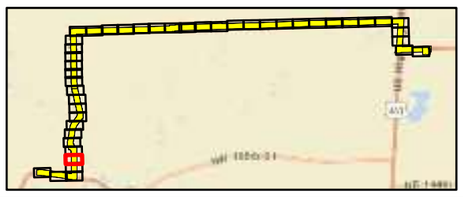
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

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Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 40 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
3	Basinger And Placid Soils, Depressional	Yes	3.50
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11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
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Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

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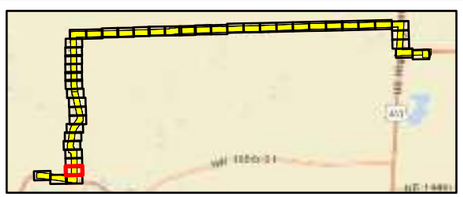
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



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0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 41 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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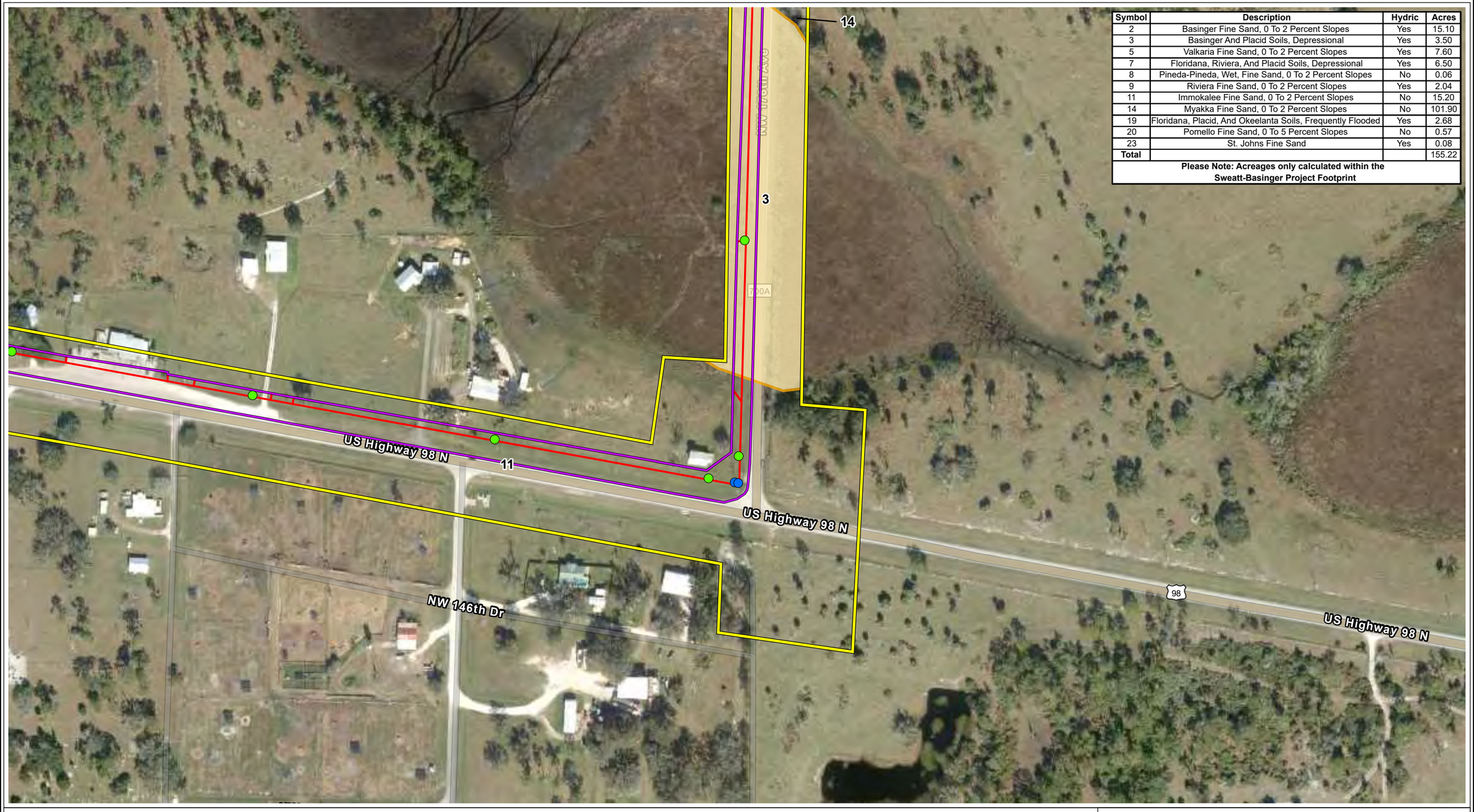
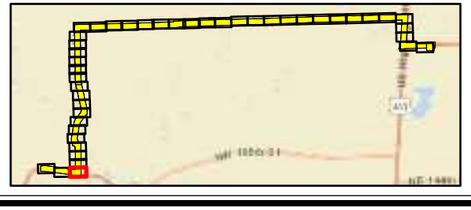
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Guy Anchor
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 42 of 44
Segment 1: Sweatt – Basinger Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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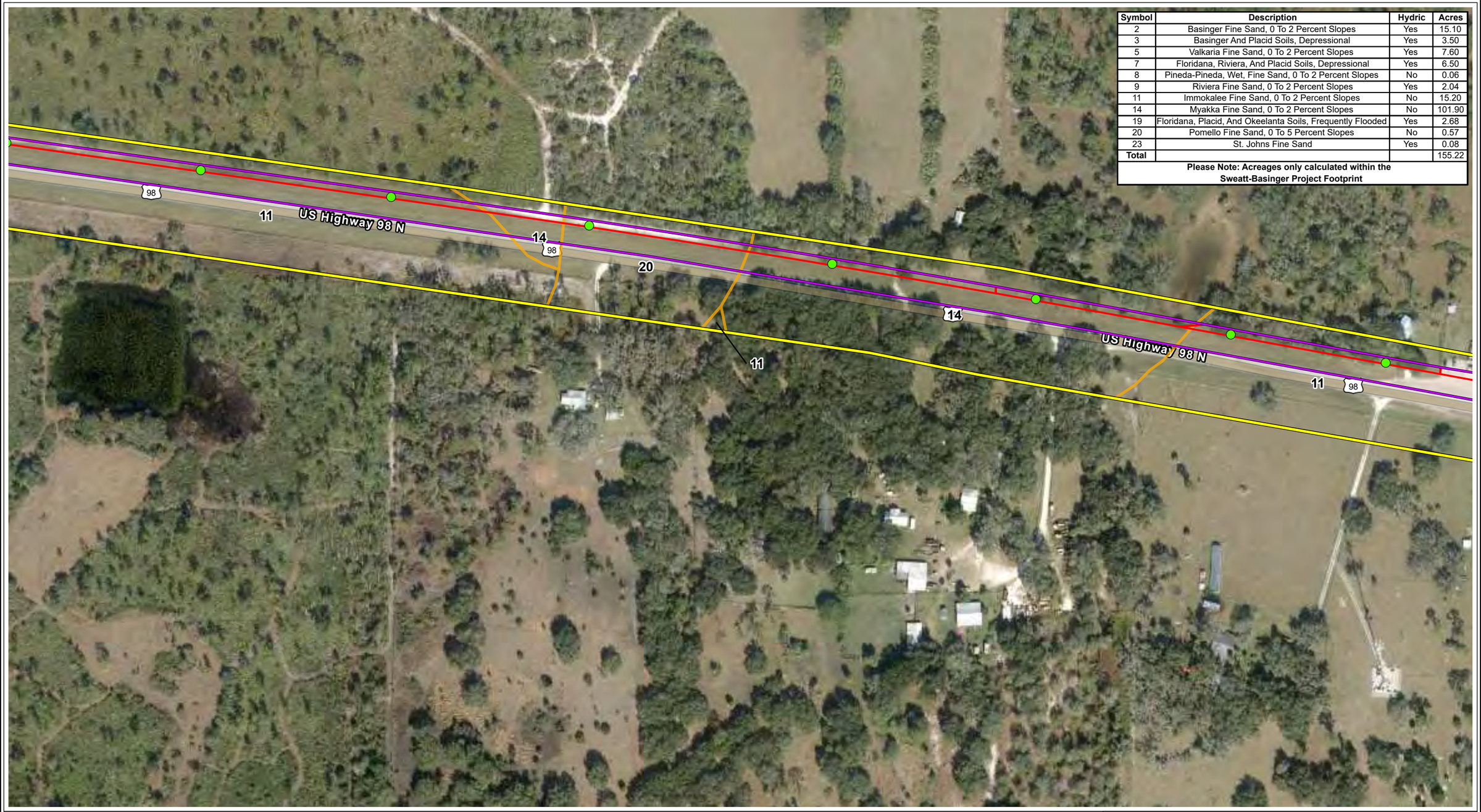
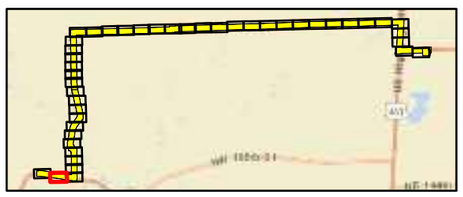
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 7 - Page 43 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

Symbol	Description	Hydric	Acres
2	Basinger Fine Sand, 0 To 2 Percent Slopes	Yes	15.10
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5	Valkaria Fine Sand, 0 To 2 Percent Slopes	Yes	7.60
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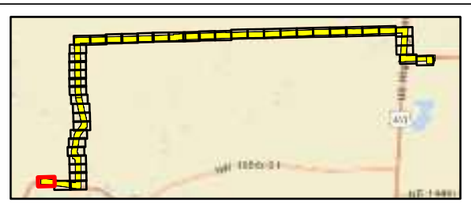
11	Immokalee Fine Sand, 0 To 2 Percent Slopes	No	15.20
14	Myakka Fine Sand, 0 To 2 Percent Slopes	No	101.90
19	Floridana, Placid, And Okeelanta Soils, Frequently Flooded	Yes	2.68
20	Pomello Fine Sand, 0 To 5 Percent Slopes	No	0.57
23	St. Johns Fine Sand	Yes	0.08
Total			155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Guy Anchor
- Substation
- Soil
- Hydric Soil
- Sweatt-Basinger Project Footprint
- Sweatt-Basinger Narrowed Corridor
- Sweatt – Whidden Certified Corridor Route
- Proposed Culvert



N

0 200 400

Feet

Sources: NRCS, 2022; Esri World Imagery, 2020; ECT, 2023.

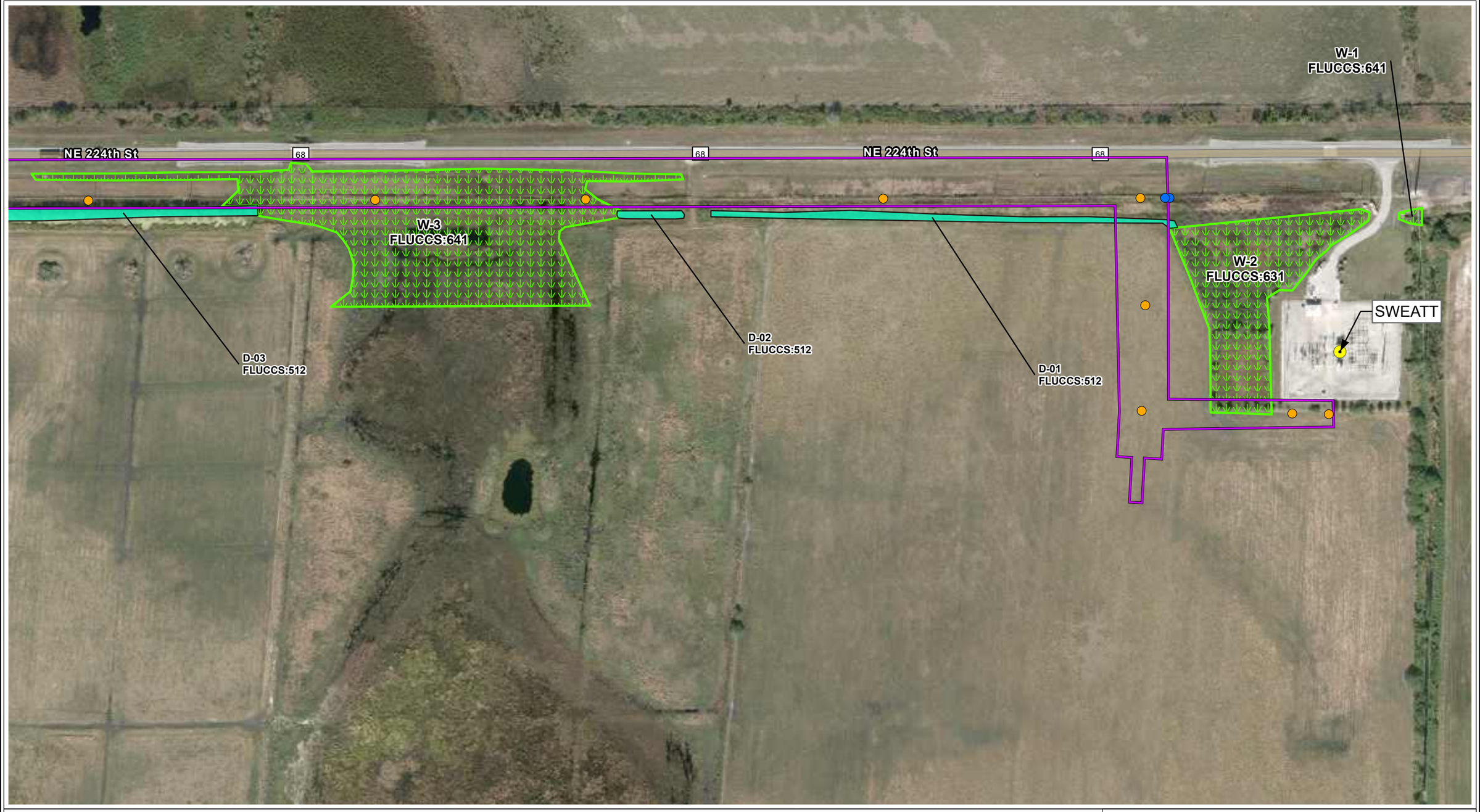
Attachment 7 - Page 44 of 44
Segment 1: Sweatt – Basinger
Soils

Okeechobee County, Florida

Date: 3/10/2023

ECT

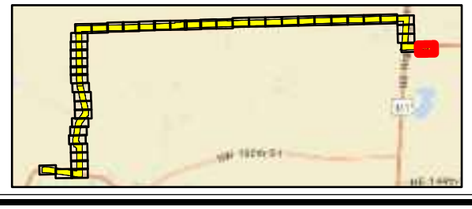
Attachment 8 – Aerial Map with Delineated Wetlands



- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 1 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

R5UBFx

R5UBFx

US Highway 441 N

US Highway 441 N

US Highway 441 N

68

NE 224th St

68

68

Eagle Island

W-4
FLUCCS:631

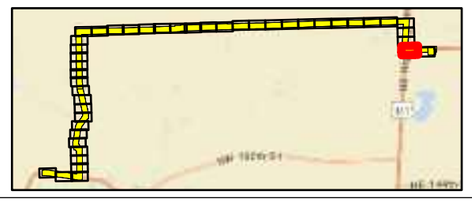
D-04
FLUCCS:512

D-03
FLUCCS:512

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 2 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

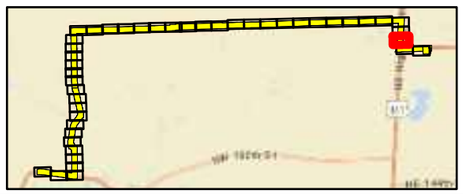
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 3 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

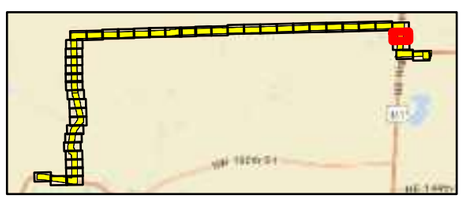
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 4 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

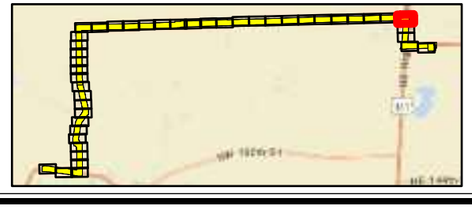
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

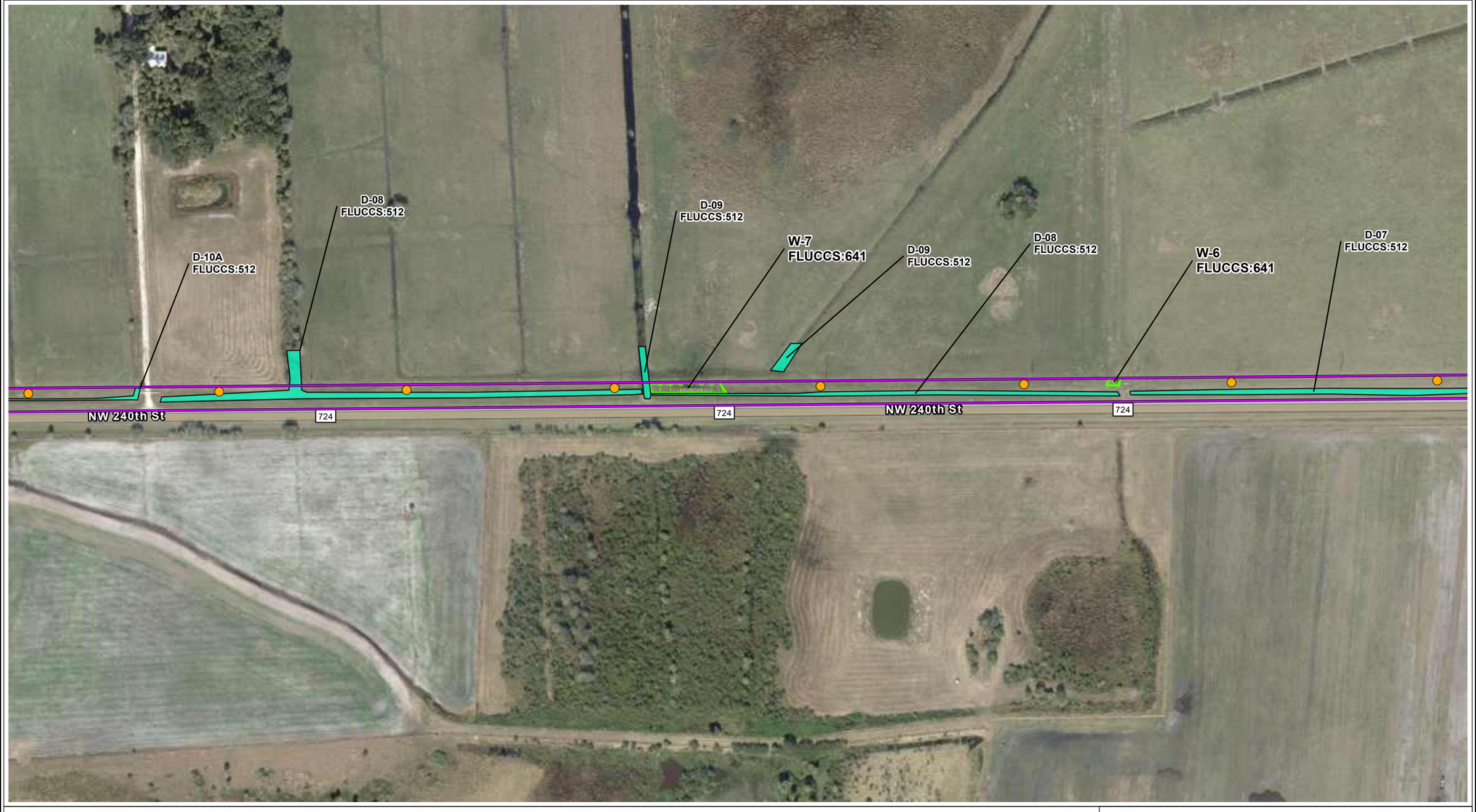
Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 5 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

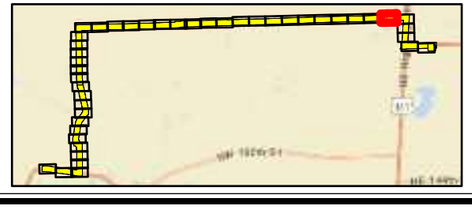
ECT



- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 6 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
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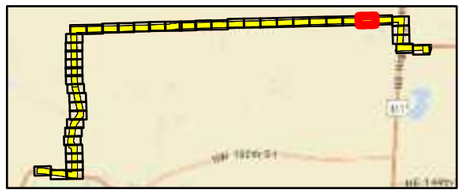
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 7 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
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- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

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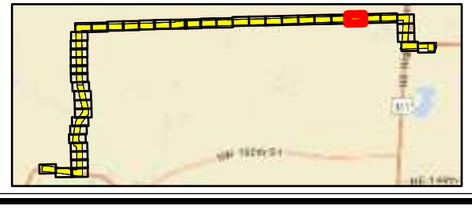
- Riverine



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Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 8 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
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- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

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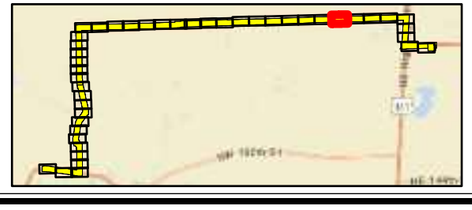


N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 9 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

NW 32nd Ave

D-10B
FLUCCS:512

D-10B
FLUCCS:512

724

NW 240th St

724

724

NW 240th St

724

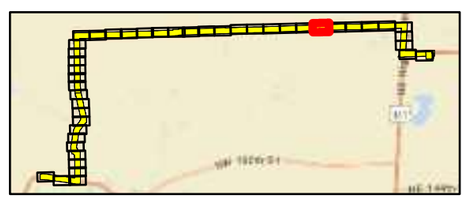
D-15A
FLUCCS:512

D-14A
FLUCCS:512

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 10 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
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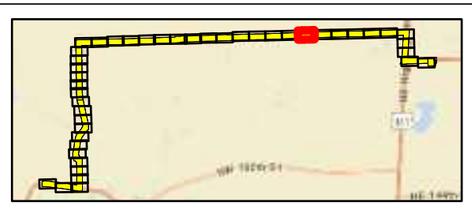
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 11 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

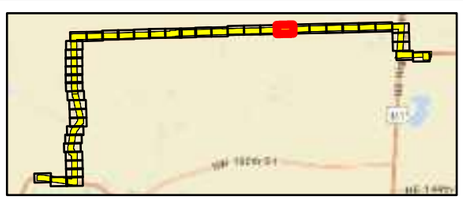
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 12 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

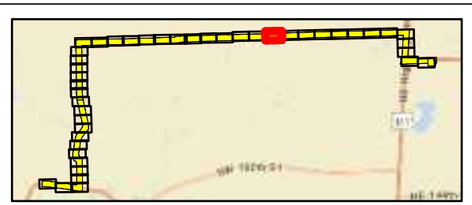
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

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Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 13 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

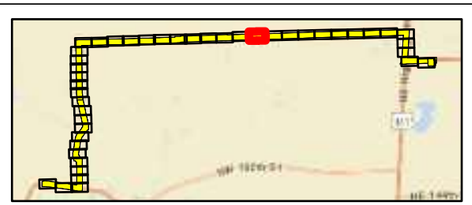
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 14 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

D-14B
FLUCCS:512

D-19
FLUCCS:512

D-20
FLUCCS:512

NW 240th St

NW 240th St

724

724

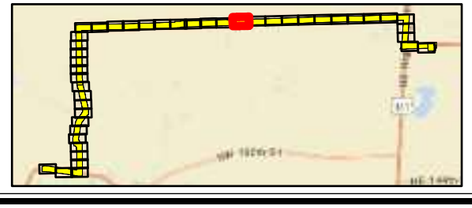
724

724

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

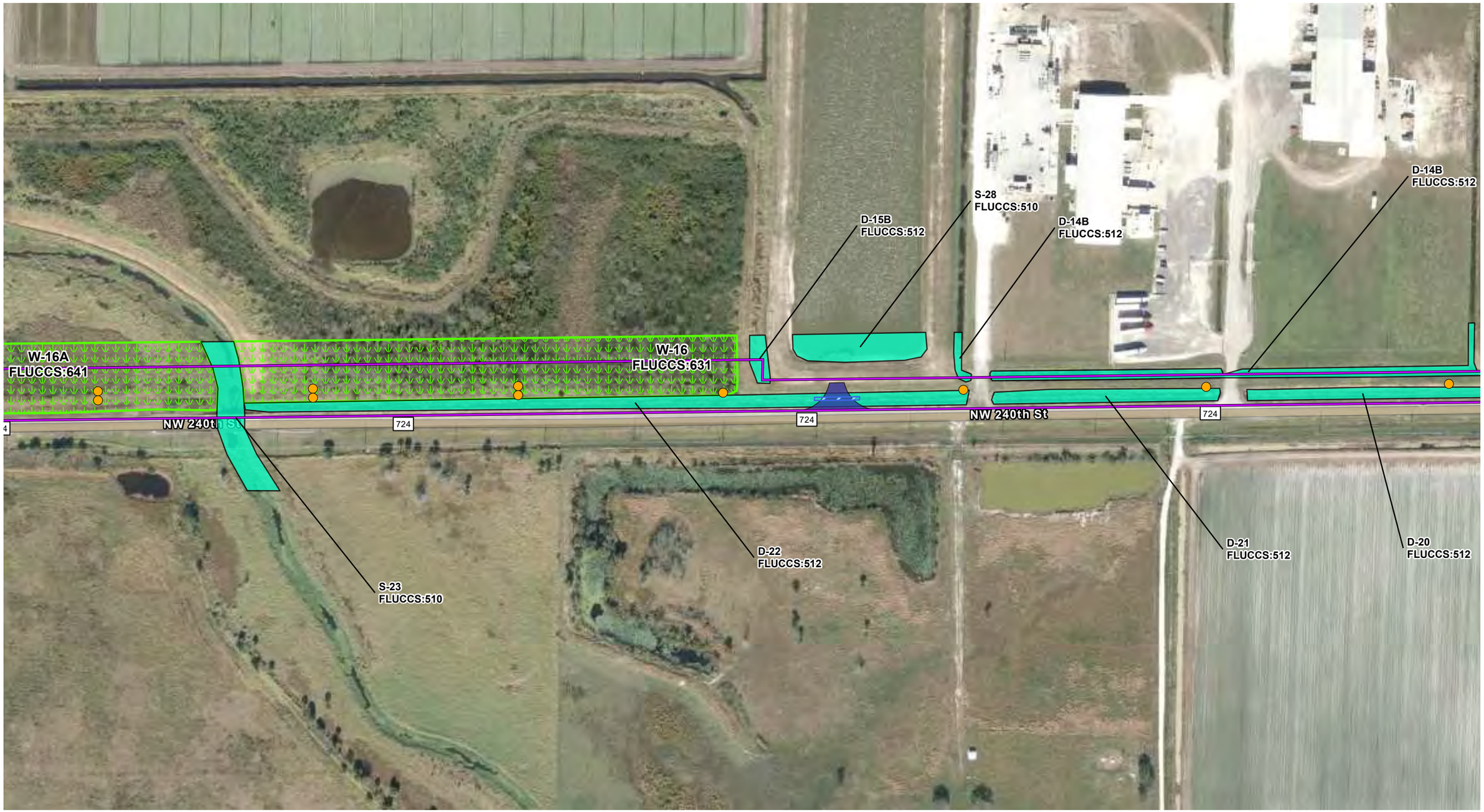
Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 15 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

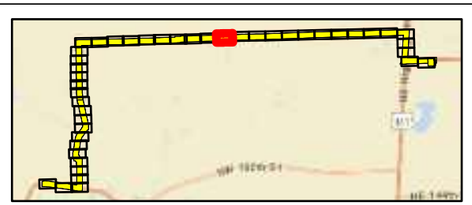
ECT



- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 16 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

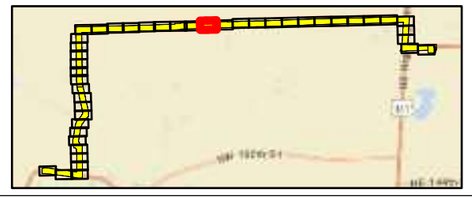
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 17 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

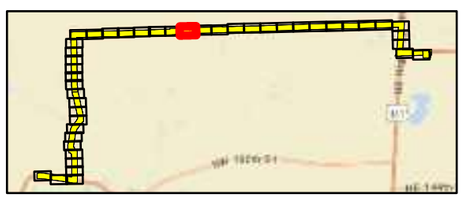
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

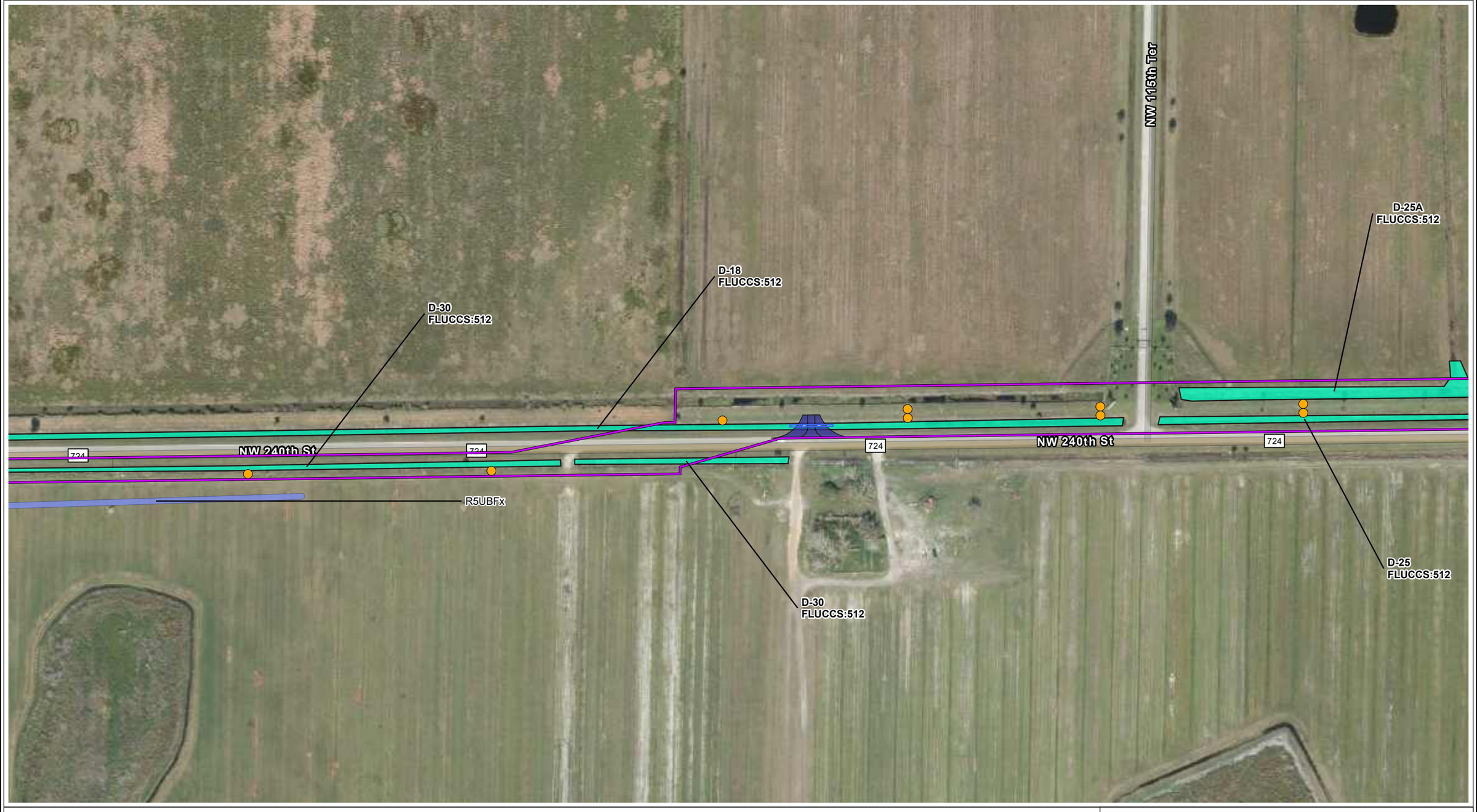
Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 18 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

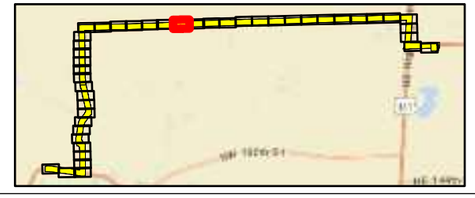
ECT



- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 19 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

NW 132nd Pkwy

D-19
FLUCCS:512

D-19
FLUCCS:512

D-30
FLUCCS:512

D-30
FLUCCS:512

D-18
FLUCCS:512

NW 240th St

724

724

NW 240th St

724

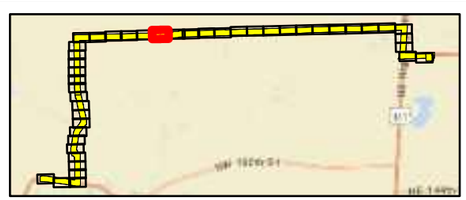
D-30
FLUCCS:512

R5UBFx

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 20 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

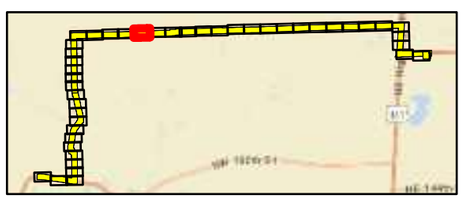
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 21 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

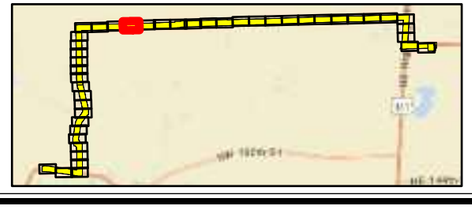
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 22 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

NW 242nd St

NW 242nd St

D-20
FLUCCS:512

D-38
FLUCCS:512

D-38
FLUCCS:512

NW 240th St

724

724

NW 240th St

724

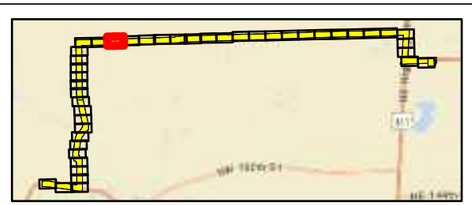
R5UBFx

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons

- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 23 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

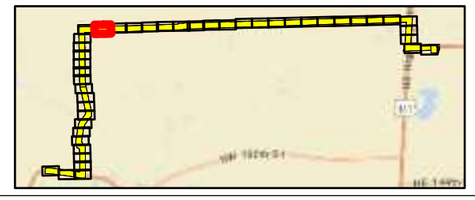
ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons

- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

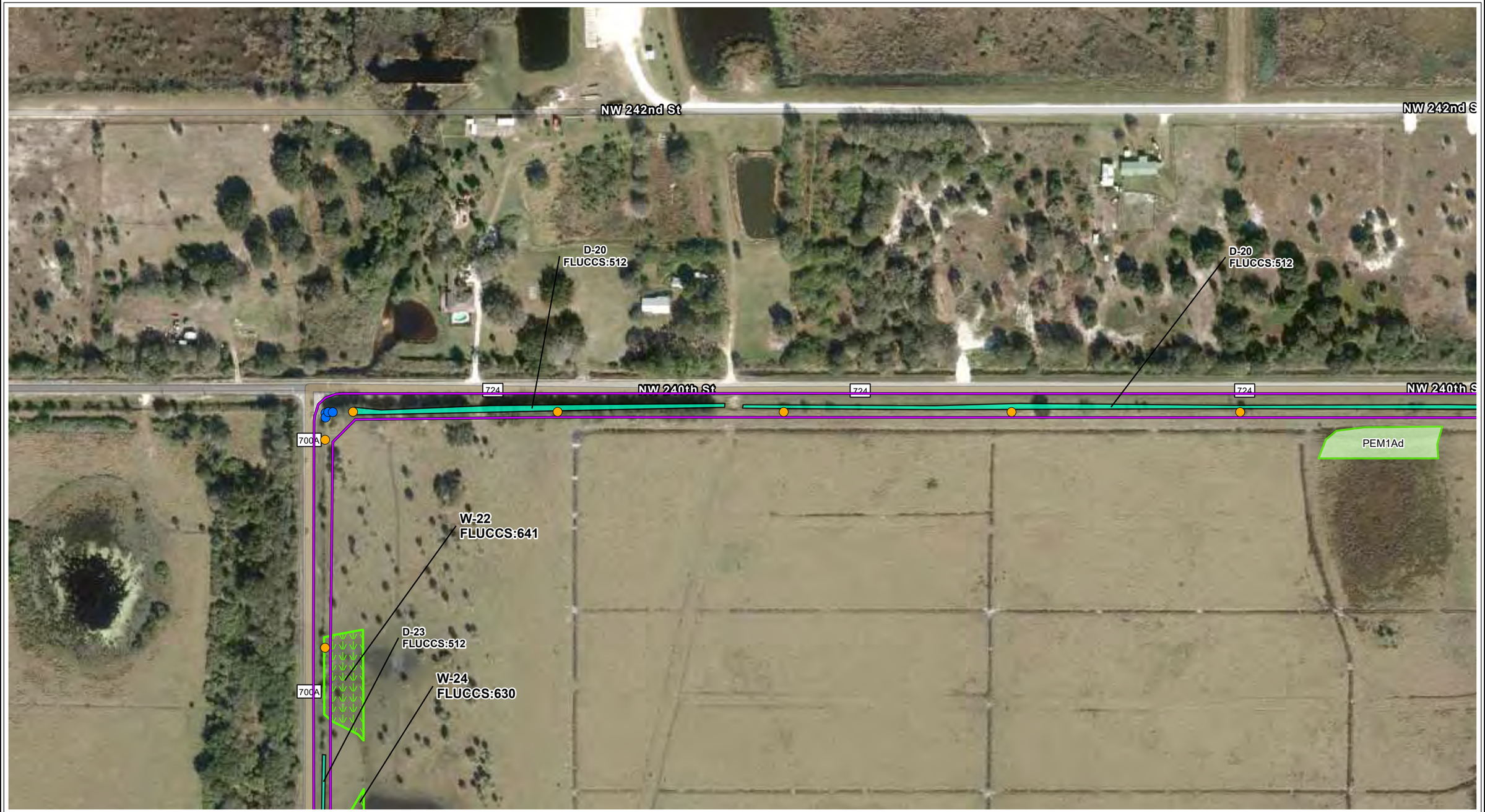
Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 24 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

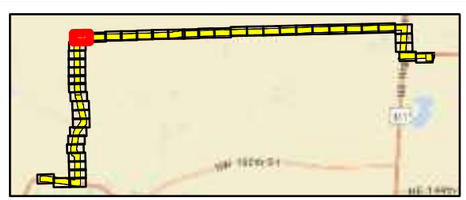
ECT



- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 25 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

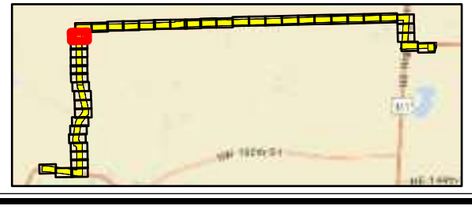
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 26 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

W-24
FLUCCS:630

D-25
FLUCCS:512

NW 176th Ave

Gore Branch

700A

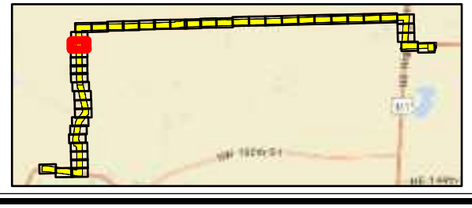
700A

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons

- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 27 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

700A

NW 176th Ave

700A

D-25
FLUCCS:512

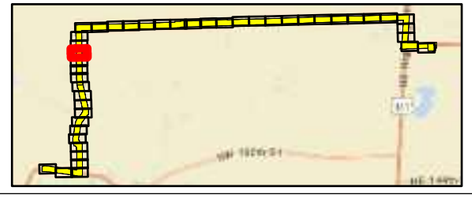
D-31
FLUCCS:512

D-31
FLUCCS:512

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400
Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 28 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

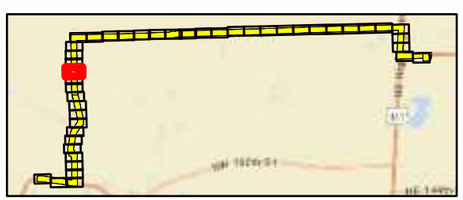
ECT

Structure
Guy Anchor
Substation
Sweatt-Basinger Project Footprint
Proposed Culvert
Proposed Aprons

Field Delineated Wetland
Field Delineated Surface Water

NWI

Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine



N

0 200 400
Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 29 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

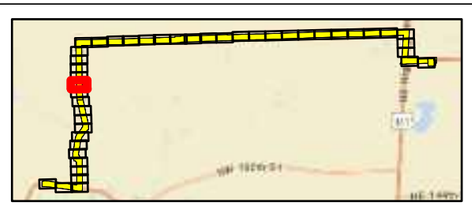
Okeechobee County, Florida
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 30 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

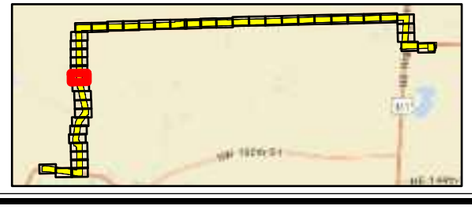
ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons

- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

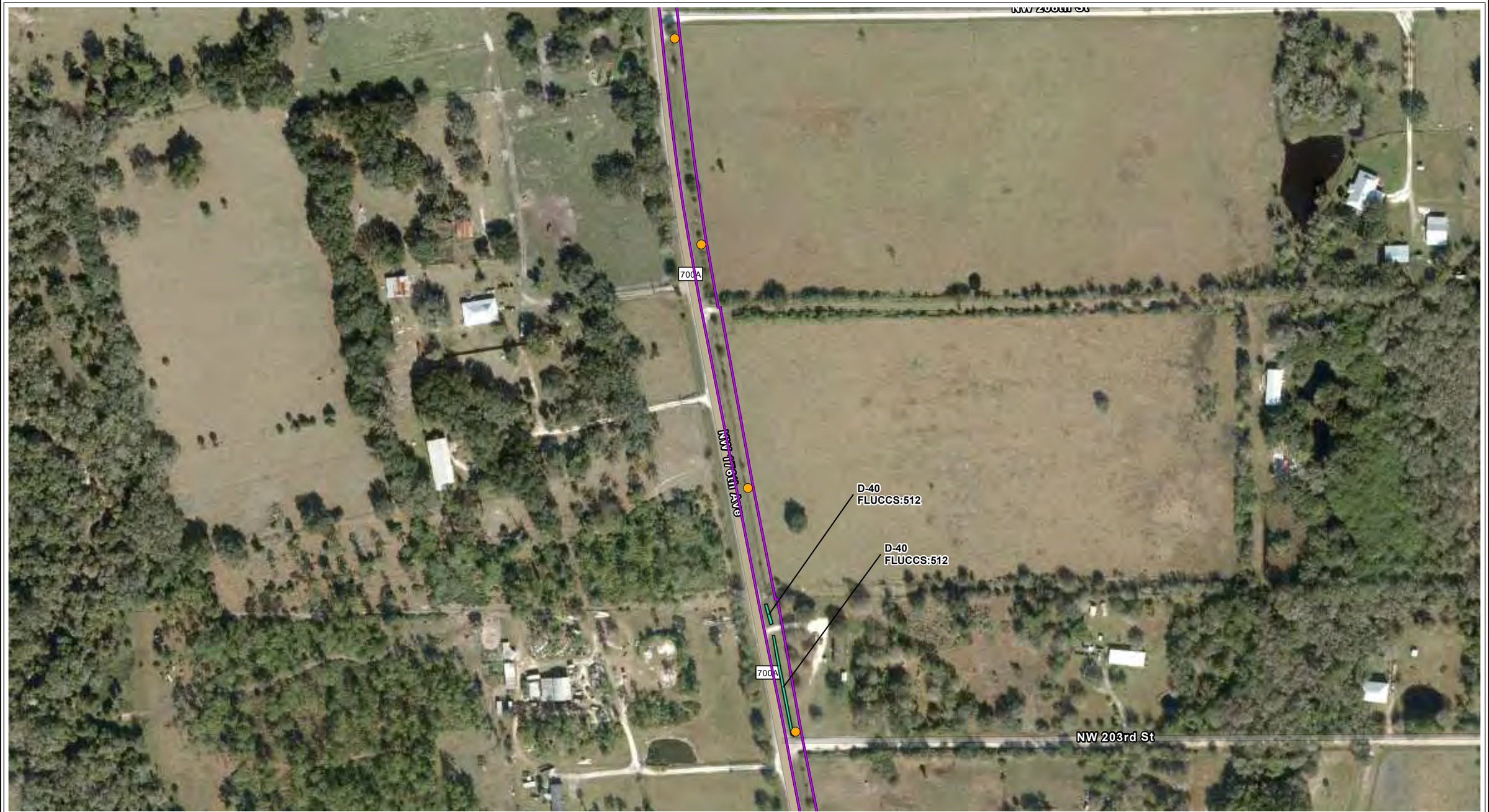
Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 31 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

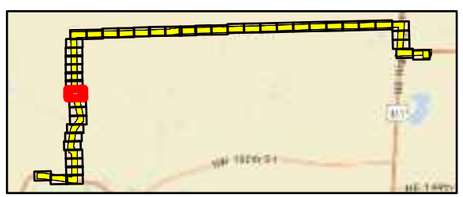


- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons

- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

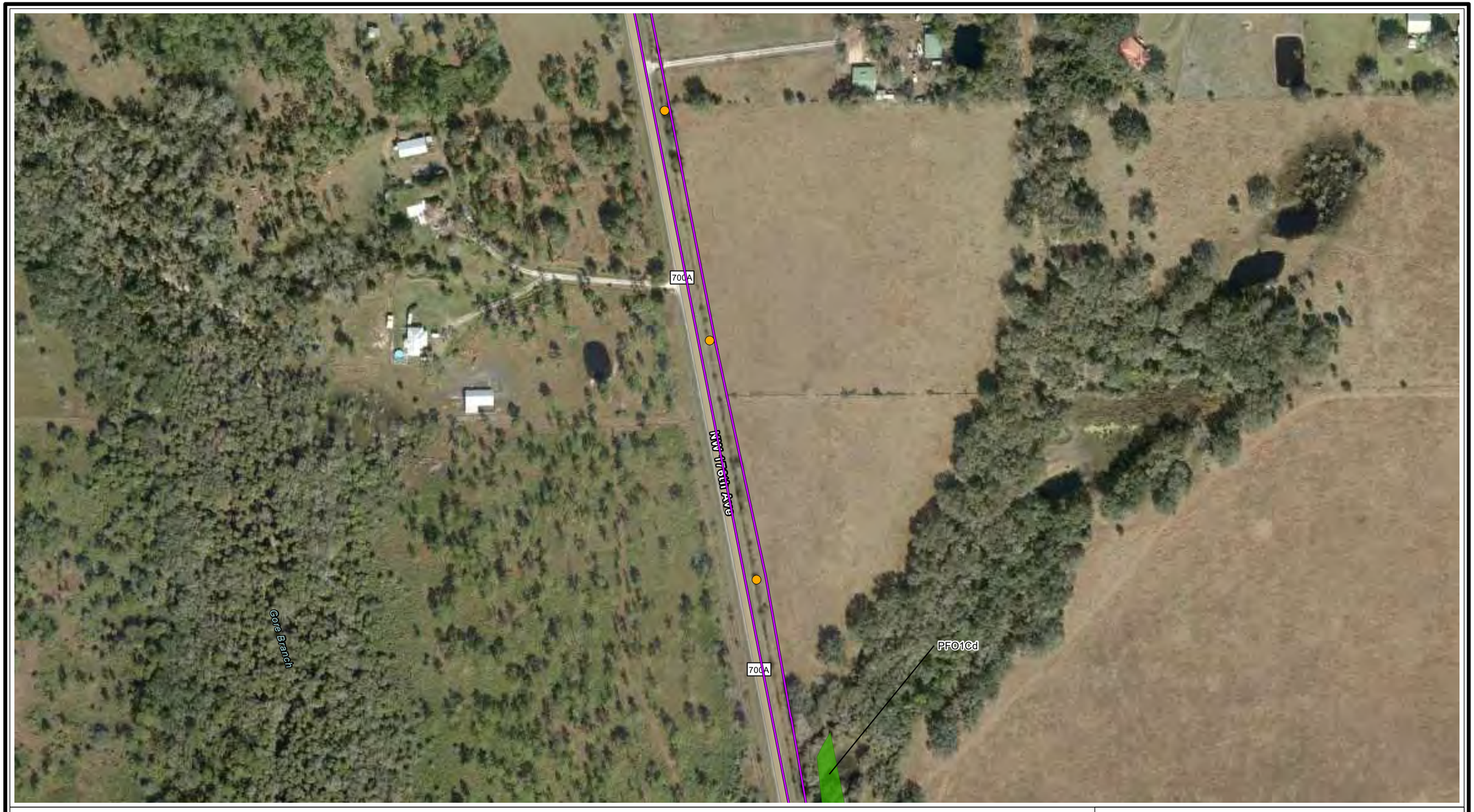
Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 32 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

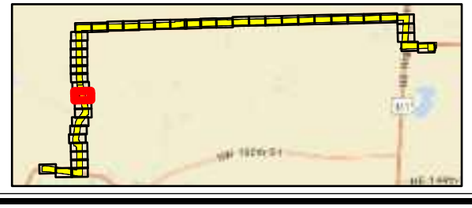
ECT



- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 33 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

PFO1Cd

R5UBH

700A

NW 110th Ave

Gore Branch

700A

D-32
FLUCCS:512

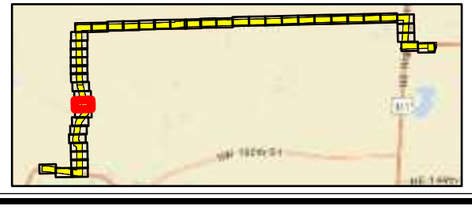
Gore Branch

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons

- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

0 200 400

Feet

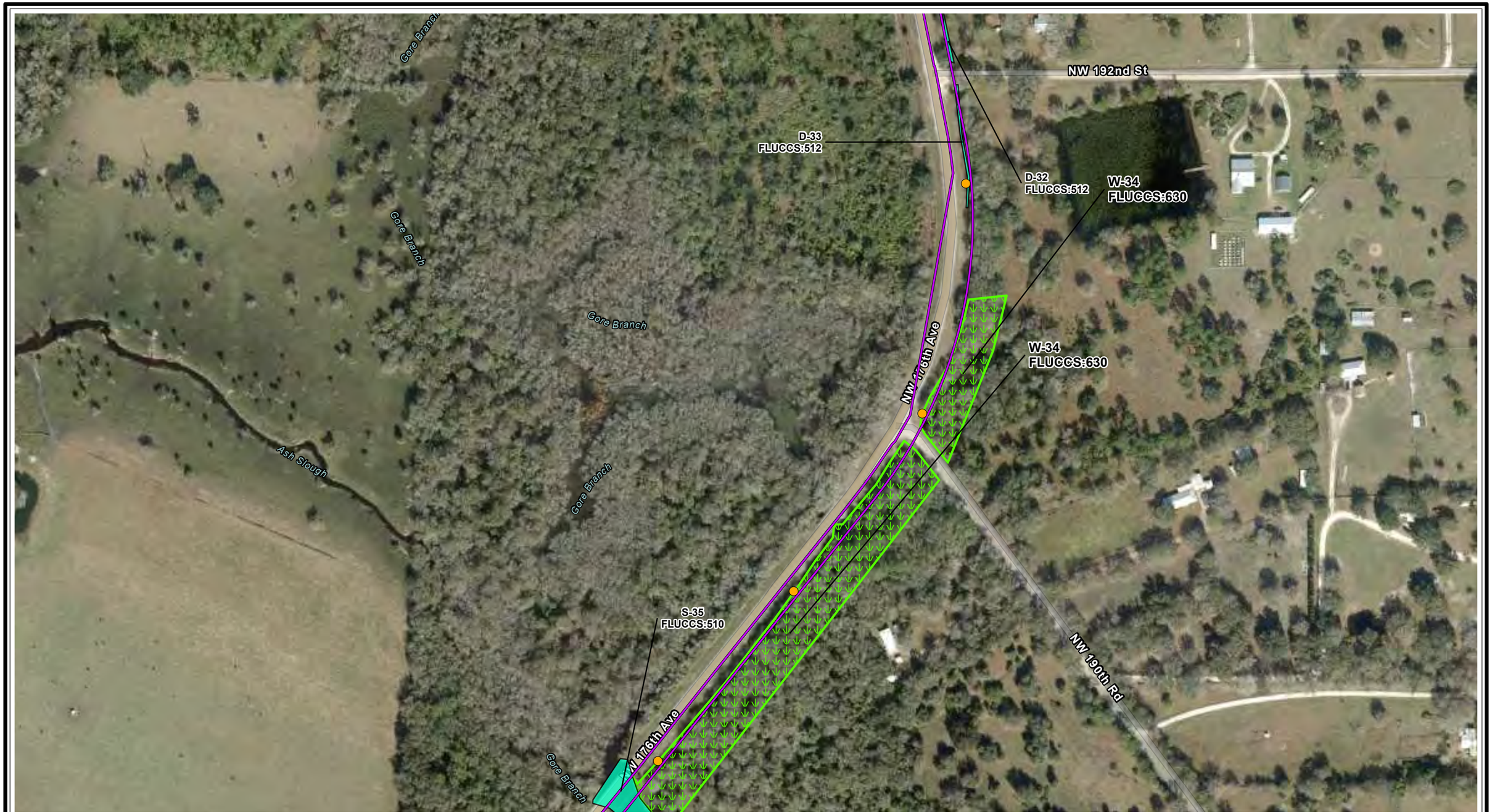
Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 34 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

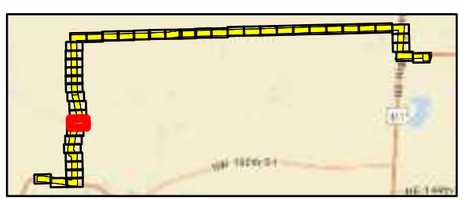
ECT



- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



N

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Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 35 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons

- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
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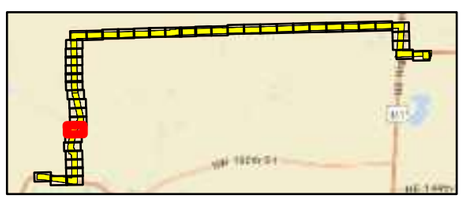
- Freshwater Pond
- Riverine



N

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Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 36 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
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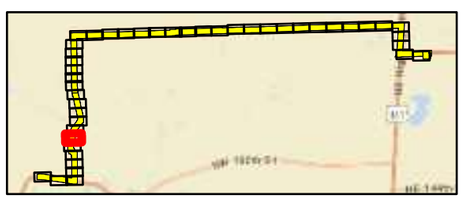
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



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Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 37 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

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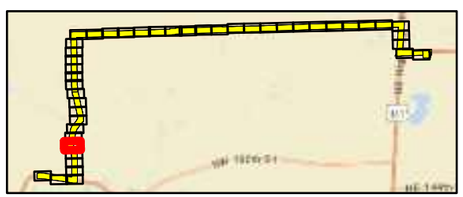

N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 38 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

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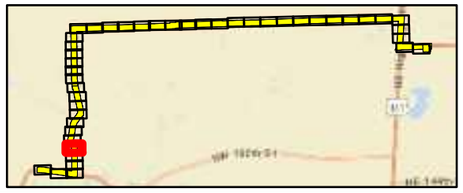
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



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Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 39 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

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- Sweatt-Basinger Project Footprint
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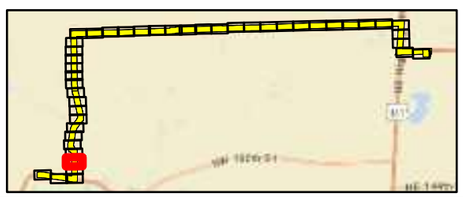

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0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 40 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
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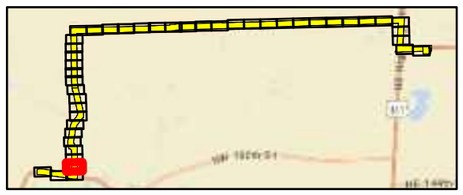
- Freshwater Pond
- Riverine



N

0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 41 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

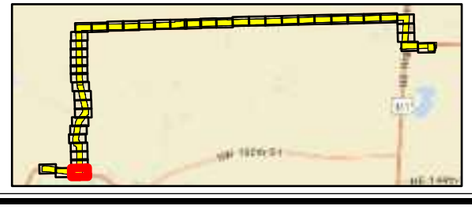
ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons

- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



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Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 42 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

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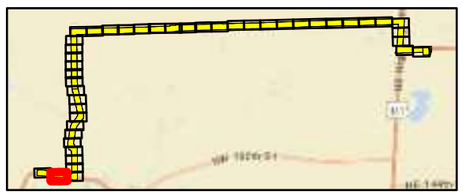
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



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0 200 400

Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 43 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

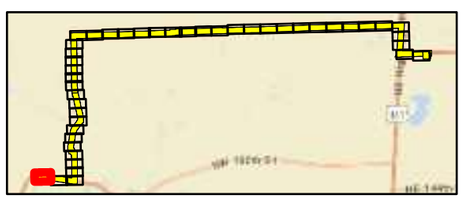
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Sweatt-Basinger Project Footprint
- Proposed Culvert
- Proposed Aprons
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine



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Feet

Sources: FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 8 - Page 44 of 44
Segment 1: Sweatt – Basinger
Wetlands & Surface Waters

Okeechobee County, Florida

Date: 3/10/2023

ECT

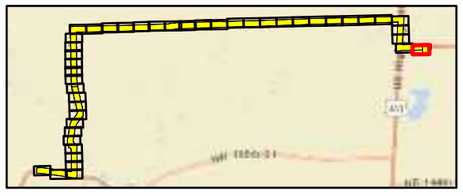
Attachment 9 – FLUCFCS Land Use/Land Cover Map

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
260	Other Open Lands	19.00
320	Shrub and Brushland	4.73
530	Reservoirs	0.04
610	Wetland Hardwood Forests	4.90
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

640
210
NE 224th St
68
250
250
210
NE 224th St
68
SWEATT
250

- Structure
- Guy Anchor
- Substation
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 1 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
260	Other Open Lands	19.00
320	Shrub and Brushland	4.73
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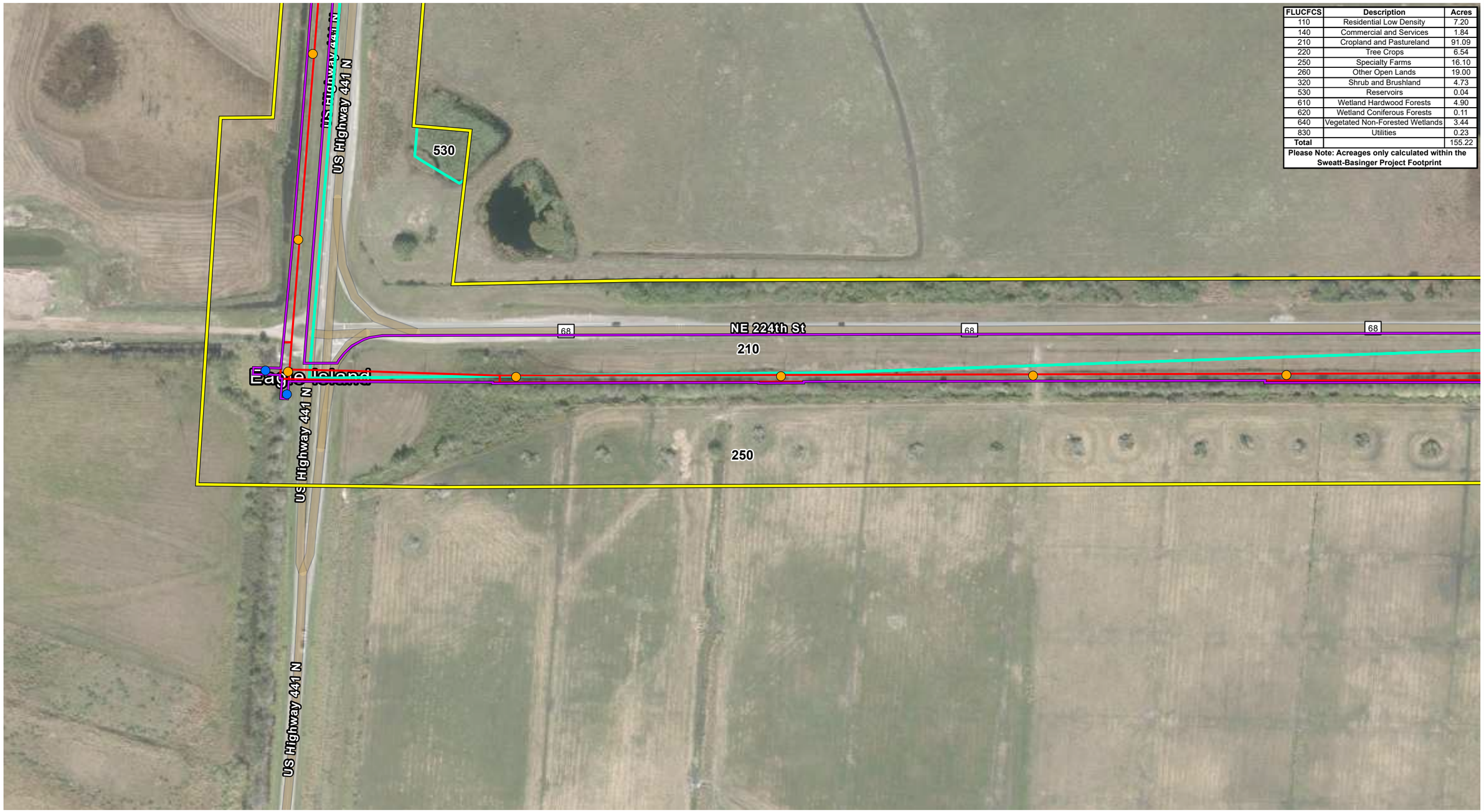
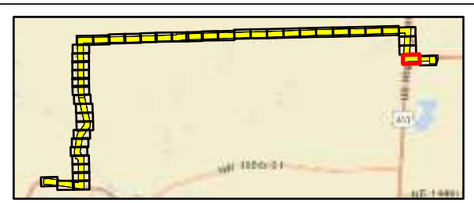
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Guy Anchor
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

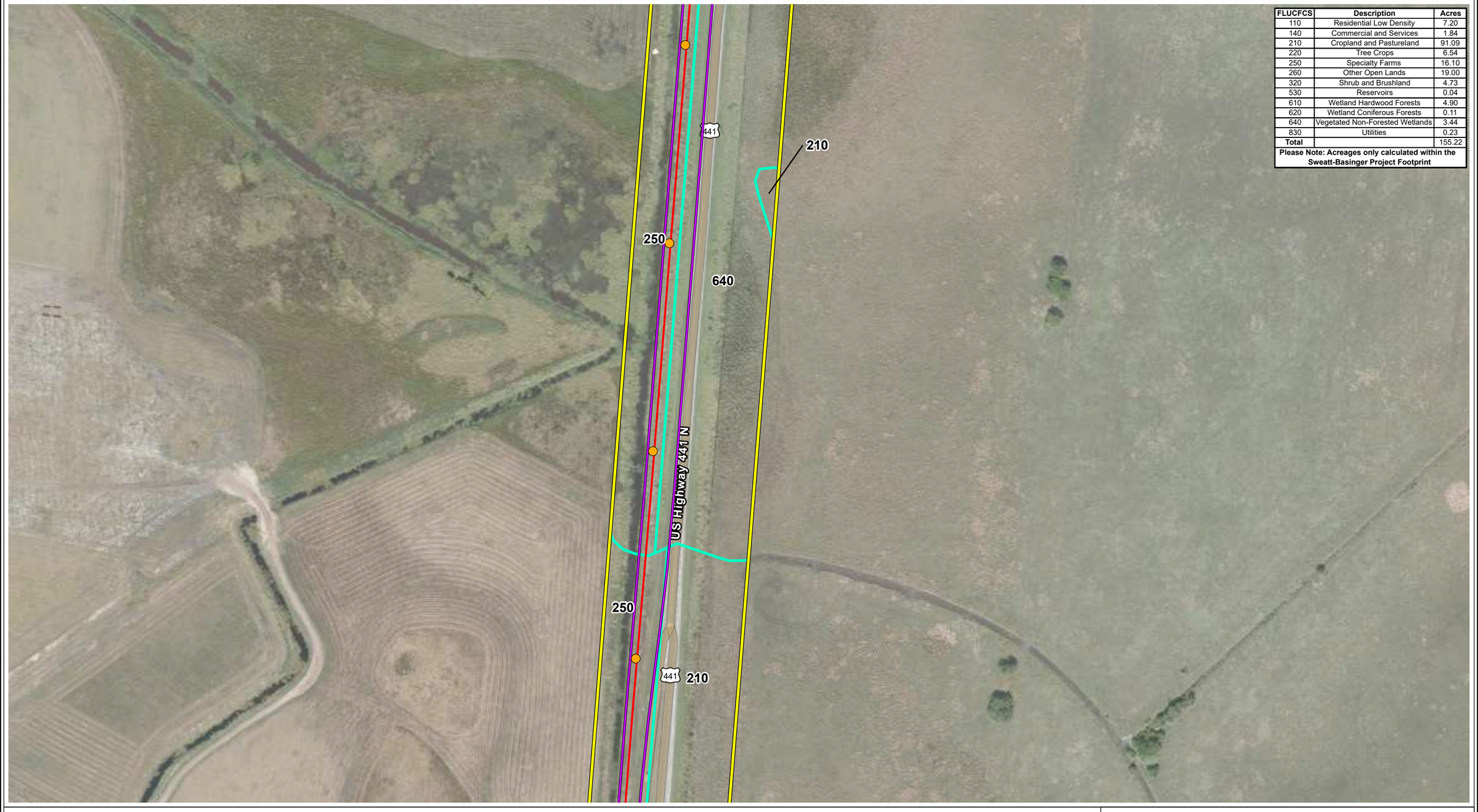
Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 2 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT



FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
260	Other Open Lands	19.00
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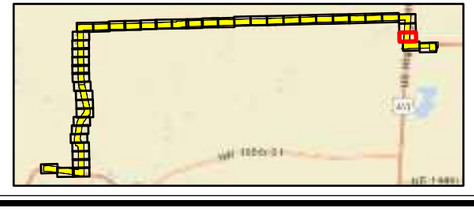
Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 3 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
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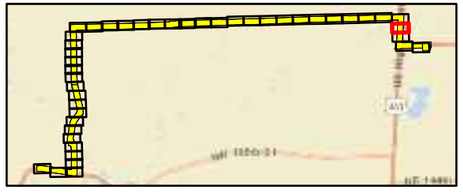
- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 4 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
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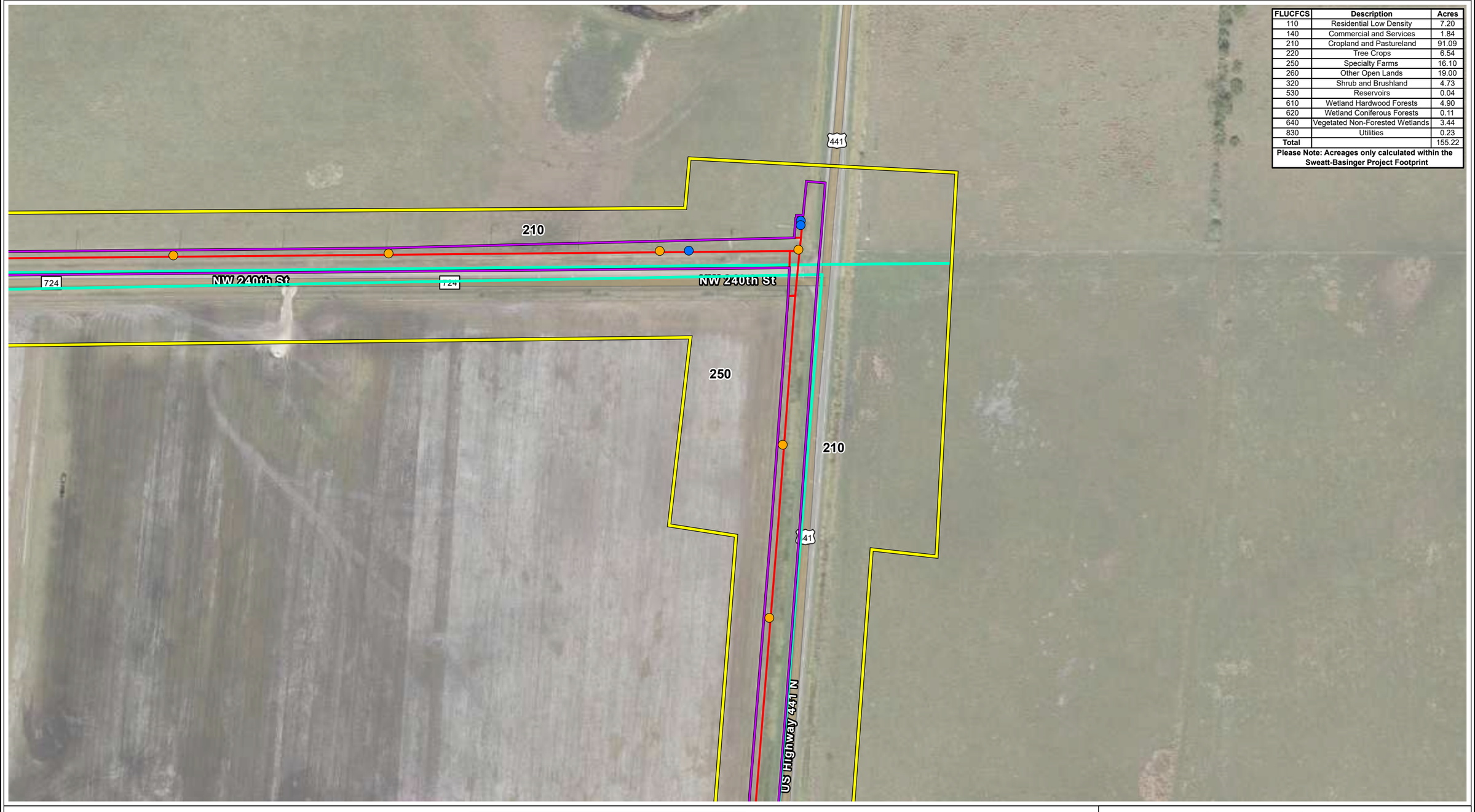
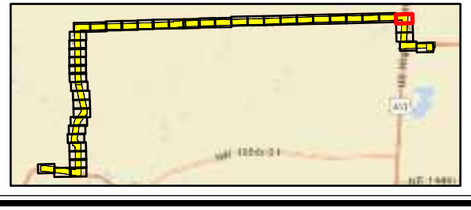
Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Guy Anchor
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 5 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
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620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

210

210

NW 240th St

724

724

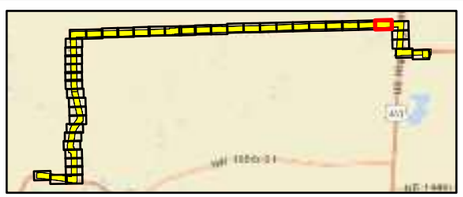
NW 240th St

724

250

250

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 6 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
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Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 7 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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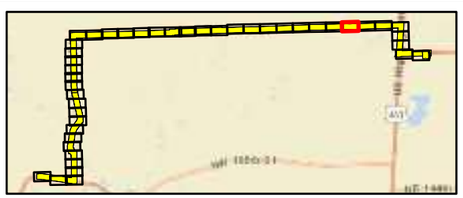
Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 8 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
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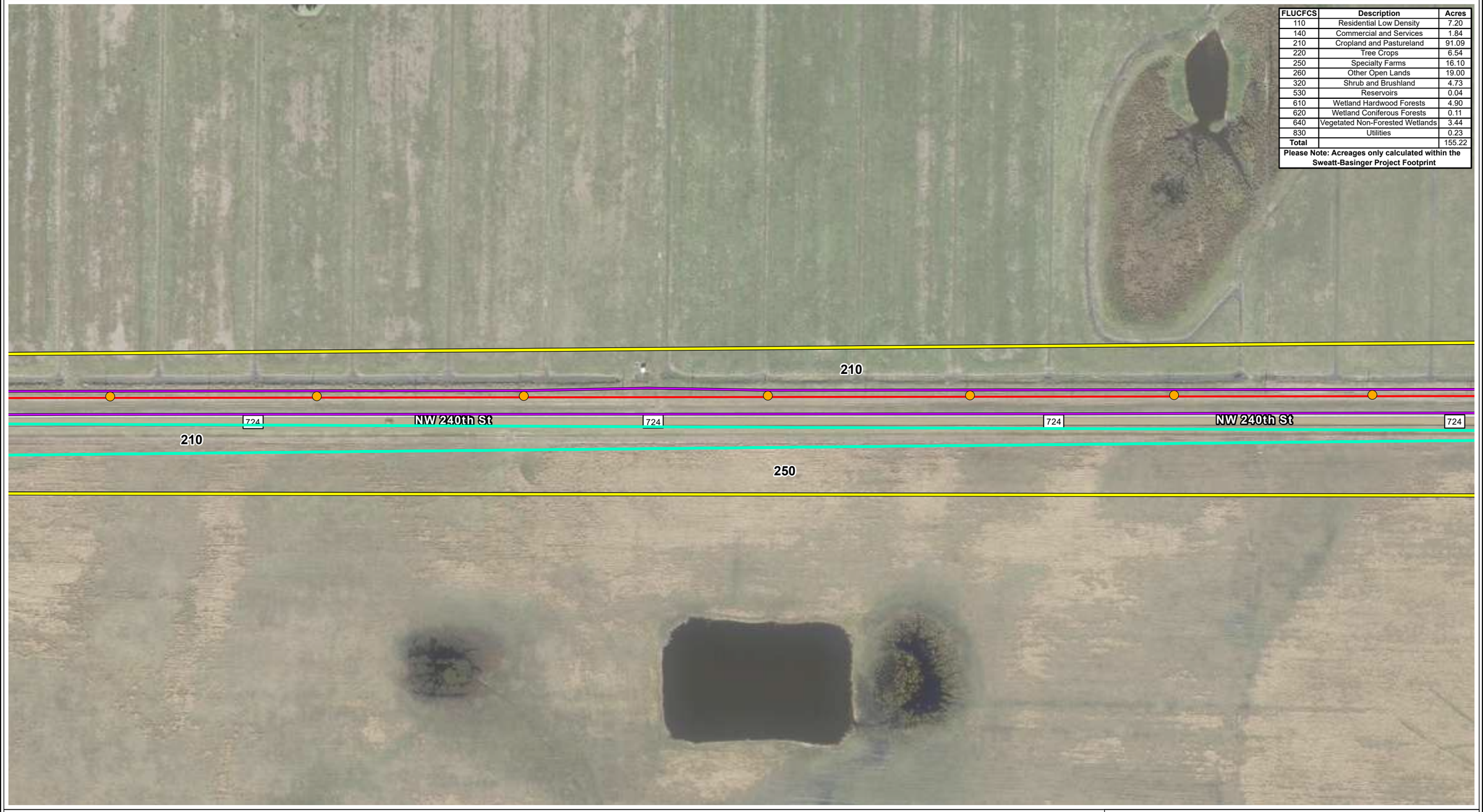
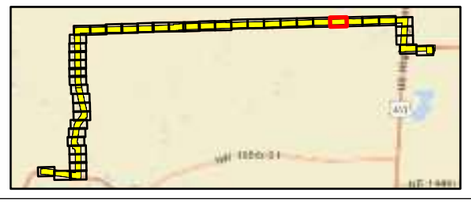


- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 9 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
260	Other Open Lands	19.00
320	Shrub and Brushland	4.73
530	Reservoirs	0.04
610	Wetland Hardwood Forests	4.90
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

NW 32nd Ave

NW 240th St

220

210

210

210

210

250

724

724

724

724

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 10 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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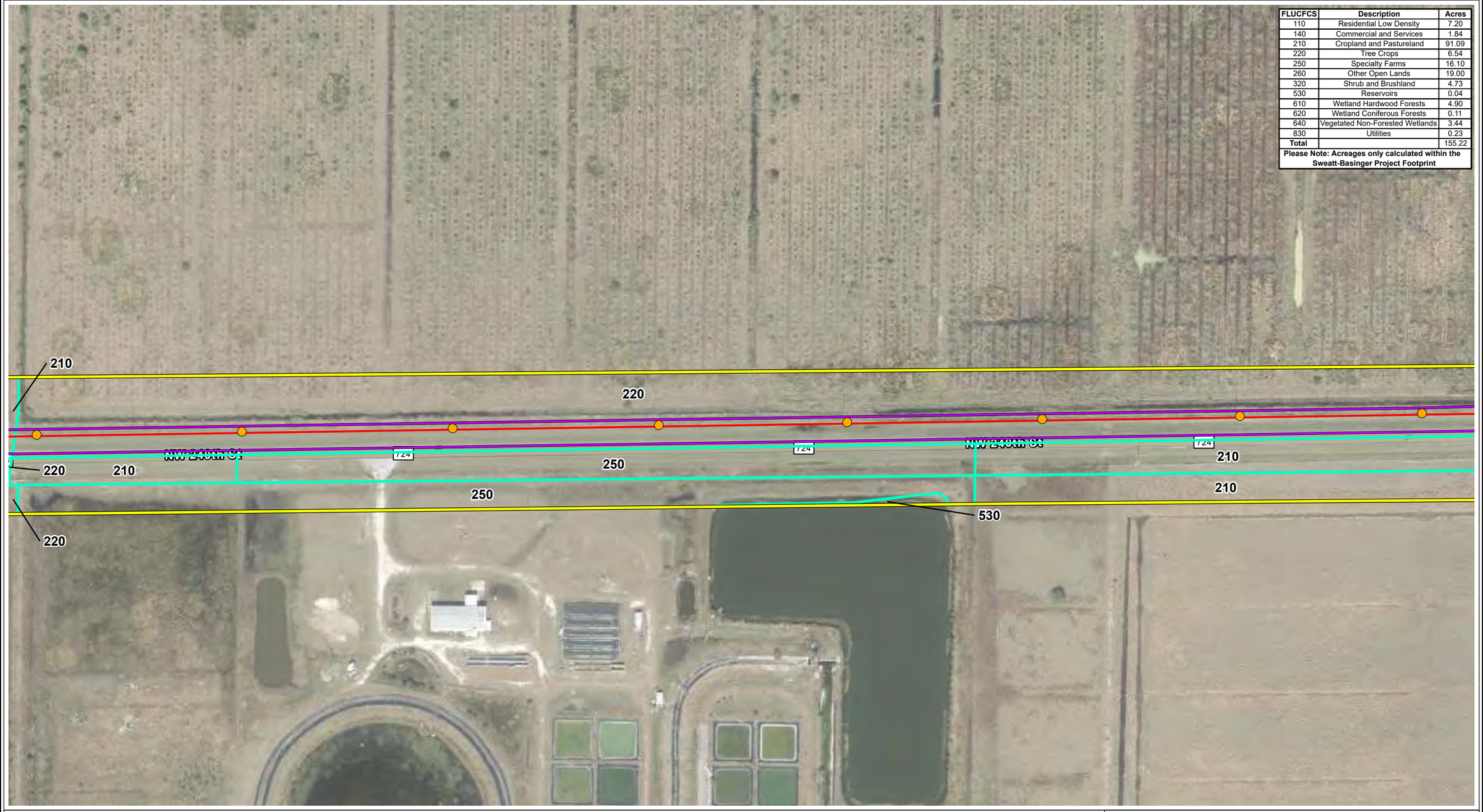
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 11 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
260	Other Open Lands	19.00
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620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 12 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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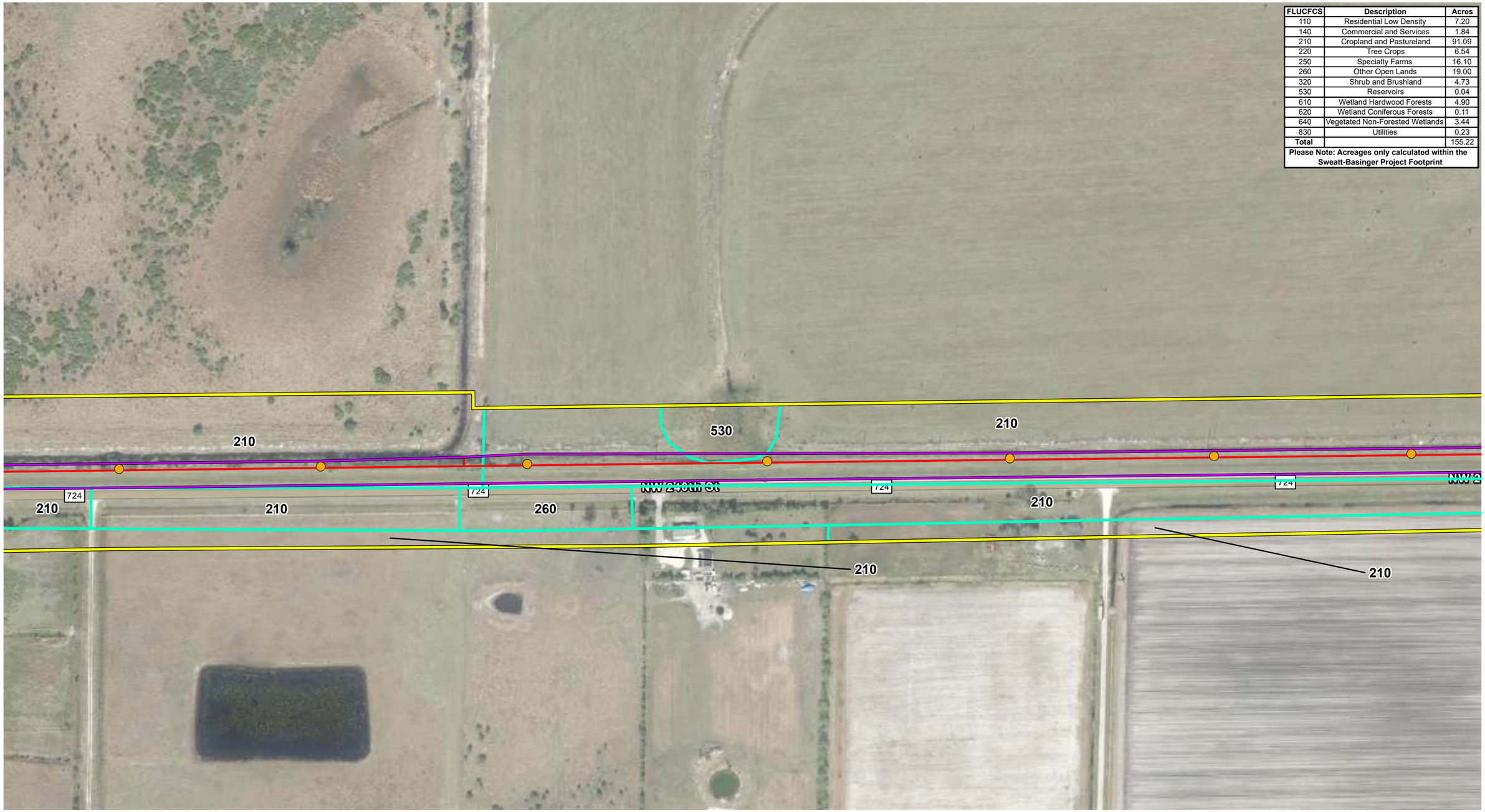
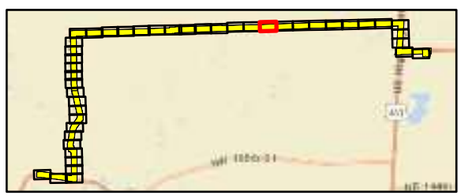
320	Shrub and Brushland	4.73
530	Reservoirs	0.04
610	Wetland Hardwood Forests	4.90
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 13 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
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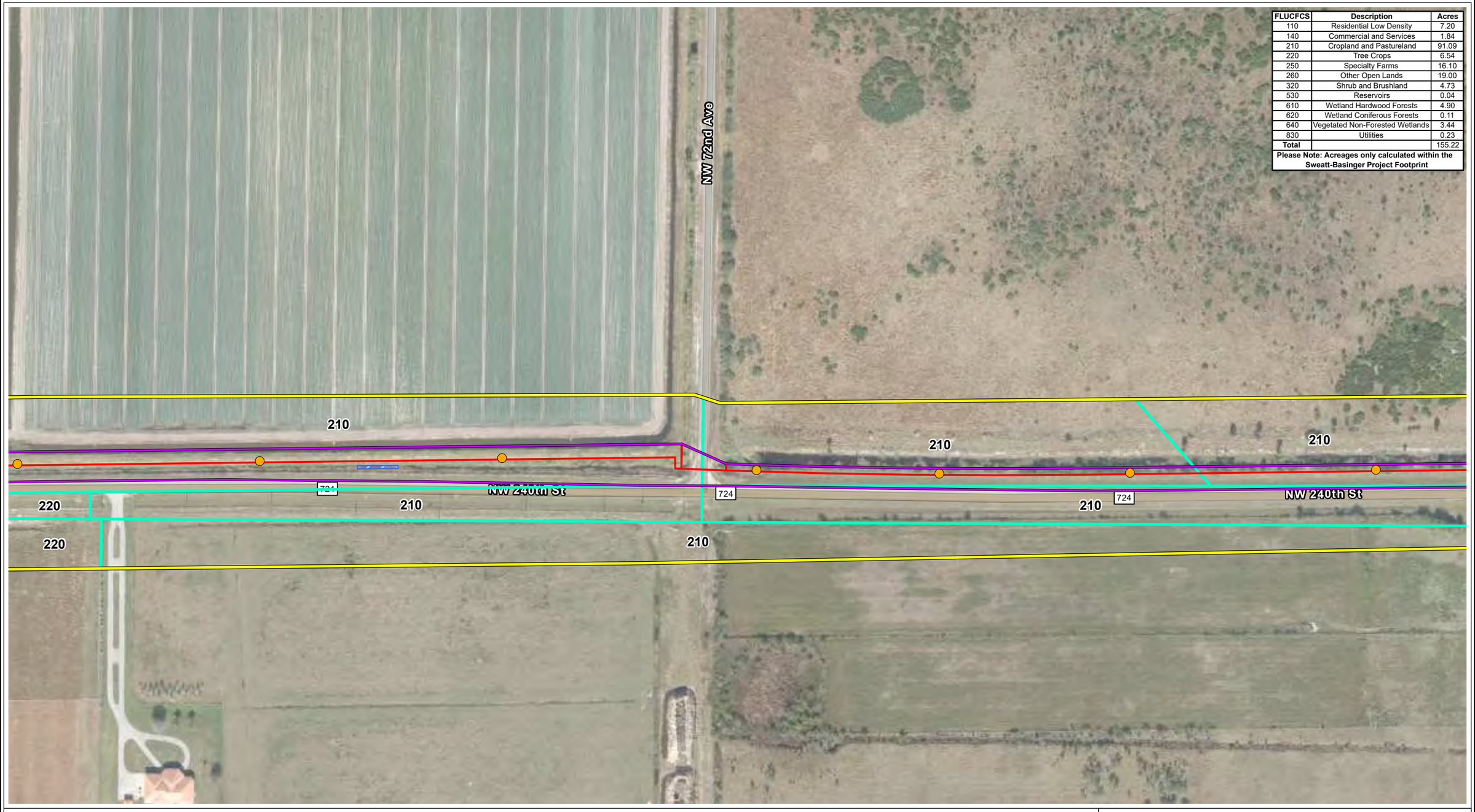

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 14 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
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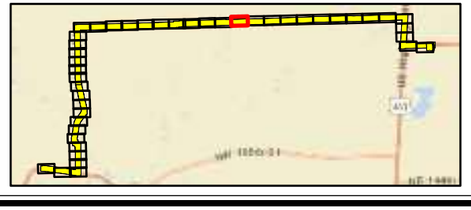
Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 15 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
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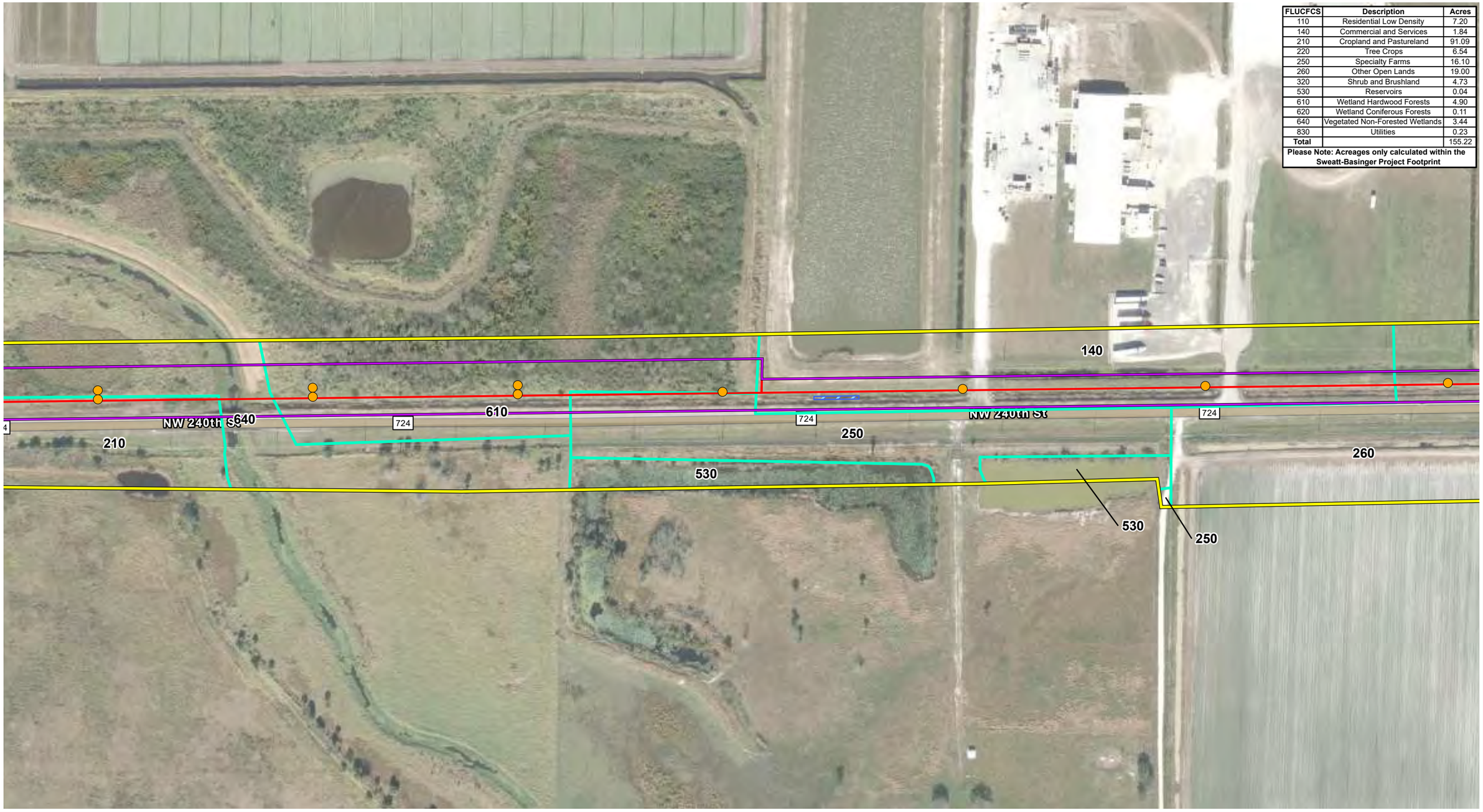
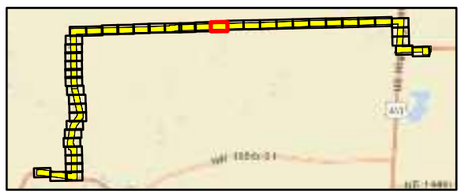
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 16 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
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320	Shrub and Brushland	4.73
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610	Wetland Hardwood Forests	4.90
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830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 17 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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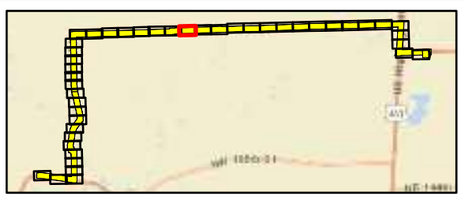
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 18 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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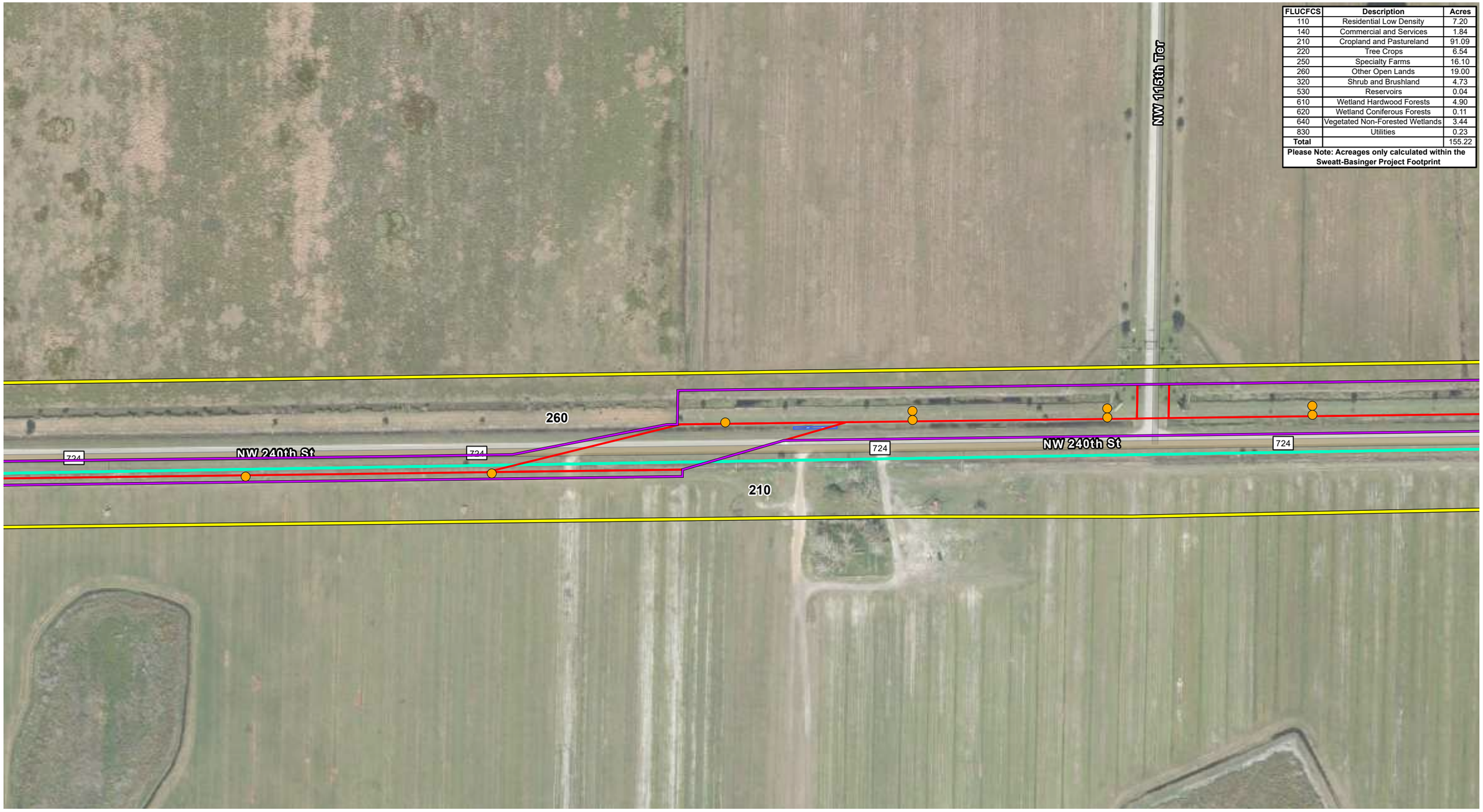
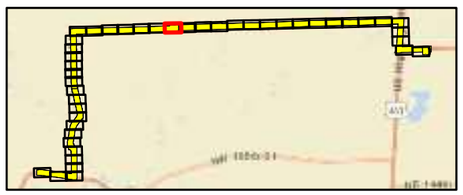
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 19 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
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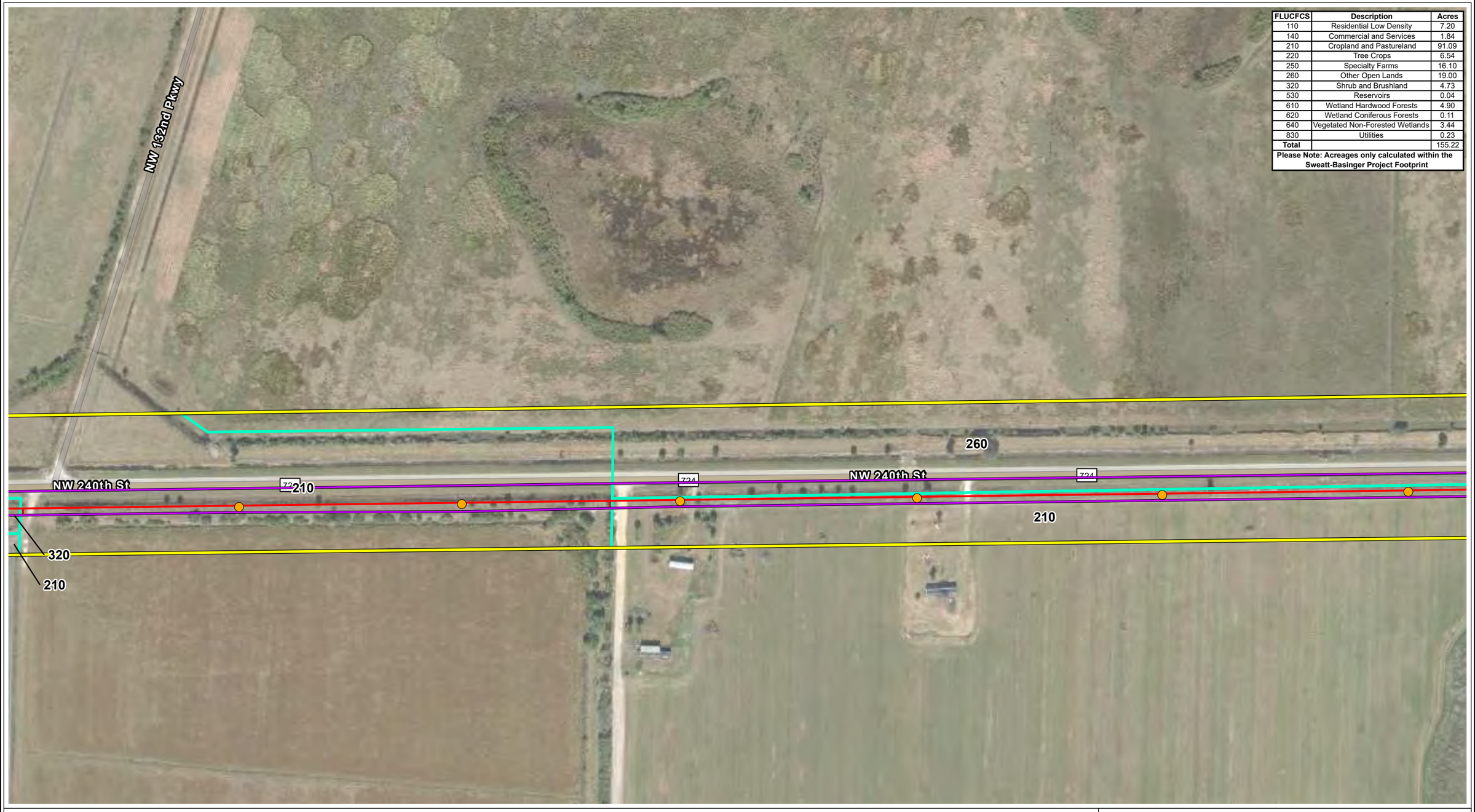
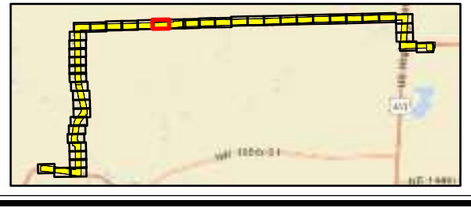
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 20 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
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220	Tree Crops	6.54
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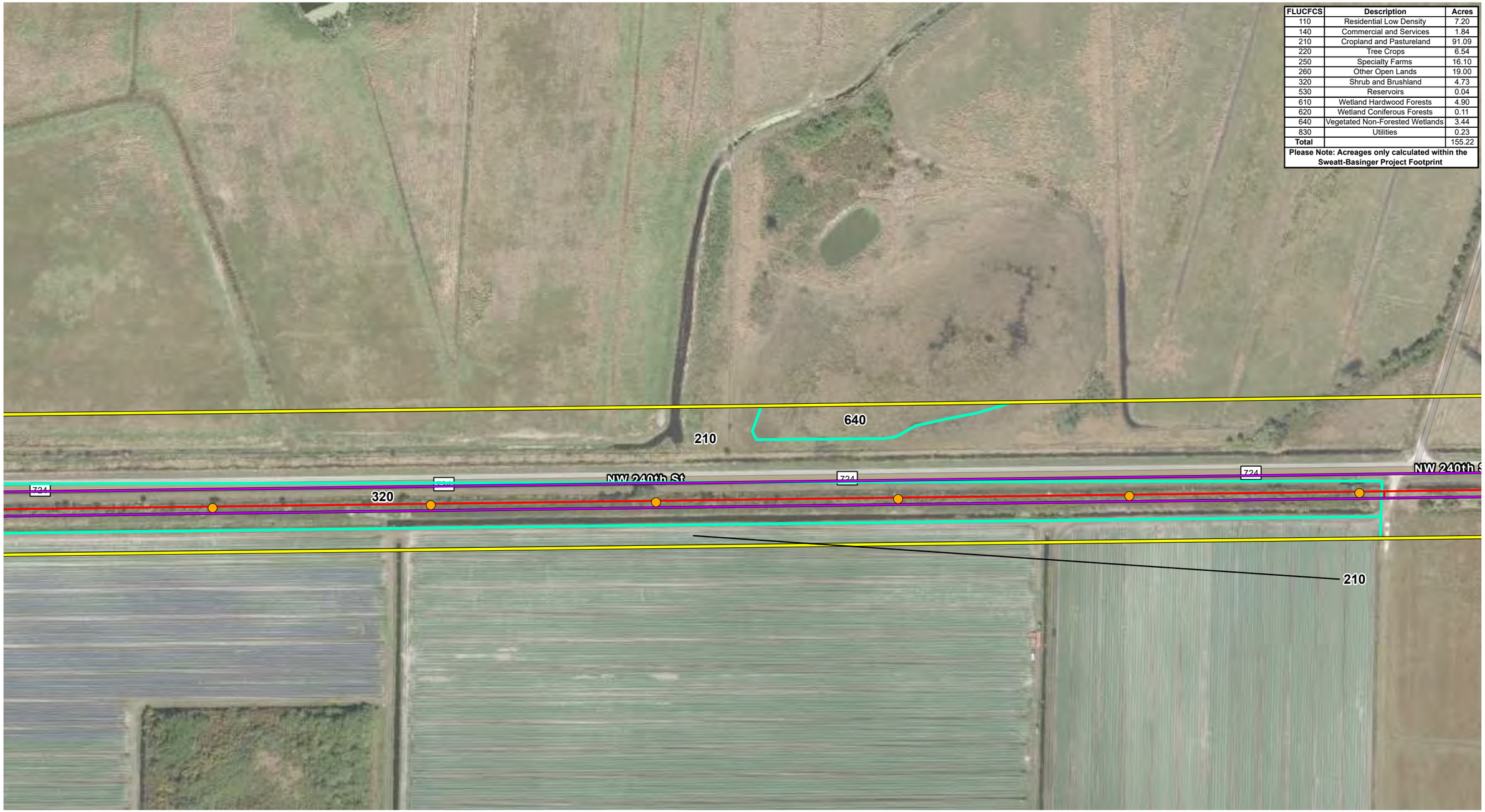
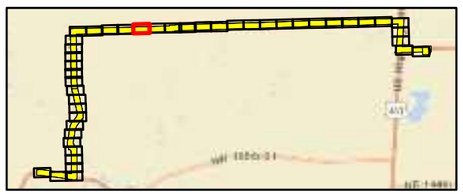
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 21 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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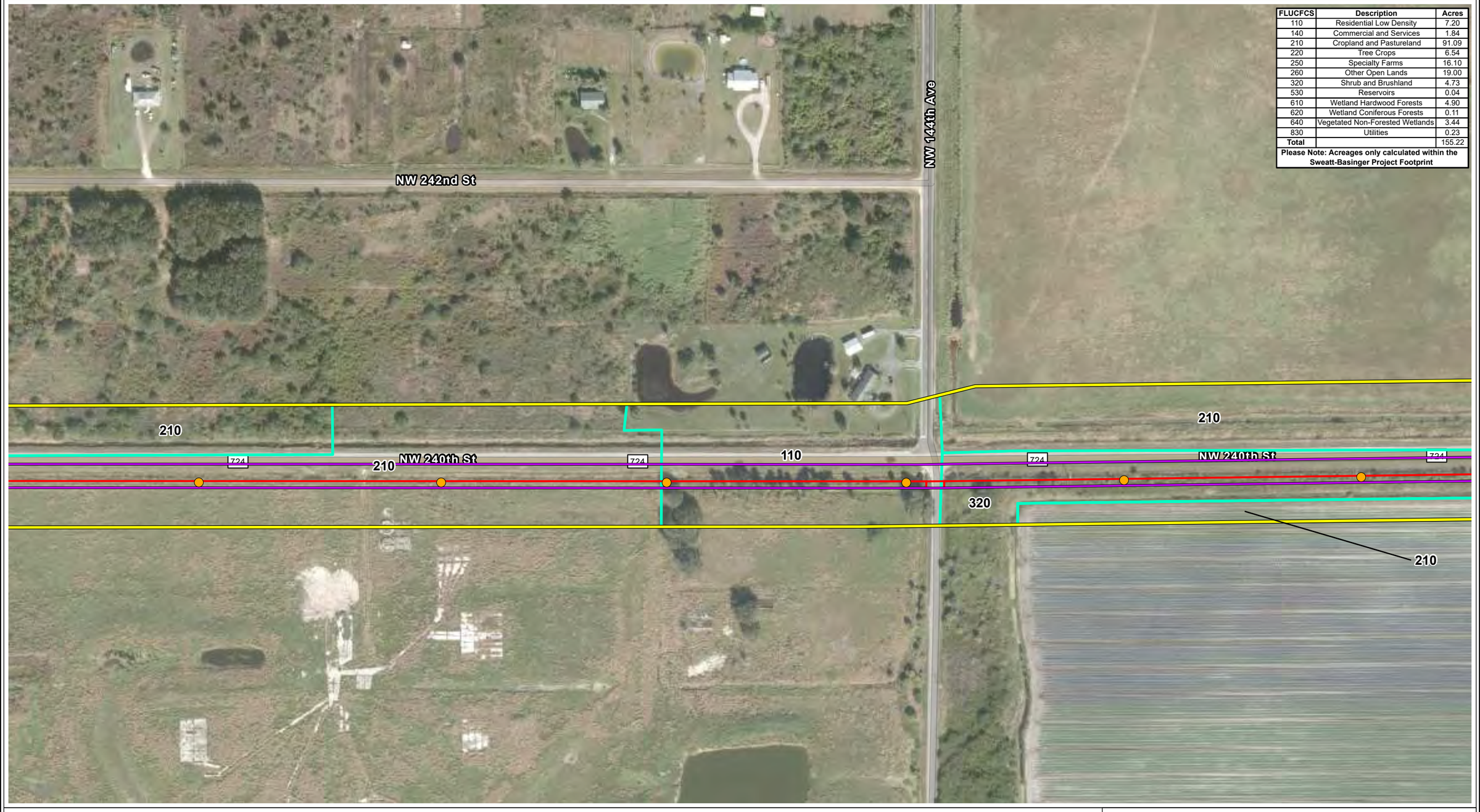
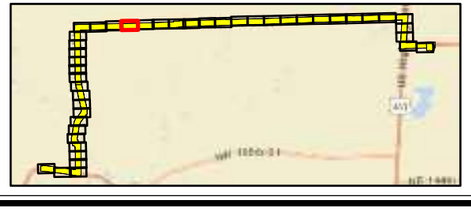
Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 22 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
260	Other Open Lands	19.00
320	Shrub and Brushland	4.73
530	Reservoirs	0.04
610	Wetland Hardwood Forests	4.90
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

NW 242nd St

NW 242nd St

320

110

110

210

210

NW 240th St

NW 240th St

724

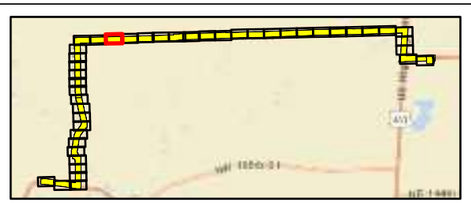
724

724

724

210

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 23 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

nd St
NW 242nd St
NW 168th Ave
320
310
320
724
724
724
724
210
610

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 24 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
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320	Shrub and Brushland	4.73
530	Reservoirs	0.04
610	Wetland Hardwood Forests	4.90
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

NW 242nd St

NW 240th St

724

724

724

700A

700A

700A

310

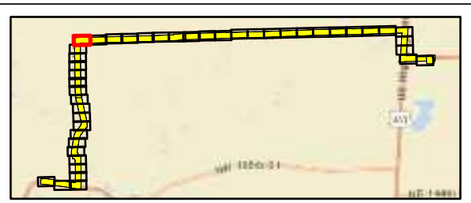
640

640

640

610

- Structure
- Guy Anchor
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 25 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

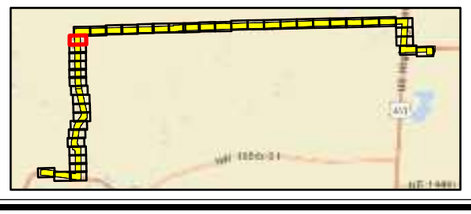
Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
260	Other Open Lands	19.00
320	Shrub and Brushland	4.73
530	Reservoirs	0.04
610	Wetland Hardwood Forests	4.90
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 26 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
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610	Wetland Hardwood Forests	4.90
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

610

NW 176th Ave

Gore Branch

700A

210

700A

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 27 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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- Structure
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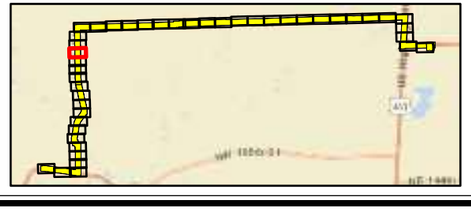
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 28 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
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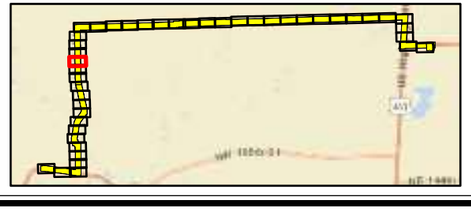
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 29 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
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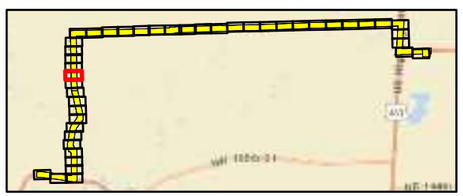
- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 30 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
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830	Utilities	0.23
Total		155.22

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- Structure
- Sweatt – Whidden Certified Corridor
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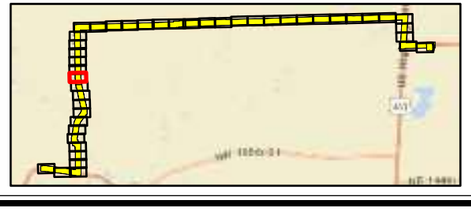
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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0 200 400

Feet

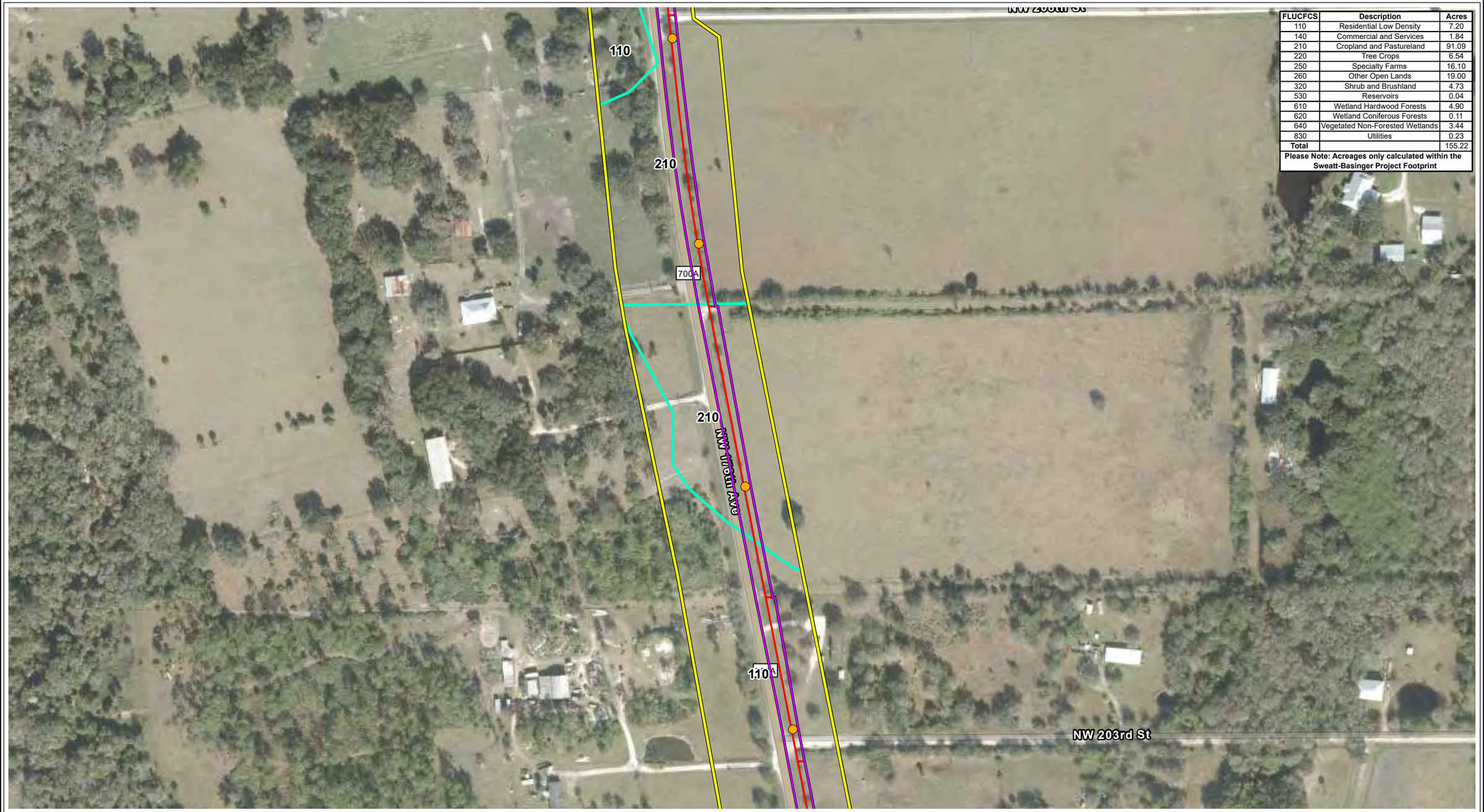
Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 31 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT



FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
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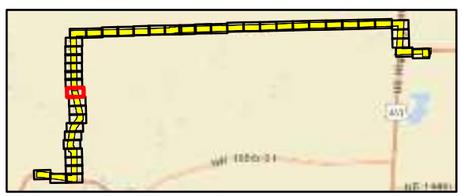
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 32 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
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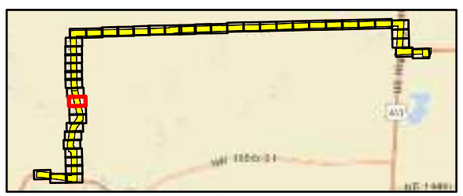
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 33 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
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830	Utilities	0.23
Total		155.22

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- Structure
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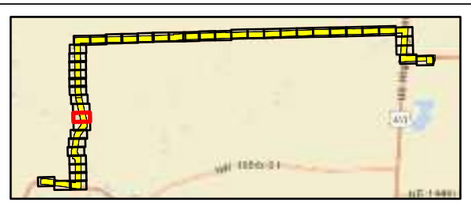
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 34 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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320	Shrub and Brushland	4.73
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620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

110
NW 192nd St
210
610
Gore Branch
Ash Slough
NW 190th Ave
NW 176th Ave
NW 190th Rd
620
210

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400
Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 35 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida
Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
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- Structure
- Sweatt – Whidden Certified Corridor
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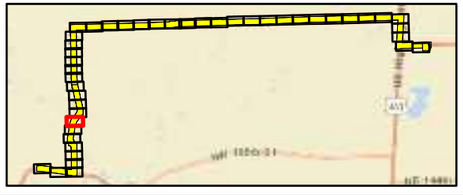
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 36 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
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- Structure
- Sweatt – Whidden Certified Corridor
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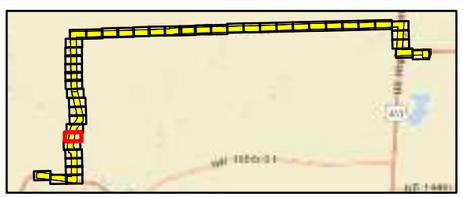

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 37 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
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- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 38 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
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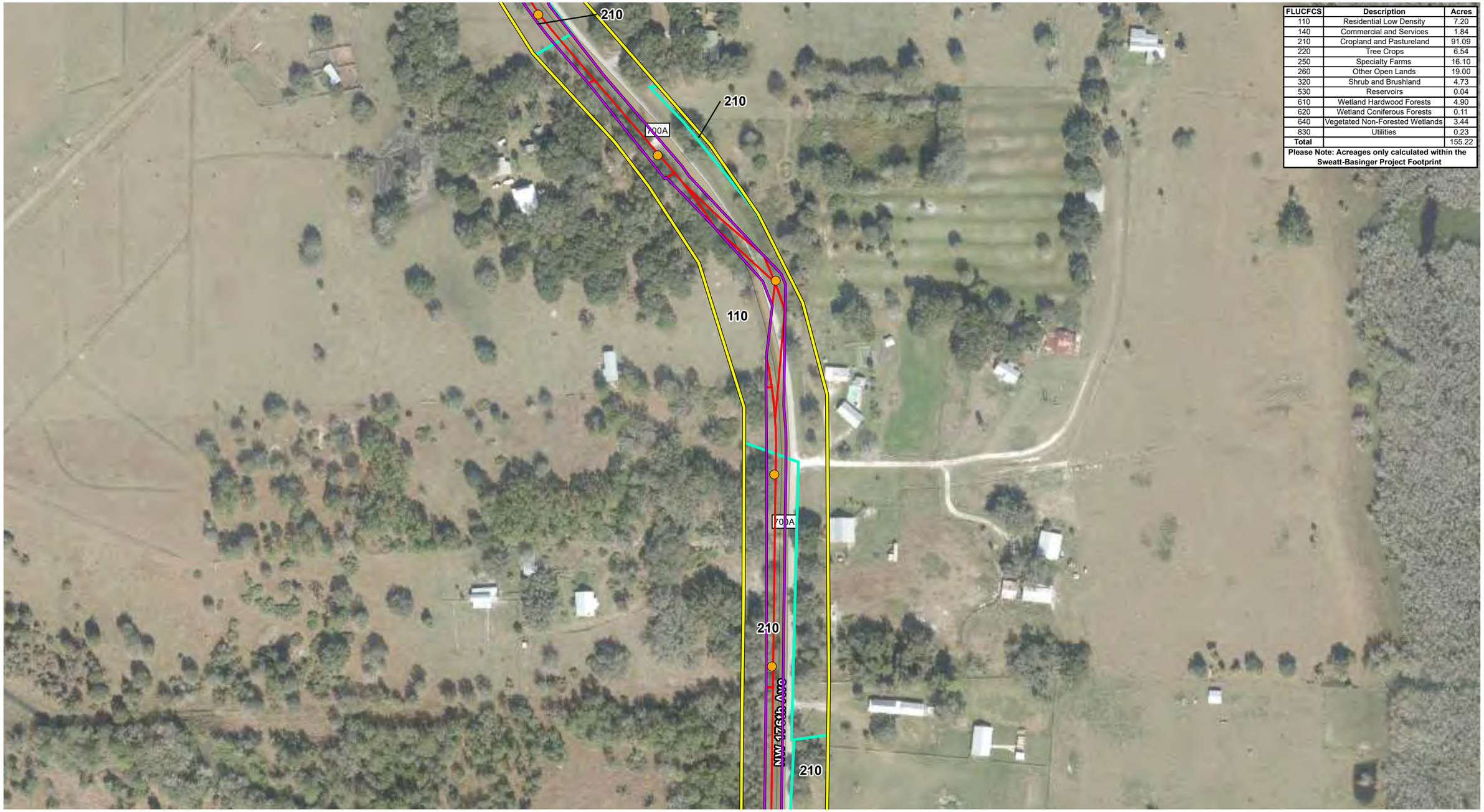

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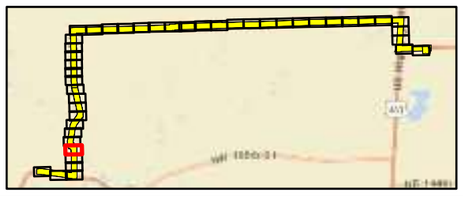

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0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 39 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
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- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert

N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 40 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
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- Land Use/Land Cover
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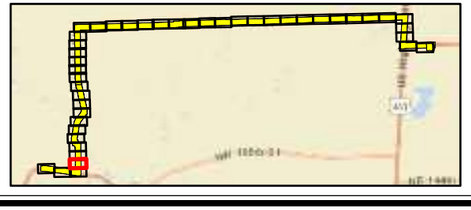
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

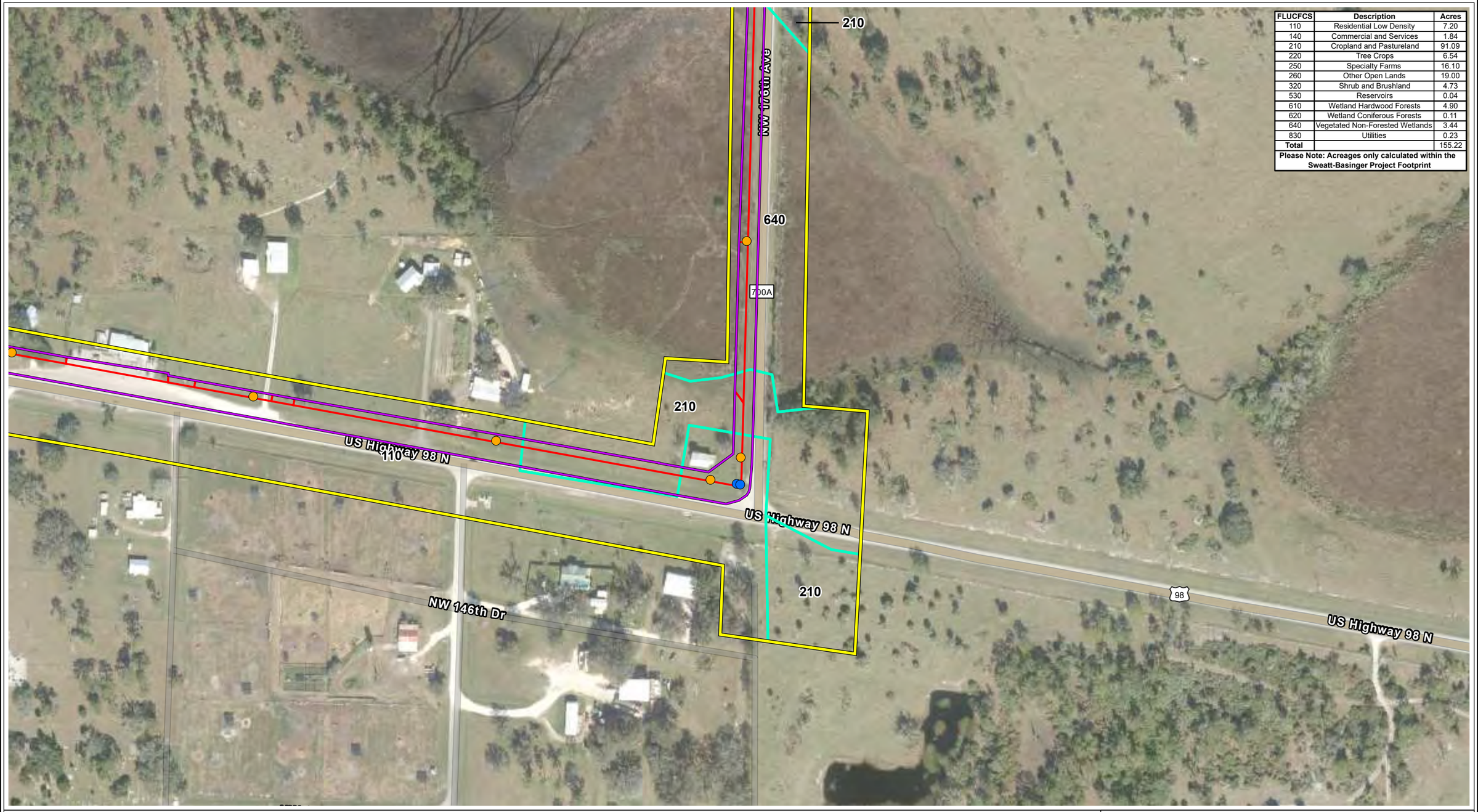
Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 41 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT



FLUCFCS	Description	Acres
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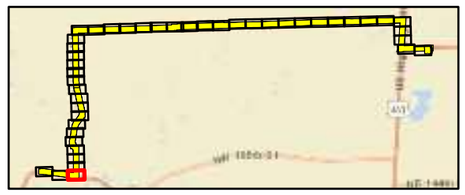
- Structure
- Guy Anchor
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



N

0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 42 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

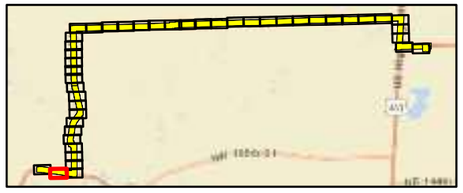
Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
110	Residential Low Density	7.20
140	Commercial and Services	1.84
210	Cropland and Pastureland	91.09
220	Tree Crops	6.54
250	Specialty Farms	16.10
260	Other Open Lands	19.00
320	Shrub and Brushland	4.73
530	Reservoirs	0.04
610	Wetland Hardwood Forests	4.90
620	Wetland Coniferous Forests	0.11
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint

- Structure
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 43 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

FLUCFCS	Description	Acres
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530	Reservoirs	0.04
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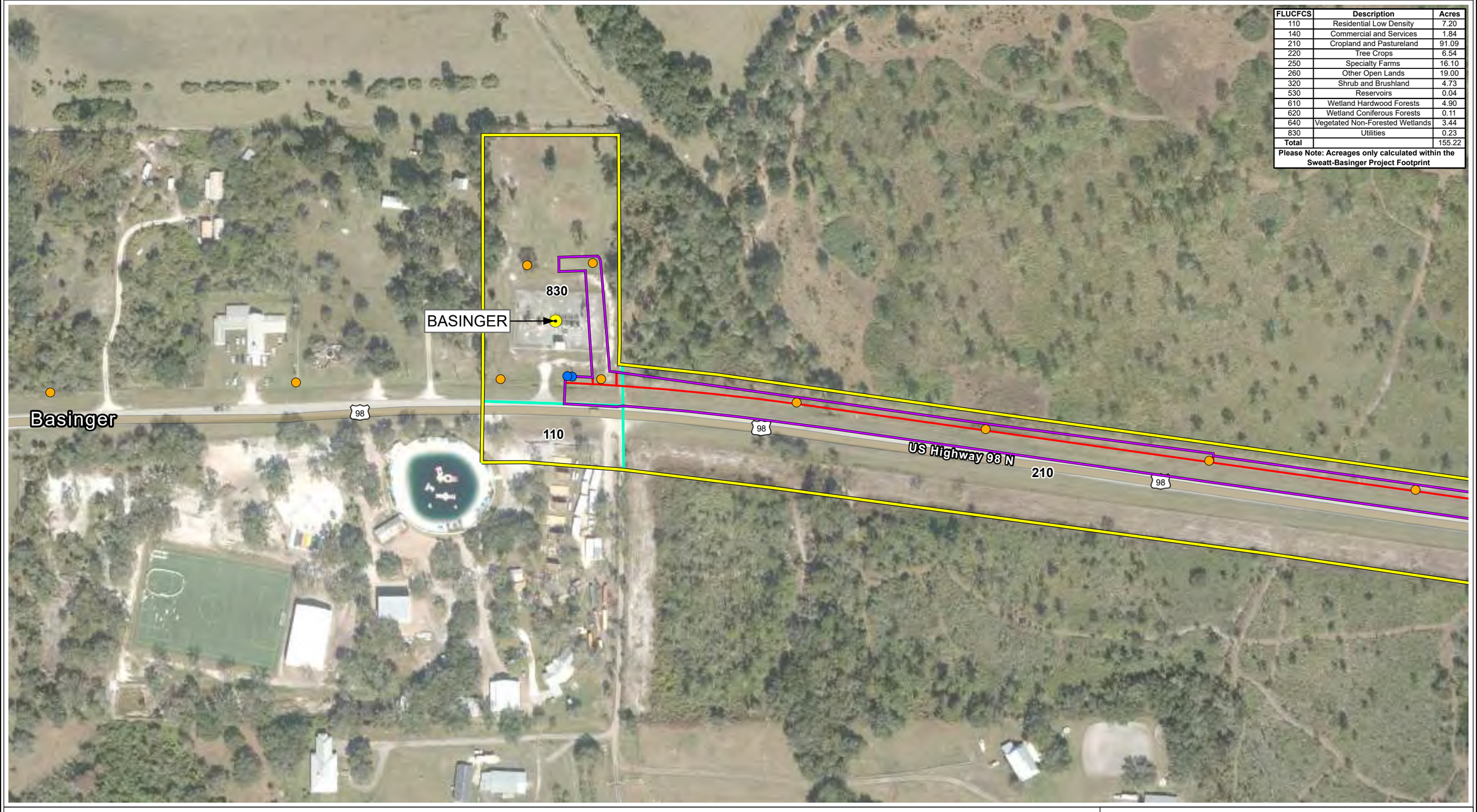
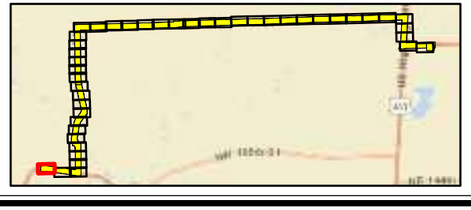
640	Vegetated Non-Forested Wetlands	3.44
830	Utilities	0.23
Total		155.22

Please Note: Acreages only calculated within the Sweatt-Basinger Project Footprint



- Structure
- Guy Anchor
- Substation
- Sweatt – Whidden Certified Corridor
- Land Use/Land Cover
- Sweatt-Basinger Narrowed Corridor
- Sweatt-Basinger Project Footprint
- Proposed Culvert



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0 200 400

Feet

Sources: FDEP, 2022; Esri World Imagery, 2020; ECT, 2023.

Attachment 9 - Page 44 of 44
Segment 1: Sweatt – Basinger
Land Use/Land Cover

Okeechobee County, Florida

Date: 3/10/2023

ECT

Attachment 10 – Impacts Table and Functional Loss Calculations

Attachment 10 – Summary of Wetland Impacts by Type

		Summary of Impacts by Type		
		Structures	**Matting**	**Clearing**
Wetland Type		Permanent Fill	Temporary Impact	Permanently Maintained/Permanent Conversion (*)
Forested Wetlands		.005 acre	0.23 acre	0.92 acre
Herbaceous Wetlands		.023 acre	3.50 acres	

* Forested wetlands within the Permanently Maintained transmission line right-of-way will be permanently converted from forested wetlands and maintained as herbaceous wetlands.

Fill associated with transmission structures = 0.001154 acre per structure. There are no proposed guy anchors located in wetlands.

Permanent Fill = Permanent fill impacts from installation of transmission structures or guying.
Permanently Maintained = Wetlands within the transmission line right-of-way that will be maintained as herbaceous wetlands.
Permanent Conversion = Forested wetlands within the permanently maintained footprint that will be converted from forested to herbaceous wetlands.
Temporary Impact = Temporary construction impacts to wetlands or waterbodies out the permanently maintained transmission right-of-way.

Attachment 10 - All Wetland and Surface Waters Impacts (in Project Footprint)

Wetland ID	FLUCFCS	Community Structure	Current UMAM	Impact Type	Impact Acreage
D-01	512		NA	Temp Impact	0.02780
D-05	512		NA	Temp Impact	0.06974
D-06	512		NA	Temp Impact	0.32495
D-07	512		NA	Temp Impact	0.36309
D-08	512		NA	Temp Impact	0.19206
D-08	512		NA	Temp Impact	0.34745
D-09	512		NA	Temp Impact	0.01250
D-10A	512		NA	Temp Impact	0.07415
D-11	512		NA	Temp Impact	0.53425
D-12A	512		NA	Temp Impact	0.49115
D-12B	512		NA	Temp Impact	0.50941
D-12C	512		NA	Temp Impact	0.15649
D-13	512		NA	Temp Impact	0.69360
D-14A	512		NA	Temp Impact	0.56449
D-14B	512		NA	Temp Impact	0.93823
D-14B	512		NA	Temp Impact	0.00432
D-15A	512		NA	Temp Impact	1.34062
D-15B	512		NA	Temp Impact	0.02798
D-16	512		NA	Temp Impact	0.72708
D-18	512		NA	Temp Impact	1.15114
D-18	512		NA	Temp Impact	0.37930
D-18A	512		NA	Temp Impact	0.44188
D-19	512		NA	Temp Impact	1.47163
D-19	512		NA	Temp Impact	0.45198
D-19	512		NA	Temp Impact	0.95306
D-20	512		NA	Temp Impact	0.96986
D-20	512		NA	Temp Impact	0.80941
D-20	512		NA	Temp Impact	0.41692
D-20	512		NA	Temp Impact	0.28489
D-20	512		NA	Temp Impact	0.23039
D-21	512		NA	Temp Impact	0.33311
D-22	512		NA	Temp Impact	0.94586
D-23	512		NA	Temp Impact	0.03230
D-24	512		NA	Temp Impact	0.55863
D-25	512		NA	Temp Impact	0.76105
D-25	512		NA	Temp Impact	0.48123
D-25A	512		NA	Temp Impact	3.06827
D-26	512		NA	Temp Impact	0.05568
D-26	512		NA	Temp Impact	0.26054
D-30	512		NA	Temp Impact	0.08214
D-30	512		NA	Temp Impact	0.56045
D-30	512		NA	Temp Impact	0.20280
D-30	512		NA	Temp Impact	0.03143
D-31	512		NA	Temp Impact	0.00849
D-31	512		NA	Temp Impact	0.04876
D-33	512		NA	Temp Impact	0.03006
D-36	512		NA	Temp Impact	0.01998
D-37	512		NA	Temp Impact	0.03699
D-38	512		NA	Temp Impact	0.82609
D-38	512		NA	Temp Impact	0.38824
D-40	512		NA	Temp Impact	0.00705

Attachment 10 - All Wetland and Surface Waters Impacts (in Project Footprint)

Wetland ID	FLUCFCS	Community Structure	Current UMAM	Impact Type	Impact Acreage
D-40	512		NA	Temp Impact	0.03059
D-44	512		NA	Temp Impact	0.15043
D-45	512		NA	Temp Impact	0.09581
D-46	512		NA	Temp Impact	0.01807
D-47	512		NA	Temp Impact	0.03034
D-50	512		NA	Temp Impact	0.10206
DW-1	512		NA	Perm Maintained	0.31453
DW-1	512		NA	Temp Impact	0.07396
DW-1A	512		NA	Temp Impact	0.00521
DW-1B	512		NA	Temp Impact	0.00357
DW-2	641		0.3	Perm Maintained	0.69181
DW-2	641		0.3	Temp Impact	0.61111
DW-3	630	6	0.50	Permanent Conversion	0.01047
DW-3A	630	6	0.50	Temp Impact	0.01370
DW-4	641		0.4	Perm Maintained	0.06406
DW-4A	641		0.4	Temp Impact	0.31738
DW-5	512		NA	Temp Impact	0.01265
DW-6	630	6	0.50	Temp Impact	0.05086
DW-4A	641		0.40	Structure Fill	0.001154
DW-4	641		0.40	Structure Fill	0.001154
DW-2	641		0.30	Structure Fill	0.001154
DW-2	641		0.30	Structure Fill	0.001154
DW-2	641		0.30	Structure Fill	0.001154
DW-2	641		0.30	Structure Fill	0.001154
DW-1	512		0.20	Structure Fill	0.001154
S-23	510		NA	Temp Impact (Aerial Crossing)	0.15291
S-35	510		NA	Temp Impact (Aerial Crossing	0.06784
W-11	641	5	0.40	Structure Fill	0.001154
W-11	641	5	0.40	Temp Impact	0.04166
W-11	641	5	0.40	Perm Maintained	0.11506
W-16	631	6	0.4333	Structure Fill	0.001154
W-16	631	6	0.4333	Structure Fill	0.001154
W-16	631	6	0.4333	Structure Fill	0.001154
W-16	631	6	0.4333	Structure Fill	0.001154
W-16	631	6	0.4333	Structure Fill	0.001154
W-16	631	6	0.4333	Temp Impact	0.11784
W-16	631	6	0.4333	Perm Maintained	1.88204
W-16A	641	5	0.40	Structure Fill	0.001154
W-16A	641	5	0.40	Structure Fill	0.001154
W-16A	641	5	0.40	Temp Impact	0.29298
W-16A	641	5	0.40	Perm Maintained	1.00234
W-2	631	6	0.40	Temp Impact	0.06618
W-2	631	6	0.40	Perm Maintained	0.028678
W-22	641	5	0.40	Structure Fill	0.001154
W-22	641	5	0.4	Perm Maintained	0.05805
W-24	630	6	0.4333	Structure Fill	0.001154
W-24	630	6	0.4333	Structure Fill	0.001154
W-24	630	6	0.4333	Structure Fill	0.001154
W-24	630	6	0.4333	Structure Fill	0.001154
W-24	630	6	0.433333	Permanent Conversion	0.60000
W-24	630	6	0.47	Temp Impact	0.12833

Attachment 10 - All Wetland and Surface Waters Impacts (in Project Footprint)

Wetland ID	FLUCFCS	Community Structure	Current UMAM	Impact Type	Impact Acreage
W-3	641	5	0.40	Structure Fill	0.00115
W-3	641	5	0.40	Structure Fill	0.00115
W-3	641	5	0.40	Temp Impact	1.48343
W-3	641	5	0.40	Perm Maintained	0.28833
W-34	630	6	0.500000	Permanent Conversion	0.03000
W-34	630	6	0.500000	Permanent Conversion	0.24000
W-34	630	6	0.500000	Permanent Conversion	0.04000
W-34	630	6	0.50	Temp Impact	0.12833
W-4	631	6	0.4333	Structure Fill	0.00115
W-4	631	6	0.4333	Temp Impact	0.36003
W-4	631	6	0.4333	Perm Maintained	0.10228
W-48	641	4	0.30	Structure Fill	0.00115
W-48	641	4	0.30	Temp Impact	0.15020
W-48	641	4	0.30	Perm Maintained	0.02984
W-48	641	4	0.30	Perm Maintained	0.08820
W-5	641	4	0.30	Temp Impact	0.01991
W-5	641	4	0.30	Perm Maintained	0.08698
W-6	641	2	0.30	Perm Maintained	0.00902
W-7	641	2	0.30	Temp Impact	0.03636
W-7	641	2	0.30	Perm Maintained	0.04828
W-9	641	2	0.30	Perm Maintained	0.02711

Red Text Indicates NWI Desktopped Data 34.0455

Project Footprint includes both Temporary Workspace plus Narrowed Corridor (eventual ROW)

Permanent Fill = Permanent fill impacts from installation of transmission structures or guying.
Permanently Maintained = Wetlands within the transmission line right-of-way that will be maintained as herbaceous wetlands.
Permanent Conversion = Forested wetlands within the permanently maintained footprint that will be converted from forested to herbaceous wetlands.
Temporary Impact = Temporary construction impacts to wetlands or waterbodies out the permanently maintained transmission right-of-way.

Attachment 10 - Forested Wetland Impacts (permanently maintained)

					Existing Conditions (Pre-Project)							With Project				
Wetland ID	**FLUCFCS**	**Location Landscape Support**	**Water Environment**	**Community Structure**	**Current UMAM**	**Conversion Acreage within Permanently Maintained Footprint**		**Location Landscape Support ****	**Water Environment**	**Community Structure**	**UMAM**	**Delta**	**Functional Loss**	**Time Lag**
W-24	630	3	4	6	0.433333	0.6000		2	4	3	0.300000	0.133333	0.0800	1.0
W-34	630	3	6	6	0.500000	0.0300		2	6	3	0.366667	0.133333	0.0040	1.0
W-34	630	3	6	6	0.500000	0.2400		2	6	3	0.366667	0.133333	0.0320	1.0
W-34	630	3	6	6	0.500000	0.0400		2	6	3	0.366667	0.133333	0.0053	1.0
DW-3	630	3	6	6	0.500000	0.0105		2	6	3	0.366667	0.133333	0.0014	1.0
					Totals	**0.9205**						**Totals**	**0.1227**	
						(acreage)							(functional loss)	**0.12**

** With Project Location and Landscape scores were reduced by 1 in areas where project is collocated along existing fences and impervious surfaces that currently pose barriers to wildlife.

Red Text Indicates NWI Desktopped Data

Attachment 10 - Forested and Non-forested Wetlands (permanent fill impacts)

				Existing Conditions (Pre-Project)						With Project
Impact Type	**Wetland/ Waterbody Type**	**Impact**	**Wetland/Waterbody ID**	**FLUCFCS**	**County**	**UMAM**	**Permanent Fill within Permanently Maintained Footprint**	**Permanent Fill (Rounded)**		**Functional Loss**
Structure	Wetland	Perm Fill	W-48	641	Okeechobee	0.30	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-4	631	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-3	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-3	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-24	630	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-24	630	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-24	630	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-24	630	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-22	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-16A	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-16A	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-16	631	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-16	631	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-16	631	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-16	631	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-16	631	Okeechobee	0.4333	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	W-11	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	DW-4A	641	Okeechobee	0.30	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	DW-4	641	Okeechobee	0.30	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	DW-2	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	DW-2	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	DW-2	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	DW-2	641	Okeechobee	0.40	0.001154	0.00		0.00
Structure	Wetland	Perm Fill	DW-1	512	Okeechobee	0.20	0.001154	0.00		0.00
					Totals		0.027696	0.03		**0.03**
							(acreage)			

Red Text Indicates NWI Desktopped Data

Transmission line structures = 0.001154 acre impact

Attachment 10 - Forested Wetlands - Temporary Construction Impacts

					Existing Conditions (Pre-Project)							With Project					
Wetland ID	**FLUCFCS**	**Location Landscape Support**	**Water Environment**	**Community Structure**	**Current UMAM**	**Acreage Impacted outside Permanently Maintained Footprint**		**Location Landscape Support ***	**Water Environment**	**Community Structure**	**UMAM Post Construction**	**Delta**	**Time Lag ****	**Functional Loss**
W-24	630	3	4	6	0.43	0.1283		2	4	3	0.30	0.13	1.46	0.0250
W-34	630	3	6	6	0.50	0.0400		2	6	3	0.37	0.13	1.46	0.0078
DW-3A	630	3	6	6	0.50	0.0137		2	6	3	0.37	0.13	1.46	0.0027
DW-6	630	3	6	6	0.50	0.0509		2	6	3	0.37	0.13	1.46	0.0099
					Totals	**0.233**							**Totals**	**0.05**
						(acreage)								(functional loss)

Red Text Indicates NWI Desktopped Data

* With Project Location and Landscape scores were reduced by 1 in areas where project is collocated along existing fences and impervious surfaces that currently pose barriers to wildlife.

** Assumes Time Lag of 1.46 for 15 years estimated for reestablishment of reduced forested wetland function.

Assumes Risk Factor of 1 (*de minimis*)

Attachment 11 – Reduction of Impacts Narrative

Attachment 11 — Impacts Assessment/Statement of Avoidance and Minimization

PROPOSED IMPACTS

The Florida Power & Light Company Segment 1: Sweatt – Basinger transmission project will impact a total of 34.04 acres of wetlands and surface waters. Due to the overhead nature of the project, most of these impacts will be temporary in nature and will result from typical transmission line construction activities, such as vegetation clearing, light raking, temporary construction matting, and ground disturbance from construction vehicles during installation.

For purposes of this application, most impacts are considered temporary unless there will be a permanent change in wetland type, (i.e., permanent conversion of forested wetland to non-forested wetland within the permanent maintenance area or permanent fill resulting from installation of a transmission structure). Impacts to non-forested wetland systems and water bodies are also considered temporary, as they will be restored to preconstruction condition once the transmission line has been installed. Construction and restoration activities in wetlands and water bodies will employ best management practices to minimize impacts to wetlands, such as those found in the exhibits included in Attachments 6, 6A, and 16.

Tables in Attachment 10 summarize the wetland and water body impacts by type and provide the impact type for each wetland and water body within the proposed project impact area.

Attachment 17 depicts the location of the proposed wetland and water body impacts along the proposed transmission alignment.

WETLAND IMPACTS

Temporary Construction Impacts

The project will temporarily impact 9.28 acres of wetlands. The temporary impacts to non-forested wetlands within the permanently maintained project footprint (approximately 4.52 acres or approximately 13.2 percent of total wetland impact) are scrub/shrub wetlands (631) and freshwater marshes (641) associated with roadside swales, agricultural fields, or cattle pastures. Approximately 3.5 acres of non-forested wetlands outside the permanent project footprint will be temporarily impacted by construction activities. These wetlands are primarily vegetated non-forested wetlands (640) associated with roadside drainages or agricultural pastures.

Approximately 0.233-acre of forested wetland will be temporarily impacted during construction. These are all associated with mixed forested wetlands (630). The temporary construction right-of-way will be restored to its preconstruction contours to avoid long-term impacts to wetland hydrology. Wetland vegetation will re-establish through natural succession once construction and restoration activities are complete. In emergent wetlands, herbaceous vegetation is expected to regenerate quickly (typically within one growing season).

Permanent Fill and Conversion Impacts

The project will result in a permanent fill of 0.03-acre of wetlands where transmission poles will be placed. These impacts were minimized by careful consideration of pole placement to avoid wetlands where practicable. Conversion of approximately 0.92-acre of forested wetland to non-forested wetlands will occur in forested wetlands that are within the footprint of the permanently maintained right-of-way, which will not be allowed to re-establish as forest after construction, to minimize potential outages caused by trees and limbs interfering with transmission lines. Restricting the clearing footprint where possible within these permanently maintained areas will further reduce the impact acreage. The forested wetland clearing will occur over 21 miles of the proposed Sweatt-Basinger transmission line, thus the general permit criteria of <0.5-acre of forested wetlands per ten miles of line will be met.

Following construction, these areas will be maintained as emergent or scrub/shrub wetlands, so there will be no net loss of wetlands, but rather a change of wetland type in these areas.

WATER BODY IMPACTS

Most water body impacts are proposed to be temporary in nature and limited to the construction time frame, which is expected to be approximately six months. Each water body crossing will be restored to its preconstruction contour and stabilized to minimize erosion. There will be temporary impacts to several natural streams (aerial crossing) and man-made ditches combined total impact area of approximately 24.75 acres. These crossings will be traversed using matting or temporary bridges (Attachment 6, Typical Drawings). The construction methods will include matting laid in such a way that allows for transverse water flow so as to minimize interruption to the natural water flow paths. Otherwise, the crossings will be overhead with no resulting impacts to water bodies.

Also proposed are six ditch crossings for access, which will be culverted and covered by a limerock apron for traverse. Please refer to Attachment 6 for Typical Drawings.

ELIMINATION OR REDUCTION OF IMPACTS

Impacts to wetlands and water bodies were eliminated or reduced to the extent practicable by using the following standards:

- Designing a route that will meet project objectives while avoiding and minimizing environmental impacts;
- Locating permanent structures and other project features in uplands;
- Limiting the corridor and construction right-of-way to previously disturbed areas (e.g., electric transmission line corridors, other pipeline corridors, and road and railroad rights-of-way);
- Minimizing impacts to sensitive environmental features by using specialized construction techniques, such as matting and temporary bridges, where appropriate;
- Locating temporary workspaces and access areas within existing utility/transportation corridors or in other upland areas such as existing roads;

- Implementing best management practices and effective soil erosion control measures (e.g., silt fence, straw bales), including routine inspections during construction and until soil stabilization has occurred; and

- Minimizing the construction duration to limit the disturbance to natural resources.

Attachment 12 – Vegetation, Wildlife and Habitats Assessment

Attachment 12 - Fish, Wildlife, Listed Species, and Their Habitats

VEGETATION

Because much of the proposed transmission right-of-way contains lands that have already been cleared and maintained, construction associated with the 230-kilovolt transmission line should not pose any significant additional adverse changes to vegetation in these areas. Limited permanent alterations will be associated with right-of-way clearing and structure installation. The proposed right-of-way crosses no large expanses of forested uplands or wetlands. Attachment 6, Typical Drawings, depicts types of impacts associated with construction that are expected to occur to the existing vegetation communities crossed by the proposed right-of-way.

In areas of the corridor where co-location opportunities occur along existing roads or other infrastructure, forested wetlands may have already been impacted. Limited additional clearing of trees directly adjacent to the existing rights-of-way may be required. In these areas, the right-of-way will subsequently be maintained in a low-growing, early successional state. Adjoining tracts of woodlands will remain intact and provide habitat for forest species. In addition, adjacent vegetation communities should not be affected by structure installation and temporary access improvements because erosion control measures and proper culverting will be used.

Construction practices in wetlands will retain the vegetative root mat in the right-of-way in areas not filled for road or structure pad construction, thereby minimizing impacts to the wetlands. Impacts to wetlands will also vary depending on the wetland system through which the transmission line is routed. The shift in wetland composition will vary with the type of original canopy and soil alterations resulting from construction activities. Outside of areas where filling may be necessary for roads small freshwater marsh/wet prairie systems crossed by the transmission line will not be affected by construction activities because no clearing will be required, and proper culverting will maintain the existing hydroperiod.

WILDLIFE

Specific impacts to terrestrial and aquatic animals due to transmission line construction vary by species and depend primarily on the extent of habitat alteration and continued availability of such habitat after construction. The proposed project crosses no federally designated critical habitat. In addition, no aquatic habitats critical to the continued regional presence of important species will be affected. The co-location with existing road and transmission line rights-of-way will minimize habitat losses and avoid the creation of barriers to animals' movements.

Individual small burrowing mammals (e.g., rodents), reptiles, or amphibians may be lost during right-of-way clearing. Such individual losses, however, will not affect local or regional populations. Losses of medium-sized or large mammals, birds, or other mobile species from direct impacts or habitat alterations are not expected because of the mobility of these animals. Therefore, no adverse impacts are expected to local or regional populations of game species, species of special concern or commercial importance, or threatened or endangered species occurring or potentially occurring within the right-of-way area.

No significant impacts to resident birds or migratory species are expected since the proposed ROW does not include major staging, breeding, or wintering areas for social, migratory species (e.g., waterfowl, shorebirds, passerines). Local disturbance or displacement of wildlife because of construction noise will be minor and short-term, as construction activities in any one location will be intermittent and are not expected to last more than a few weeks. Also, the location of the proposed right-of-way along major highways and existing transmission line rights-of-way will further limit the potential for wildlife disturbance because individuals in these areas will already be habituated to traffic noise where present.

AQUATIC LIFE

Impacts on aquatic systems and species are expected to be minor. For ditches or wetlands that are crossed by the Project, construction of the transmission line may involve installation of culverts and placement of fill, which may result in temporary increases in turbidity and silt deposition. Such impacts will be local and are not expected to adversely affect aquatic resources. Appropriate erosion control measures such as staked hay bales and silt curtains will minimize or eliminate siltation resulting from stormwater runoff. Transmission line and temporary access road (if necessary) construction in wetland areas will use methods such as proper culverting and erosion control as necessary to minimize significant disruption to the aquatic ecosystem or resultant changes in species composition.

The potential construction impacts on listed species documented for the proposed right-of-way are discussed in the following paragraphs.

LISTED SPECIES

Under the Endangered Species Act of 1973 (ESA), species may be listed as either endangered or threatened. “Endangered” means a species is in danger of extinction throughout all or a significant portion of its range. “Threatened” means a species is likely to become endangered within the foreseeable future. All species of plants and animals, except pest insects, are eligible for listing as endangered or threatened. For the purposes of the ESA, Congress defined species to include subspecies, varieties, and, for vertebrates, distinct population segments.

Table 12a identifies listed or managed species with the potential to occur in the Sweatt – Whidden Certified Corridor Area. Other than for Crested Caracara, no protocol surveys have taken place to date, and any noted observances that took place during wetland delineations and field reviews occurring between December 5, 2022 and January 20, 2023 are noted in the narrative for each species with likelihood to occur in the Segment 1: Sweatt – Basinger Project Area.

Ecologists evaluated the potential presence of listed species in Okeechobee County. This assessment began by performing a records review of the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) report powered by the Environmental Conservation Online System, Florida Natural Areas Inventory (FNAI) Biodiversity Matrix, and Florida Fish and Wildlife Conservation Commission (FWC) geographic information system (GIS) records, including the wading bird and bald eagle nest databases. This information was supplemented by informal wildlife observations during the field review and wetland delineation surveys (Table 12a).

Table 12a. Threatened and Endangered Species with Potential to Occur in Sweatt–Whidden Certified Corridor

Scientific Name	Common Name	Federal Listing	State Listing
Mammals			
Eumops floridanus	Florida bonneted bat	E	E
Puma (=Felis) concolor coryi	Florida panther	E	E
Trichechus manatus	West Indian manatee	T	T
Ursus americanus floridanus	Florida black bear	N	N
Birds			
Ammodramus savannarum floridanus	Florida grasshopper sparrow	E	E
Aphelocoma coerulescens	Florida scrub-jay	T	T
Athene cunicularia floridana	Florida burrowing owl	N	T
Egretta caerulea	Little blue heron	N	T
Egretta tricolor	Tricolored heron	N	T
Falco sparverius paulus	American kestrel	N	T
Grus canadensis pratensis	Florida sandhill crane	N	T
Haliaeetus leucocephalus	Bald eagle	N	N (*)
Mycteria americana	Wood stork	T	T
Picoides borealis	Red-cockaded woodpecker	E	E
Polyborus plancus audubonii	Audubon's crested caracara	T	T
Rostrhamus sociabilis plumbeus	Everglade snail kite	E	E
Reptiles			
Alligator mississippiensis	American alligator	FT	SAT
Drymarchon couperi	Eastern indigo snake	T	T
Eumeces egregious lividus	Bluetail mole skink	T	T
Gopherus polyphemus	Gopher tortoise	C	T
Neoseps reynoldsi	Sand skink	T	T
Pituophis melanoleucus mugitus	Florida pine snake	N	T
Insects			
Danaus plexippus	Monarch butterfly	C	
Plants			
Andropogon arctatus	Pine-woods bluestem	N	T
Bonamia grandiflora	Florida bonamia	T	N
Calopogon multiforus	Many-flowered grass-pink	N	T
Calmintha ashei	Ashe's savory	N	T
Carex chapmanii	Chapman's sedge	N	T
Centrosema Arenicola	Sand butterfly pea	N	E
Chionanthus pygmaeus	Pygmy fringe-tree	E	E
Chrysopsis floridana	Florida goldenaster	E	E
Clitoria fragrans	Pigeon wings	T	E
Coelorachis tuberculosa	Piedmont jointgrass	N	T
Conradina brevifolia	Short-leaved rosemary	E	E
Conradina grandifloria	Large-flowered rosemary	N	T
Crotalaria avonensis	Avon park harebells	E	E
Dicerandra christmanii	Garrett's mint	E	E
Dicerandra frutescens	Scrub mint	E	E
Eriogonom longifolium var. gnaphalifolium	Scrub buckwheat	T	E
Eryngium cuneifolium	Snakeroot/wedge-leaved button-snakeroot	E	E
Euphorbia rosescens	Scrub spurge	N	E
Glandularia maritima	Coastal vervain	N	E
Hartwrightia floridana	Hartwrightia	N	T

Table 12a. Threatened and Endangered Species with Potential to Occur in Sweatt–Whidden Certified Corridor

Scientific Name	Common Name	Federal Listing	State Listing
Hypericum cumulicola	Highlands scrub hypericum	E	E
Hypericum edisonianum	Edison's ascyrum	N	E
Lechea cernua	Nodding pinweed	N	T
Lechea divaricate	Pine pinweed	N	E
Linum carteri var. smallii	Small's flax	N	E
Liatris ohlingerae	Scrub blazing star	E	E
Lupinus aridorum	Scrub lupine	E	E
Litsea aestivalis	Pondspice	N	E
Matelea floridana	Florida spiny-pod	N	E
Nemastylis floridana	Celestial lily	N	E
Nolina atopocarpa	Florida beargrass	N	T
Nolina brittoniana	Britton's beargrass	E	E
Panicum abscissum	Cutthroat grass	N	E
Paronychia chartacea	Papery Whitlow-wort/paper nailwort	T	E
Platanthera integra	Yellow fringeless orchid	N	E
Polygala lewtonii	Lewton's polygala	E	E
Polygonella basiramia	Wireweed/Florida jointweed	E	E
Polygonella myriophylla	Sandlace/Small's jointweed	E	E
Prunus geniculata	Scrub plum	E	E
Pteroglossaspis ecristata	Giant orchid	N	T
Salix floridana	Florida willow	N	E
Schizachyrium niveum	Scrub bluestem	N	E
Stylisma abdita	Scrub stylisma	N	E
Warea amplexifolia	Wide-leaf warea	E	E
Warea carterii	Carter's mustard	E	E
Zephyranthes simpsonii	Redmargin zephyrlily	N	T
Ziziphus celata	Florida ziziphus	E	E

Note: C = candidate.
E = endangered.
N = not currently listed.
SAT = threatened due to similarity of appearance to American crocodile.
T = threatened.

*Bald eagles are afforded federal protection under the Migratory Bird Treaty Act and Bald and Golden Eagle Protection Act.

Source: ECT, 2022, 2023.

The Project Area for Segment 1: Sweatt – Basinger does not intersect known critical habitat for any federally listed species in Okeechobee County. The eastern portion of the proposed right-of-way falls within the core foraging area (CFA) of two recorded wood stork colonies, and multiple listed species are known or have the potential to occur in the study area. See Table 12a and Attachment 12b.

Based on the results of the desktop and field investigations, the following protected or managed species have been identified as being known to occur or having the moderate potential to occur within the Okeechobee County study area.

Table 12a summarizes the listed species with potential to occur within Okeechobee, Highlands, Glades and DeSoto counties in proximity to the Sweatt – Whidden Certified Corridor. This assessment began by performing a records review of the USFWS IPaC report powered by the Environmental Conservation Online System, FNAI Biodiversity Matrix, and FWC GIS records, including the wading bird and bald eagle (*Haliaeetus leucocephalus*) nest databases.

Federal Species

American Alligator—The alligator is listed as threatened by USFWS and FWC due to similarity of appearance to the American crocodile (*Crocodylus acutus*). Alligators are not uncommon in this part of the state, and this reptile is assumed present in most surface waters.

Audubon's Crested Caracara—This raptor is listed as a threatened species by USFWS. It is present in Central and South Florida, including the four counties crossed by the Preferred Corridor. Caracaras commonly occur in dry or wet prairie areas with scattered cabbage palms *(Sabal palmetto)* or in lightly wooded areas of scattered saw palmetto *(Serenoa repens),* scrub oaks *(Quercus inopina),* and cypress (*Cupressus* spp.). Crested Caracara surveys are in progress for the subject project. The results of surveys will be provided to USFWS ecological services. No nests have been identified within the project right-of-way. Conservation measures for the Project include environmental work hold within primary buffer of known nests during nesting season. Caracaras are highly opportunistic in their feeding habits, eating carrion and capturing live prey and have been identified along the Segment 1: Sweatt – Basinger Project Area during wetland delineations surveys.

Eastern Indigo Snake—This species (*Drymarchon couperi*) is federally and state-listed as threatened. This distinctive large, black snake can occur in suitable habitats throughout Florida. It has a wide range of habitat preferences and prey species and requires large tracts of land for survival. Often considered a gopher tortoise commensal, it can be found in xeric habitats but also uses more mesic or wetland habitats for foraging. Suitable habitat is present for this species within the project preferred corridor.

Everglade Snail Kite—This federally endangered bird prefers habitats consisting of slow-moving water with emergent vegetation such as maidencane *(Panicum hemitomon)* or sawgrass (*Cladium jamaicense).* This species is typically found in the Lake Okeechobee area southward through the Everglades. A portion of the Segment 1: Sweatt-Basinger Project Area is within the normal range of this species.

Florida Bonneted Bat—Endemic to Florida and nonmigratory, the Florida bonneted bat (*Eumops floridanus*) is the largest bat in Florida. Limited knowledge about habitat needs and preferences suggests that this bat uses forests, wetlands, and other natural habitats, as well as residential and urban areas. Endangered wherever found, the final rule for listing of the Florida bonneted bat was adopted in October 2013. Population size is unknown. The Segment 1: Sweatt – Basinger Project Area does not intersect the proposed critical habitat for the bonneted bat. Due to the species' small range, the greatest threats to Florida bonneted bats are loss of habitat, including destruction of natural roost sites, and natural disasters such as hurricanes, which have the potential to impact its entire range.

Florida Grasshopper Sparrow—This bird species is listed as endangered by USFWS. This is a subspecies of grasshopper sparrow that is endemic to the dry prairies of Central and South Florida. FNAI has records of this bird for Polk, Osceola, and Okeechobee counties. Their habitat consists of large, treeless, relatively poorly drained grasslands that have a history of frequent fires. The Florida grasshopper sparrow occurs in prairies dominated by saw palmetto and dwarf oaks (*Quercus prinoides*). Bluestem grasses (*Andropogon* spp.), St. John's wort, and wiregrasses (*Aristida stricta*) are also typically found within Florida grasshopper sparrow habitat. Given its rarity and specific habitat requirements it has a low potential to occur along the Segment 1: Sweatt – Basinger Project Area.

Florida Panther—The Florida panther (*Puma (=Felis) concolor coryi*) is listed as endangered by USFWS. Florida panthers are secretive and require extensive blocks of mostly forested land for survival. Large wetlands, inaccessible to humans, provide important refuge. The remaining number of this species is low. Their breeding population is restricted to southwest Florida, but dispersing individuals may range well north into the peninsula in search for new territories. Segment 1: Sweatt – Basinger Project area terminates adjacent to area designated as Panther Focus Area (Dispersal Pathway).

Gopher Tortoise—Gopher tortoises (*Gopherus polyphemus*) are listed as threatened species by FWC and a candidate species for listing by USFWS. They are typically found in xeric habitats, which are prevalent along the proposed corridor. As anticipated, there are several FNAI gopher tortoise records along the preferred corridor. Gopher tortoise burrows are used by a number of other listed and non-listed wildlife species. As such, they are considered a keystone species, and both the species and their burrows are protected wherever found. Gopher tortoise burrows have been identified along Segment 1: Sweatt-Basinger Project area during wetland delineation surveys.

Red-cockaded Woodpecker—The red-cockaded woodpecker (*Picoides borealis*) is federally and state-listed as endangered. This species makes its home in mature longleaf pine (*Pinus palustris*) forests or trees inflicted with red-heart disease. The USFWS consultation area for this species is not intersected by the Segment 1: Sweatt – Basinger Project Area, and it is not expected that suitable habitat would be found present.

Southeastern American Kestrel—Listed as threatened by FWC, this small falcon (*Falco sparverius paulus*) is the resident subspecies that breeds in Florida. The more common northern migrant is seen commonly in the winter months perching on snags and power lines along roadsides in Central Florida. The open habitats found along the Segment 1: Sweatt-Basinger Project Area provide good foraging habitat for this bird, so there is some likelihood it could be found.

Wood Stork—The wood stork is federally listed as endangered. This large bird uses freshwater and estuarine habitats for nesting, roosting, and foraging. Wood storks typically construct their nests in medium to tall trees located in swamps or on islands surrounded by relatively broad expanses of open water. They are found across much of Florida. Wood storks tend to use the same colony sites over many years, as long as the sites remain undisturbed and sufficient feeding habitat remains in the surrounding wetlands. There are no recorded nesting colonies within 1,500 ft of the Project; however, individuals may opportunistically forage in the water bodies or ditches that are present. In South Florida, the wood stork CFA is an 18.6-mile radius around active nesting colonies where appropriate habitat exists. According to current USFWS data, the Segment 1: Sweatt – Basinger Project area intersects two wood stork CFAs, around colonies identified as, Limpkin

Creek and Cypress Creek Bluefield Road colonies. Attachment 12b shows the Segment 1: Sweatt-Basinger Project Area in relation to these colonies and their respective CFAs.

Bald eagle—The bald eagle is a federally managed species under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. Florida has one of the largest eagle populations in the lower 48 states. These birds typically nest and roost in forested habitats and utilize shallow fresh or saltwater for foraging. Nesting is initiated in the fall, and nests may be used for many years. According to the FWC Eagle Nest Locator database, there are no known eagle nests within 1,500 ft of the Segment 1: Sweatt – Basinger Project Area. The closest recorded Eagle nest is OK004, approximately 2,200 ft away from the Project Area. Attachment 12b depicts the location of recorded Eagle nests relative to the Project.

Wading Birds—Based on current FNAI records, there are no wading bird colonies within a critical distance (1,500 ft) of the Project Area. It is expected that wading birds will opportunistically forage in wetlands or roadside ditches along the Project. Attachment 12b depicts the location of recorded wading bird rookeries relative to the Segment 1: Sweatt – Basinger Project Area.

Federally Listed Plant Species

It is not expected that federally listed plant species would be found in the Segment 1: Sweatt – Basinger Project Area.

State Listed Species

Gopher Tortoise (*Gopherus polyphemus*)—Candidate species for federal listing by USFWS and state-listed as threatened. The gopher tortoise inhabits upland well-drained habitats throughout the state, including disturbed and urban properties. An informal gopher tortoise burrow survey was conducted concurrent with the wetland delineations, and multiple burrows were identified along the route. According to FWC regulations, relocation is not necessary if construction activities can avoid impacts within a 25-foot radius of the burrow entrance. However, if impacts to any burrow cannot be avoided, a gopher tortoise relocation permit will be required from FWC. A 100-percent survey will be required prior to construction to locate all potentially occupied burrows and determine relocation and conservation measures.

Little Blue Heron and Tricolored Heron—These species (*Egretta caerulea* and *Egretta tricolor*, respectively) are state-listed as threatened but not uncommon to be found foraging in wetlands in Florida. These wading bird species can be found in suitable wetland habitats throughout Florida. Foraging occurs in shallow freshwater, brackish, and saltwater habitats. Both species breed in colonial nesting sites with other wading and shorebird species. There are freshwater marshes, water bodies, and man-made ditches in the Segment 1: Sweatt – Basinger Project Area that could potentially be used for foraging by these species. Accordingly, these birds could potentially forage in habitats within the corridor but are unlikely to nest there. No specific surveys for these birds are proposed; however, a preconstruction nest survey is recommended.

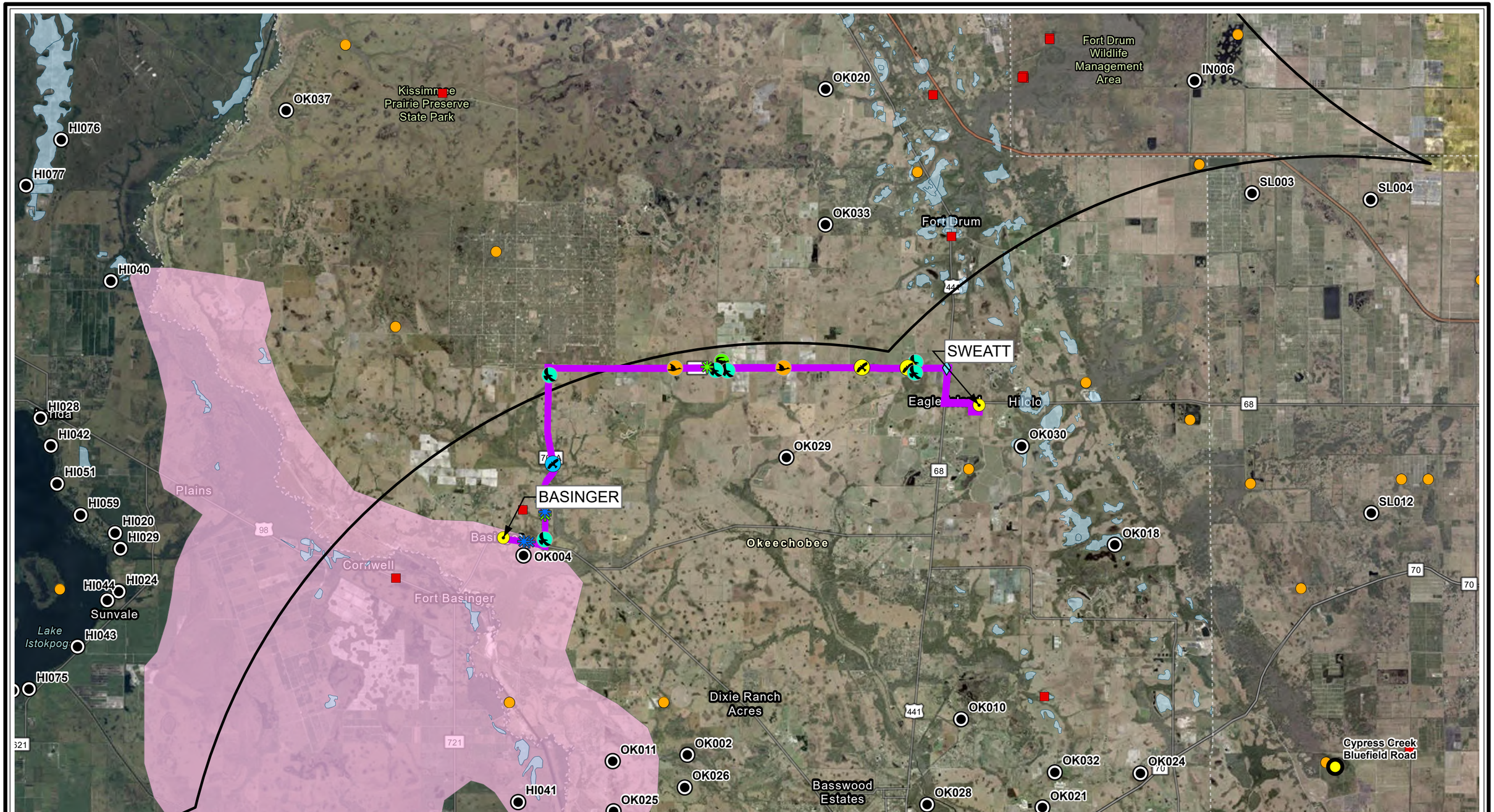
Florida Sandhill Crane—This species is listed as threatened by FWC. The sandhill crane (*Grus canadensis*) prefers freshwater marshes for nesting and pastures, wet prairies, or farm fields for foraging. Suitable nesting and foraging habitats are present in areas along the Segment 1: Sweatt – Basinger Project Area. FWC's current permitting guidelines indicate activity should be avoided within 400 feet of nest sites during the breeding season. Insofar as sandhill cranes may nest within

the project limits, the applicant will monitor the site for the presence of new nests should construction activities occur within the sandhill crane breeding season (January through March). Should any active nests be initiated within 400 feet of planned construction activities, the applicant must either postpone construction in that area to coincide with the nonbreeding season or coordinate with FWC for issuance of an incidental take permit.

MIGRATORY BIRDS

USFWS's IPaC report identified additional migratory bird species that are not included within the listed species' tables of previous sections. Migratory birds are protected under the Migratory Bird Treaty Act of 1918 (MBTA), which makes it unlawful to kill or "take" a migratory bird, nest, or egg. An amendment to the MBTA in 1972 resulted in inclusion of bald eagles and other birds of prey in the definition of migratory birds. These species include the American kestrel (*Sparverius paulus*), Bachman's sparrow (*Aimophila aestivalis*), cerulean warbler (*Dendroica cerulean*), common ground-dove (*Columbina passerina exigua*), lesser yellowlegs (*Tringa favipes*), prairie warbler (*Dendroica discolor*), prothonotary warbler (*Protonotaria citrea*), red-headed woodpecker (*Melanerpes erythrocephalus*), swallow-tailed kite (*Elanoides forficatus*), and wood thrush (*Hylocichla mustelina*). The Project Area is located within the Atlantic Migratory Flyway, broadly defined as the aggregate of species-specific avian migration routes that follow the Atlantic Coast in the United States and Canada (National Audubon Society, 2018). In late 2017, the Solicitor's office of the Department of the Interior issued Memorandum Opinion M-37050, which replaced M-37041. The general industry interpretation of M-037050 is that unintended impacts to bird species during normal construction activities does not constitute the definition of "take." Therefore, the need for preconstruction surveys for MBTA species nests may not be required. Coordination with USFWS will occur regarding the potential need for preconstruction surveys.

If nests or cavities with eggs or flightless young are observed during construction, construction crews will immediately stop work and contact the operations/construction lead, who will immediately notify Florida Power & Light Company's (FPL's) Power Delivery Environmental Department. Additionally, if an osprey nest or eagle nest is observed during construction, construction crews will contact the operations/construction lead who will immediately contact FPL's Power Delivery Environmental Department.



Legend

- Substation (HIFLD)
- Bald Eagle Nest
- Florida Woodstork Nesting Colonies
- Wading Bird Rookery
- Eastern Indigo Snake Sighting
- Scrub Jay Habitat (FWC)
- Wood Stork Core Foraging Area
- Segment 1: Sweatt-Basinger

Florida Panther Focus Area

- Dispersal Pathway

Listed Species Observed

- American Alligator
- Crested Caracara
- Gopher Tortoise
- Gopher Tortoise Burrow
- Kestrel
- Monarch Butterfly
- Red Cockaded Woodpecker
- Wood Stork

Site Lies Within:
USFWS Wood Stork Core Foraging Area
USFWS Consultation Area:
Florida Scrub Jay
Florida Bonneted Bat
Everglades Snail Kite
Florida Grasshopper Sparrow
Sand Skink
Crested Caracara

N

0 2 4
Miles

Sources: FWC, 2022; USFWS, 2022; SWFWMD, Imagery. 2020; ECT, 2023.

Attachment 12B
Segment 1: Sweatt - Basinger
Threatened and Endangered Species

Okeechobee County, Florida

ECT

Attachment 13 – Public Interest Test

Attachment 13 - Public Interest Test

Impacts on terrestrial and aquatic systems and species associated with transmission line right-of-way preparation and construction depend primarily on the location and existing conditions of the selected right-of-way and, to a lesser degree, on clearing and construction techniques.

Through a systematic, environmentally responsive corridor selection process, the crossing of major terrestrial, wetland, and aquatic systems was minimized or avoided to restrict potential impacts to sensitive habitats and/or endangered and threatened species associated with transmission line construction. Approximately 79 miles (approximately 98 percent) of the larger Sweatt – Whidden Project include the opportunity to locate within or adjacent to existing road rights-of-way. Where possible in these areas, the proposed transmission line will share existing rights-of-way. In these previously altered areas, it is not anticipated that transmission line construction will have significant impact on vegetation, wildlife, or aquatic life.

Because much of the project footprint contains lands that have already been cleared and maintained, construction associated with the 230-kilovolt transmission line should not pose any significant additional adverse changes to vegetation in these areas. Limited permanent alterations will be associated with right-of-way clearing, temporary matting and structure installation. The proposed project crosses no large expanses of forested uplands or wetlands.

Attachments 6 and 6A, Typical Drawings and Project Description and Construction Methods, address types of impacts associated with construction that are expected to occur to the existing vegetation communities crossed by the project footprint.

In areas of the corridor where co-location opportunities occur along existing roads or other existing infrastructure, forested wetlands may have already been impacted. Limited additional clearing of trees directly adjacent to the existing rights-of-way may be required. In these areas, the right-of-way will subsequently be maintained in a low-growing, early successional state. Adjoining tracts of woodlands will remain intact and provide habitat for forest species. In addition, adjacent vegetation communities should not be affected by structure installation and temporary access because erosion control measures and proper culverting will be used.

Construction practices in wetlands will retain the vegetative root mat in the right-of-way in areas not filled for road or structure pad construction, thereby minimizing impacts to the wetlands. Impacts to wetlands will also vary depending on the wetland system through which the transmission line is routed. The shift in wetland composition will vary with the type of original canopy and soil alterations resulting from construction activities. Outside of areas where filling may be necessary for temporary access or structure pads, small freshwater marsh/wet prairie systems crossed by the transmission line will not be affected

by construction activities because no clearing will be required, and proper culverting will maintain the existing hydroperiod. See Attachments 6 and 6A.

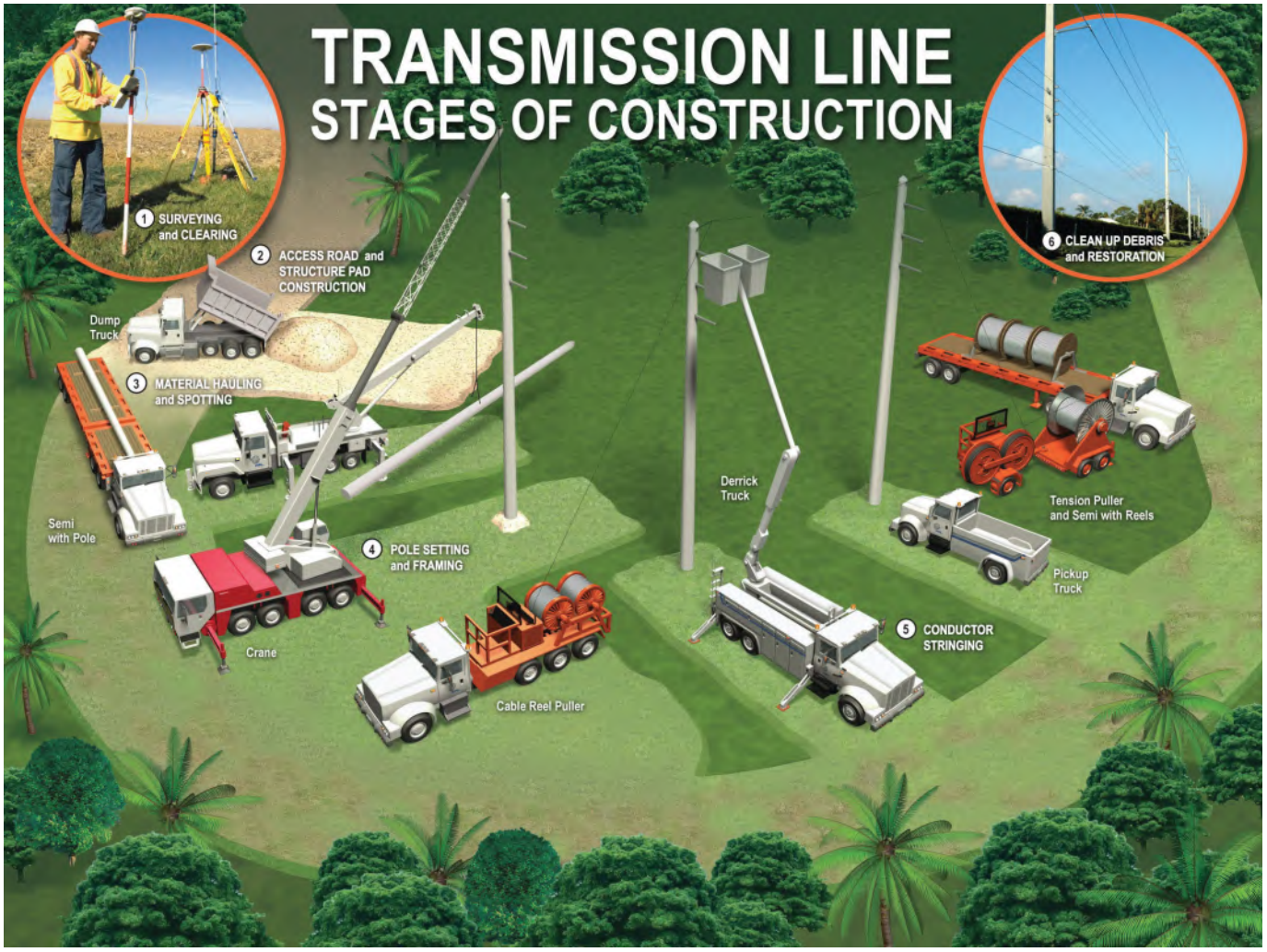
Specific impacts to terrestrial and aquatic animals due to transmission line construction vary by species and depend primarily on the extent of habitat alteration and continued availability of such habitat after construction. The proposed project crosses no federally designated critical habitat. In addition, no aquatic habitats critical to the continued regional presence of important species will be affected. The co-location with existing road and transmission line rights-of-way will minimize habitat losses and avoid the creation of barriers to animals' movements.

The project is not expected to significantly impact wildlife or wildlife habitat. Some temporary displacement of wildlife may occur during construction activities, however once complete, wildlife is anticipated to return. The project is not in an area designated as Outstanding Florida Waterway. No in-water work is proposed therefore no adverse effects to navigation or flow is anticipated. Similarly, no adverse effects to fishing or recreation is anticipated with the operation of the transmission, as crossings will be aerial. Adequate buffers at creeks and appropriate erosion control measures during construction will prevent sedimentation at creeks.

A cultural resource assessment survey has been completed along the right-of-way in compliance with the requirements of Chapter 267, Florida Statutes and Chapter 1A-46 (Archaeological and Historical Report Standards and Guidelines) in the Florida Administrative Code. The results of this survey have been documented in a report and submitted to the Department of Historical Resources (DHR). No significant resources were identified.

If cultural resource finds are discovered during construction, construction activities will be immediately halted in the vicinity, and DHR will be notified. A determination of the significance of the find will be conducted, as appropriate, and the Florida Power & Light Company will coordinate with DHR to evaluate mitigative measures necessary to protect the area from adverse effects.

Attachment 14 – Stages of Construction Graphic



Attachment 14
Stages of Construction
Sweatt-Whidden 230-kV
Transmission Line Project
Okeechobee, Glades, Highlands and
DeSoto Counties, Florida

Sources: FPL, 2022.

Attachment 15 – Uniform Mitigation Assessment Method Forms

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-2**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
631	**Wetland Scrub**	**Temporary Impact**	**2.07** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11 & 12 / HUCs 03090101 and 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetlands W-2 and W-4 (located in 12 C-25, HUC 030801010101 Parker Bay) receives stormwater from US Highway 441 and adjacent agricultural fields and convey water to a ditch along NE 224th Street then to Gomez Creek and Cowbone Creek. Wetland W-16 (located in 11 South Kissimmee, HUC 030901012001 Cypress Slough - Chandler Slough) is adjacent to Fish Slough and receives stormwater runoff from SW 240th St and adjacent agricultural fields. Fish Slough (WOTUS) connects downstream to Cypress Slough, then Chandler Slough, and ultimately reaches the Kissimmee River.

Assessment area description

The assessment areas are located in an existing utility right-of-way, and while trees are removed and prevented from growing immediately beneath the aerial utility lines, dense shrubs are present. The shrubs within the right-of-way are dominated by brazillian pepper (Schinus terebinthifolia), saltbush (Baccharis halimifolia), and cabbage palm (Sabal palmetto). The areas were impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Fish Slough, Gomez Creek, Cowbone Creek, US Highway 441, NE 224th Street, SW 240th Street	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

N/A

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/06/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-3**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater marsh**	**Direct Impact**	**4.55** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11, 12 & 20 / HUCs 03090101 and 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetland W-3 (located in 12 C-25, HUC 030801010101 Parker Bay) receives stormwater from US Highway 441 and adjacent agricultural fields and conveys water to a ditch along NE 224th Street then to Gomez Creek and Cowbone Creek. Wetland W-11 (located in 20 Southern St. Johns River, HUC HUC 030901012001 Cypress Slough - Chandler Slough) and Wetland W-16A (located in 11 South Kissimmee, HUC 030901012001 Cypress Slough - Chandler Slough) receive stormwater from NW 240th Street and adjacent ag fields and convey water to Fish Slough. Wetland W-22 (located in 11 South Kissimmee, HUC 030901012002 Upper Chandler Slough) receives stormwater from NW 176th Ave and runoff from adjacent ag fields.

Assessment area description

The assessment areas are located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The areas were impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
US Hwy 441, NW 224th St, NW 240th St, NW 176th Ave, Fish Slough, Gore Branch, Gomez Creek and Cowbone Creek	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/06/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-3**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Fill/Structure Impact	**ECT Inc., Steve Florey**	**12/06/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

	Notes
a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	**0**

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

	Notes
a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	**0**

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

	Notes
I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	N/A
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	N/A

Current	With Impact
5	**0**

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4	0

Impact Acres =	0.00308

Additional Notes:

Permanent fill for two structures @ 0.00154 ac each.

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.001232

Impact Delta (ID)	
Current - w/Impact	0.4

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-4**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
631	**Wetland Scrub**	**Direct Impact**	**1.71** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11 & 12 / HUCs 03090101 and 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetlands W-2 and W-4 (located in 12 C-25, HUC 030801010101 Parker Bay) receives stormwater from US Highway 441 and adjacent agricultural fields and convey water to a ditch along NE 224th Street then to Gomez Creek and Cowbone Creek. Wetland W-16 (located in 11 South Kissimmee, HUC 030901012001 Cypress Slough - Chandler Slough) is adjacent to Fish Slough and receives stormwater runoff from SW 240th St and adjacent agricultural fields. Fish Slough (WOTUS) connects downstream to Cypress Slough, then Chandler Slough, and ultimately reaches the Kissimmee River.

Assessment area description

The assessment areas are located in an existing utility right-of-way, and while trees are removed and prevented from growing immediately beneath the aerial utility lines, dense shrubs are present. The shrubs within the right-of-way are dominated by brazillian pepper (Schinus terebinthifolia), saltbush (Baccharis halimifolia), and cabbage palm (Sabal palmetto). The areas were impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Fish Slough, Gomez Creek, Cowbone Creek, US Highway 441, NE 224th Street, SW 240th Street	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

N/A

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/06/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-4**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Fill/ Structure Impact	**ECT Inc., Steve Florey**	**12/6/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	brazillian pepper present in high density. old world climbing fern
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	0

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	0

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	high density of brazillian pepper. old world climbing fern as well
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	None observed
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	n/a

Current	With Impact
6	0

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4333333	0

Impact Delta (ID)	
Current - w/Impact	0.433333333

Impact Acres =	0.001154

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.0005

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-5**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater marsh**	**Temporary Impact**	**0.35** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
20 Southern St. Johns River /HUC 030801010101 Parker Bay	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetland W-5 receives stormwater from nw 240th Street and adjacent agricultural fields and conveys water to a ditch along NW 240th Street then to Parker Bay and ultimately in Fort Drum Creek.

Assessment area description

The assessment area is located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The area was impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
NW 240th St, Parker Bay, Fort Drum Creek, Fort Drum Wildlife Management Area	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/06/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-6**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater Marsh**	**Temporary Impact**	**0.01** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
20 Southern St. Johns River /HUC 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetlands W-6 and W-7 (located in 20 Southern St. Johns River, HUC 030801010101 Parker Bay) and Wetland 9 (located in HUC 030801010103 Upper Fort Drum Creek) receive stormwater from NW 240th St and/or adjacent agricultural lands conveying water to a ditch along NW 240th Street then to Parker Bay and ultimately in Fort Drum Creek.

Assessment area description

The assessment area is located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The area was impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
NW 240th St, Parker Bay, Fort Drum Creek, Fort Drum Wildlife Management Area	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

N/A

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**03/01/23**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-7**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater Marsh**	**Temporary Impact**	**0.08** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
20 Southern St. Johns River /HUC 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetlands W-6 and W-7 (located in 20 Southern St. Johns River, HUC 030801010101 Parker Bay) and Wetland 9 (located in HUC 030801010103 Upper Fort Drum Creek) receive stormwater from NW 240th St and/or adjacent agricultural lands conveying water to a ditch along NW 240th Street then to Parker Bay and ultimately in Fort Drum Creek.

Assessment area description

The assessment area is located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The area was impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
NW 240th St, Parker Bay, Fort Drum Creek, Fort Drum Wildlife Management Area	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

N/A

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/06/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-9**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater Marsh**	**Direct Impact**	**0.03** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
20 Southern St. Johns River /HUC 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetlands W-6 and W-7 (located in 20 Southern St. Johns River, HUC 030801010101 Parker Bay) and Wetland 9 (located in HUC 030801010103 Upper Fort Drum Creek) receive stormwater from NW 240th St and/or adjacent agricultural lands conveying water to a ditch along NW 240th Street then to Parker Bay and ultimately in Fort Drum Creek.

Assessment area description

The assessment area is located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The area was impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
NW 240th St, Parker Bay, Fort Drum Creek, Fort Drum Wildlife Management Area	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

N/A

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/07/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-11**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater marsh**	**Direct Impact**	**0.95** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11, 12 & 20 / HUCs 03090101 and 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetland W-3 (located in 12 C-25, HUC 030801010101 Parker Bay) receives stormwater from US Highway 441 and adjacent agricultural fields and conveys water to a ditch along NE 224th Street then to Gomez Creek and Cowbone Creek. Wetland W-11 (located in 20 Southern St. Johns River, HUC HUC 030901012001 Cypress Slough - Chandler Slough) and Wetland W-16A (located in 11 South Kissimmee, HUC 030901012001 Cypress Slough - Chandler Slough) receive stormwater from NW 240th Street and adjacent ag fields and convey water to Fish Slough. Wetland W-22 (located in 11 South Kissimmee, HUC 030901012002 Upper Chandler Slough) receives stormwater from NW 176th Ave and runoff from adjacent ag fields.

Assessment area description

The assessment areas are located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The areas were impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
US Hwy 441, NW 224th St, NW 240th St, NW 176th Ave, Fish Slough, Gore Branch, Gomez Creek and Cowbone Creek	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/07/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-11**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Fill/ Structure Impact	**ECT Inc., Steve Florey**	**12/07/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	**0**

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	**0**

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	N/A
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	N/A

Current	With Impact
5	**0**

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4	0

Impact Acres =	0.001154

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.0005

Impact Delta (ID)	
Current - w/Impact	0.4

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-16**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
631	**Wetland Scrub**	**Direct Impact**	**3.37** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11 & 12 / HUCs 03090101 and 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetlands W-2 and W-4 (located in 12 C-25, HUC 030801010101 Parker Bay) receives stormwater from US Highway 441 and adjacent agricultural fields and convey water to a ditch along NE 224th Street then to Gomez Creek and Cowbone Creek. Wetland W-16 (located in 11 South Kissimmee, HUC 030901012001 Cypress Slough - Chandler Slough) is adjacent to Fish Slough and receives stormwater runoff from SW 240th St and adjacent agricultural fields. Fish Slough (WOTUS) connects downstream to Cypress Slough, then Chandler Slough, and ultimately reaches the Kissimmee River.

Assessment area description

The assessment areas are located in an existing utility right-of-way, and while trees are removed and prevented from growing immediately beneath the aerial utility lines, dense shrubs are present. The shrubs within the right-of-way are dominated by brazillian pepper (Schinus terebinthifolia), saltbush (Baccharis halimifolia), and cabbage palm (Sabal palmetto). The areas were impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Fish Slough, Gomez Creek, Cowbone Creek, US Highway 441, NE 224th Street, SW 240th Street	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

N/A

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/08/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-16**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Fill/ Structure Impact	**ECT Inc., Steve Florey**	**12/08/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	brazillian pepper present in high density. old world climbing fern
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	0

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	0

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	high density of brazillian pepper. old world climbing fern as well
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	None observed
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	n/a

Current	With Impact
6	0

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4333333	0

Impact Delta (ID)	
Current - w/Impact	0.433333333

Impact Acres =	0.001154

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.00577

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

Permanent fill associated with 5 structures @ .001154 acre apiece in wetlands

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-16A**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater marsh**	**Direct Impact**	**2.01** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11, 12 & 20 / HUCs 03090101 and 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetland W-3 (located in 12 C-25, HUC 030801010101 Parker Bay) receives stormwater from US Highway 441 and adjacent agricultural fields and conveys water to a ditch along NE 224th Street then to Gomez Creek and Cowbone Creek. Wetland W-11 (located in 20 Southern St. Johns River, HUC HUC 030901012001 Cypress Slough - Chandler Slough) and Wetland W-16A (located in 11 South Kissimmee, HUC 030901012001 Cypress Slough - Chandler Slough) receive stormwater from NW 240th Street and adjacent ag fields and convey water to Fish Slough. Wetland W-22 (located in 11 South Kissimmee, HUC 030901012002 Upper Chandler Slough) receives stormwater from NW 176th Ave and runoff from adjacent ag fields.

Assessment area description

The assessment areas are located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The areas were impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
US Hwy 441, NW 224th St, NW 240th St, NW 176th Ave, Fish Slough, Gore Branch, Gomez Creek and Cowbone Creek	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/08/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-16A**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Fill/Structure Impact	**ECT Inc., Steve Florey**	**12/08/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	**0**

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	**0**

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	N/A
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	N/A

Current	With Impact
5	**0**

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4	0

Impact Acres =	0.00308

Additional Notes:

Permanent fill for two structures @ 0.00154 ac each.

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.001232

Impact Delta (ID)	
Current - w/Impact	0.4

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-22**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater marsh**	**Direct Impact**	**0.42** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11, 12 & 20 / HUCs 03090101 and 03080101	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetland W-3 (located in 12 C-25, HUC 030801010101 Parker Bay) receives stormwater from US Highway 441 and adjacent agricultural fields and conveys water to a ditch along NE 224th Street then to Gomez Creek and Cowbone Creek. Wetland W-11 (located in 20 Southern St. Johns River, HUC HUC 030901012001 Cypress Slough - Chandler Slough) and Wetland W-16A (located in 11 South Kissimmee, HUC 030901012001 Cypress Slough - Chandler Slough) receive stormwater from NW 240th Street and adjacent ag fields and convey water to Fish Slough. Wetland W-22 (located in 11 South Kissimmee, HUC 030901012002 Upper Chandler Slough) receives stormwater from NW 176th Ave and runoff from adjacent ag fields.

Assessment area description

The assessment areas are located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The areas were impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
US Hwy 441, NW 224th St, NW 240th St, NW 176th Ave, Fish Slough, Gore Branch, Gomez Creek and Cowbone Creek	**Typical for region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/21/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-22**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Fill/ Structure Impact	**ECT Inc., Steve Florey**	**12/21/22**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	**0**

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	**0**

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	N/A
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	N/A

Current	With Impact
5	**0**

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4	0

Impact Acres =	0.001154

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.0006

Impact Delta (ID)	
Current - w/Impact	0.4

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-24**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
630	**Wetland Forested Mixed**	**Direct/Temporary Impact**	**3.82** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11 South Kissimmee/HUC 030901012002	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetland W-24 abuts Gore Branch (WOTUS) and receives stormwater from NW 176th Ave and irrigation from adjacent agricultural lands. Gore Branch connects downstream to Chandler Slough and ultimately reaches the Kissimmee River.

Assessment area description

HUC 030901012002 (provided above) is the Upper Chandler Slough. The assessment area is an existing utility right-of-way, and while trees are removed and prevented from growing immediately beneath the aerial utility lines, the height of trees within the right-of-way is maintained to avoid interference with the aerial lines. The trees within the right-of-way include cabbage palm (Sabal palmetto) and laurel oaks (Quercus laurifolia).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Gore Branch, NW 176th Ave, NW 240th St	**Typical**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, small mammals, and deer	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**12/21/2022**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-24**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Fill /Structure Impact	**ECT Inc., Steve Florey**	**12/21/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded. Minor fencing along roadway.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	**3**

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	**4**

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	None observed
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	n/a

Current	With Impact
6	**6**

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4333333	0

Impact Acres =	0.00462

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.002

Impact Delta (ID)	
Current - w/Impact	0.4333

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

This wetland has four proposed structures located in it, each structure = 001154 acre impact.

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-24**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Conversion (Permanently Maintained)	**ECT Inc., Steve Florey**	**12/21/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

Enter Notes below (do NOT score each subcategory individually)

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded. Minor fencing along roadway.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	**2**

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	**4**

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	None observed
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	n/a

Current	With Impact
6	**3**

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4333333	0.300

Impact Acres =	0.6000

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = Delta x Time Lag x Impact Acres =	0.080

Impact Delta (ID)	
Current - w/Impact	0.1333

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

Part of this wetland will be permanently converted from forested to herbaceous, for the portion within the permanently maintained utility easement.

Time lag = 1.0

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-24**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Temporary Impact	**ECT Inc., Steve Florey**	**12/21/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA**.**	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded. Minor fencing along roadway.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	**2**

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
4	**4**

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	None observed
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	n/a

Current	With Impact
6	**3**

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.4333333	0.30

Impact Acres =	0.1283

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = Delta x Time Lag x Impact Acres =	0.0250

Impact Delta (ID)	
Current - w/Impact	0. 130

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-34**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
630	**Wetland Forested Mixed**	**Temporary/Direct Impact**	**3.48** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11 South Kissimmee/HUC 030901012002	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetland W-34 abuts Gore Branch (WOTUS) and receives stormwater from NW 176th Ave and irrigation from adjacent agricultural lands. Gore Branch connects downstream to Chandler Slough and ultimately reaches the Kissimmee River.

Assessment area description

HUC 030901012002 (provided above) is the Upper Chandler Slough. The assessment area is an existing utility right-of-way, and while trees are removed and prevented from growing immediately beneath the aerial utility lines, the height of trees within the right-of-way is maintained to avoid interference with the aerial lines. The trees within the right-of-way include cabbage palm (Sabal palmetto), willow (Salix nigra), red maple (Acer rubrum) and laurel oaks (Quercus laurifolia). The areas along the Gore Branch bank are only have herbaceous vegetation while a culverted tributary (approximately 250 feet southwest of NW 190th Rd) is densely vegetated and will required more underbrush clearing than other areas.

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Gore Branch,	**Typical**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

N/A

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**01/04/2023**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-34**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Temporary Impact	**ECT Inc., Steve Florey**	**01/04/2023**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA.	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded. Minor fencing along roadway.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	2

Additional Notes: While these wetlands are undeveloped and have not previously been converted, they are in close proximity to a heavily traveled road and low density residential development. The wetland provides wildlife habitat and access.

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
6	6

Additional Notes: The water levels fluctuate in response to hurricanes, rainfall, drought etc. The wetlands are only saturated/inundated during the rainy season. The wetland was likely more inundated, but NW 176th Ave prevents significant backflow from Gore Branch upstream to this system.

.500(6)(c) Community Structure

X Vegetation
____ Benthic
____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	None observed
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	n/a

Current	With Impact
6	3

Additional Notes: The community structure is appropriate for the areas immediately outside the aerial crossing.

Raw Score = Sum of above scores/30 (if uplands, divide by 20)

Current	With Impact
0.5	0.37

Impact Acres =	0.04

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = Delta x TIme Lag (1.46) x Impact Acres =	0.0078

Impact Delta (ID)	
Current - w/Impact	0.13

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-34**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Conversion Impact (Permanently Maintained)	**ECT Inc., Steve Florey**	**01/04/2023**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and agricultural lands
b. **Invasive plant species** in proximity to AA.	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded. Minor fencing along roadway.
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Additional Notes: While these wetlands are undeveloped and have not previously been converted, they are in close proximity to a heavily traveled road and low density residential development. The wetland provides wildlife habitat and access.

Current	With Impact
3	2

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Additional Notes: The water levels fluctuate in response to hurricanes, rainfall, drought etc. The wetlands are only saturated/inundated during the rainy season. The wetland was likely more inundated, but NW 176th Ave prevents significant backflow from Gore Branch upstream to this system.

Current	With Impact
6	6

.500(6)(c) Community Structure

X Vegetation

____ Benthic

____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	None observed
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	n/a

Additional Notes: The community structure is appropriate for the areas immediately outside the aerial crossing.

Current	With Impact
6	3

Raw Score = Sum of above scores/30 (if uplands, divide by 20)

Current	With Impact
0.5	0.37

Impact Delta (ID)	
Current - w/Impact	0.133

Impact Acres =	0.67

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = Delta x TIme Lag (1.0) x Impact Acres	= 0.0413

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigaiton bank.

Additional Notes:

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
Sweatt Basinger		**W-48**

FLUCCs code	Further classification (optional)	Impact Type	Assessment Area Size
641	**Freshwater Marsh**	**Direct Impact**	**0.93** Acres

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)
11 /HUC 030901012003, Upper Chandler Slough	**N/A**	**N/A**

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Wetland W-48 (located in 11 South Kissimmee /HUC 030901012003, Upper Chandler Slough) receives stormwater from US Highway 98 N and NW 176th Ave and adjacent agricultural lands conveying water to a ditch along NW 176th Ave then to NWI:DW-8 and ultimately to Chandler Slough.

Assessment area description

The assessment area is located in an existing utility right-of-way. The vegetation is dominated by soft rush (Juncus effusus), bushy bluestem (Andropogon glomeratus) and/or pickerelweed (Pontederia cordata). The area was impacted by agricultural activities historically based on the review of aerial imagery since 1994 (Google Earth).

Significant Nearby Features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
US Hwy 98, NW 176th Ave, Chandler Slough, Kissimmee River	**Typical for the region**
Functions	Mitigation for previous permit/other historic use
Flood attenuation, water quality, groundwater recharge	**None**
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Small forest lizards, passerine birds, snakes, and small mammals	**Not anticipated. None documented or observed onsite.**

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None observed

Additional relevant factors:

N/A

Assessment conducted by:	Assessment date(s):
ECT Inc., Steve Florey	**01/06/2023**

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name:	Application Number:	Assessment Area Name or Number:
Sweatt Basinger	**-**	**W-48**
Impact or Mitigation:	Assessment Conducted by:	Assessment Date:
Permanent Fill/Structure Impact	**ECT Inc., Steve Florey**	**01/06/2022**

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

Enter Notes below (do NOT score each subcategory individually)

.500(6)(a) Location and Landscape Support

a. Quality and quantity **of habitat support** outside of AA.	Surrounding areas include high intensity roadways and residential lands
b. **Invasive plant species** in proximity to AA**.**	old world climbing fern found throughout project area
c. **Wildlife access** to and from AA (proximity and barriers).	Wildlife access is not significantly impeded. Minor fencing
d. **Downstream benefits** provided to fish and wildlife.	Downstream benefits include flood attenuation and treatment
e. Adverse impacts to wildlife in AA from **land uses** outside of AA.	Vehicular impacts to wildlife, noise, trash, and light pollution
f. **Hydrologic impediments and flow restrictions.**	None identified
g. **Dependency** of downstream habitats on quantity or quality of discharges.	No issues if erosion/sediment controls are in place
h. Protection of wetland functions provided by uplands (**upland** AAs only).	N/A

Current	With Impact
3	0

Additional Notes:

.500(6)(b) Water Environment (n/a for uplands)

a. Appropriateness of **water levels and flows**.	Appropriate water levels and flows
b. Reliability of **water level indicators**.	Reliable
c. Appropriateness of **soil moisture**.	Appropriate based on conveyance
d. **Flow rates**/points of discharge.	Appropriate
e. **Fire history** (frequency/severity).	No fire due to proximity to road
f. **Appropriate vegetative and/or benthic zonation**.	Appropriate
g. **Hydrologic stress** on vegetation.	None
h. **Use by animal**s with hydrologic requirements.	No use
i. **Plant community composition** associated with water quality (i.e., plants tolerant of poor WQ).	Only herbaceous species present
j. **Water quality of standing water by observation** (I.e., discoloration, turbidity).	None observed
k. **Water quality data** for the type of community.	None collected or available
l. **Water depth, wave energy, and currents**.	N/A

Current	With Impact
2	0

Additional Notes:

.500(6)(c) Community Structure

X Vegetation

_____ Benthic

_____ Both

I. Appropriate/desirable species	Appropriate
II. Invasive/exotic plant species	old world climbing fern found throughout project area
III. Regeneration/recruitment	Prevented due to maintenance activities
IV. Age, size distribution.	Appropriate for maintained ROW
V. Snags, dens, cavity, etc.	N/A
VI. Plants' condition.	Appropriate for maintained ROW
VII. Land management practices.	Mowing herbicide application and dredging to maintain drain
VIII. Topographic features (refugia, channels, hummocks).	None observed
IX. Submerged vegetation (only score if present).	None observed
X. Upland assessment area	N/A

Current	With Impact
4	0

Additional Notes:

Raw Score = Sum of above scores/30 (if uplands, divide by 20)	
Current	**With Impact**
0.3	0

Impact Acres =	0.001154

Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.0005

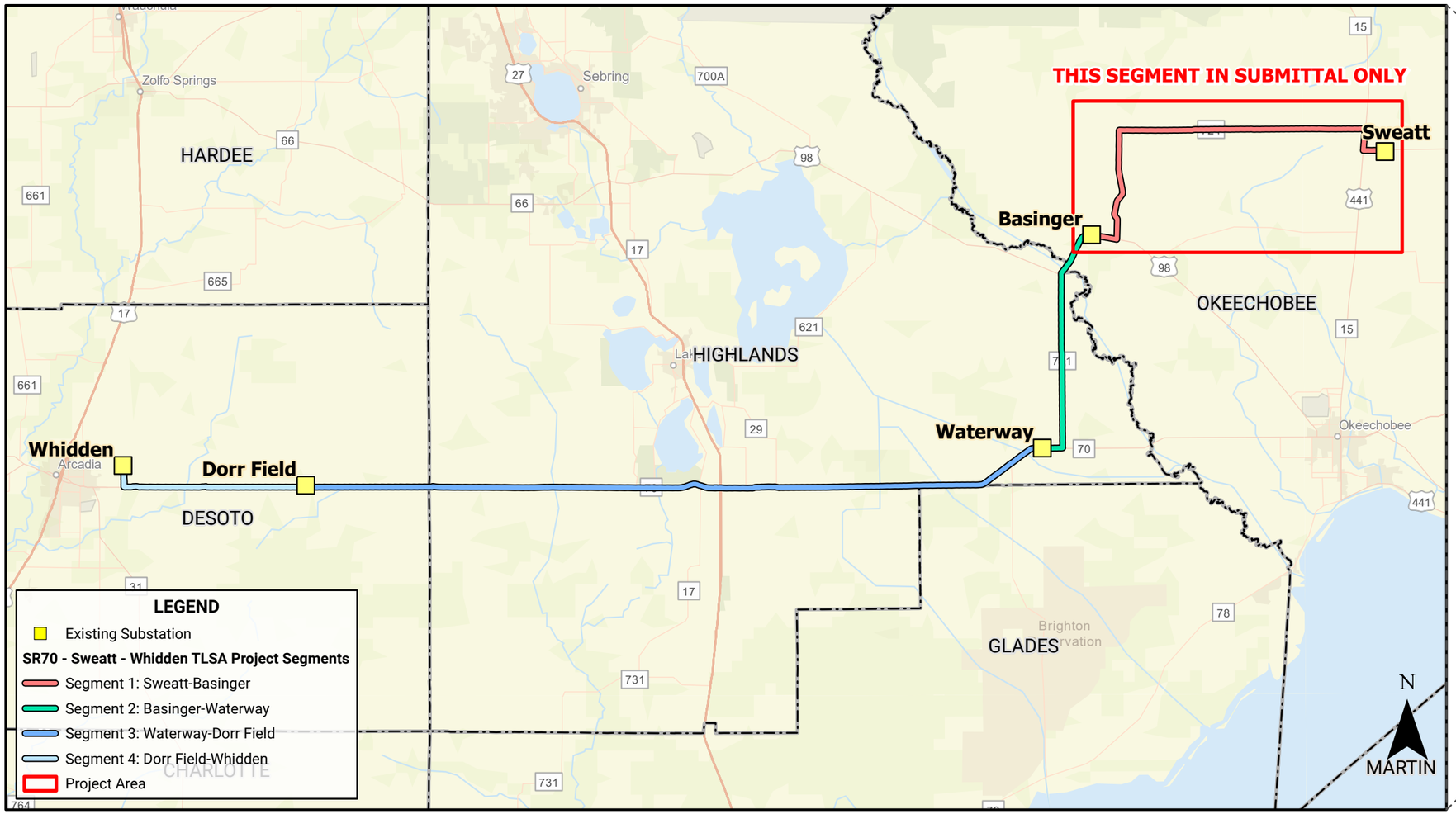
Impact Delta (ID)	
Current - w/Impact	0.3

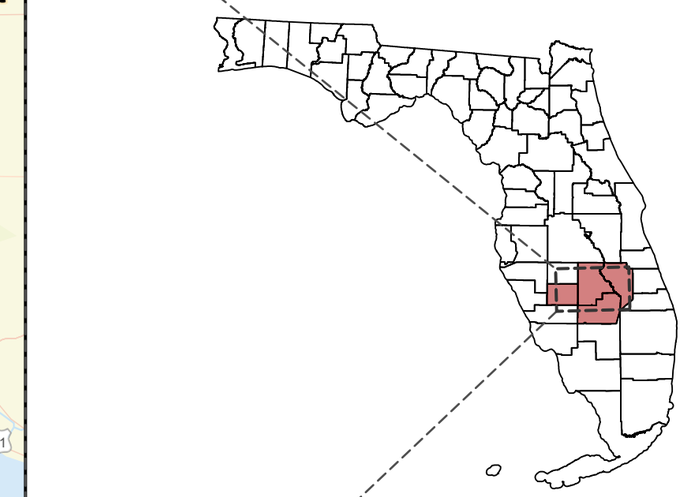
NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigation bank.

Additional Notes:

Attachment 16 – Civil Design Drawings

Sweatt to Whidden 230kV Transmission Line - TA22-19
Civil Access Drawings
Segment 1: Sweatt - Basinger Map





PROJECT LOCATION

DESOTO COUNTY
GLADES COUNTY
HIGHLANDS COUNTY
OKEECHOBEE COUNTY

MICHAEL K. LEAHY LICENSE No. 45287 STATE OF FLORIDA PROFESSIONAL ENGINEER

MICHAEL K. LEAHY P.E. #45287

1. This document has been electronically signed and sealed by Michael Leahy, P.E., P.S.M. using a Digital Signature and date.
2. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

REV	DATE	DESCRIPTION	BY	CKD	APP
0	3/13/2023	ISSUED FOR PERMIT SUBMITTAL	ANG	BJW	BJW

FLORIDA POWER & LIGHT COMPANY — **Sweatt-Whidden TLSA Project, TA22-19**

SCALE: NTS
DRAWN BY: ANG
ENGINEER: MKL
COUNTY: DESOTO, GLADES, HIGHLANDS, OKEECHOBEE
DATE: 3/13/2023
CHECKED BY: BJW
SECTION: AS SHOWN
SHEET 1 OF 39

PROPOSED SWEATT - WHIDDEN 230KV LINE
SEGMENT 1: SWEATT - BASINGER
COVER SHEET

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LEGEND

- Existing Substation
- Sweatt-Basinger Project Centerline (T30424)

NOTES:

FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT,
TA22-19 CIVIL DRAWINGS

SCALE: NTS
DRAWN BY: ANG
ENGINEER: MKL

DATE: 3/13/2023
CHECKED BY: BJW
SECTION: AS SHOWN

FPL

SEGMENT 1: SWEATT-BASINGER CIVIL DRAWINGS INDEX MAP

LINE NAME:	**SWEATT - WHIDDEN 230KV**
LINE SECTION:	**SWEATT - BASINGER**
COUNTY:	**OKEECHOBEE**
DESCRIPTION:	**SEGMENT 1: SWEATT - BASINGER CIVIL DRAWINGS - TA22-19**
IO:	**T30424**
ENGINEER:	**MIKE LEAHY**

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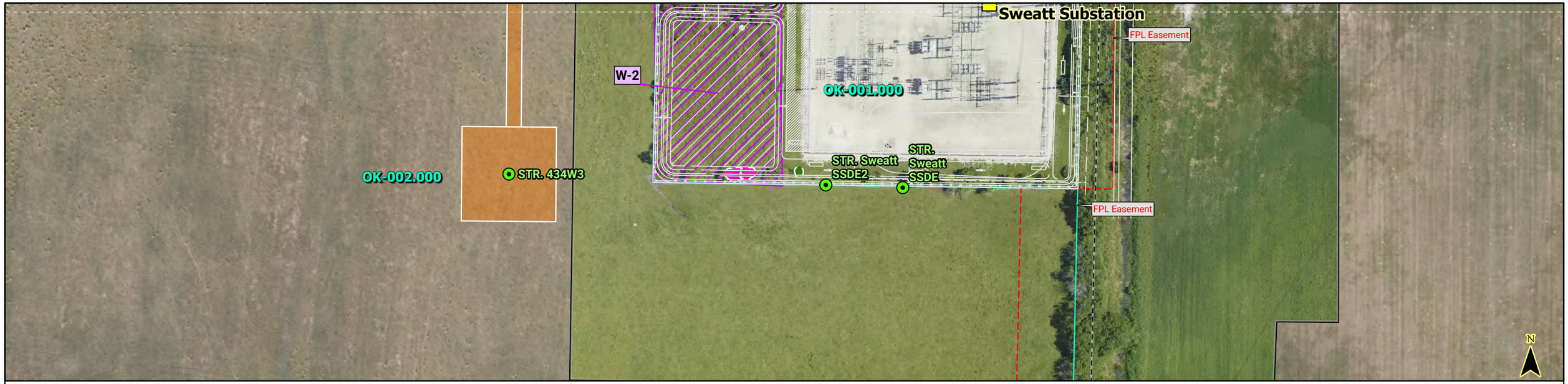

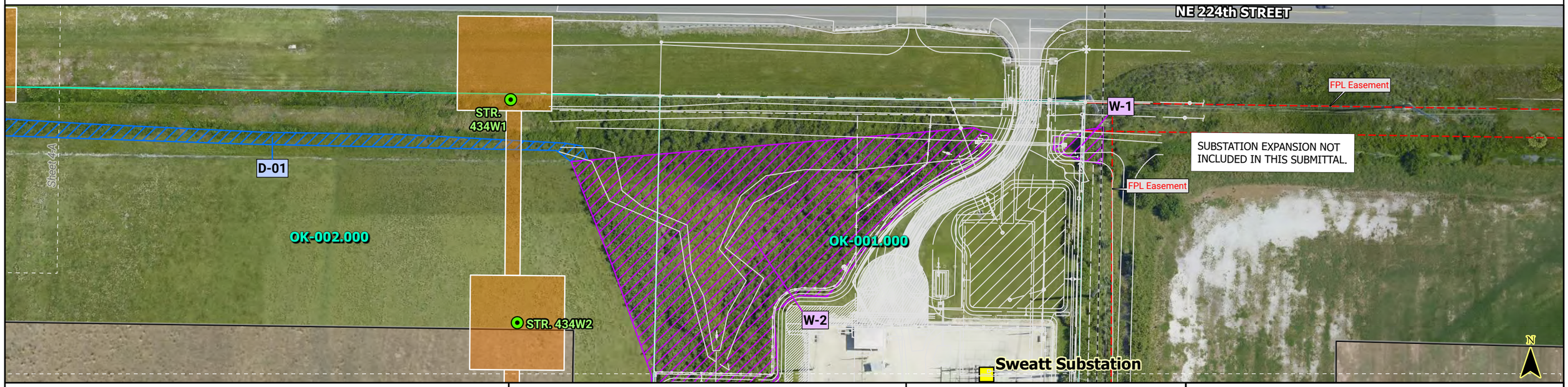

LEGEND

- Proposed Transmission Structure
- Proposed Guy Anchors
- Existing Substation
- Proposed Permanent Matting
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- Substation Desgin
- Proposed FPL Easement
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- TLSA Corridor Sweatt-Whidden
- County Boundary

NOTES:

FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

SCALE: 1" = 100' *DATE: 3/13/2023*
DRAWN BY: ANG *CHECKED BY: BJW*
ENGINEER: MKL *SECTION: AS SHOWN*

FPL

Segment 1: Sweatt-Basinger Map Series

LINE NAME:	**SWEATT - WHIDDEN 230KV LINE**
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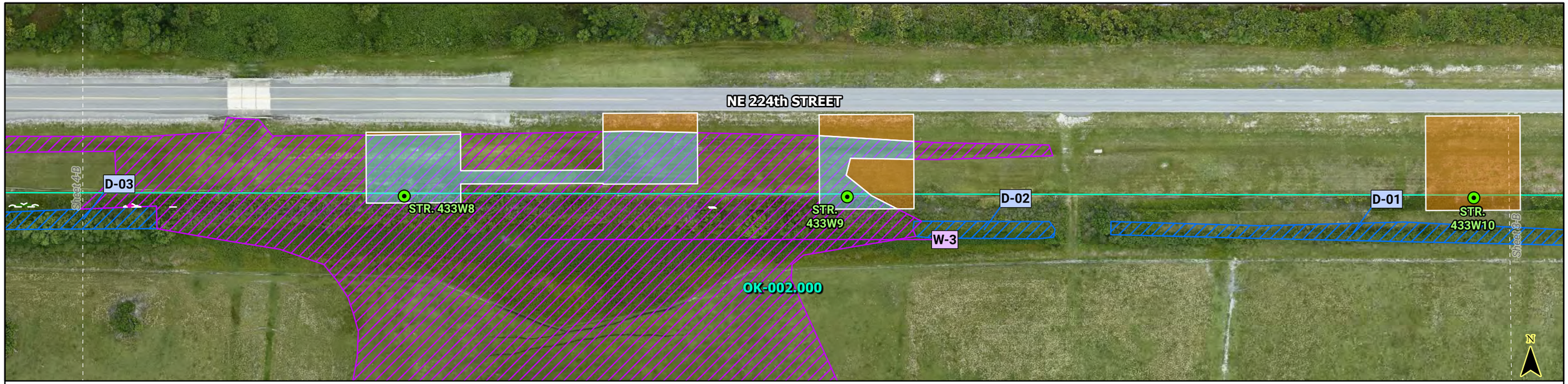

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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FPL

Segment 1: Sweatt-Basinger Map Series

LINE NAME: **SWEATT - WHIDDEN 230KV LINE**

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IO: **T30424**

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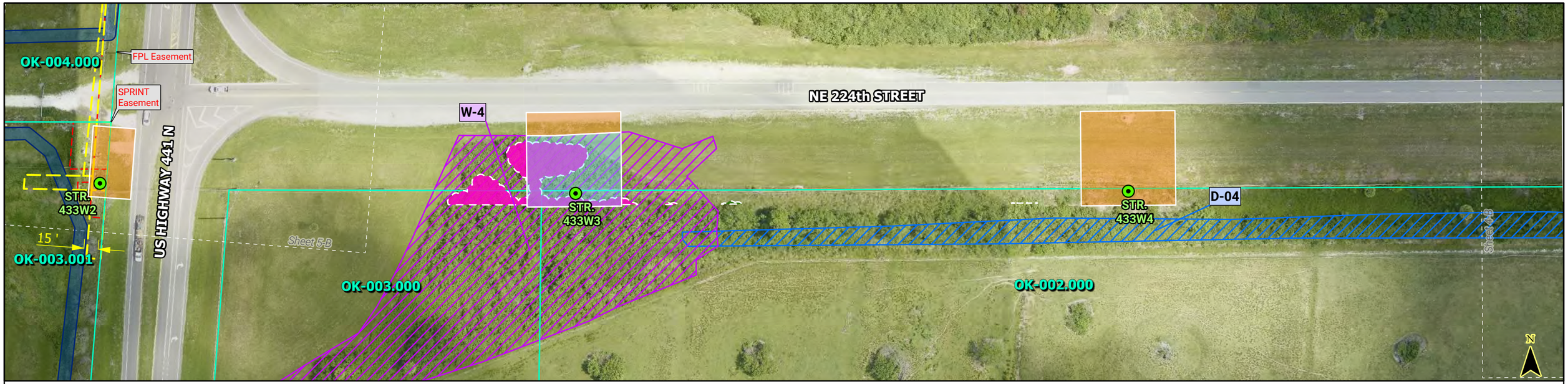

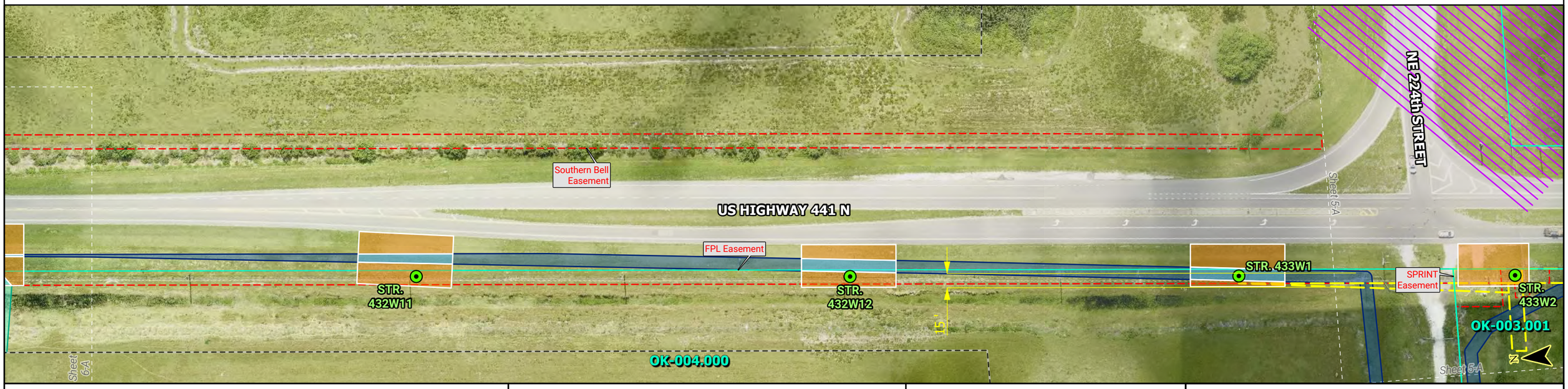

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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Segment 1: Sweatt-Basinger Map Series

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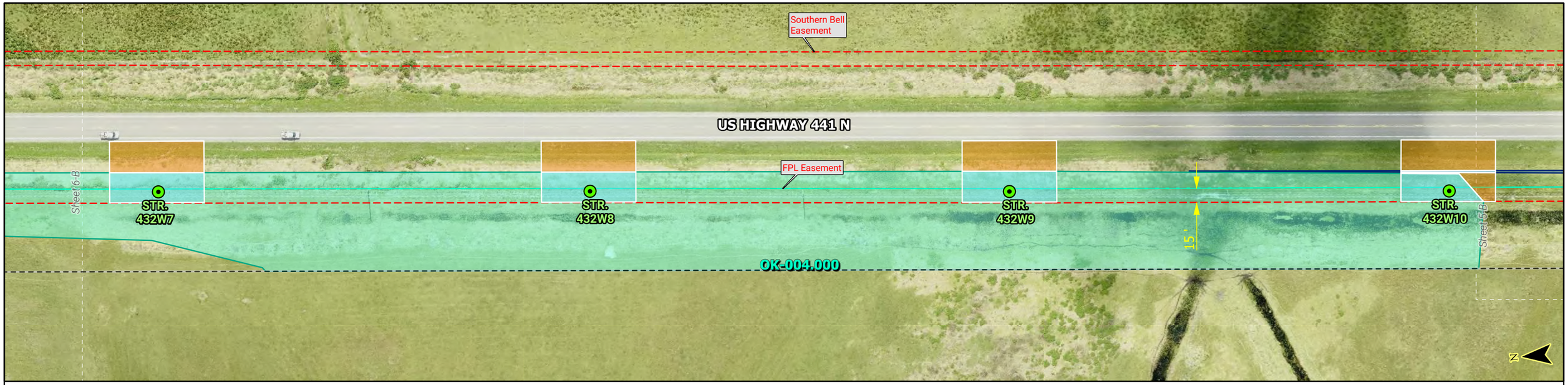

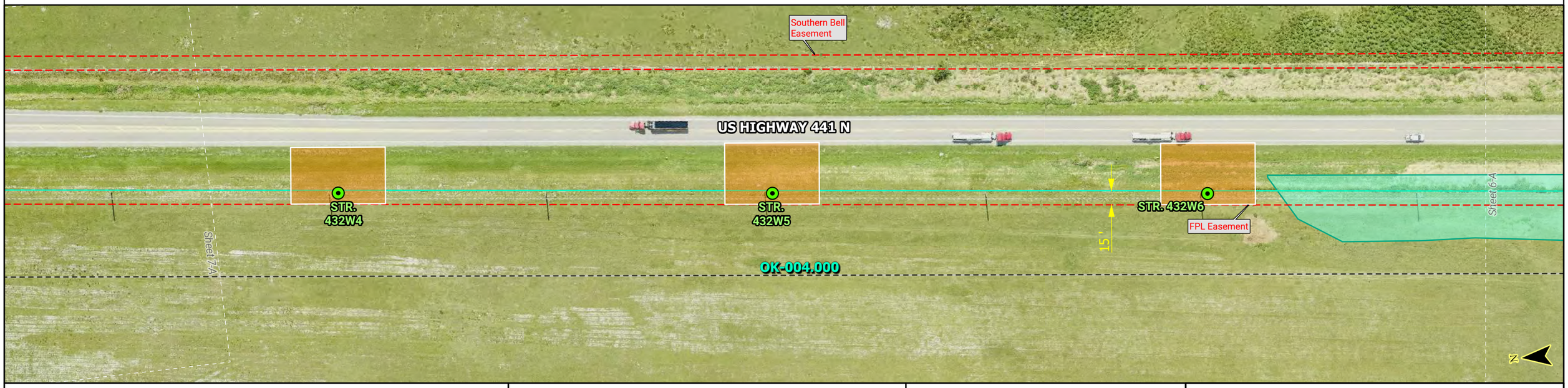

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

SCALE: 1" = 100' *DATE: 3/13/2023*
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Segment 1: Sweatt-Basinger Map Series

LINE NAME:	**SWEATT - WHIDDEN 230KV LINE**
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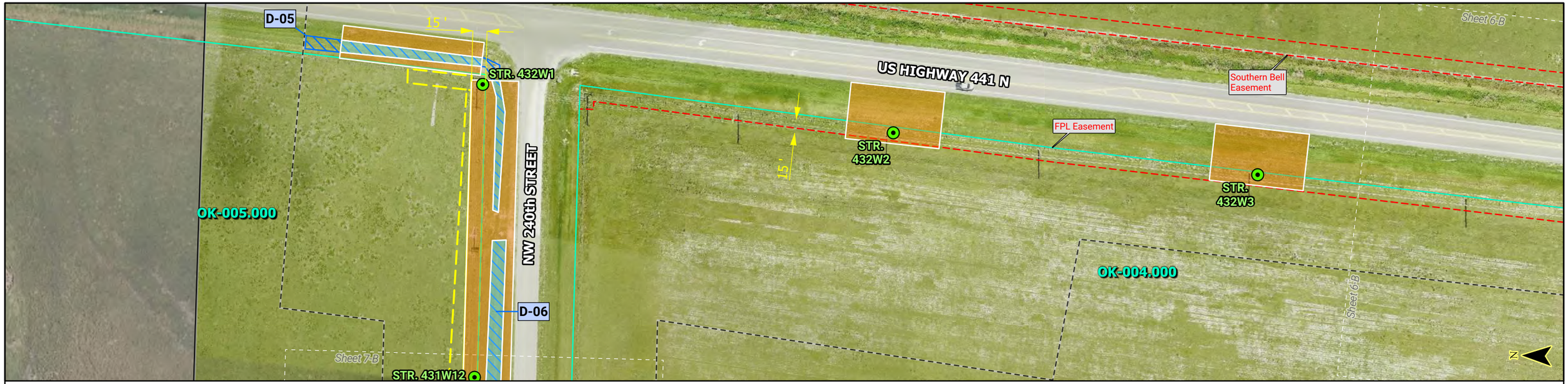

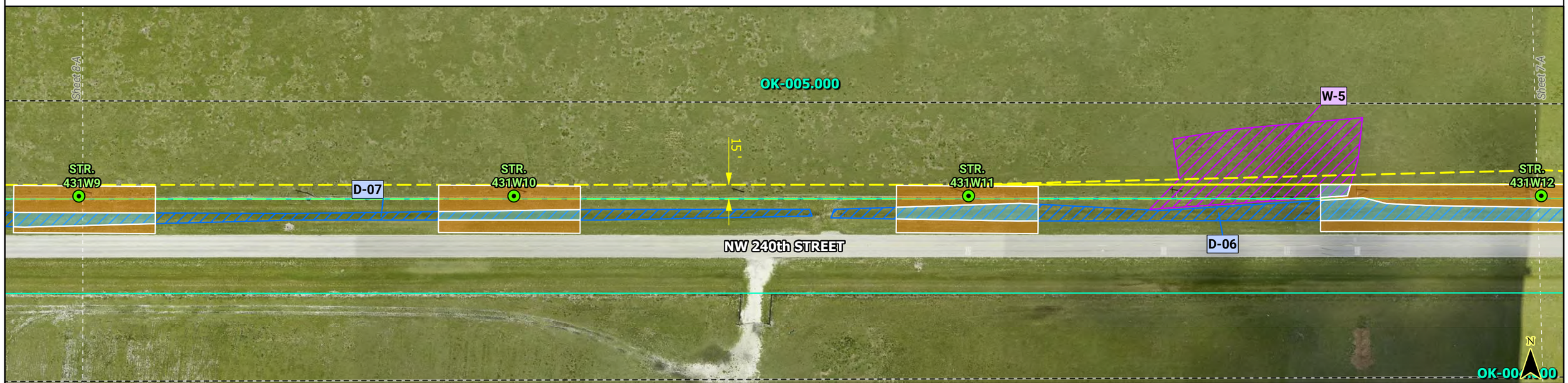

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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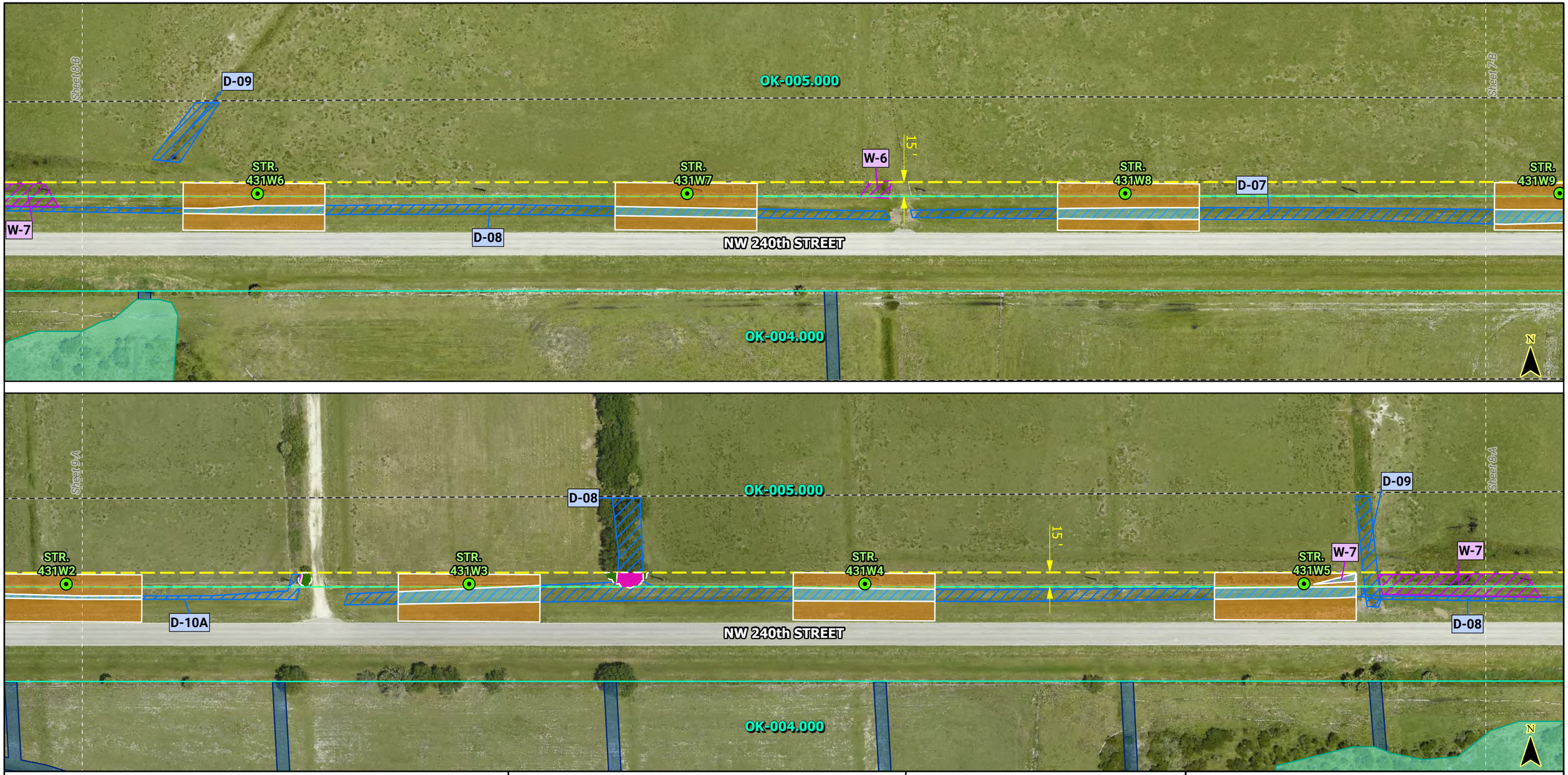

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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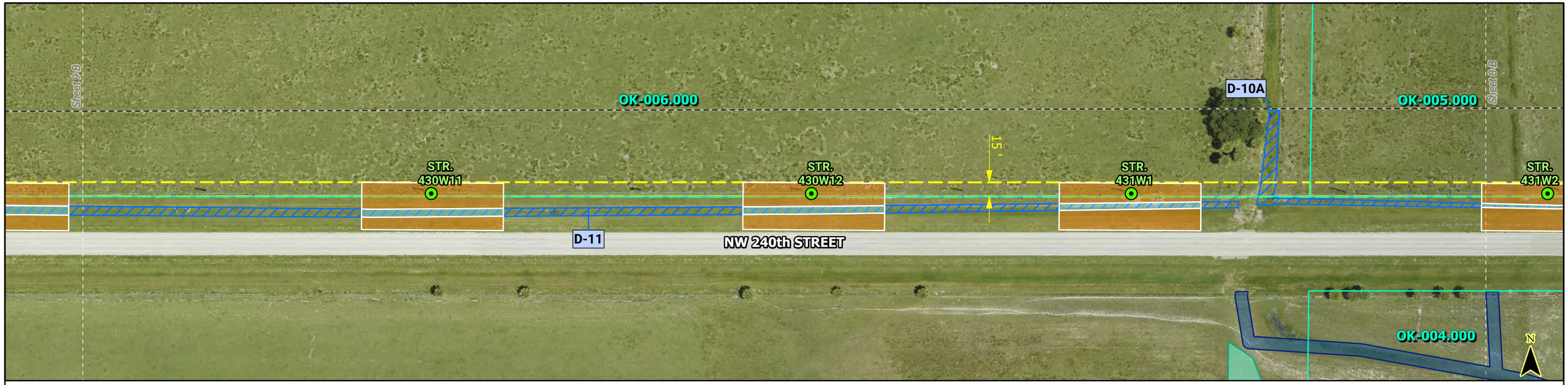

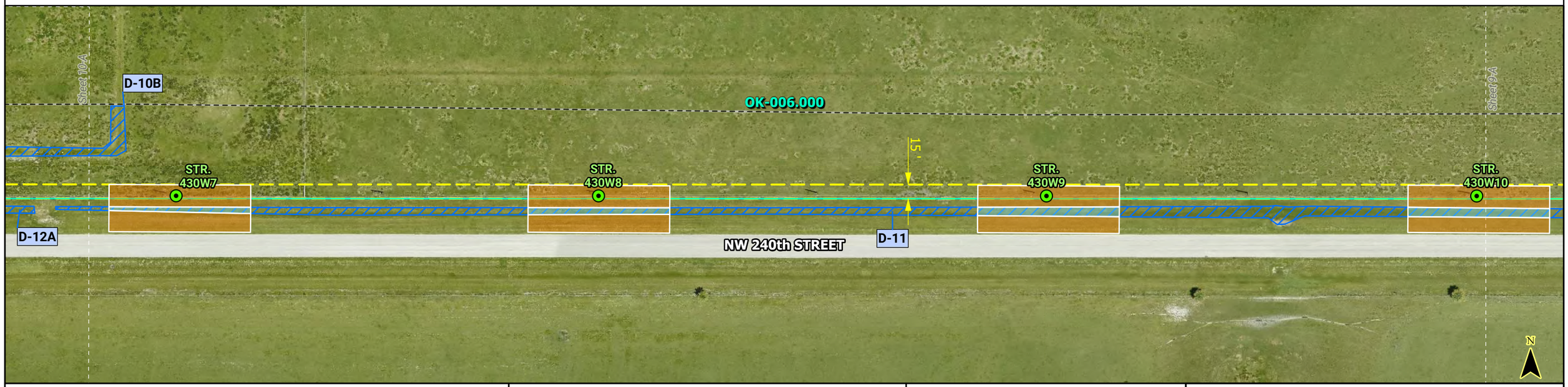

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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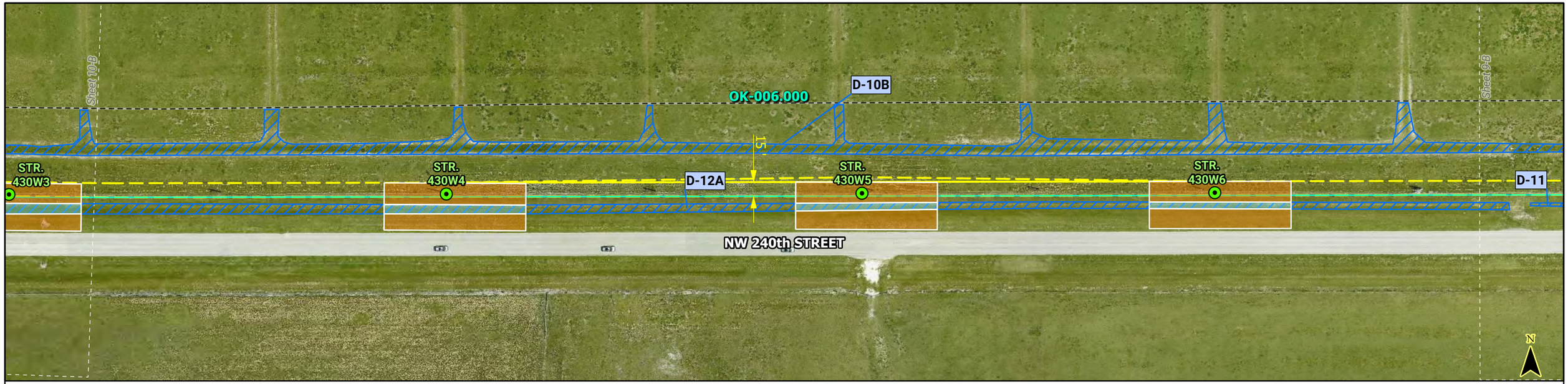

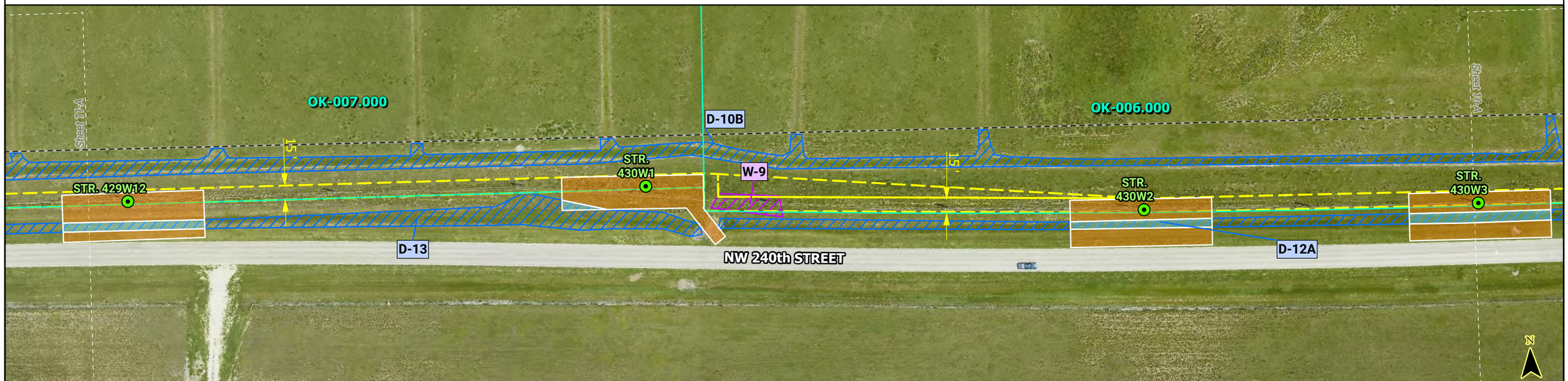

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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FPL

Segment 1: Sweatt-Basinger Map Series

LINE NAME: **SWEATT - WHIDDEN 230KV LINE**

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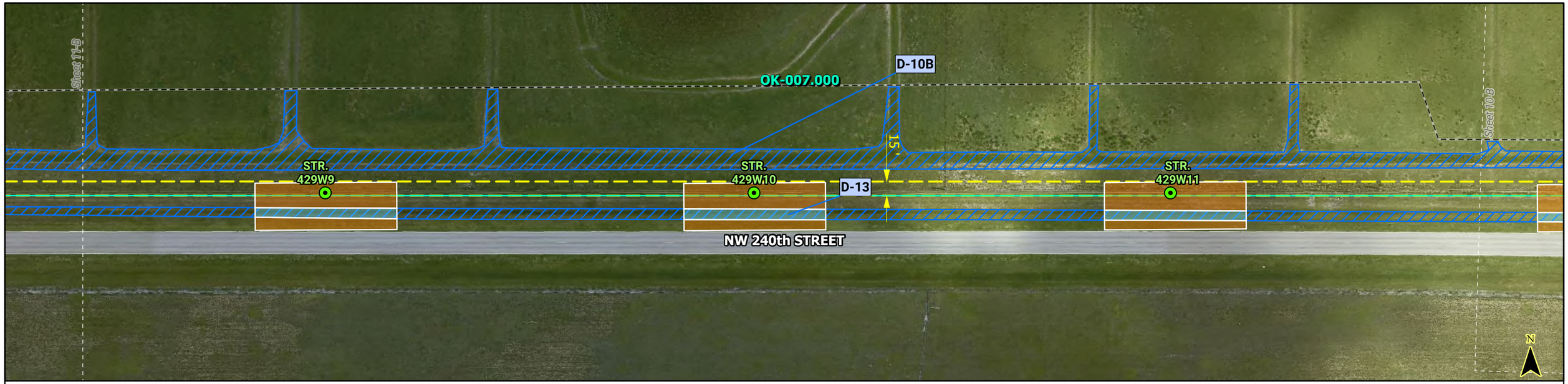

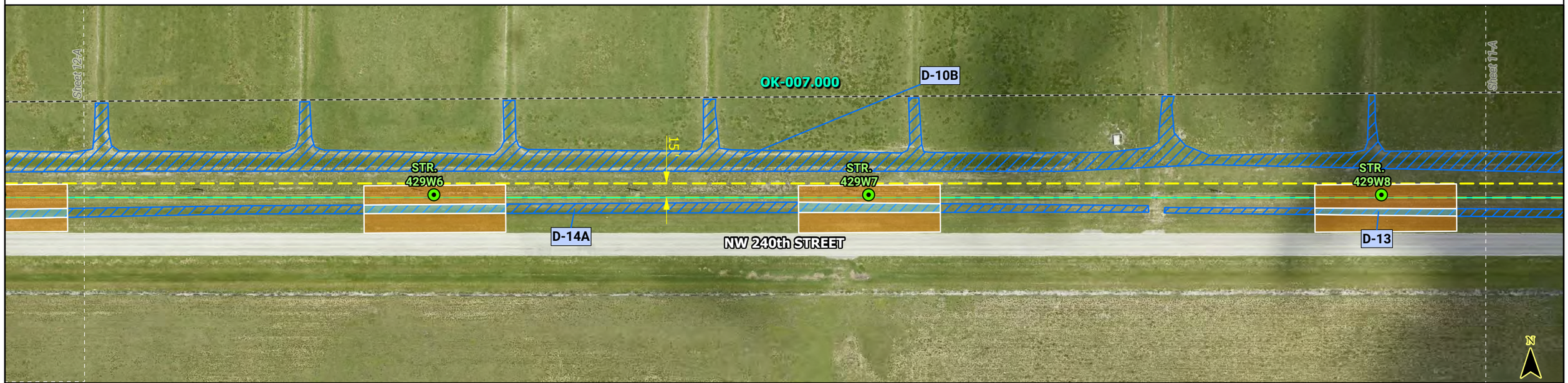

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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Segment 1: Sweatt-Basinger Map Series

LINE NAME: **SWEATT - WHIDDEN 230KV LINE**
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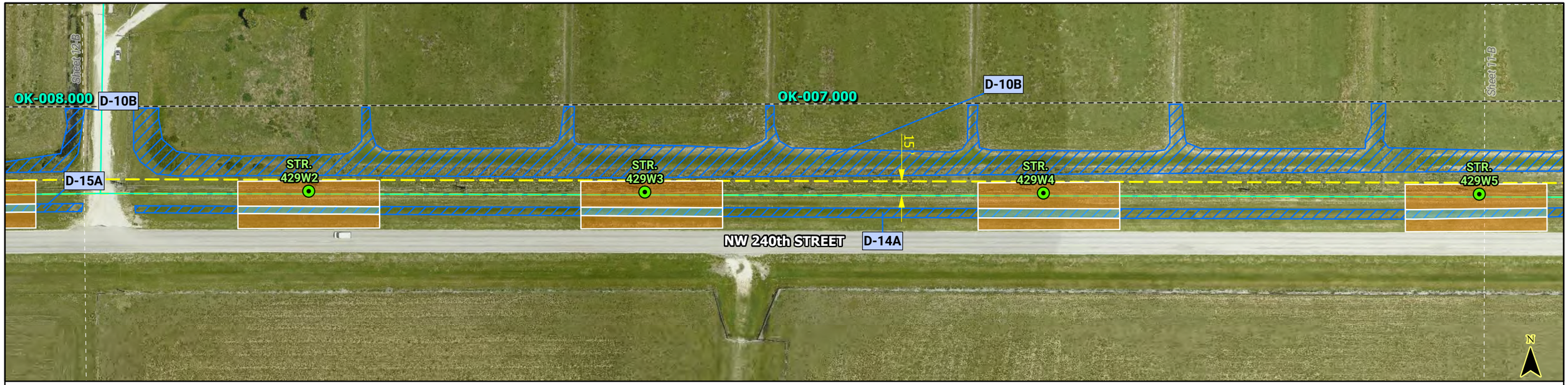

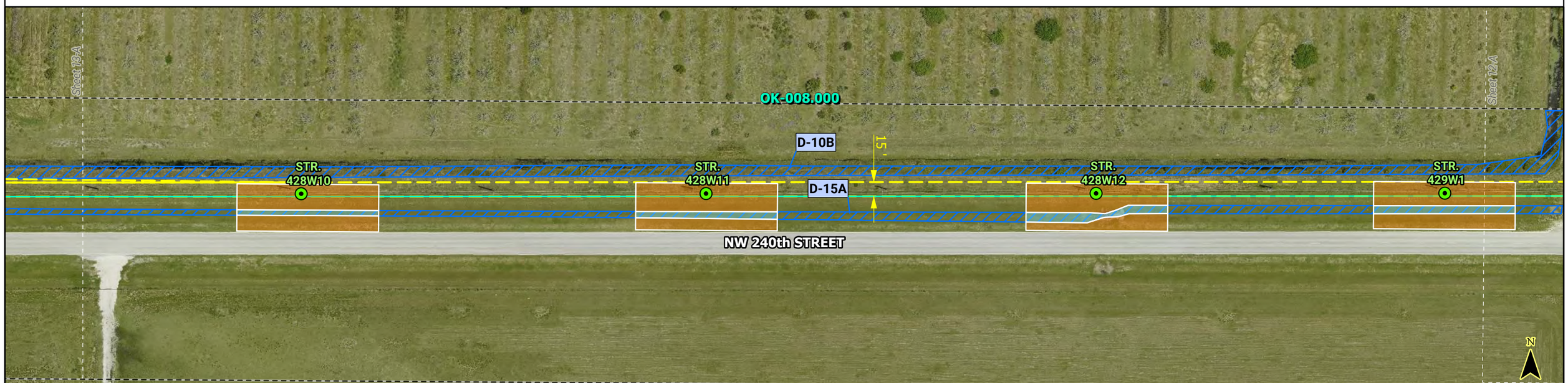

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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Segment 1: Sweatt-Basinger Map Series

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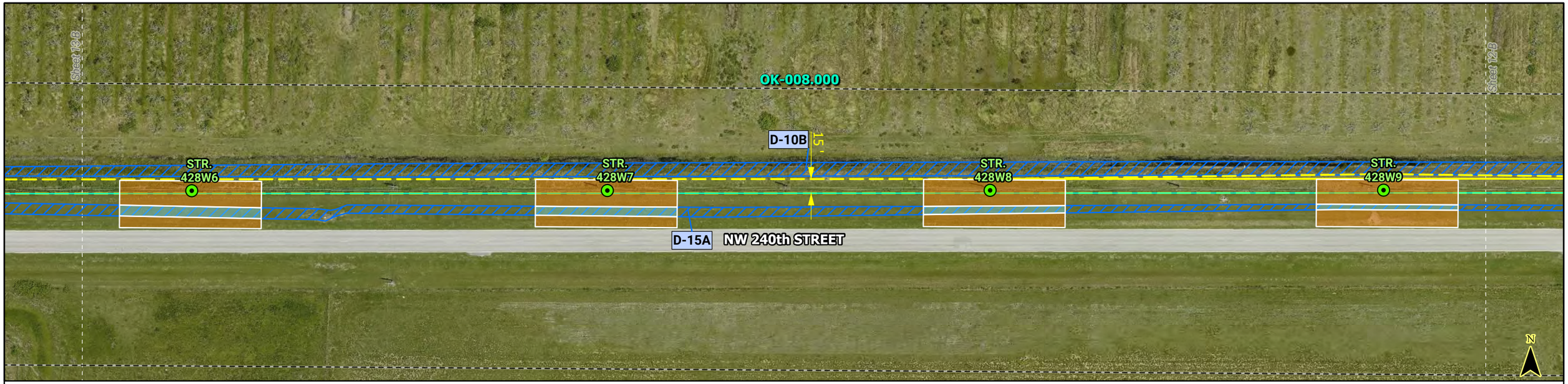

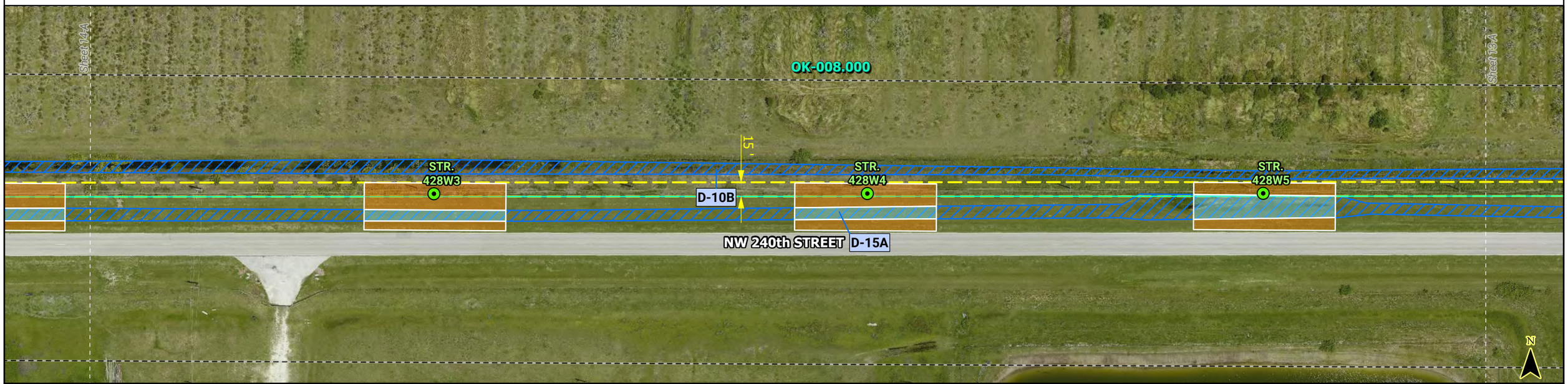

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FLORIDA POWER & LIGHT COMPANY

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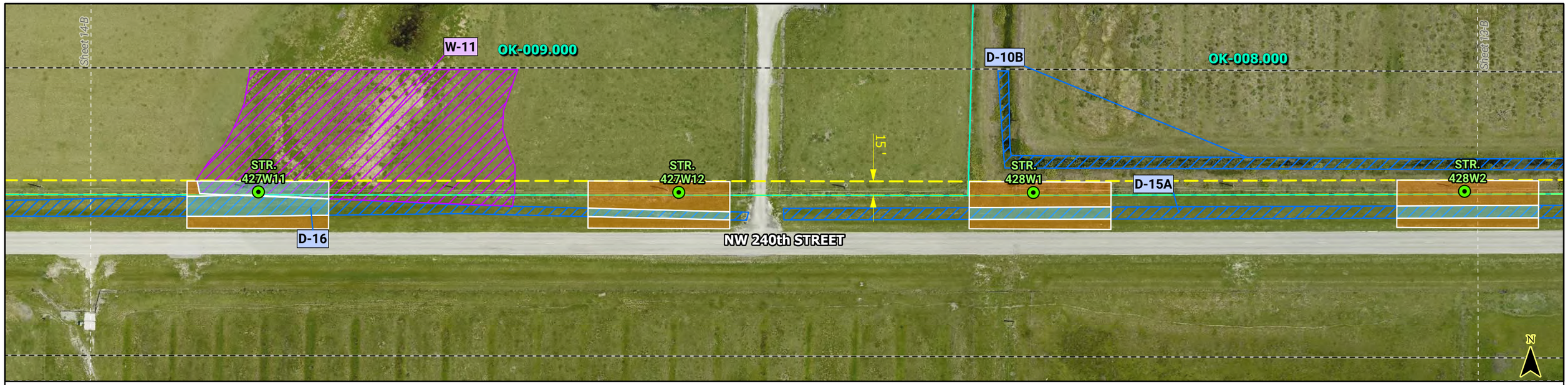

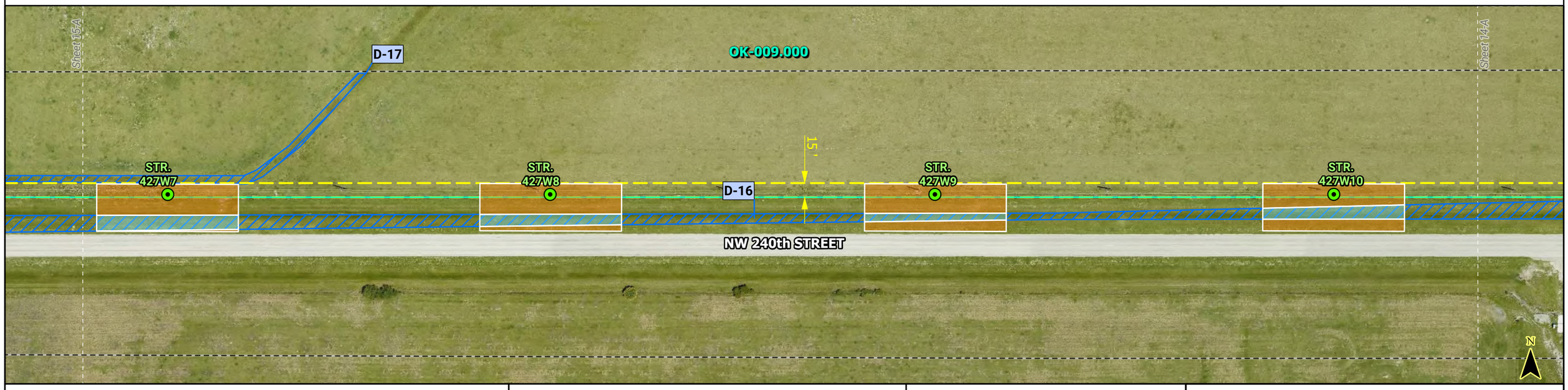

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Segment 1: Sweatt-Basinger Map Series

LINE NAME: **SWEATT - WHIDDEN 230KV LINE**

LINE SECTION: **SWEATT - BASINGER**

COUNTY: **OKEECHOBEE**

DESCRIPTION: **SEGMENT 1: SWEATT-BASINGER CIVIL DRAWINGS - TA22-19**

IO: **T30424**

ENGINEER: **MIKE LEAHY**

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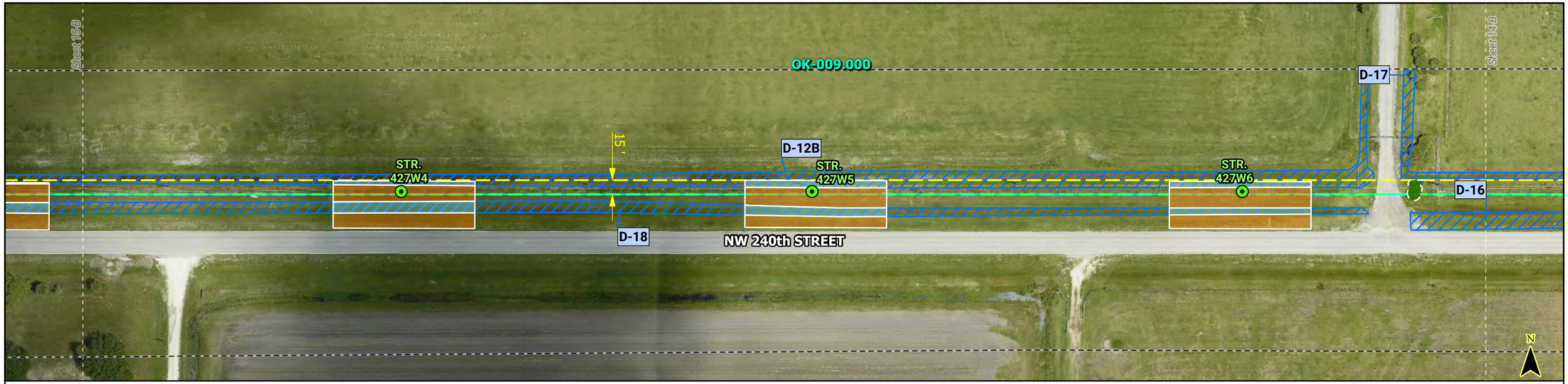

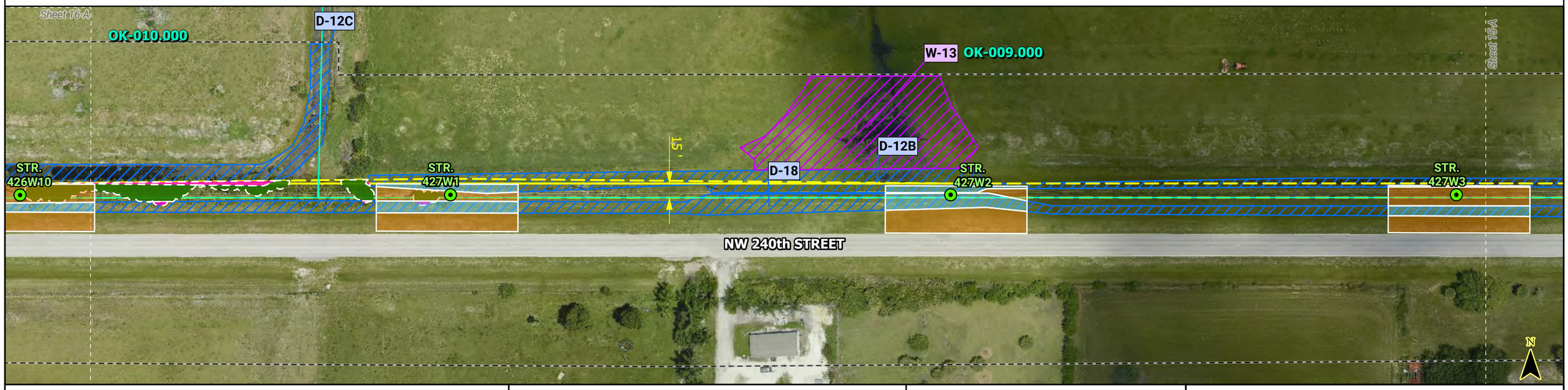

LEGEND

- Proposed Transmission Structure
- Proposed Guy Anchors
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- Substation Desgin
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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

SCALE: 1" = 100' *DATE: 3/13/2023*
DRAWN BY: ANG *CHECKED BY: BJW*
ENGINEER: MKL *SECTION: AS SHOWN*

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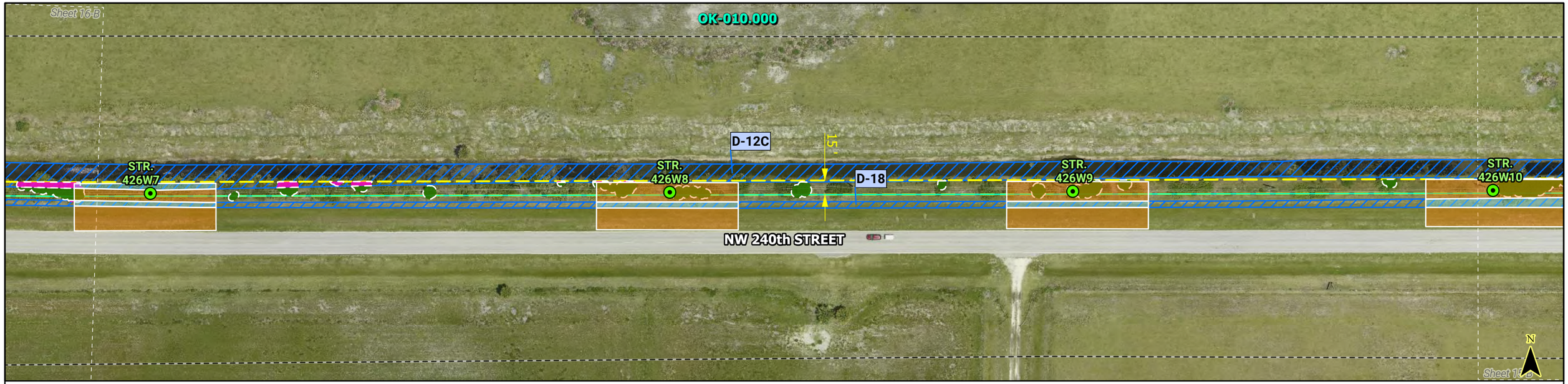

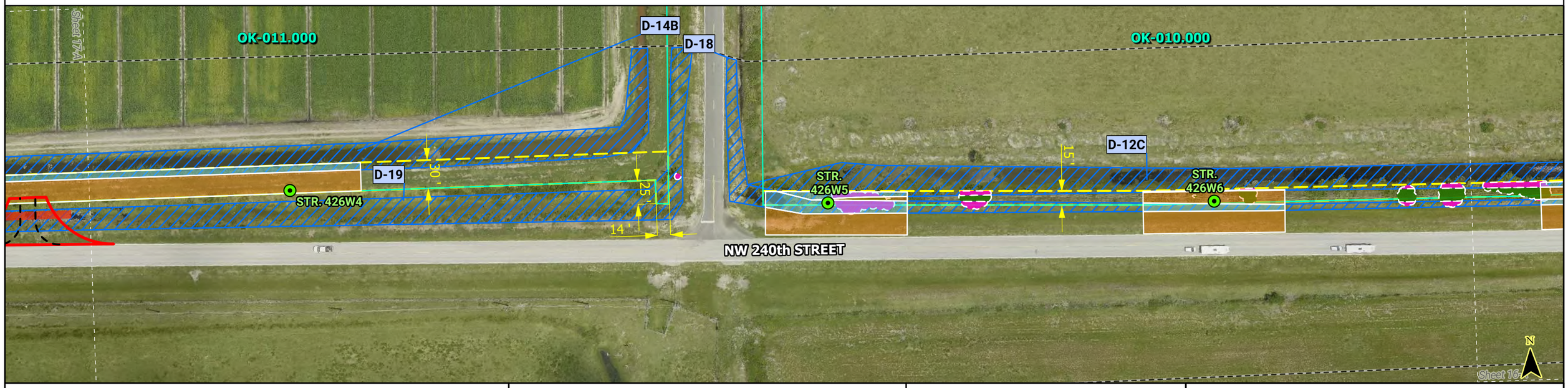

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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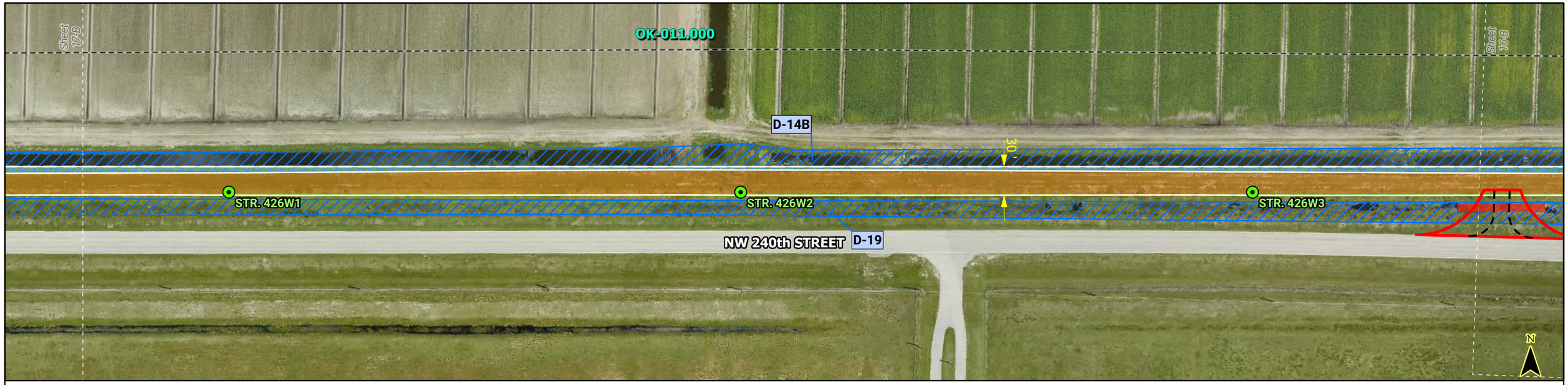

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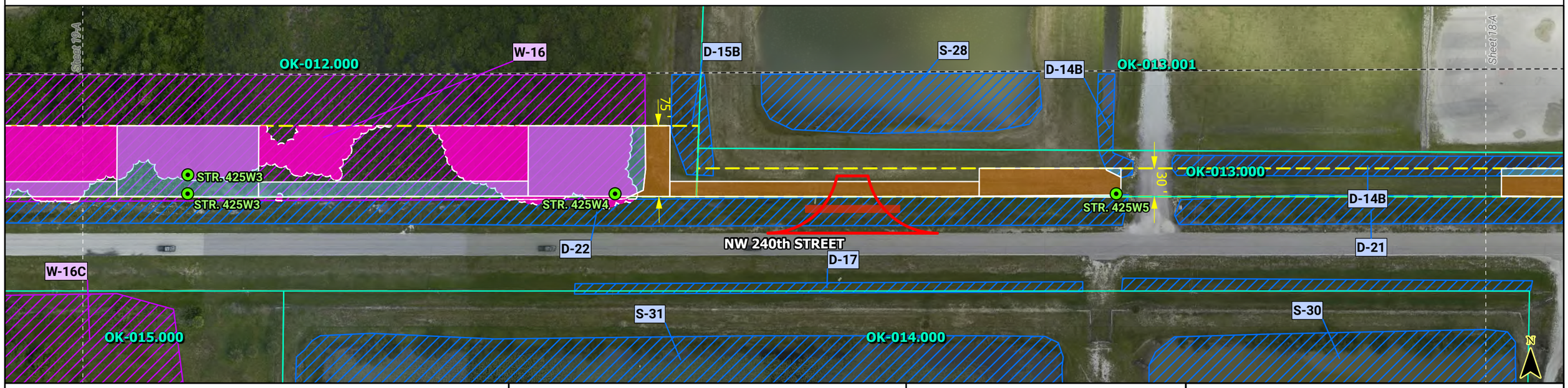

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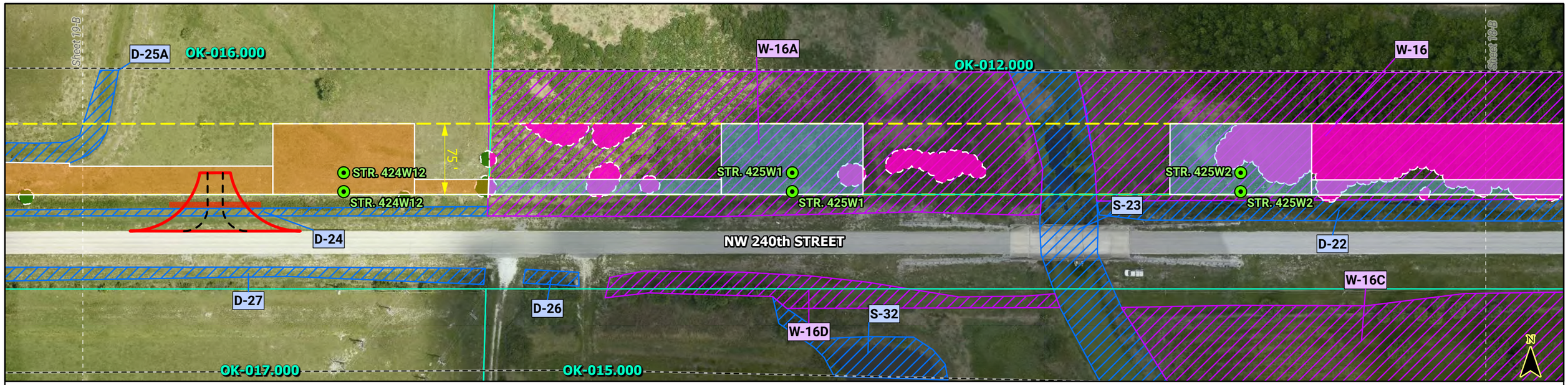

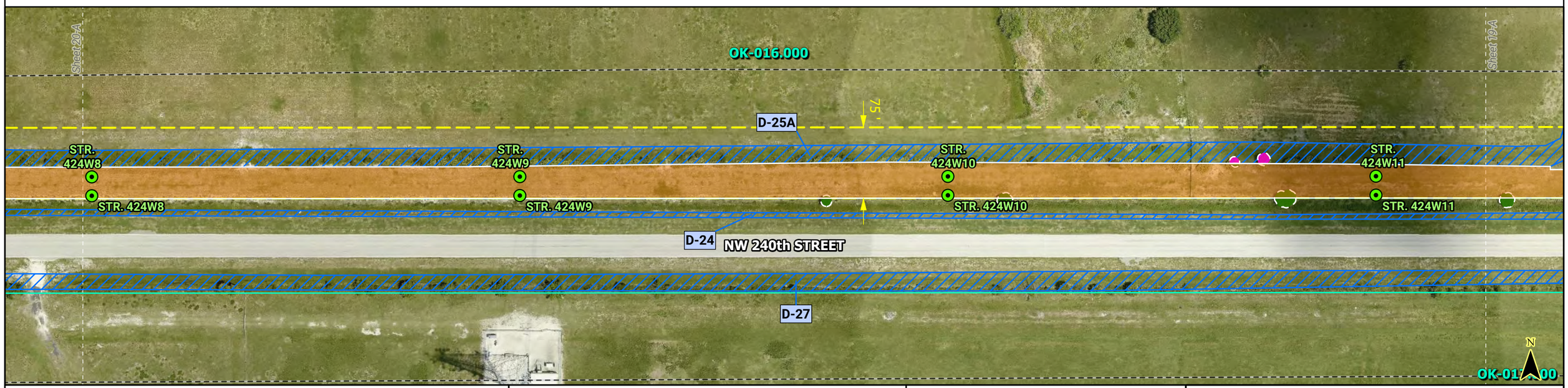

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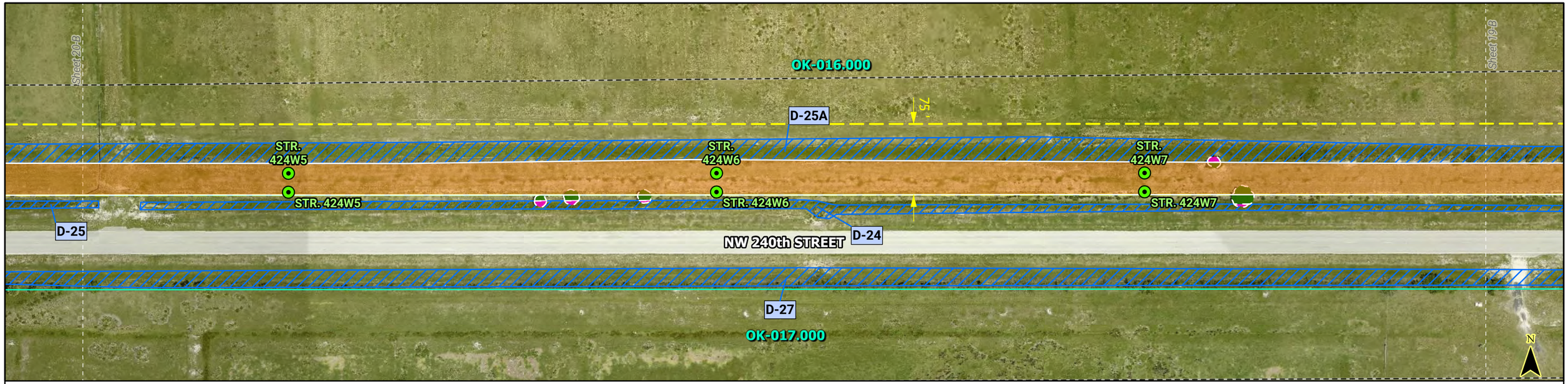

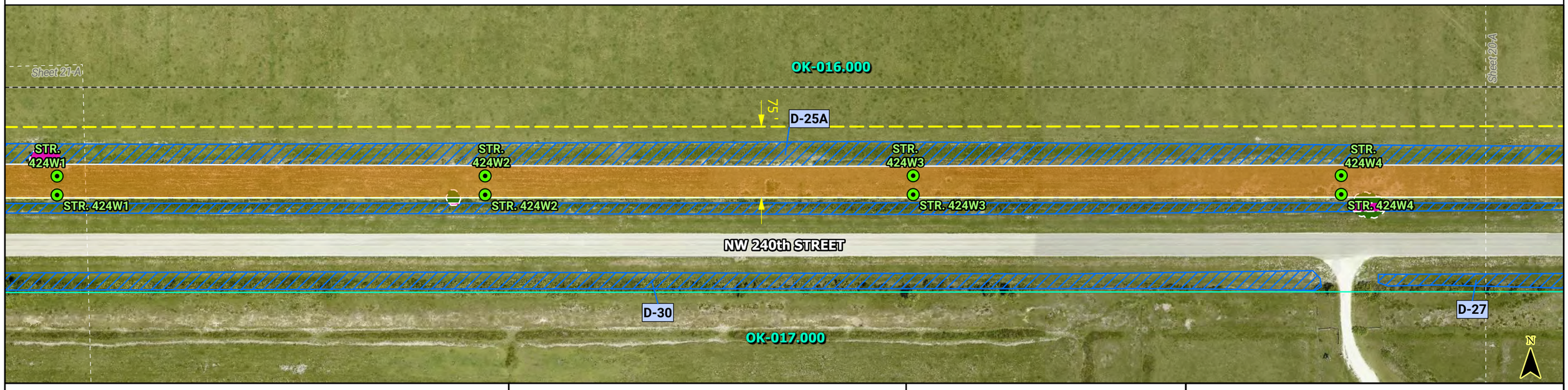

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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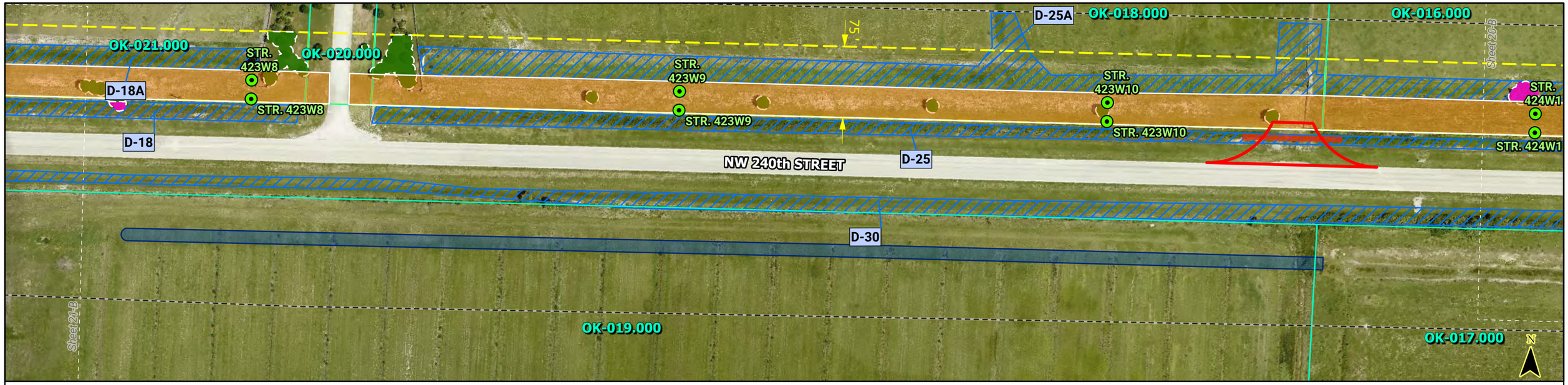

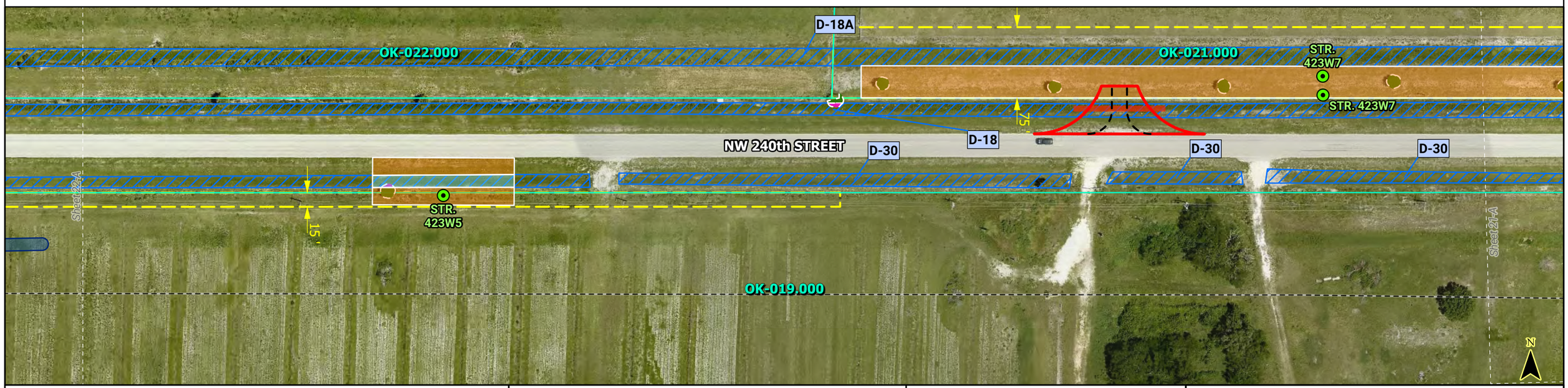

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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SHEET 21 OF 39

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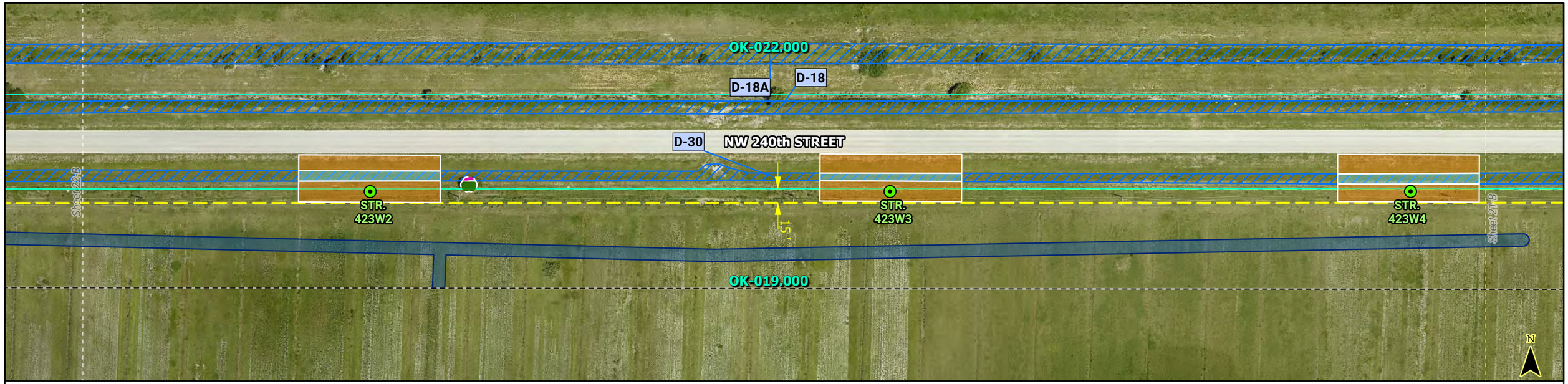

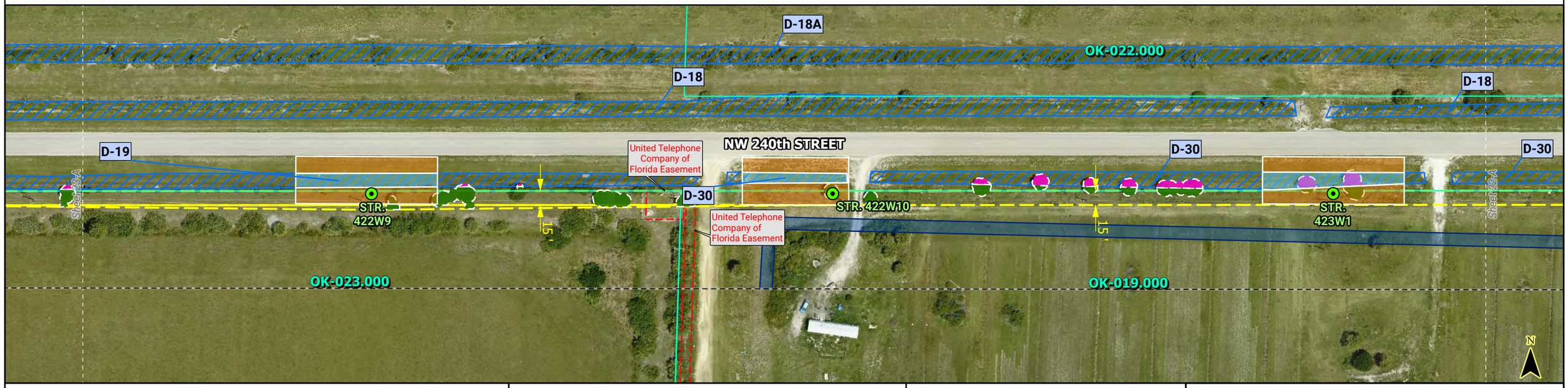

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FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

SCALE: 1" = 100' *DATE: 3/13/2023*
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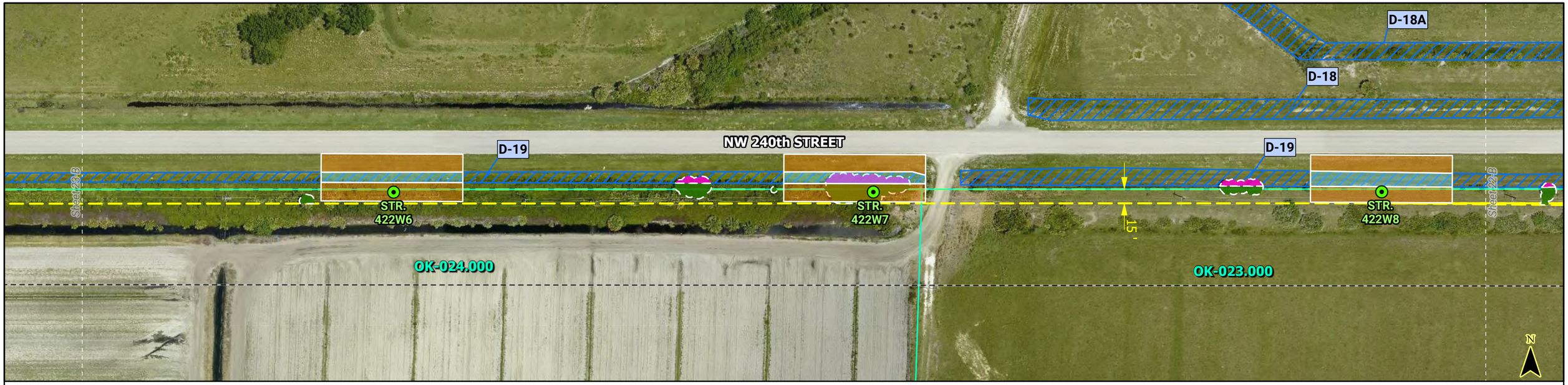

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FLORIDA POWER & LIGHT COMPANY

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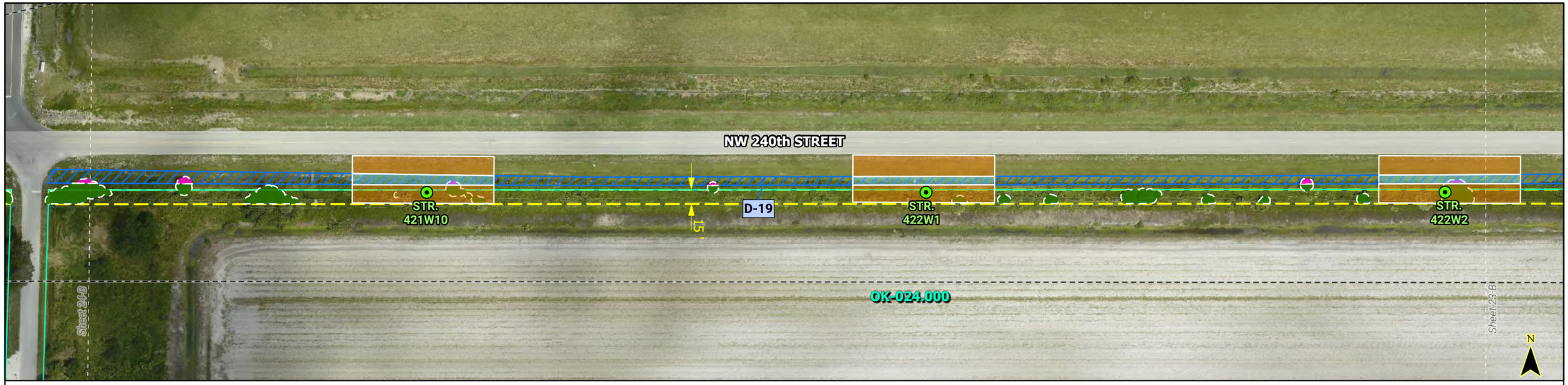

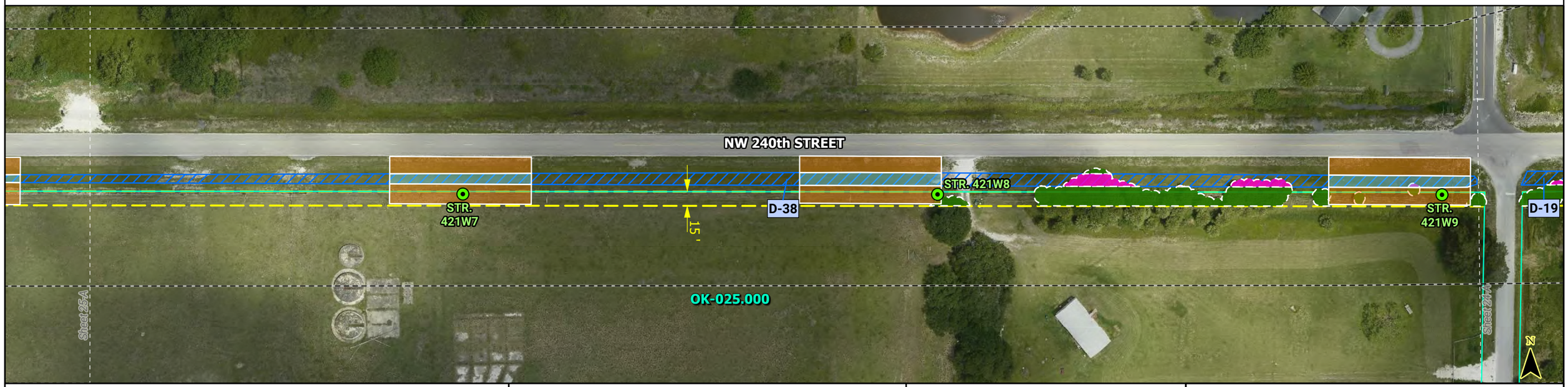

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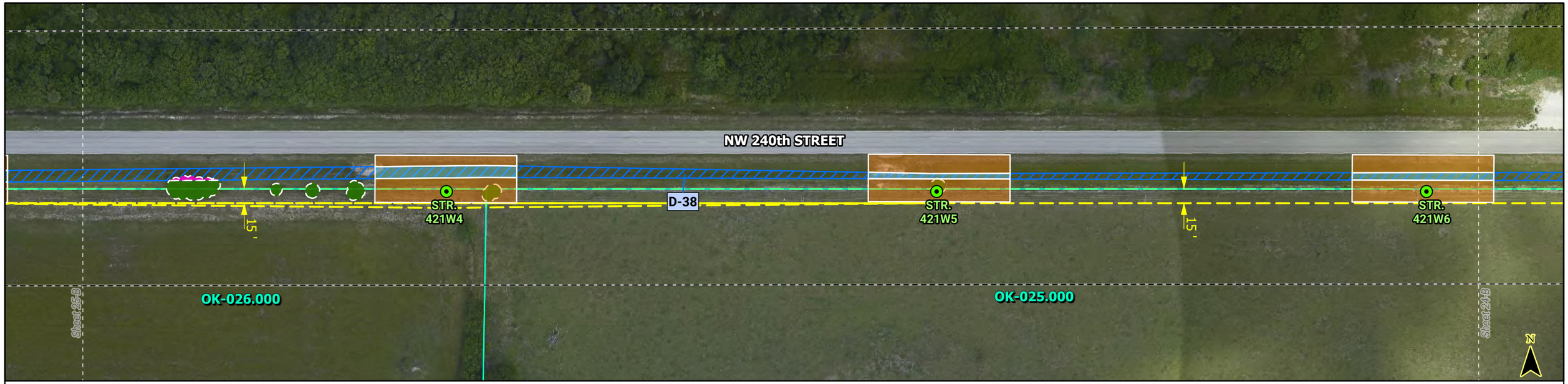

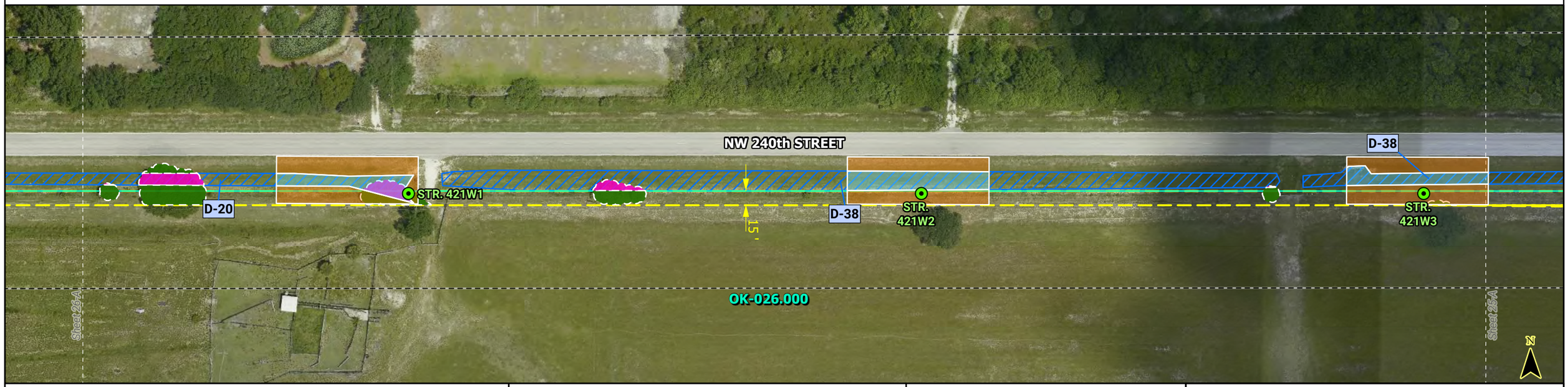

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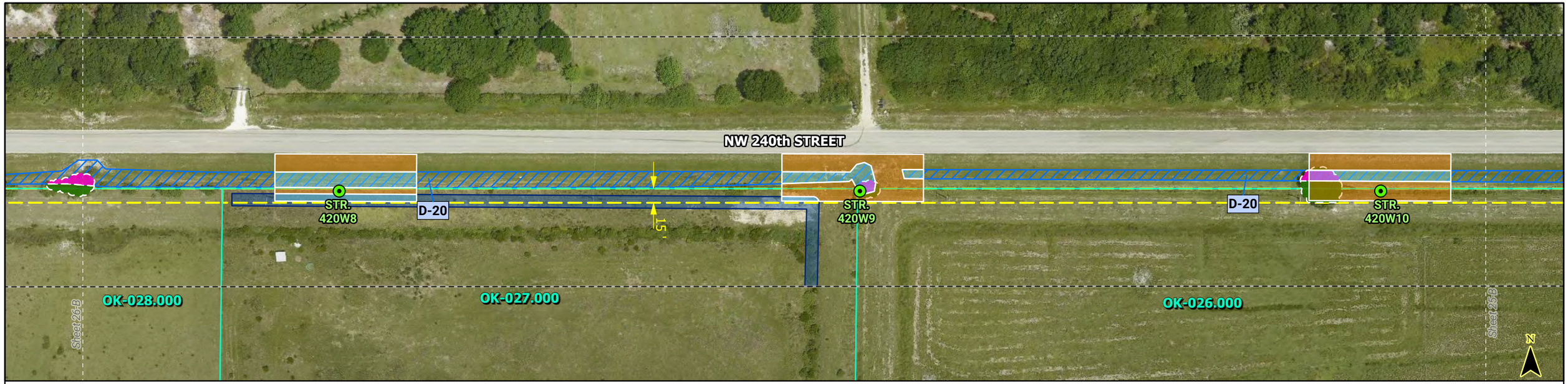

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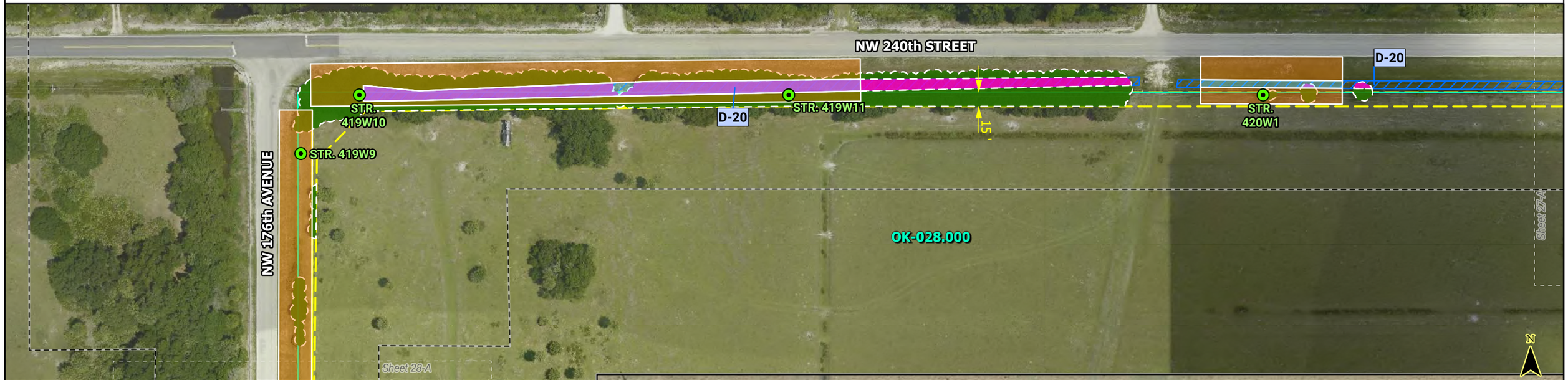

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FPL

Segment 1: Sweatt-Basinger Map Series

LINE NAME: **SWEATT - WHIDDEN 230KV LINE**
LINE SECTION: **SWEATT - BASINGER**
COUNTY: **OKEECHOBEE**
DESCRIPTION: **SEGMENT 1: SWEATT-BASINGER CIVIL DRAWINGS - TA22-19**
IO: **T30424**
ENGINEER: **MIKE LEAHY**

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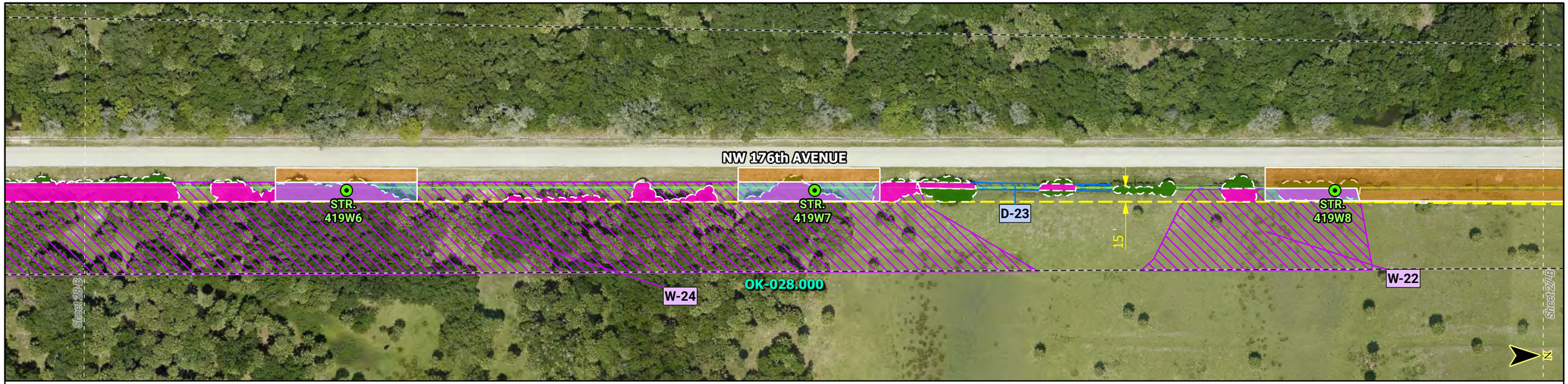

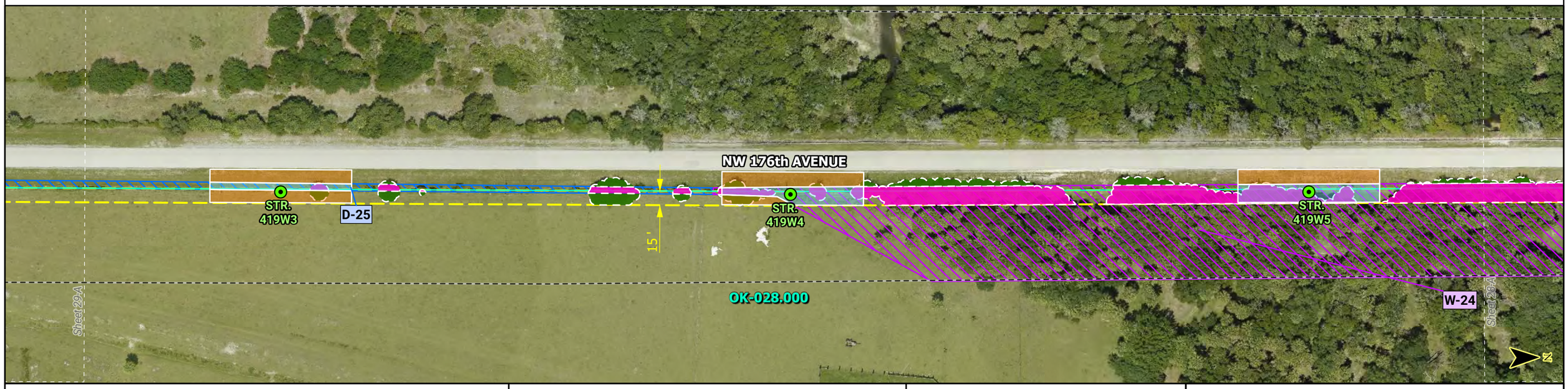

LEGEND

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NOTES:

FLORIDA POWER & LIGHT COMPANY

SWEATT-WHIDDEN TLSA PROJECT, TA22-19 CIVIL DRAWINGS

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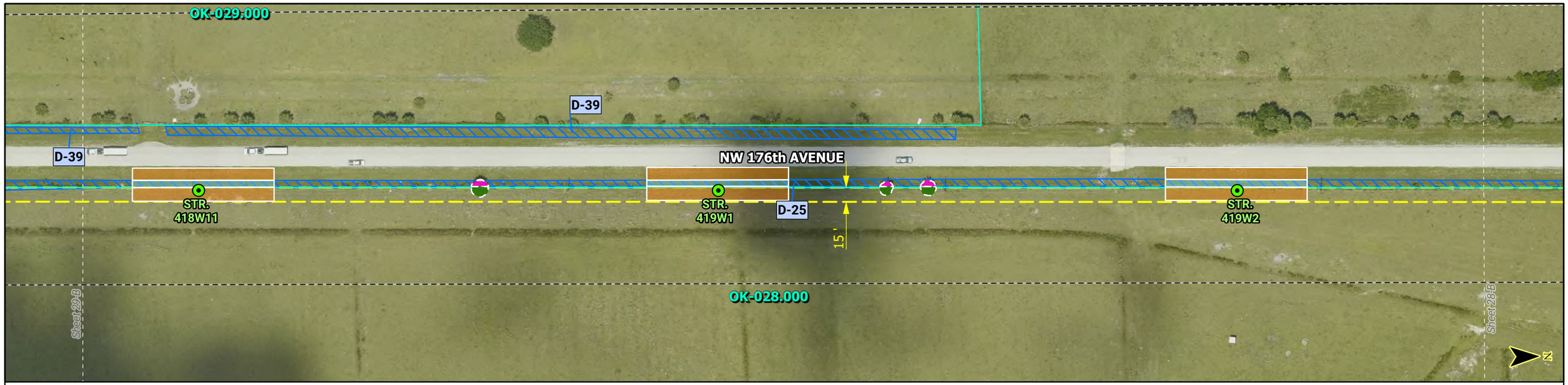

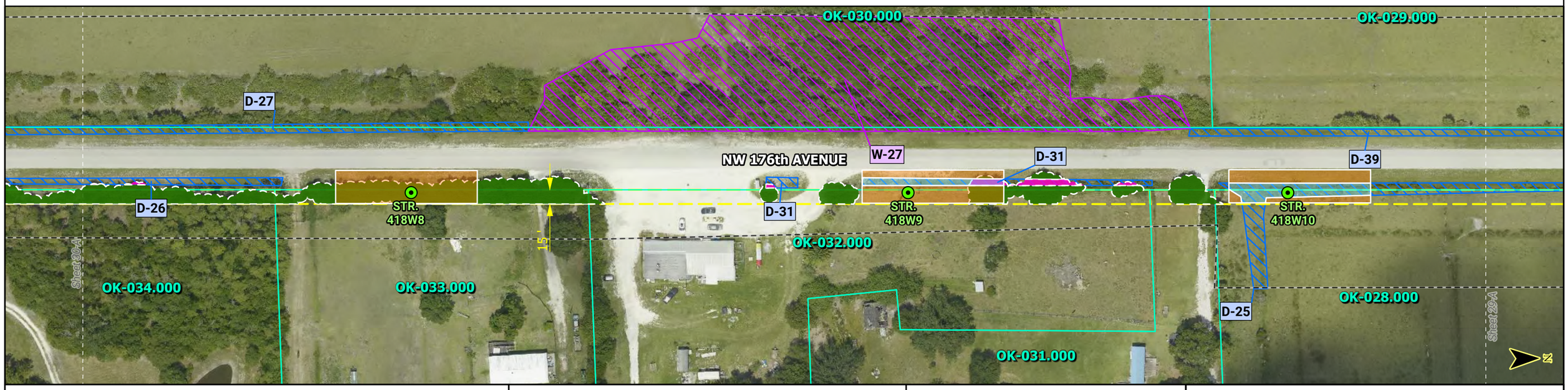

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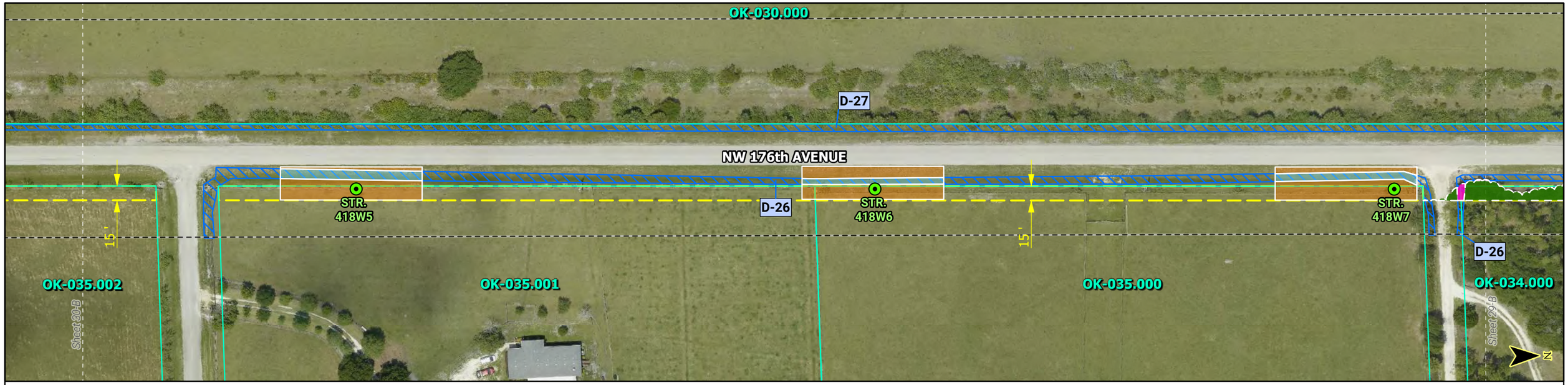

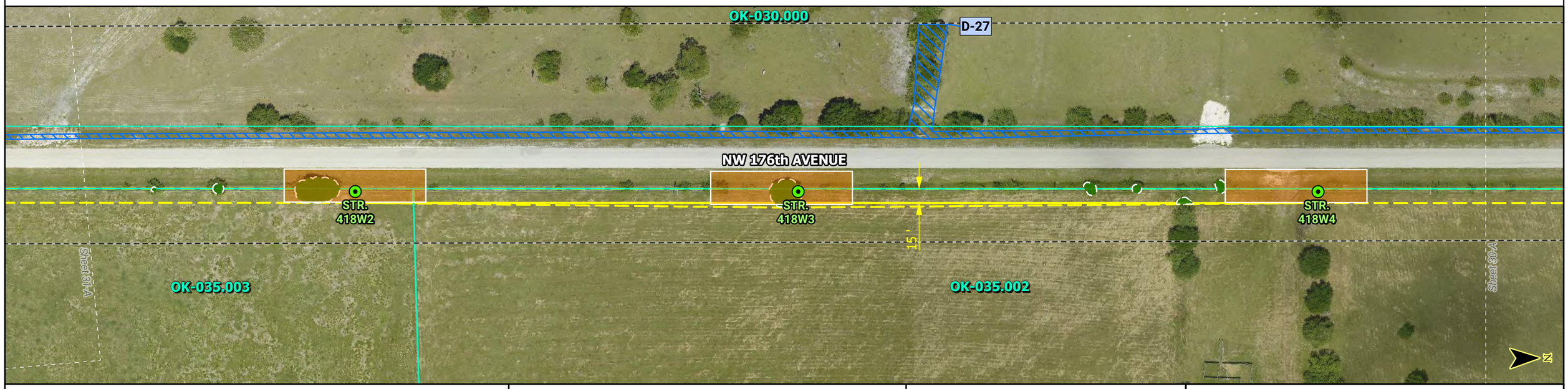

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SHEET 30 OF 39

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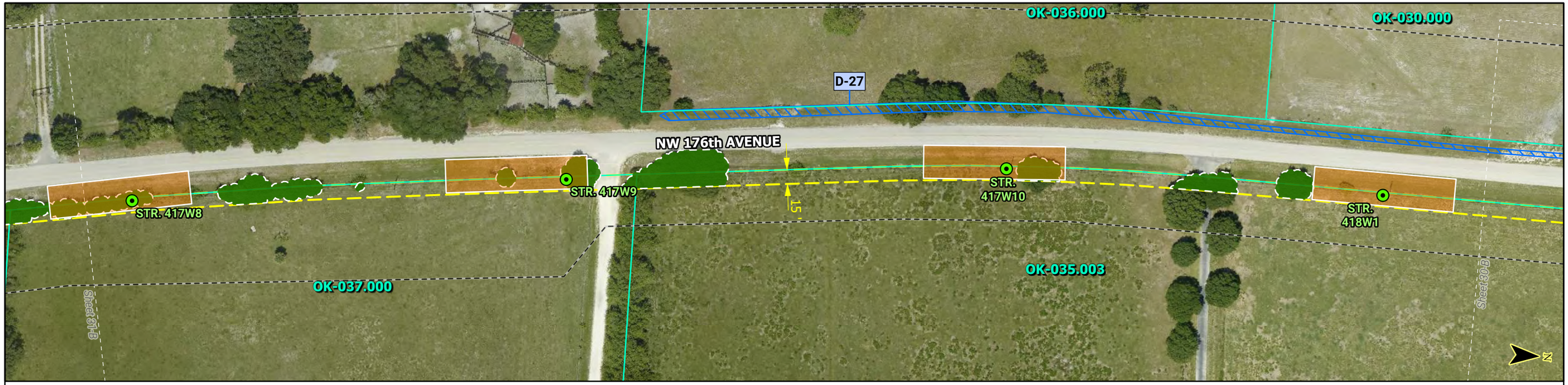

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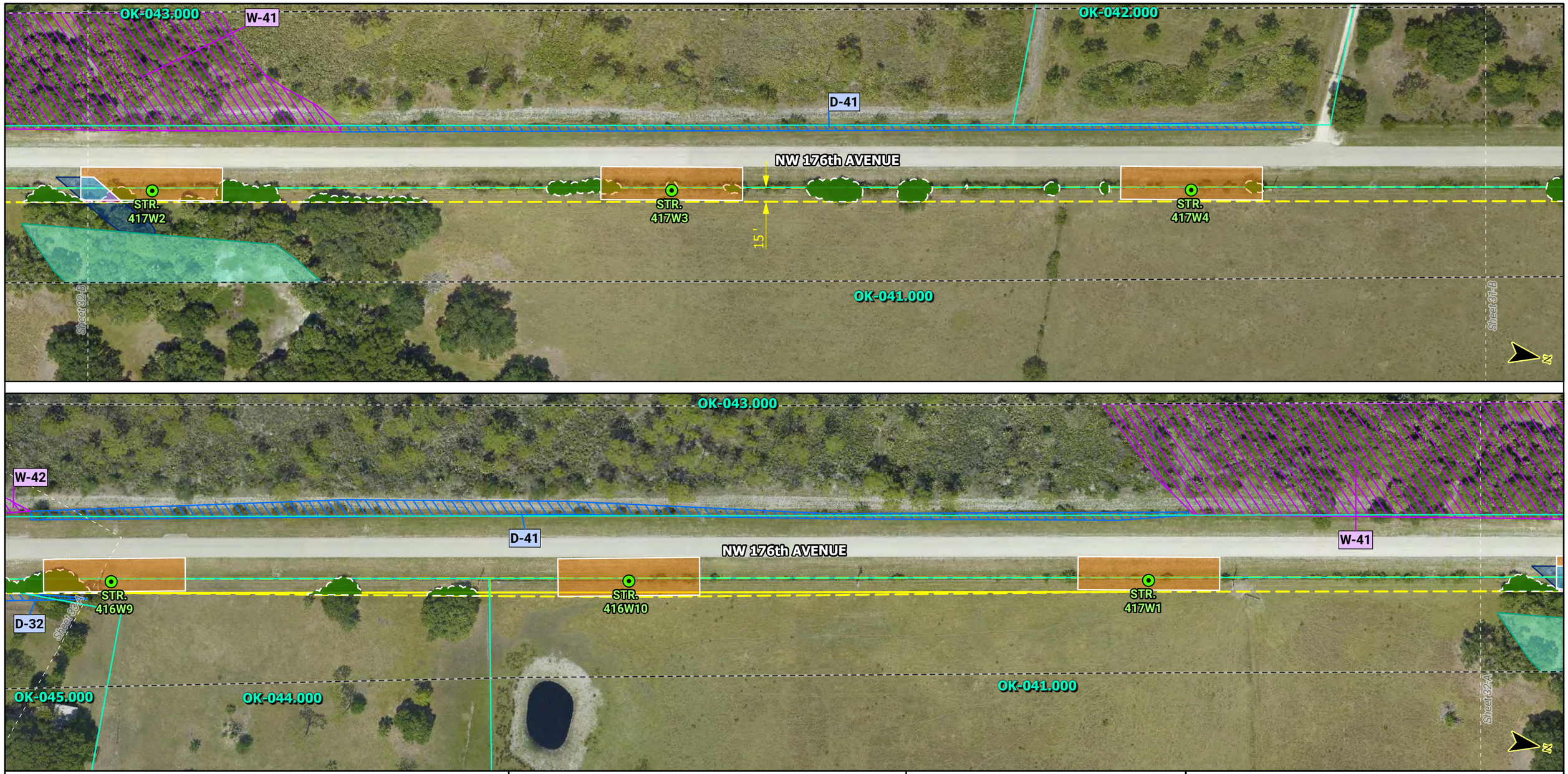

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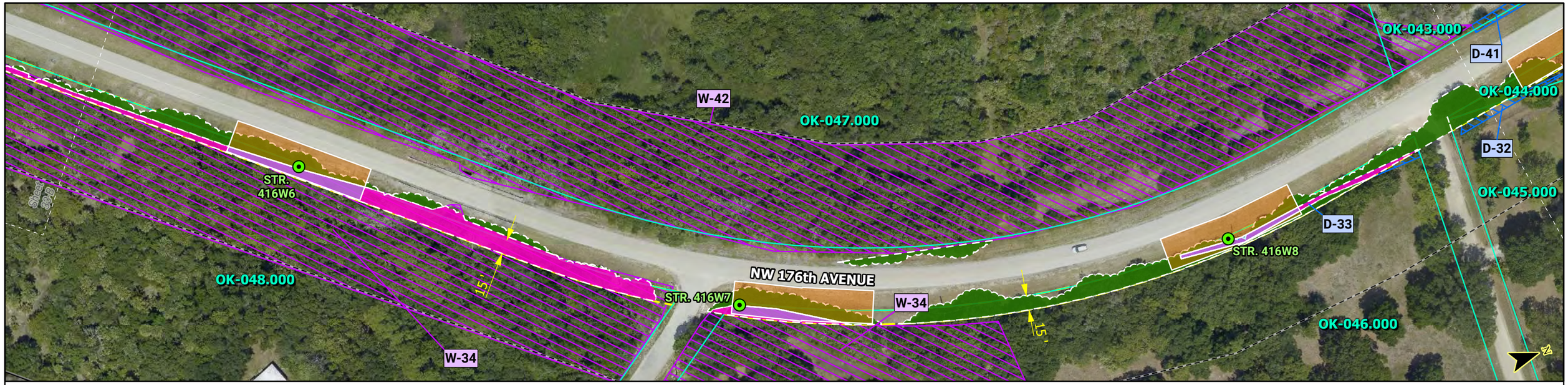

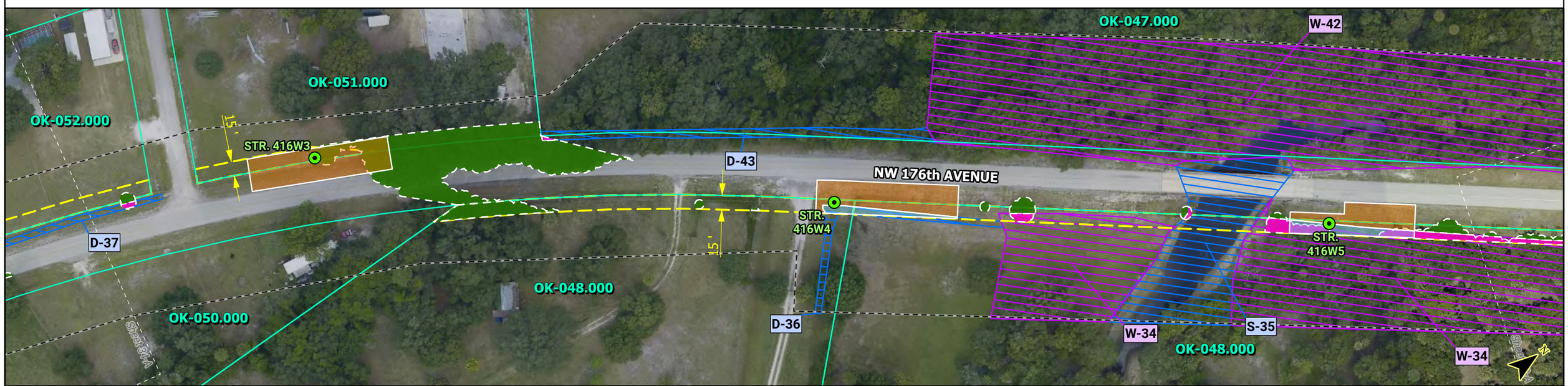

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FLORIDA POWER & LIGHT COMPANY

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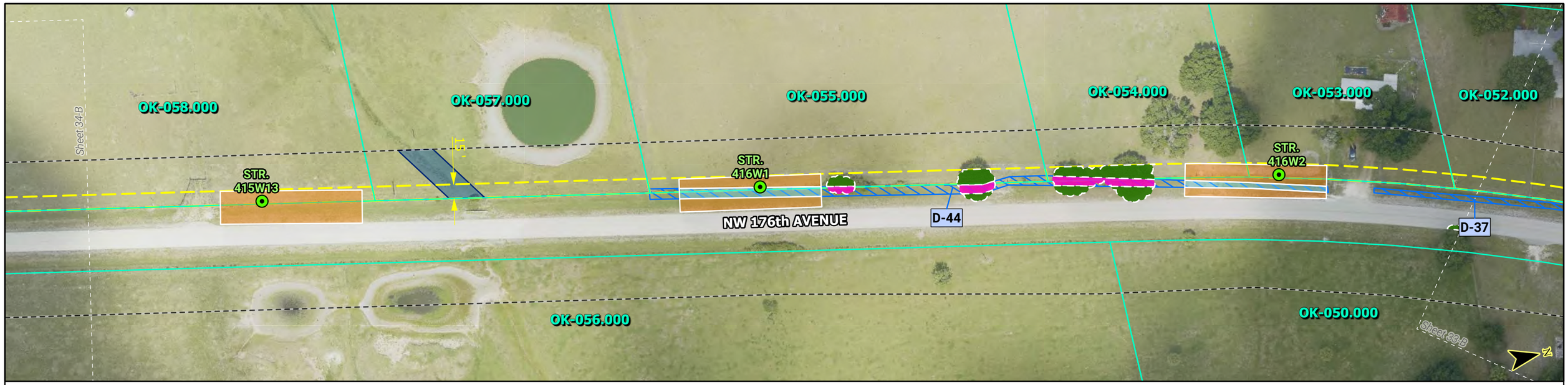

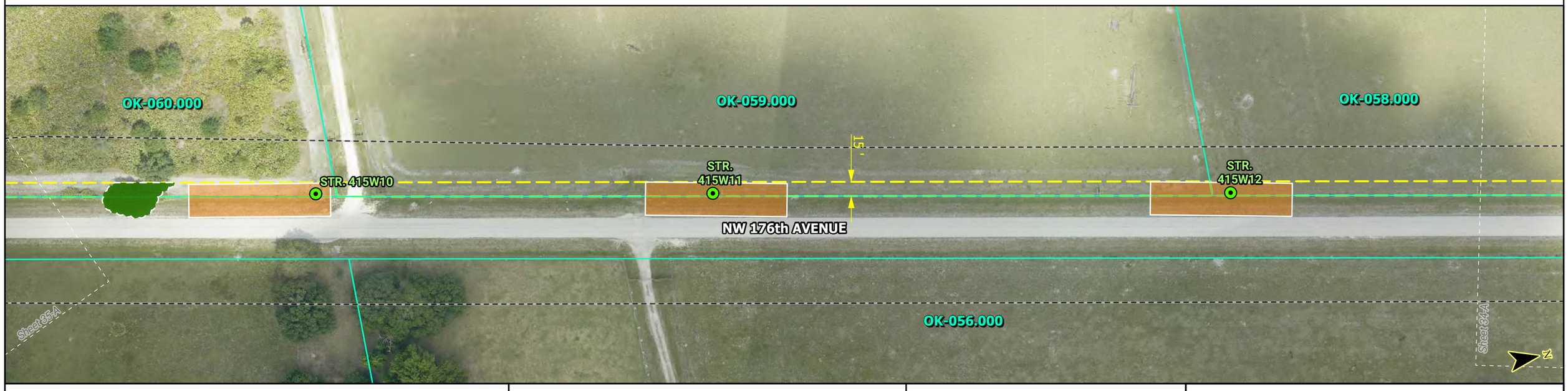

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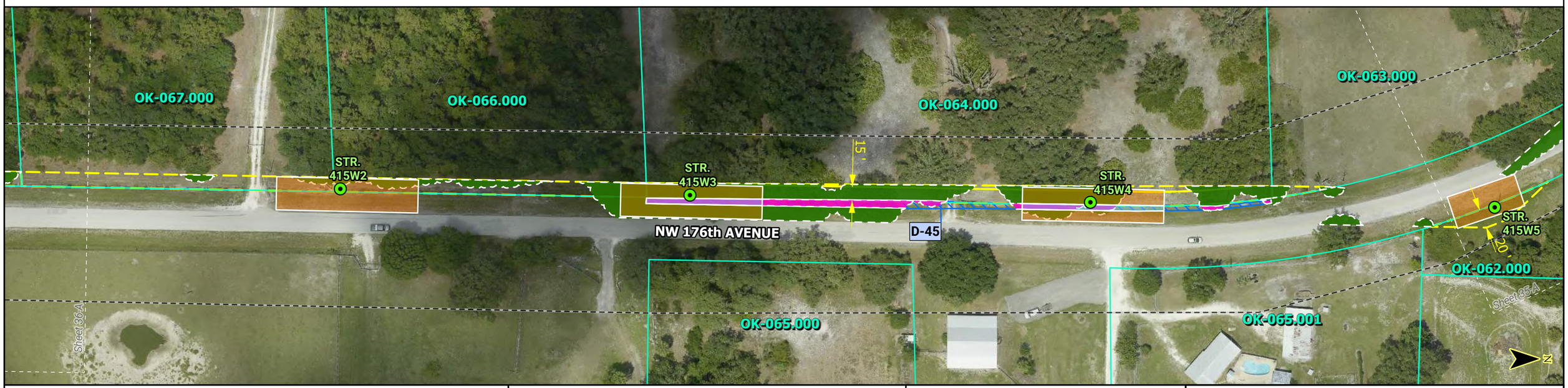

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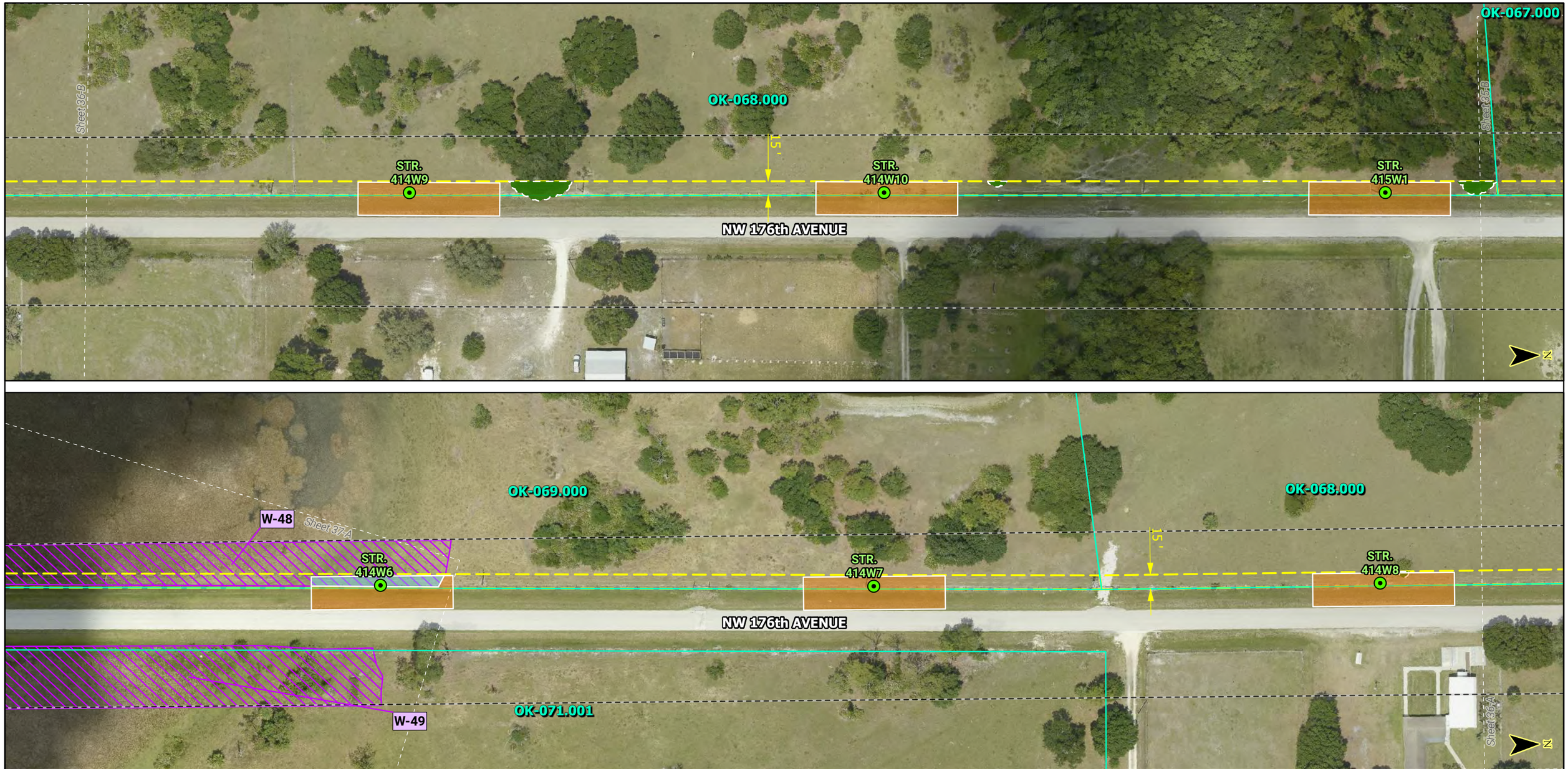

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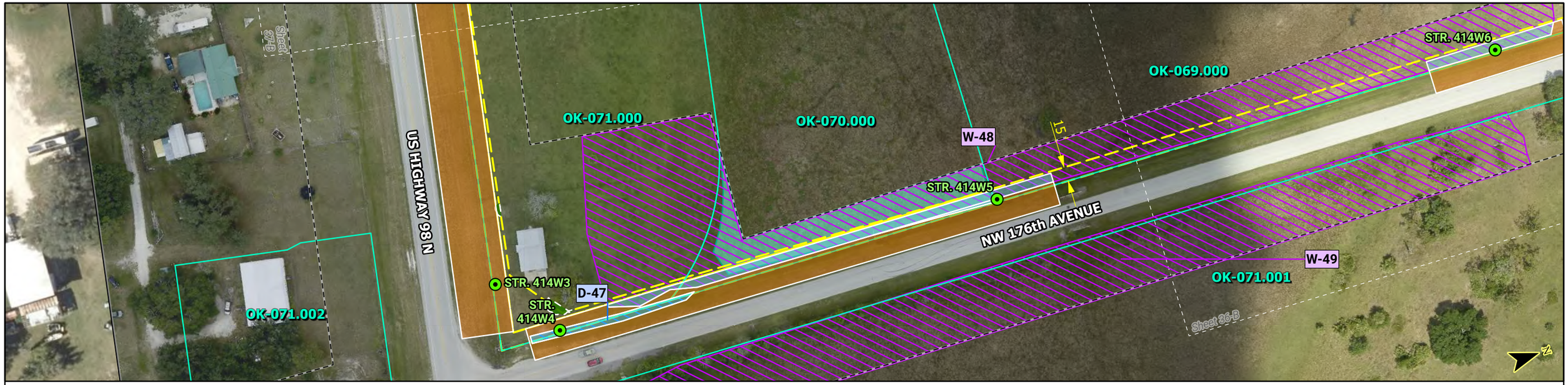

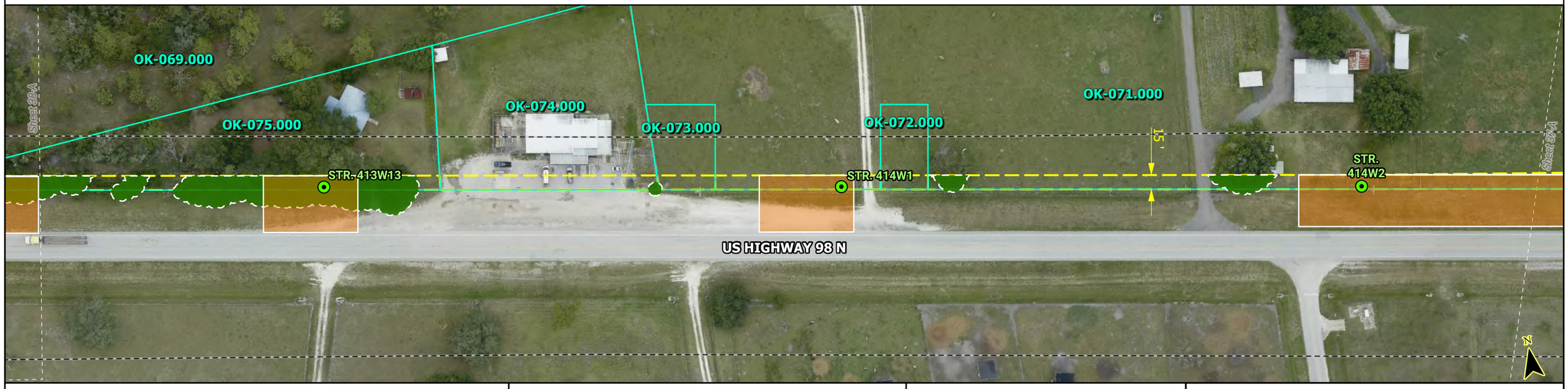

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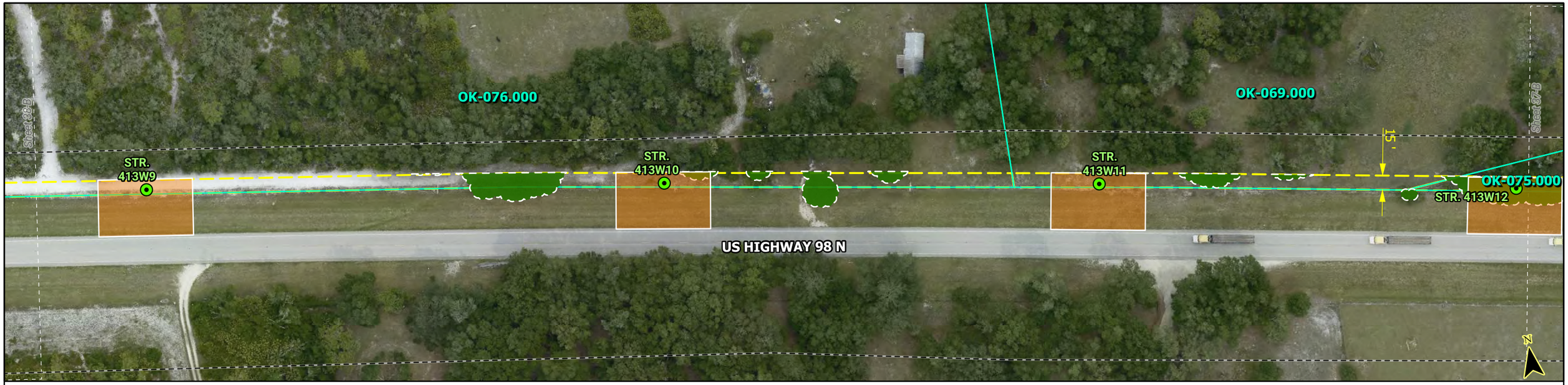

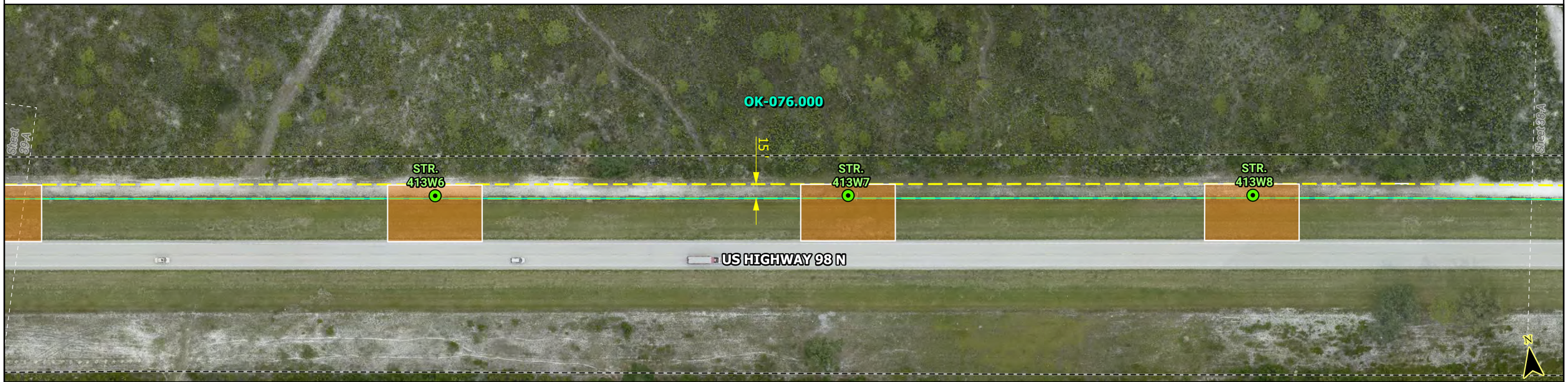

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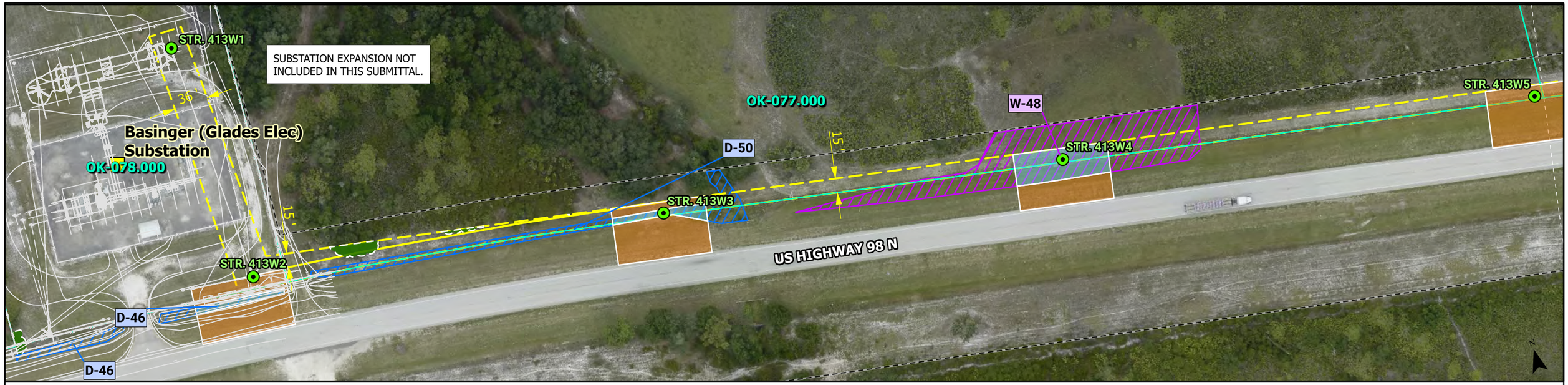

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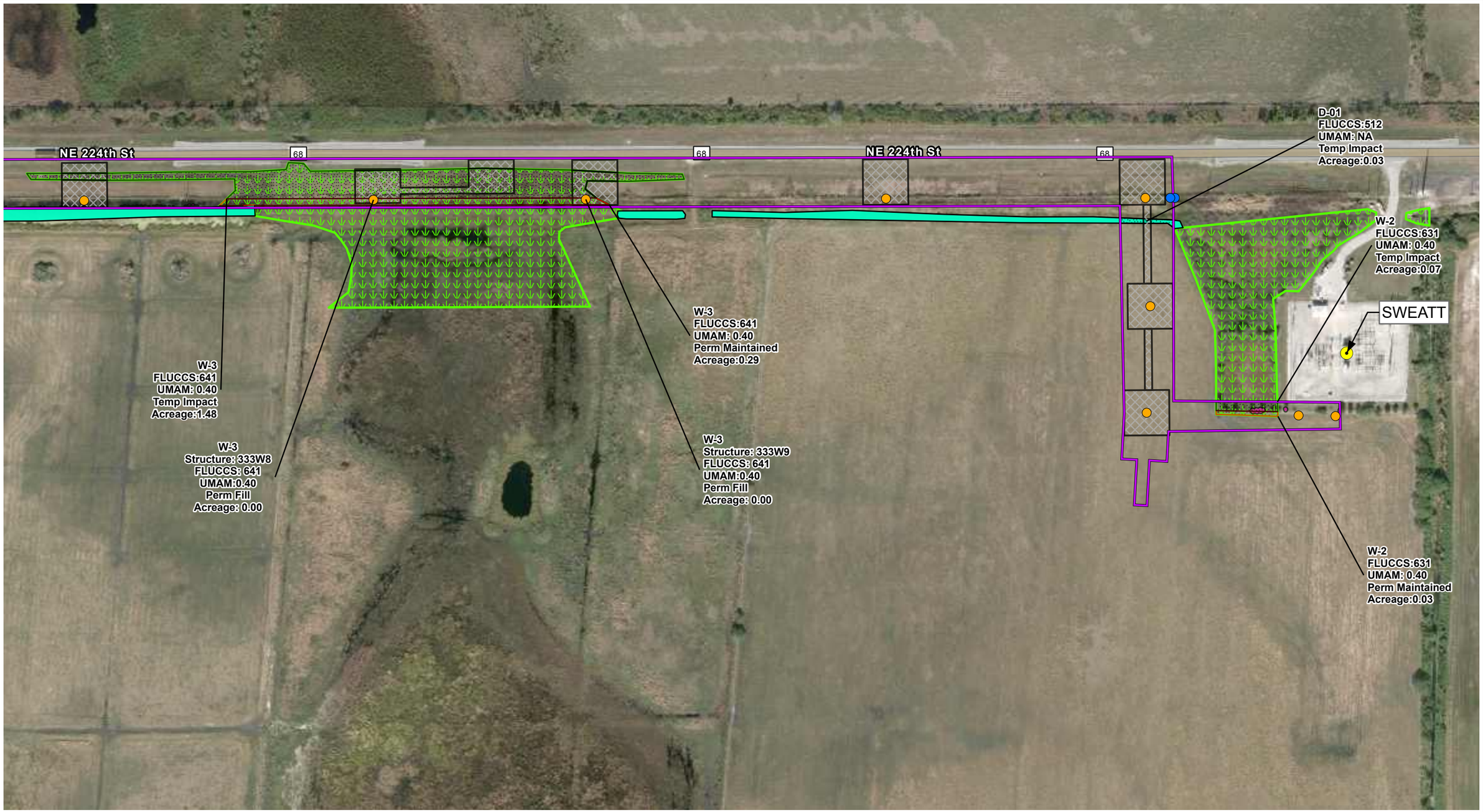
Attachment 17 – Wetland Impacts Maps



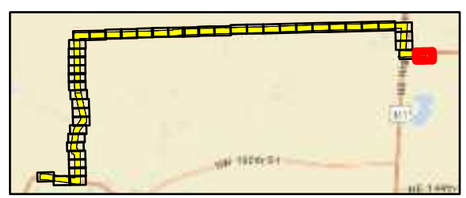
- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
- Temp Impact
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine
- Field Delineated Surface Water

Please Note:
All Permanent Fill Structure impacts are <0.00 acres and are approx. 0.001154 acres.

Proposed Aprons are for temporary construction access.



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Feet

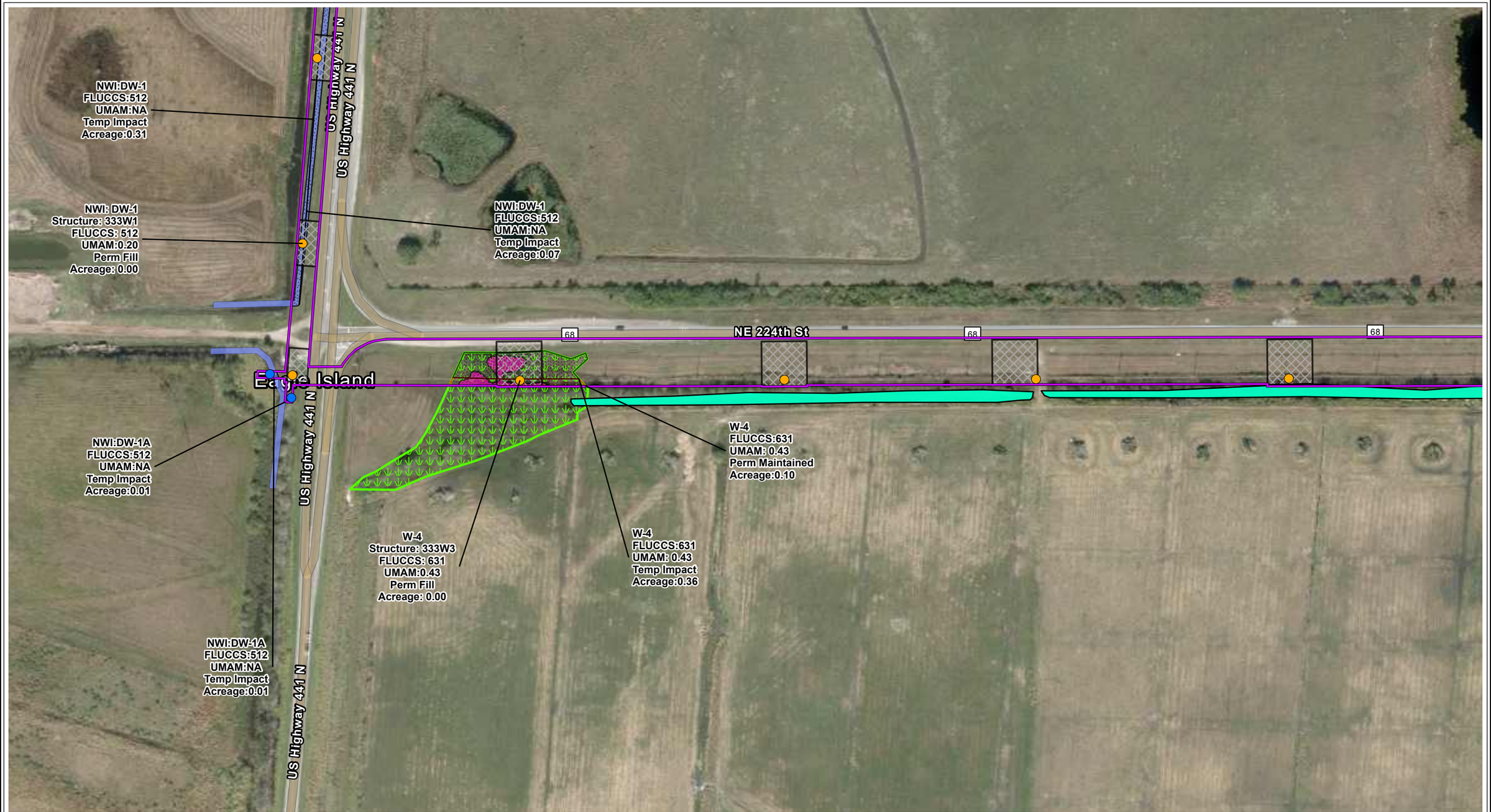
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 1 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
- Temp Impact
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

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- Riverine
- Field Delineated Surface Water

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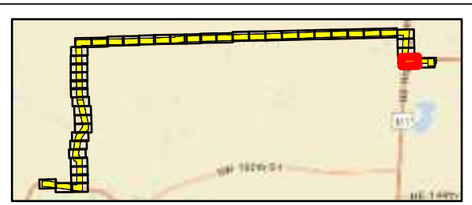

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0 200 400

Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 2 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

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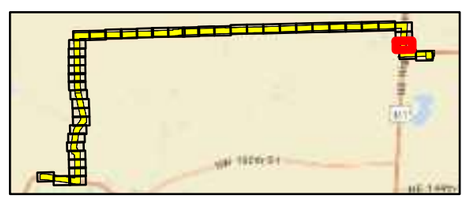

N

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Attachment 17 - Page 3 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

Structure
Guy Anchor
Substation
Proposed Culvert
Proposed Aprons

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Perm Conversion
Perm Maintained
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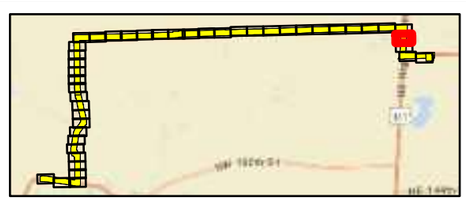

N

0 200 400
Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 4 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

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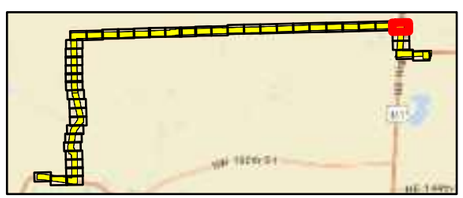

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Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 5 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
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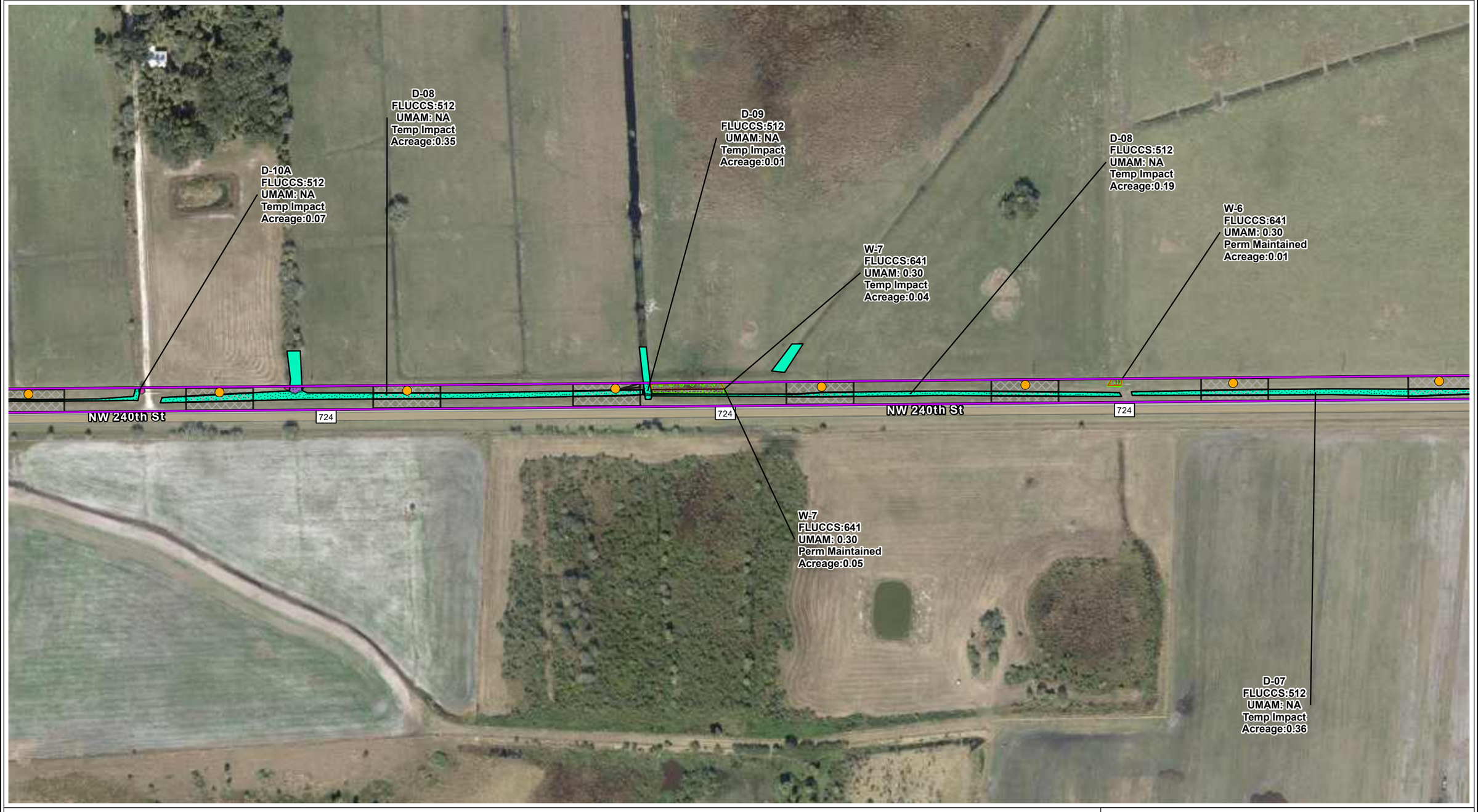

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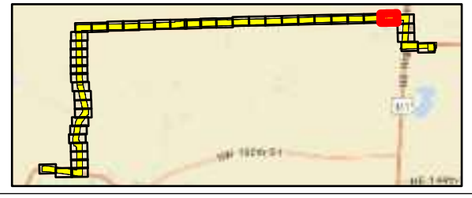

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Attachment 17 - Page 6 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
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ECT

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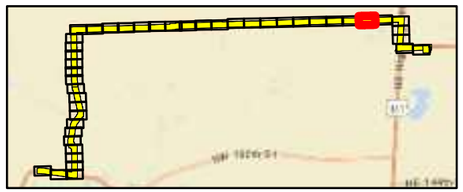

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Feet

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Attachment 17 - Page 7 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

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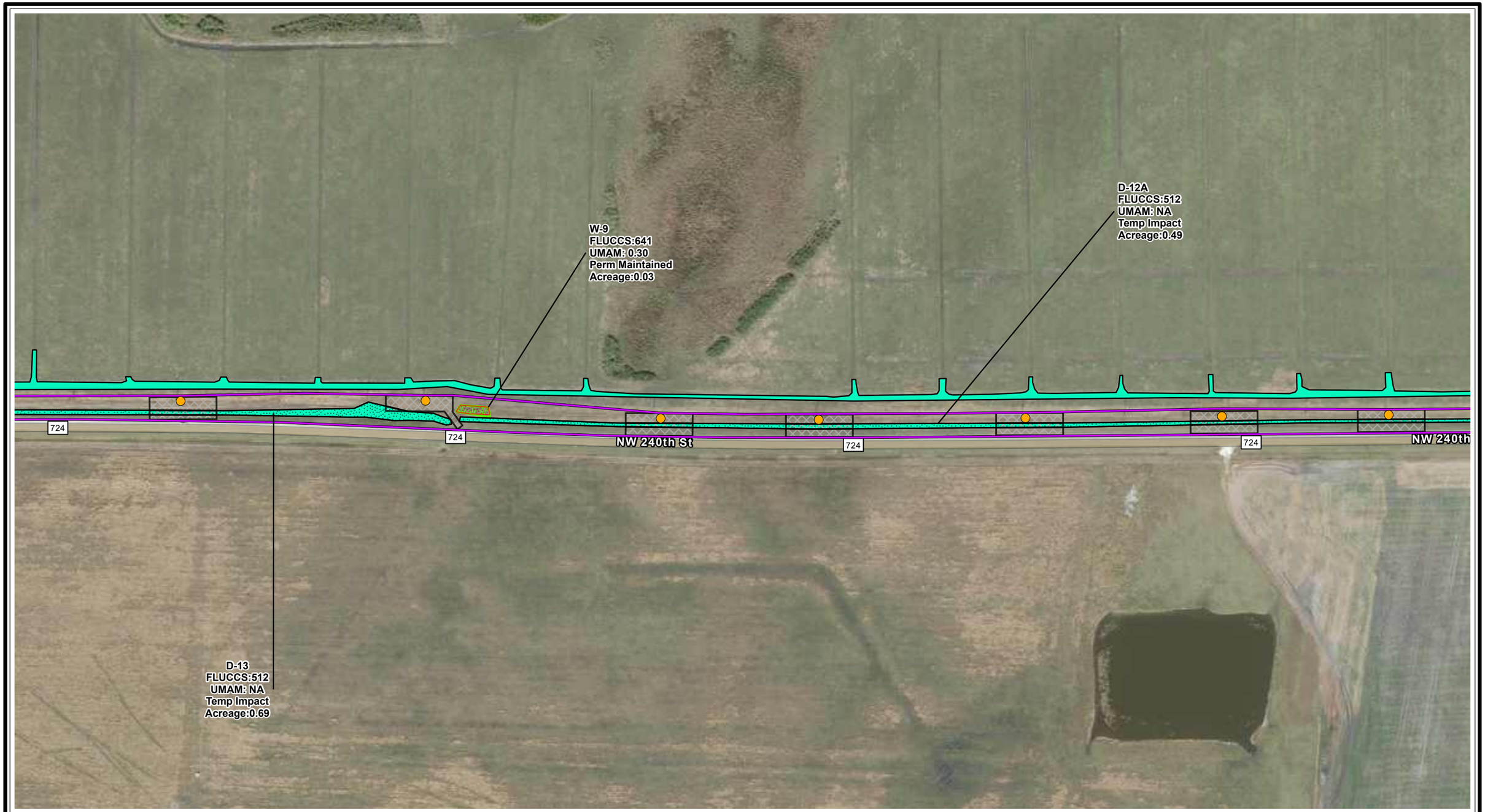

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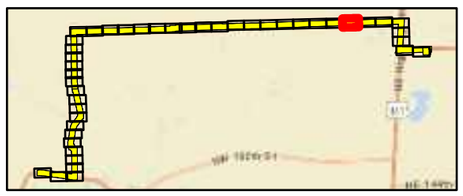

N

0 200 400

Feet

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Attachment 17 - Page 8 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

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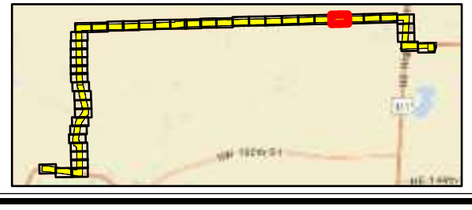

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0 200 400

Feet

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Attachment 17 - Page 9 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

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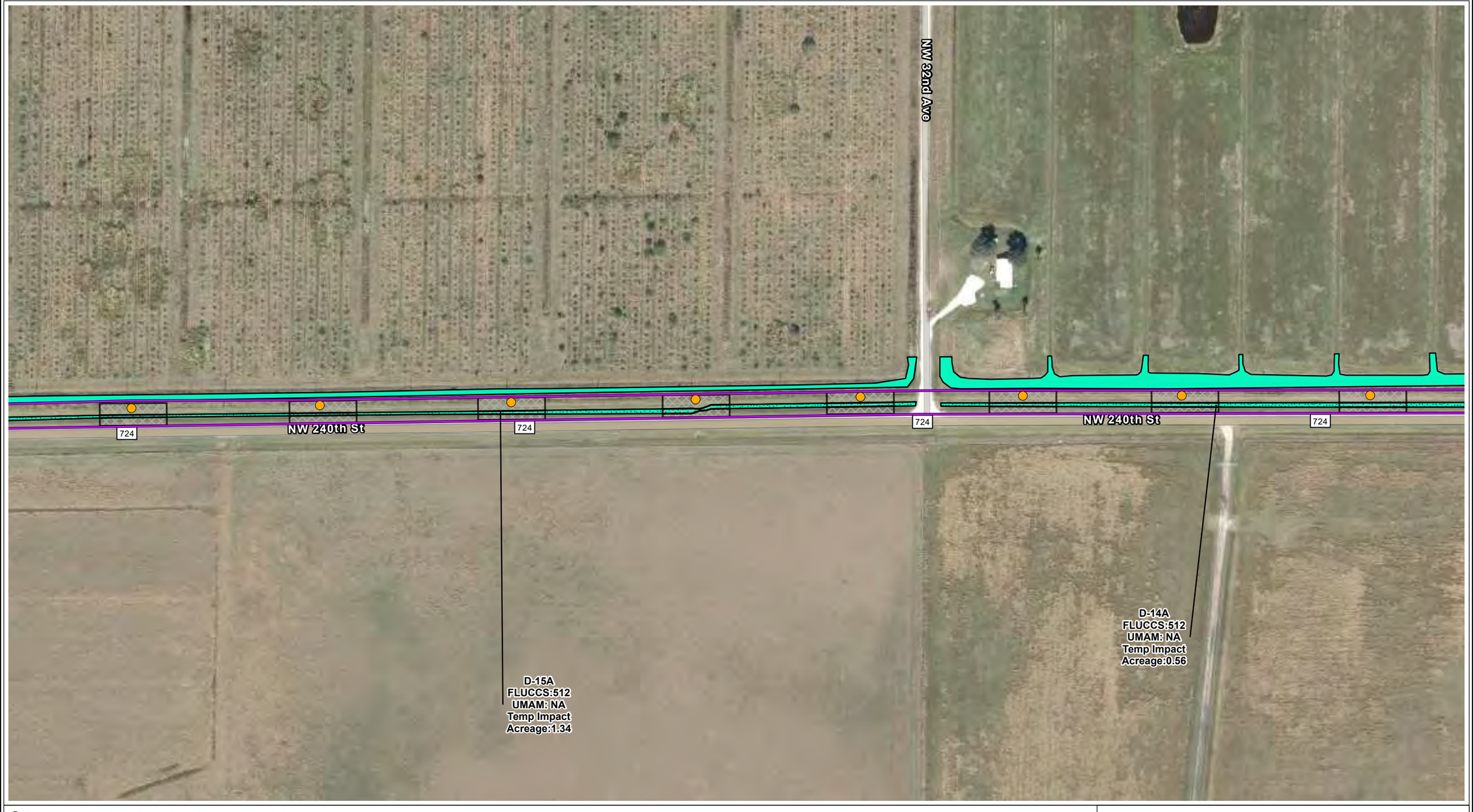

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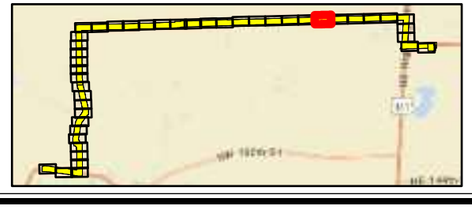

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0 200 400
Feet

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Attachment 17 - Page 10 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

ECT

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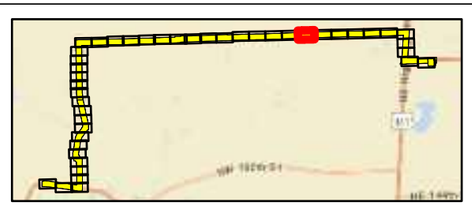

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Attachment 17 - Page 11 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

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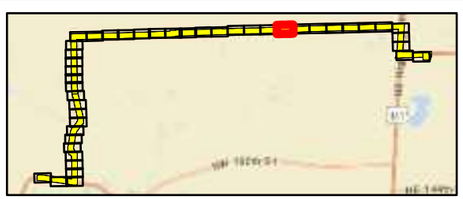

N

0 200 400
Feet

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Attachment 17 - Page 12 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

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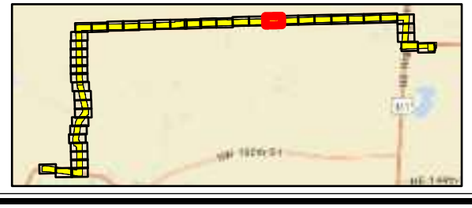

N

0 200 400

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Attachment 17 - Page 13 of 44
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Okeechobee County, Florida

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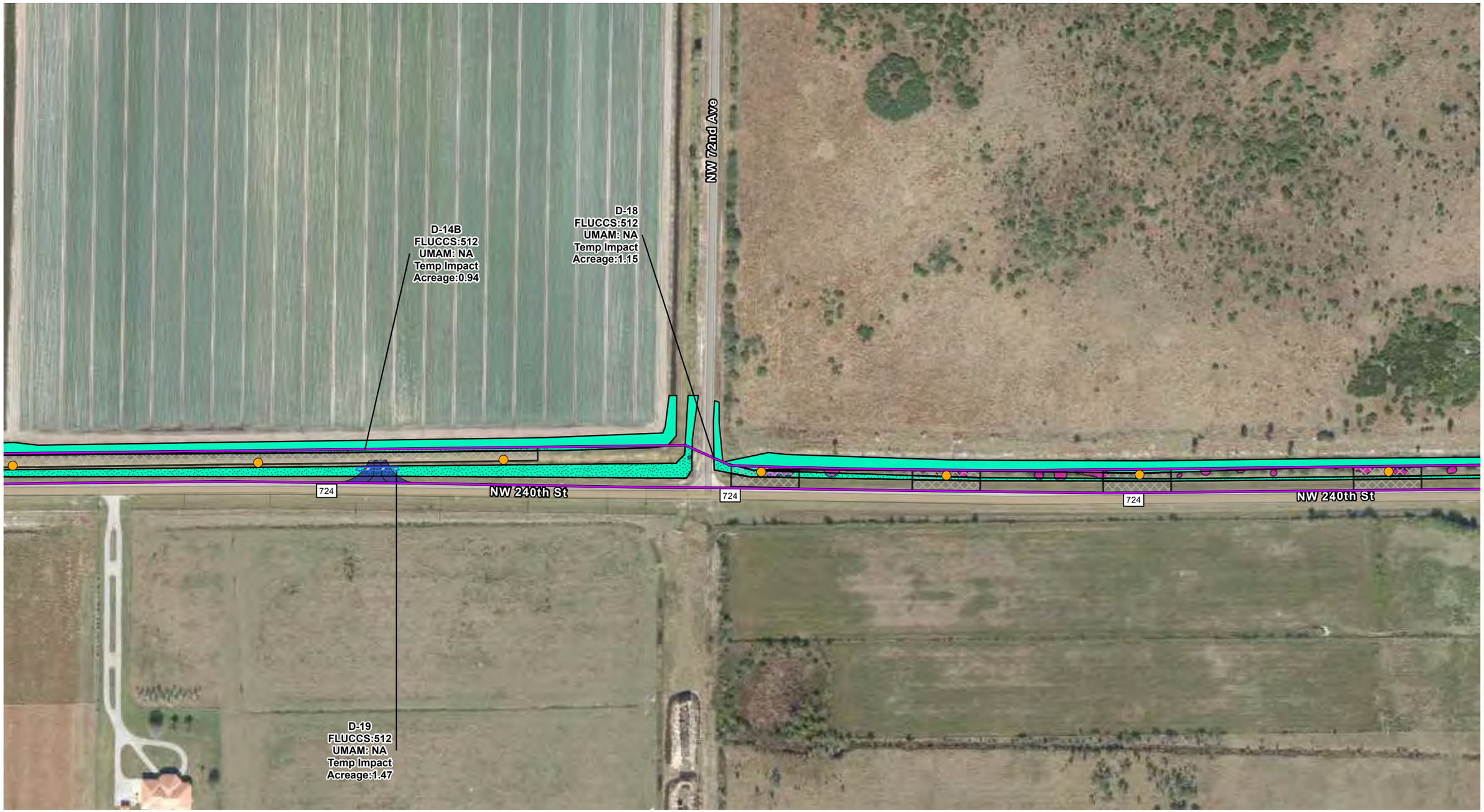

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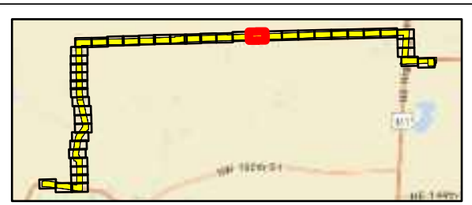

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Attachment 17 - Page 14 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
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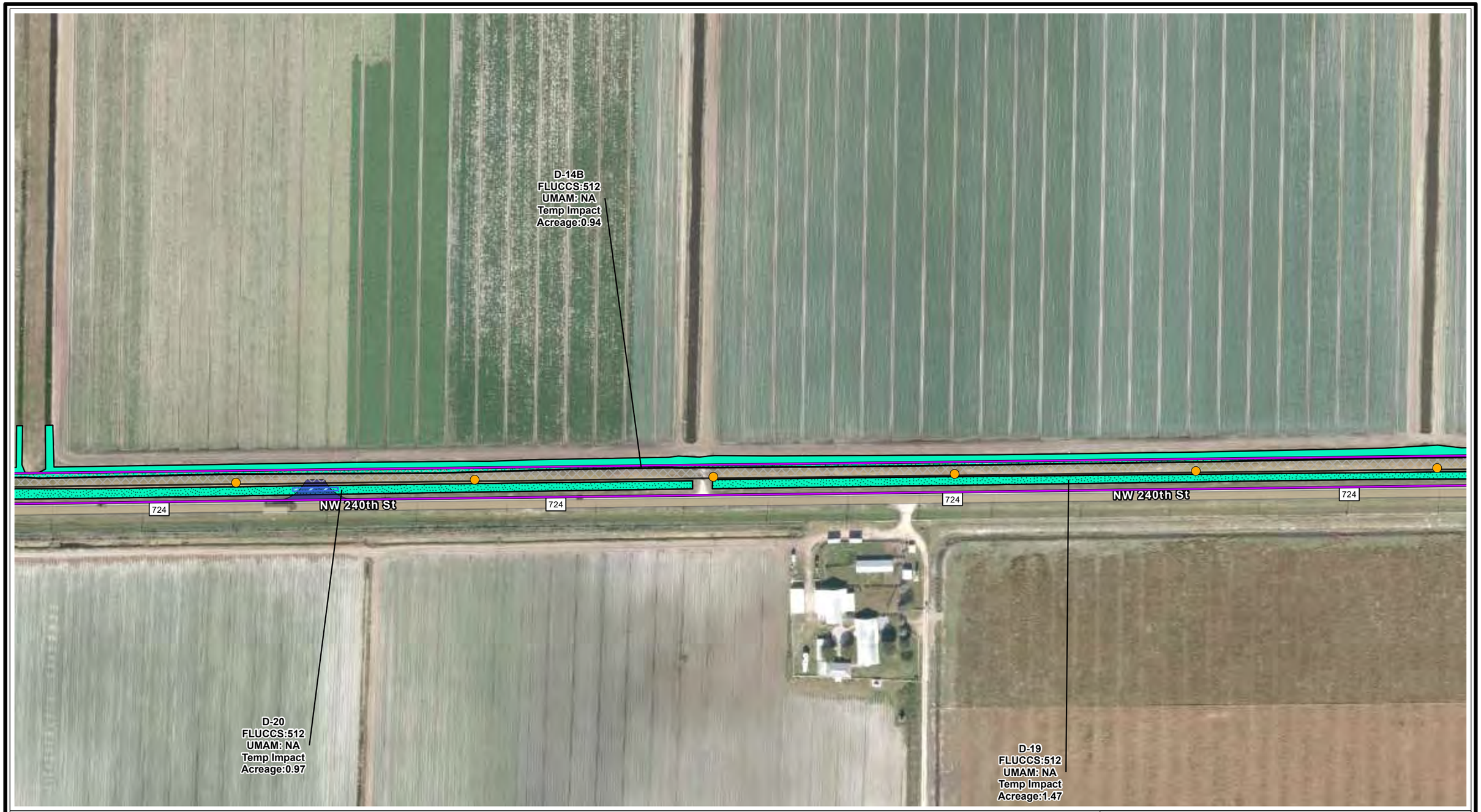

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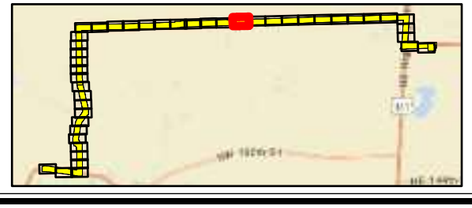

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Attachment 17 - Page 15 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

W-16A
Structure: 325W1
FLUCCS: 641
UMAM:0.40
Perm Fill
Acreage: 0.00

W-16
Structure: 325W2
FLUCCS: 631
UMAM:0.43
Perm Fill
Acreage: 0.00

W-16A
Structure: 325W1
FLUCCS: 641
UMAM:0.40
Perm Fill
Acreage: 0.00

W-16
Structure: 325W2
FLUCCS: 631
UMAM:0.43
Perm Fill
Acreage: 0.00

W-16
Structure: 325W3
FLUCCS: 631
UMAM:0.43
Perm Fill
Acreage: 0.00

W-16
FLUCCS:631
UMAM: 0.43
Perm Maintained
Acreage:1.87

D-15B
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.03

D-14B
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.00

D-14B
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.94

NW 240th St

724

W-16
FLUCCS:631
UMAM: 0.43
Temp Impact
Acreage:0.12

Fish Slough

W-16A
FLUCCS:641
UMAM: 0.40
Temp Impact
Acreage:0.29

W-16A
FLUCCS:641
UMAM: 0.40
Perm Maintained
Acreage:1.00

W-16
Structure: 325W3
FLUCCS: 631
UMAM:0.43
Perm Fill
Acreage: 0.00

W-16
Structure: 325W4
FLUCCS: 631
UMAM:0.43
Perm Fill
Acreage: 0.00

D-22
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.95

D-20
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.97

D-21
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.33

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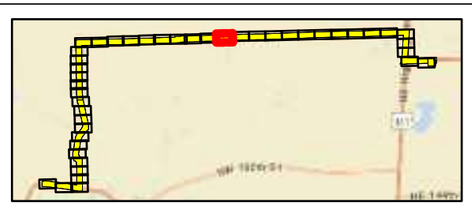

N

0 200 400
Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 16 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

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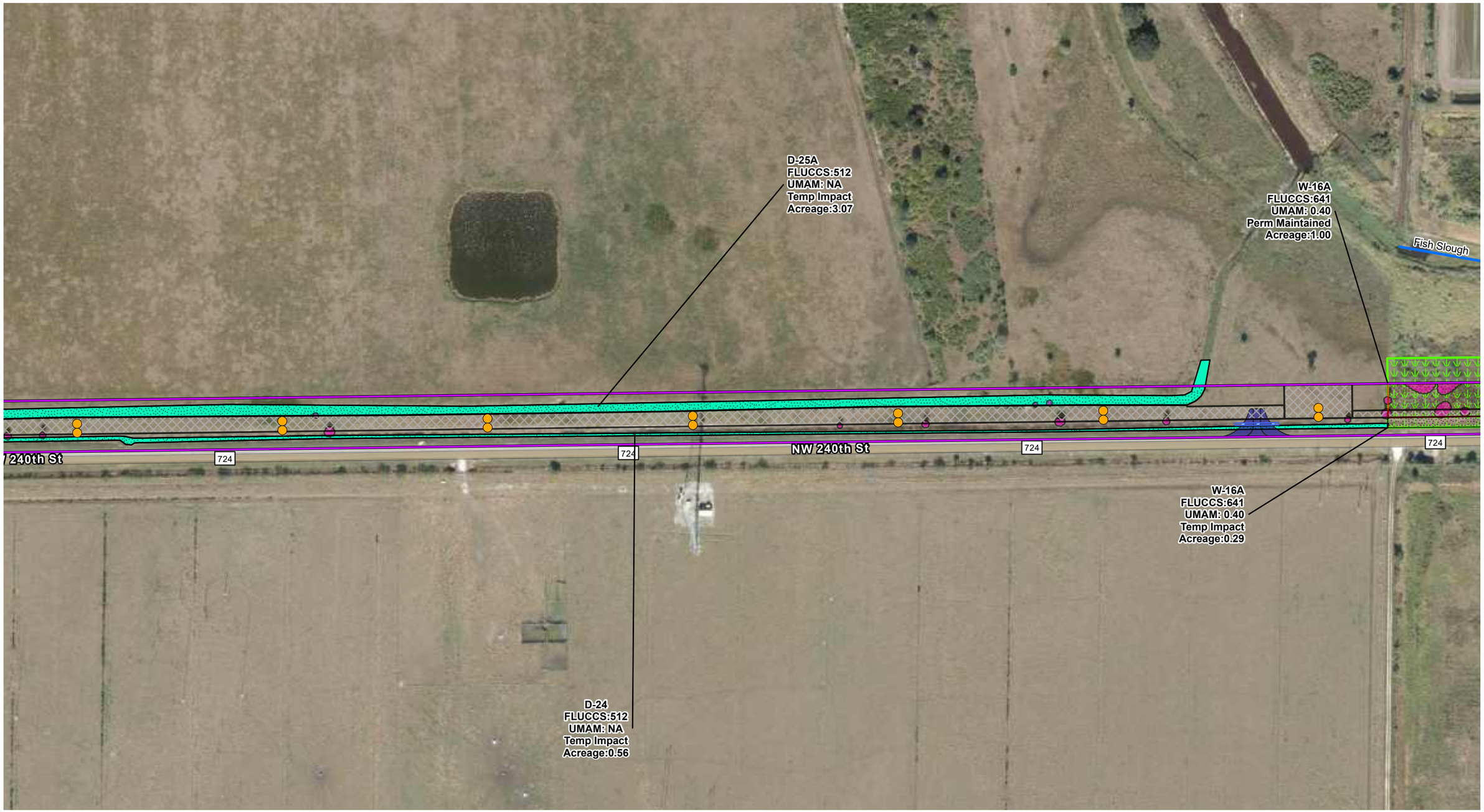

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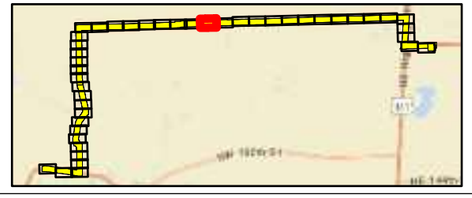

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Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
- Temp Impact
- Field Delineated Wetland
- Field Delineated Surface Water

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine
- Field Delineated Surface Water

Please Note:
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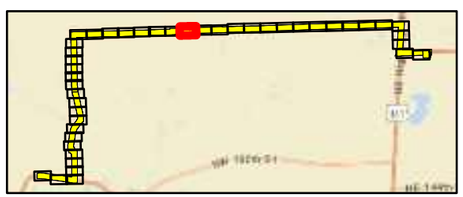
Proposed Aprons are for temporary construction access.



N

0 200 400

Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 18 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

D-30
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.56

D-18A
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.44

D-25A
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:3.07

NW 115th Ter

NW 240th St

724

D-30
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.08

D-18
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.38

D-25
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.76

- Structure
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N

0 200 400
Feet

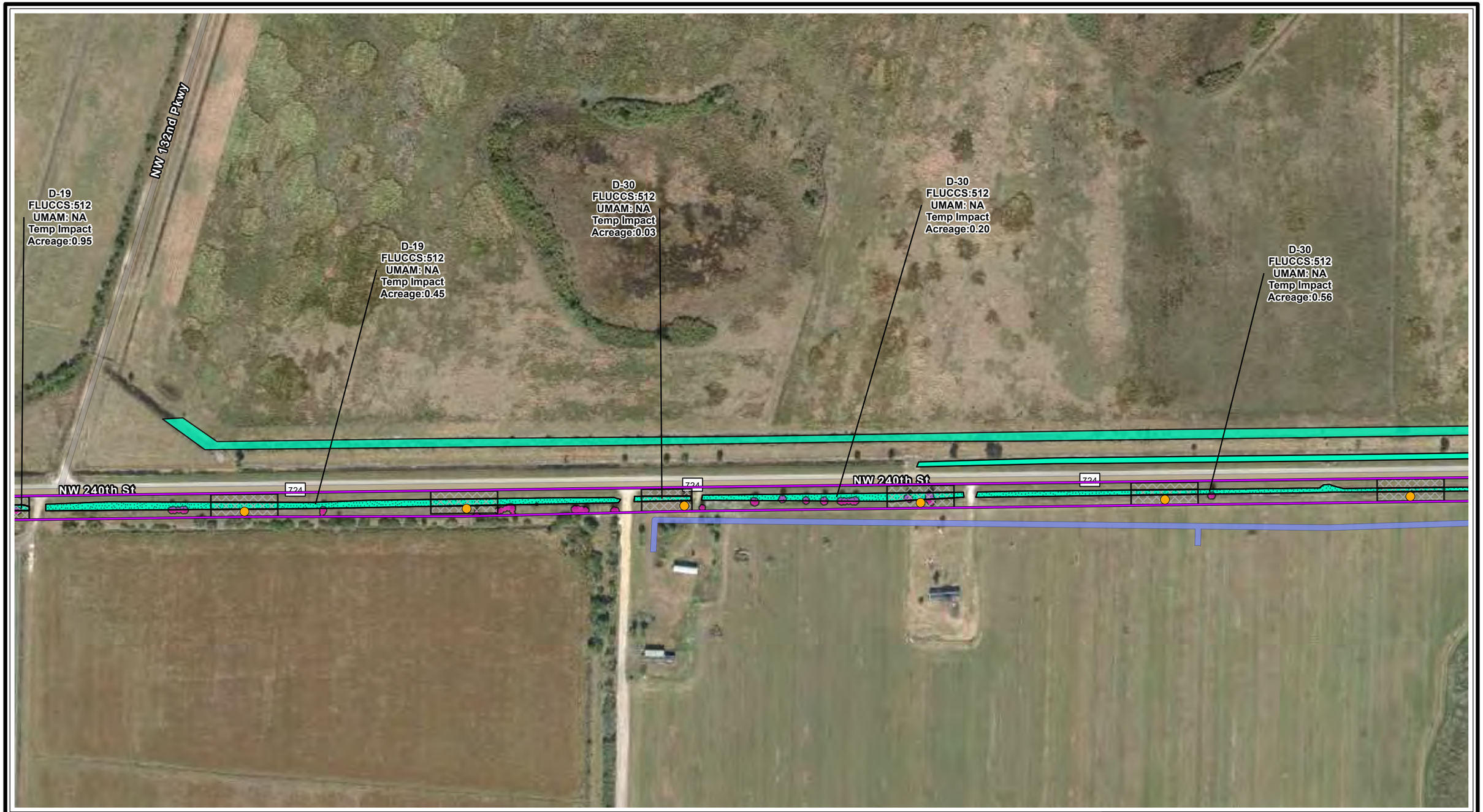
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 19 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
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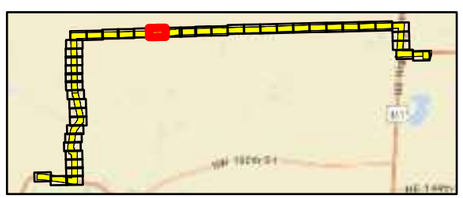

N

0 200 400

Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 20 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

D-19
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.95

NW 240th St

724

D-19
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.45

- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
- Temp Impact
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N

0 200 400
Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 21 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
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- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
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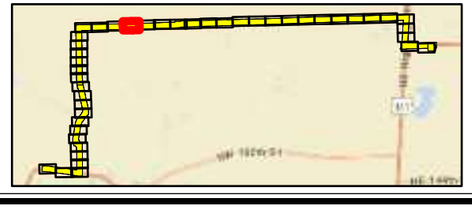


N

0 200 400

Feet

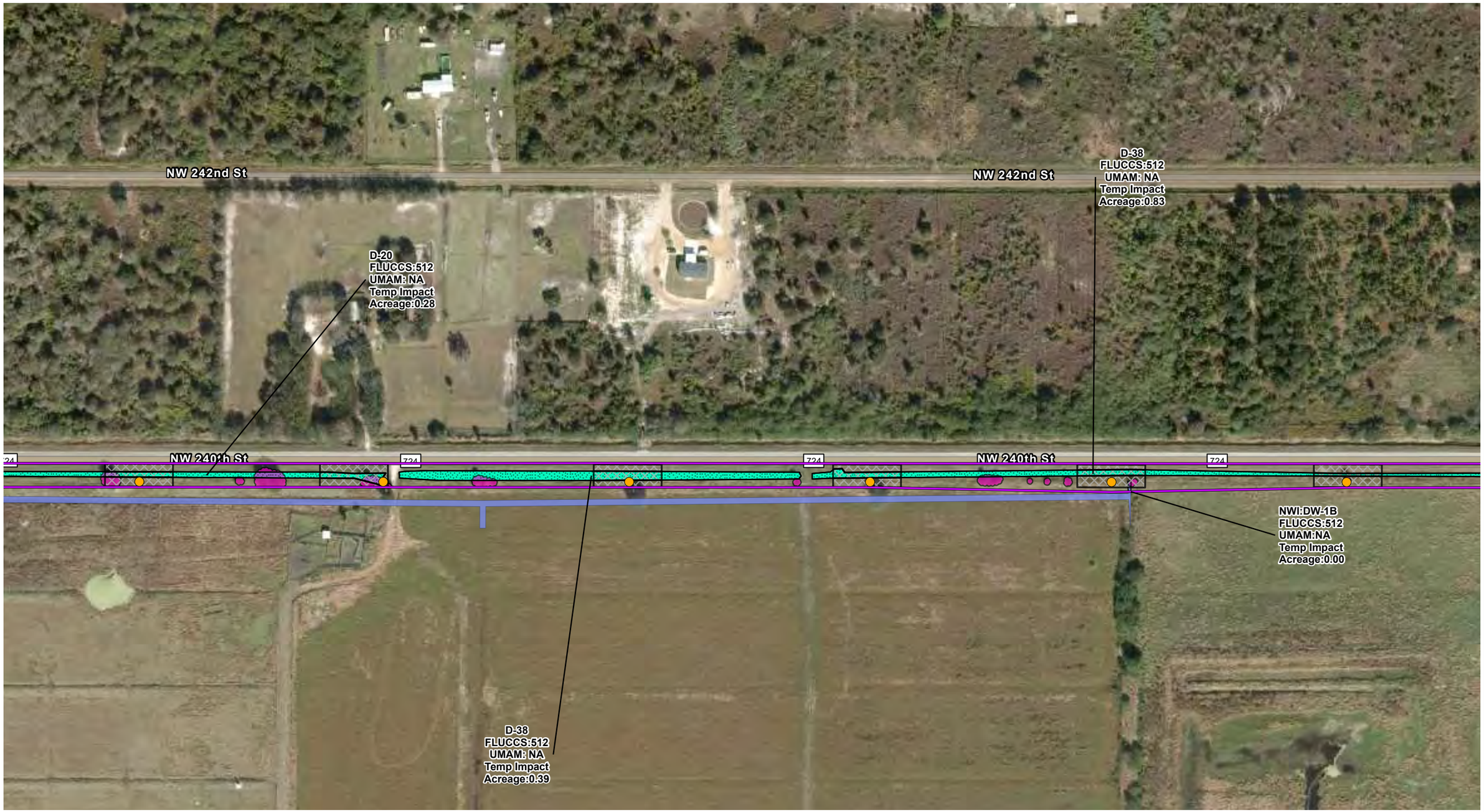
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 22 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
- Temp Impact
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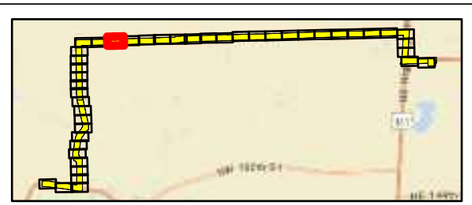


N

0 200 400

Feet

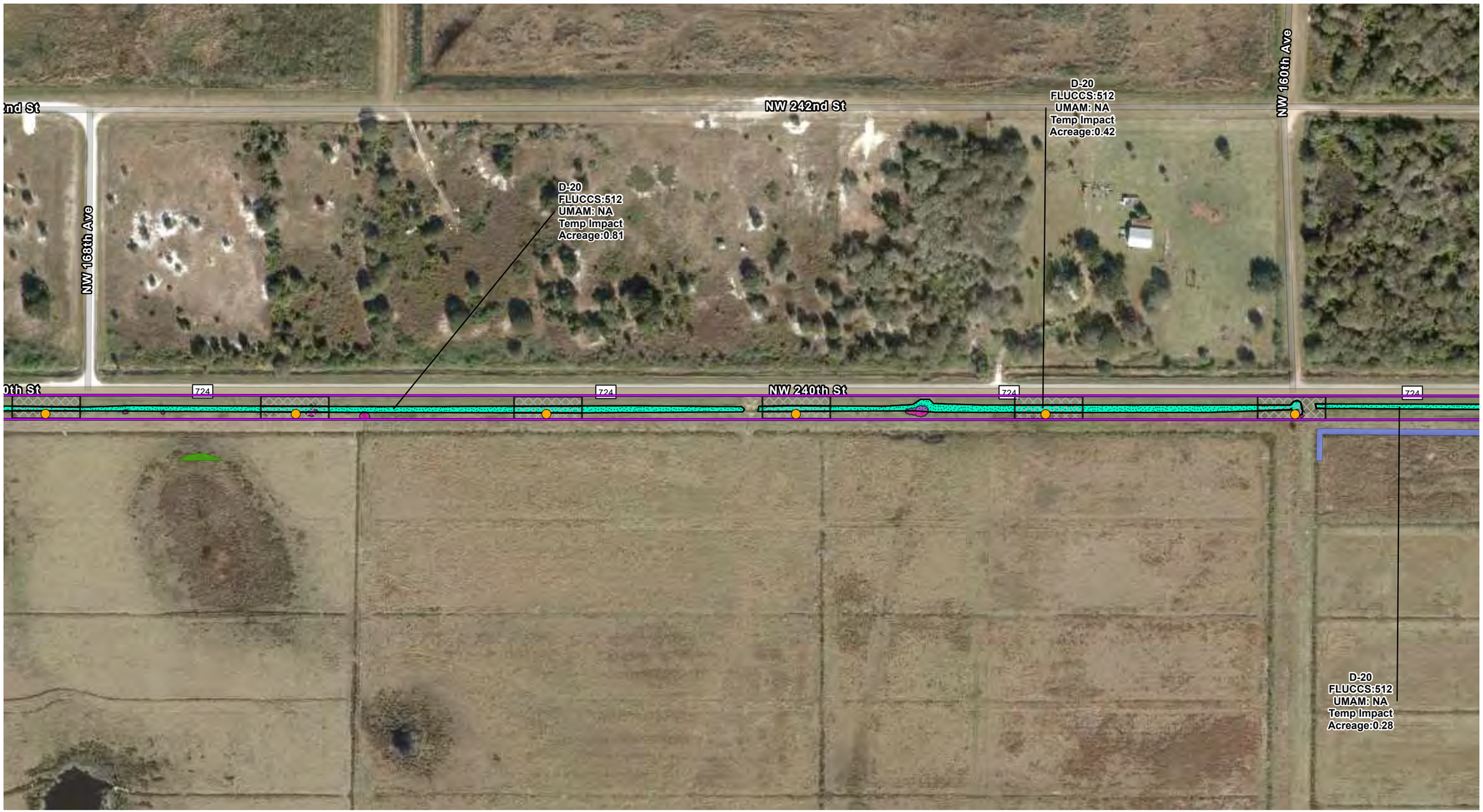
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 23 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
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- Field Delineated Wetland
- Field Delineated Surface Water

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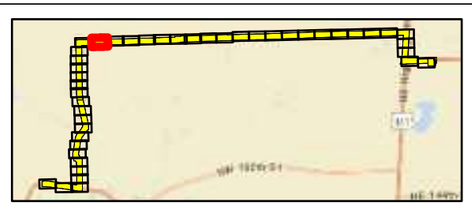


N

0 200 400
Feet

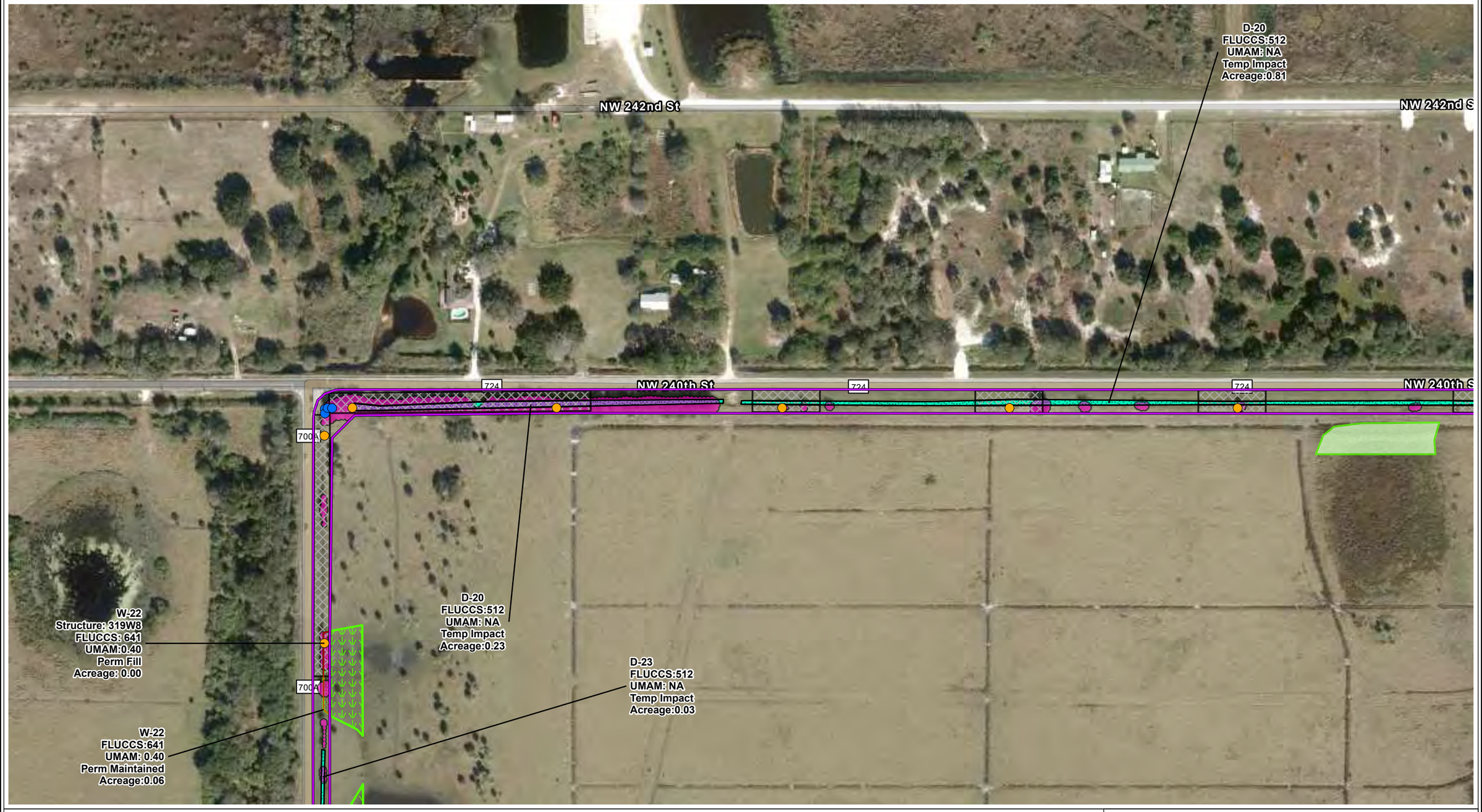
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 24 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
- Temp Impact
- Field Delineated Wetland
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NWI

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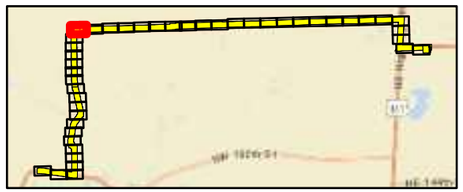

N

0 200 400

Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 25 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
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- Field Delineated Surface Water
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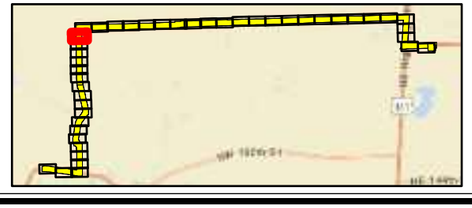

N

0 200 400

Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 26 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

W-24
Structure: 319W4
FLUCCS: 630
UMAM:0.43
Perm Fill
Acreage: 0.00

W-24
FLUCCS:630
UMAM: 0.47
Temp Impact
Acreage:0.22

W-24
FLUCCS:630
UMAM: 0.43
Perm Conversion
Acreage:0.59

D-25
FLUCCS:512
UMAM: NA
Temp Impact
Acreage:0.48

NW 176th Ave

Gore Branch

Gore Branch

700A

700A

- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
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N

0 200 400
Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 27 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
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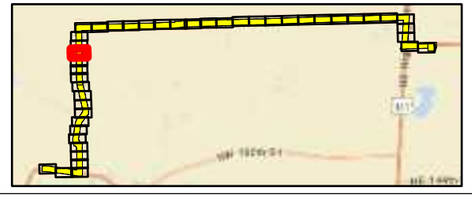


N

0 200 400

Feet

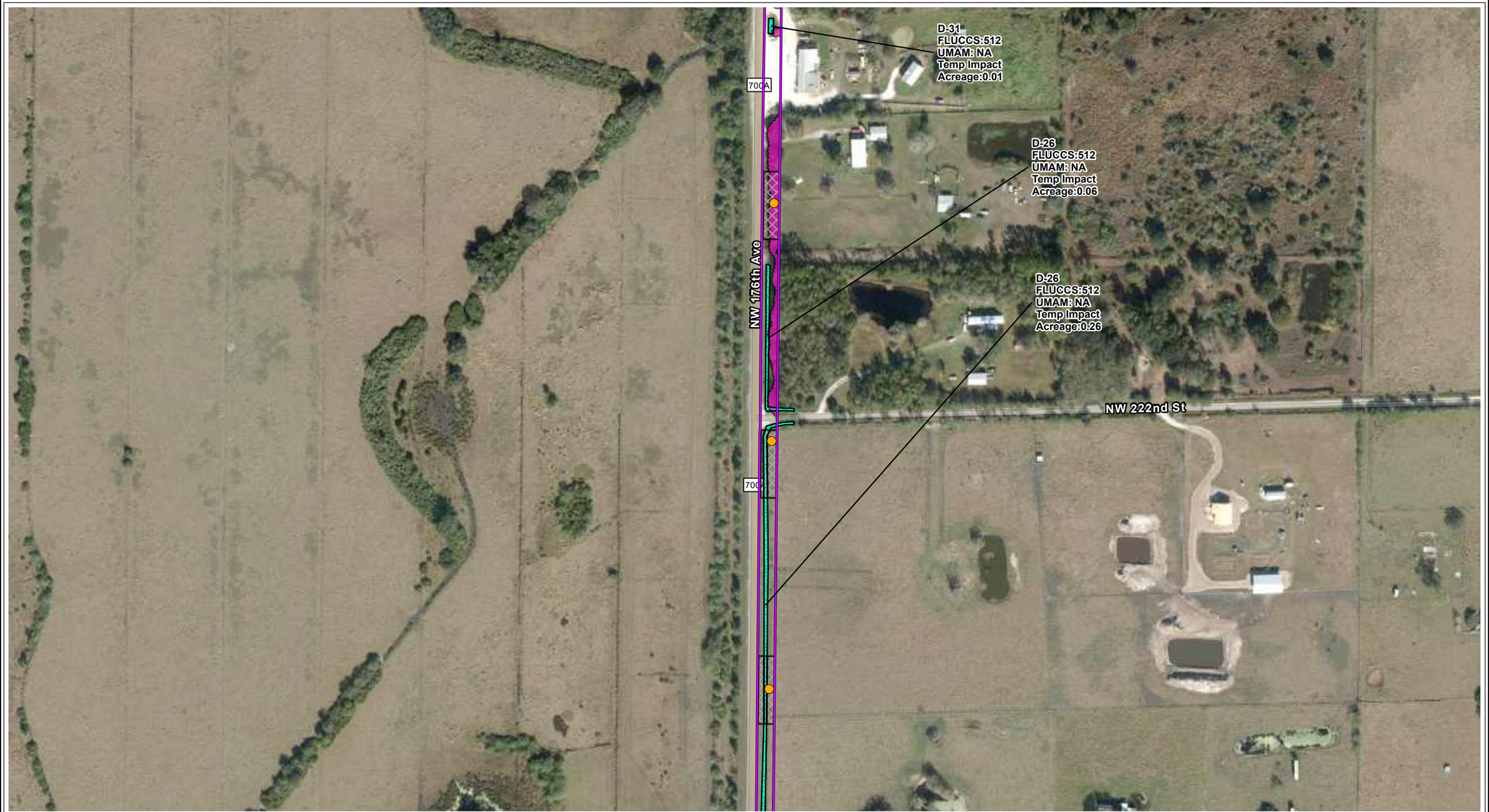
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 28 of 44
Segment 1: Sweatt – Basinger Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



Structure
Guy Anchor
Substation
Proposed Culvert
Proposed Aprons

Sweatt-Basinger Project Footprint
Clearing Area
Temp Matting
Perm Conversion
Perm Maintained
Temp Impact

Field Delineated Wetland
Field Delineated Surface Water

NWI
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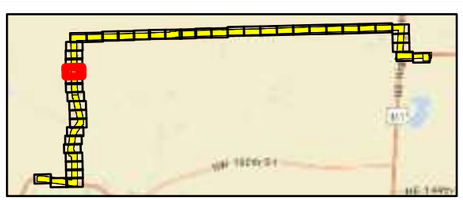

N

0 200 400
Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 29 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

ECT

- Structure
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- Substation
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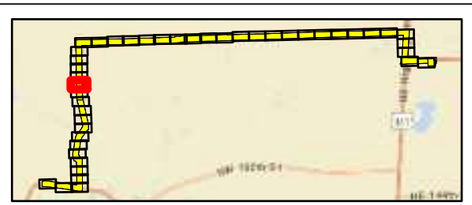

N

0 200 400
Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 30 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

ECT

- Structure
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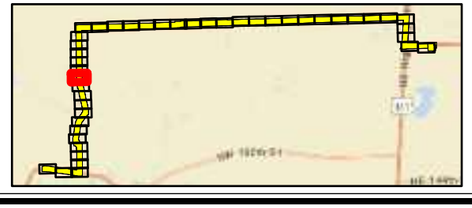


N

0 200 400

Feet

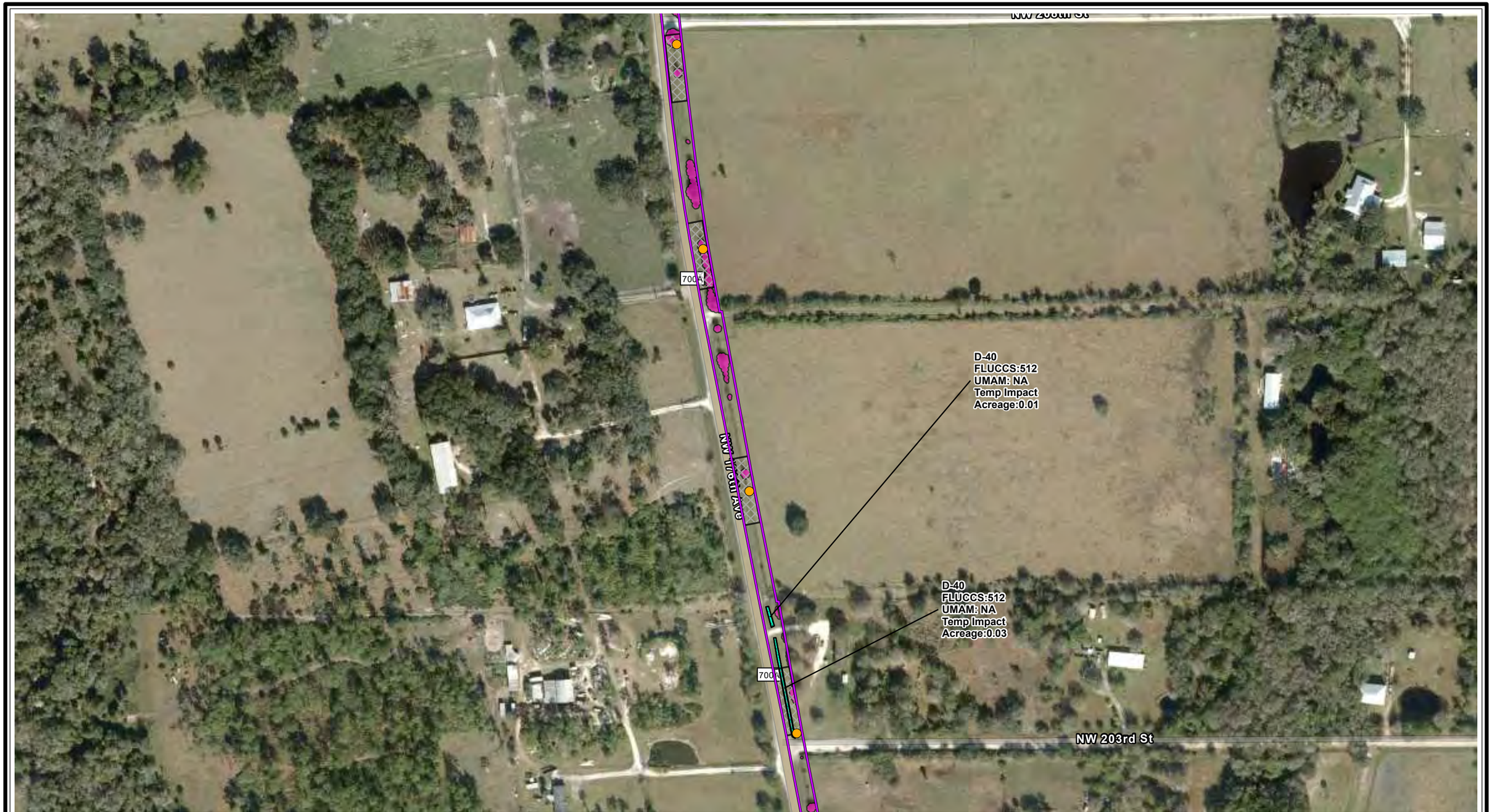
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 31 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
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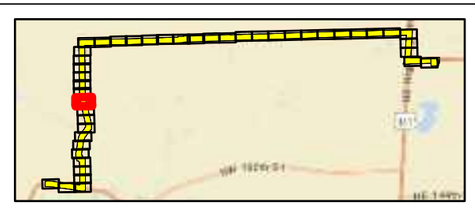


N

0 200 400

Feet

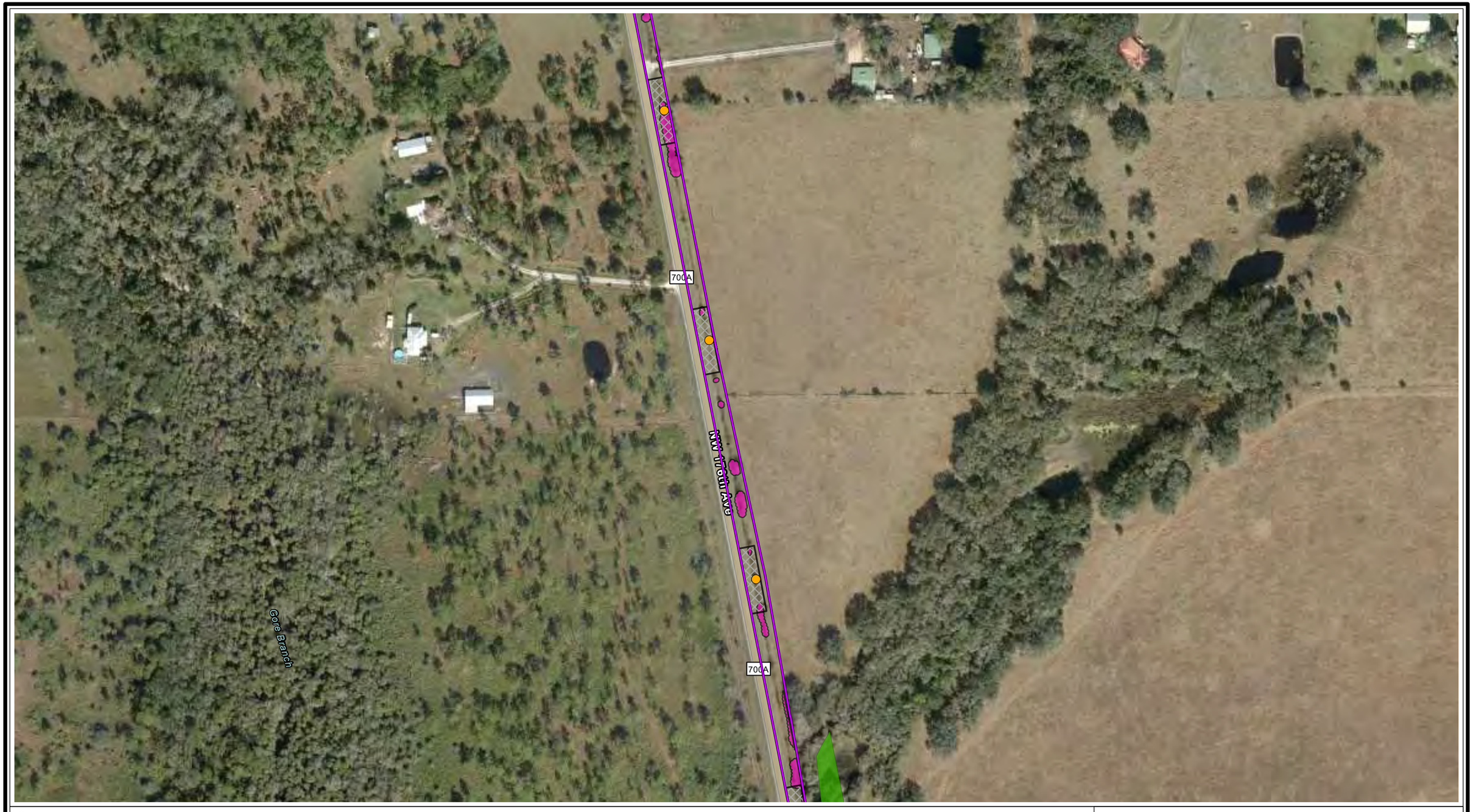
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 32 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
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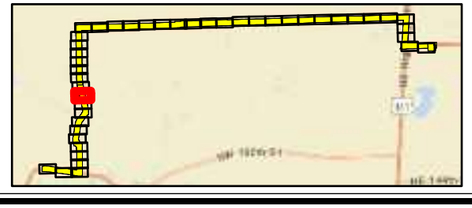

N

0 200 400

Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 33 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

NWI:DW-3
FLUCCS:630
UMAM:0.50
Temp Impact
Acreage:0.01

NWI:DW-3A
FLUCCS:630
UMAM:0.50
Perm Conversion
Acreage:0.01

700A

NW 170th Ave

Gore Branch

Gore Branch

- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
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N

0 200 400

Feet

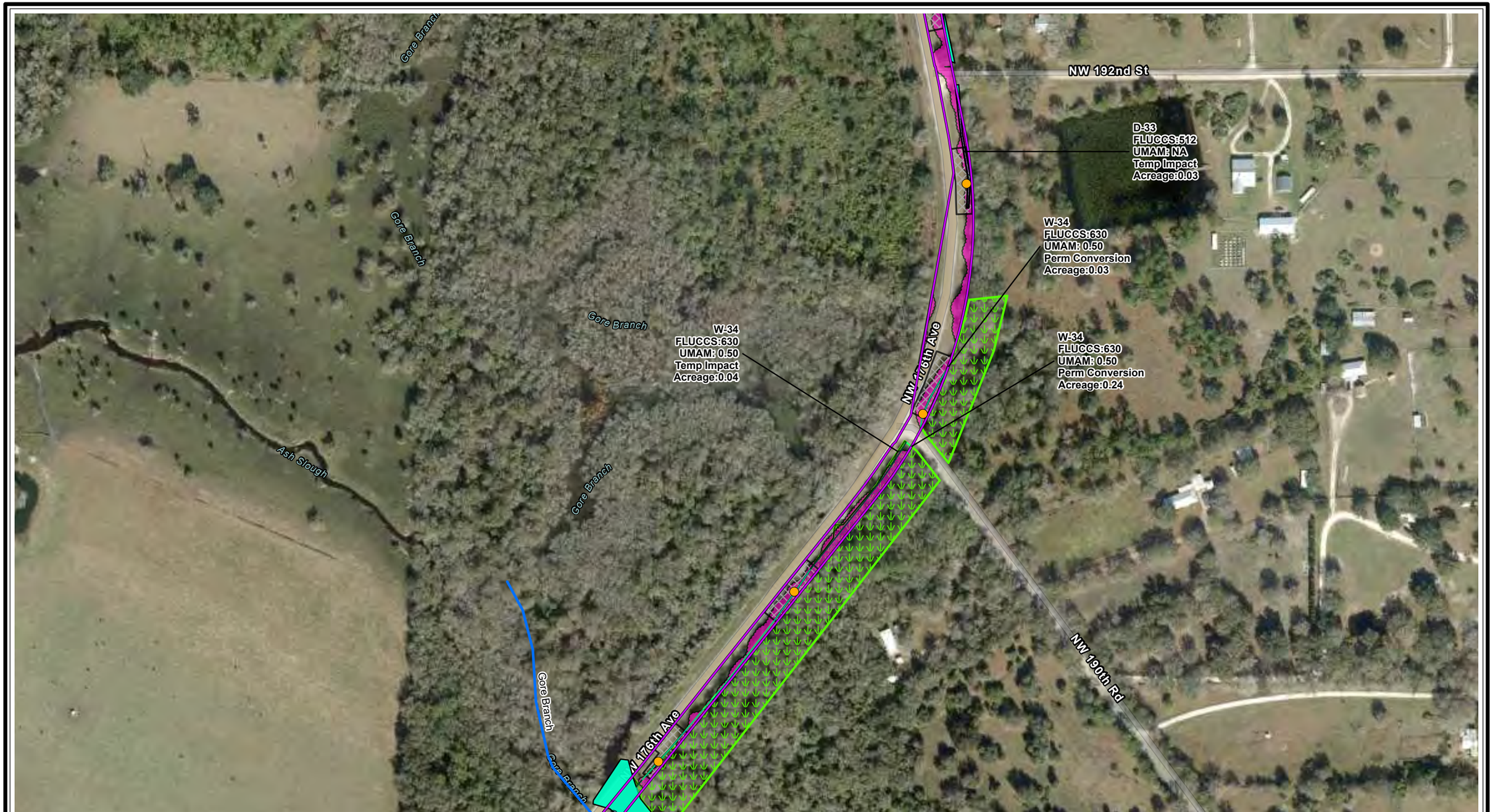
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 34 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
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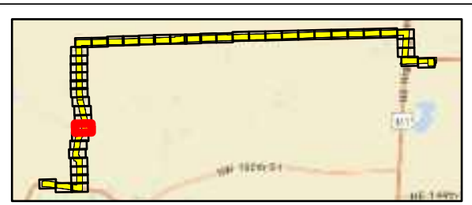
- Field Delineated Wetland
- Field Delineated Surface Water
- NHD Flowline

NWI

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine
- Field Delineated Surface Water

Please Note:
All Permanent Fill Structure impacts are <0.00 acres and are approx. 0.001154 acres.

Proposed Aprons are for temporary construction access.



N

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Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 35 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
- Proposed Culvert
- Proposed Aprons
- Sweatt-Basinger Project Footprint
- Clearing Area
- Temp Matting
- Perm Conversion
- Perm Maintained
- Temp Impact
- Field Delineated Wetland
- Field Delineated Surface Water
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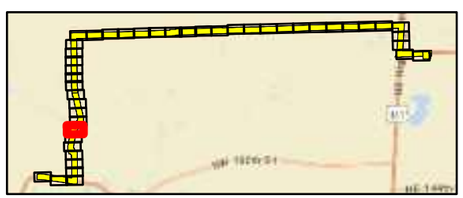

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Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 36 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

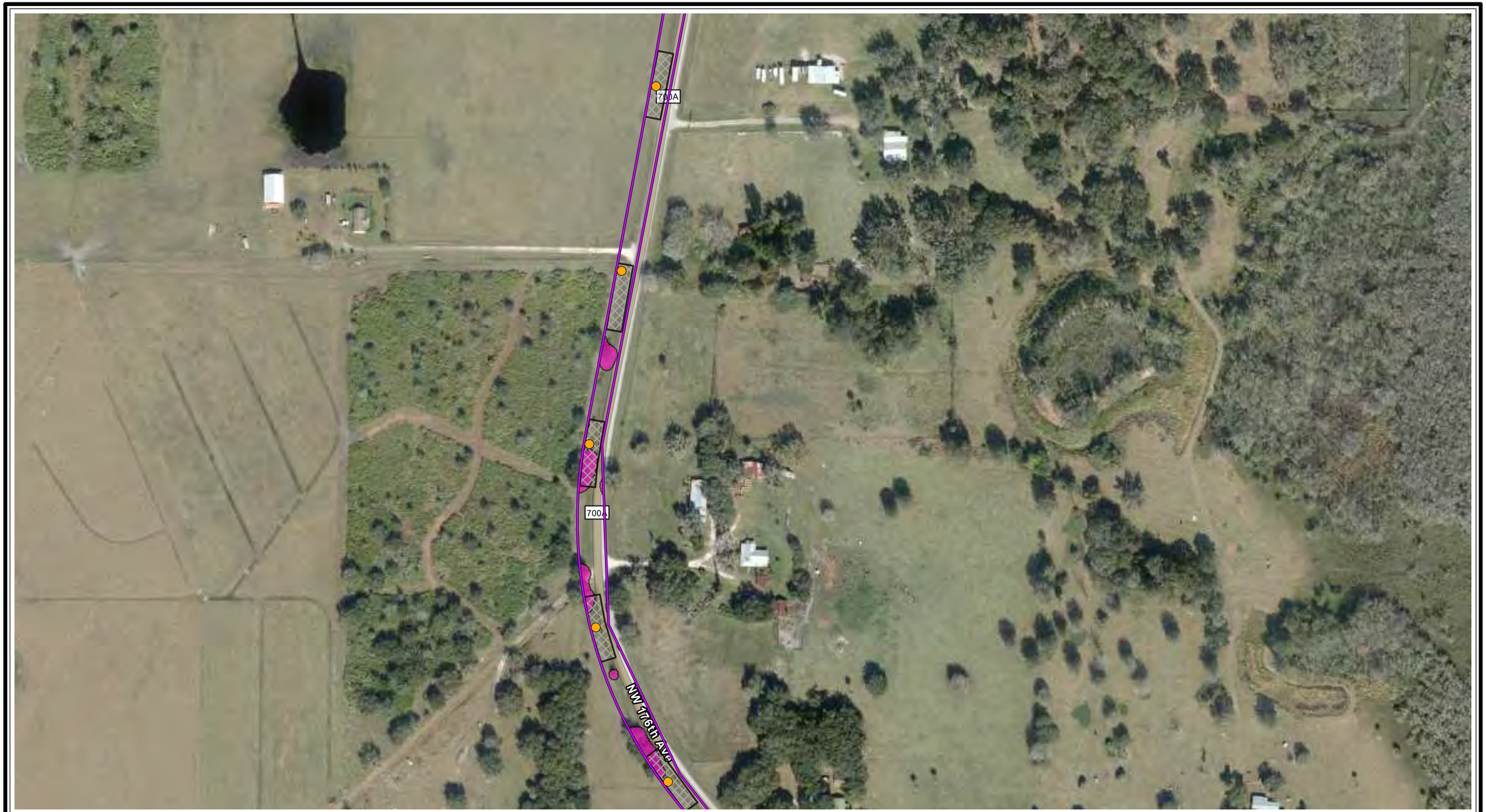
Okeechobee County, Florida
Date: 3/10/2023

ECT

Attachment 17 - Page 37 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

ECT



Structure
Guy Anchor
Substation
Proposed Culvert
Proposed Aprons

Sweatt-Basinger Project Footprint
Clearing Area
Temp Matting
Perm Conversion
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Field Delineated Surface Water

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Please Note:
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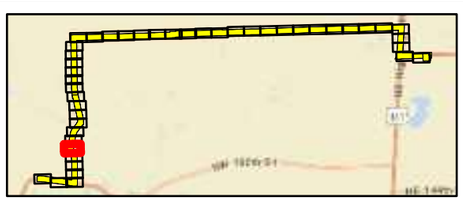

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0 200 400
Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 38 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

ECT

- Structure
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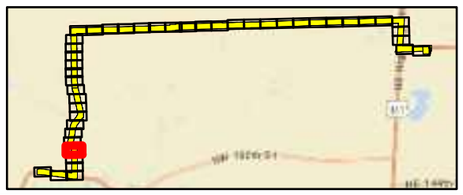

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0 200 400

Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 39 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
- Guy Anchor
- Substation
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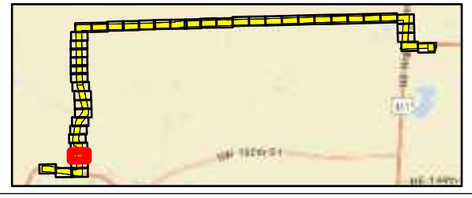

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Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 40 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

- Structure
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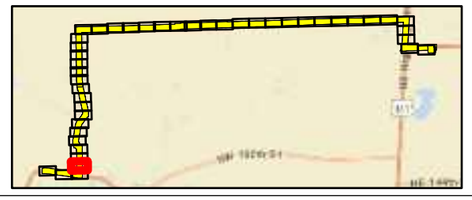

N

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Feet

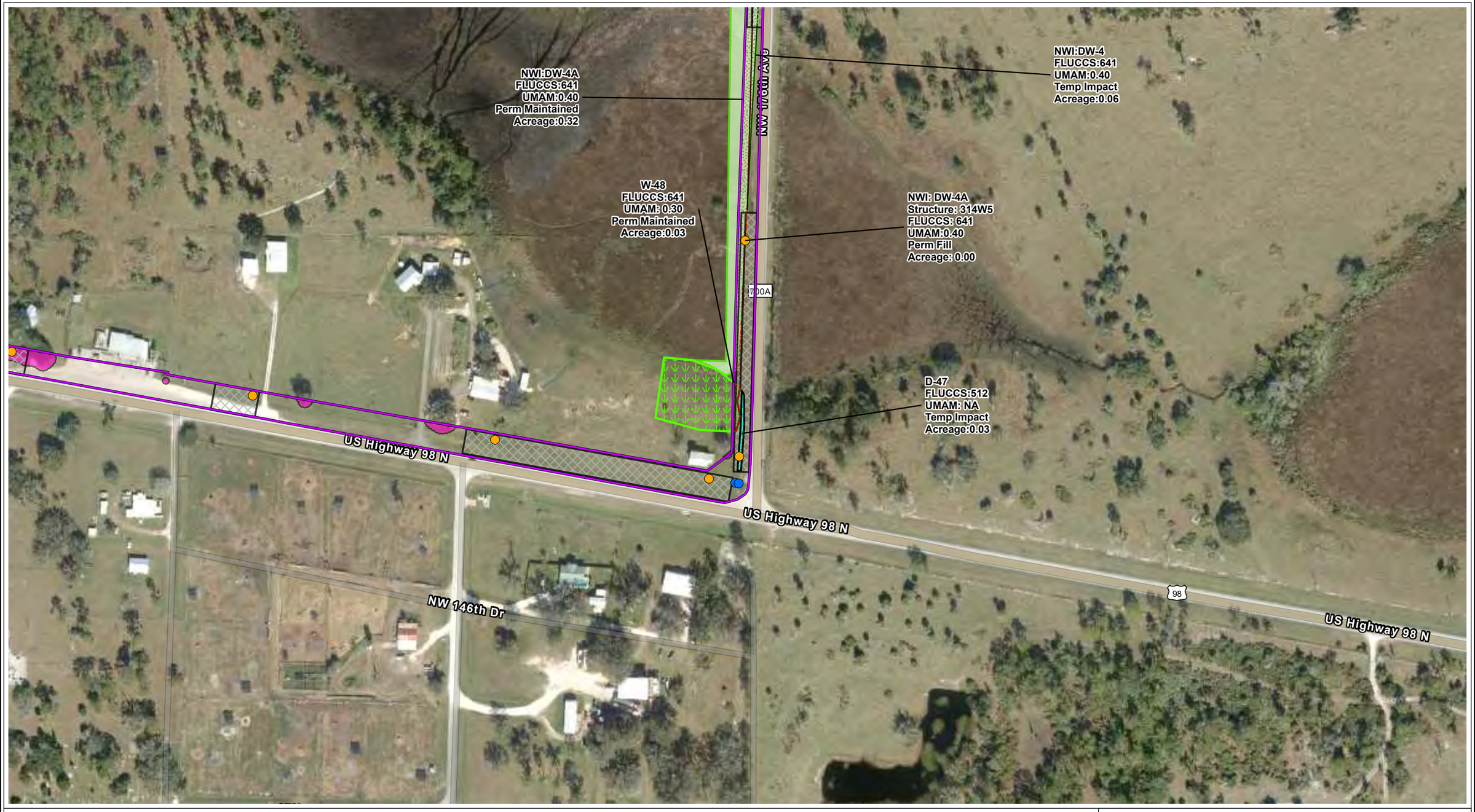
Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 41 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT



- Structure
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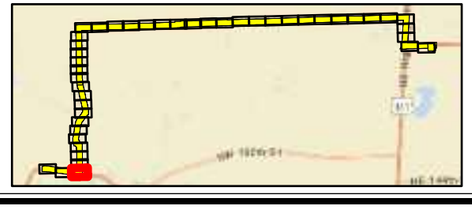

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Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 42 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida

Date: 3/10/2023

ECT

Structure
Guy Anchor
Substation
Proposed Culvert
Proposed Aprons

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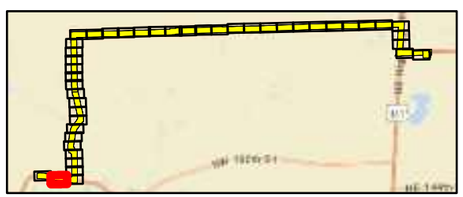

N

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Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 43 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

ECT

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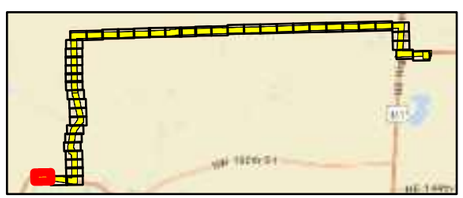

N

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Feet

Sources: FDEP 2022; USFWS, 2022; FDOT 2020; Pickett 2023; ECT, 2023.

Attachment 17 - Page 44 of 44
Segment 1: Sweatt – Basinger
Wetland Impact Map

Okeechobee County, Florida
Date: 3/10/2023

ECT

Attachment 18 – Wetland Delineations Methodology and Mitigation Plan

Attachment 18—Mitigation Plan

WETLANDS AND WATER BODIES DELINEATIONS METHODOLOGY

Environmental Consulting & Technology, Inc. (ECT) conducted a wetland/water body delineation and wetland function assessment for the Segment 1: Sweatt – Basinger portion of the proposed Sweatt- Whidden Project environmental survey area (ESA). The ESA for this segment generally consisted of a 25-foot-wide survey corridor in private property along the length of the approximately 21-mile transmission line segment plus the road right-of-way for use as potential temporary access or additional temporary workspace. Some areas of the ESA were expanded to 75 feet in private property to accommodate site specific constraints. The wetland delineation was performed using a combination of desktop review of existing data and maps as well as a field survey to verify these data. The following provides a description of the methods employed and the evaluation results.

METHODOLOGY—MAP AND LITERATURE REVIEW

Prior to instigation of the field survey, available maps, data, and literature were gathered and reviewed to determine the approximate extent of wetlands and waters. Relevant data sources included local plant lists, soil survey data, state and federal regulations, county ordinances, and existing reports prepared previously for the project study area. The following sources were examined:

- U.S. Geological Survey (USGS) topographic maps,
- Aerial photography (Google Earth®, Bing®, ESRI® ArcMap),
- County soil surveys (Attachment 7),
- National Wetland Inventory (NWI) maps,
- Land use/vegetation community maps (Attachment 9),
- U.S. Fish and Wildlife Service (USFWS) Information, Planning, and Consultation
- System (IPaC) report,
- 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual,
- Regional Supplement to the USACE Wetlands Delineation Manual: Atlantic and Gulf Coastal Plain Region[1],
- St Johns River Water Management District (SJRWMD) website,
- South Florida Water Management District (SFWMD) website, and
- Florida Natural Areas Inventory (FNAI).

[1] 1 U.S. Army Corps of Engineers (USACE). 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0). Wetlands Regulatory Assistance Program. Environmental Laboratory ERDC/EL TR-10-20. November. https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1046490.pdf..

WETLAND DELINEATION

After reviewing the NWI; soils; and Florida Land Use, Cover and Forms Classification System (FLUCFCS) maps, ECT conducted wetland delineations for the linear corridor and additional workspaces where survey access was granted. These field surveys were completed between December 5, 2022 and January 20, 2023, by teams of qualified wetland scientists from ECT. Additional wetlands will be delineated once access is obtained.

Potentially jurisdictional wetlands/waters were identified using the currently accepted methods for the state of Florida and United States (i.e., Florida Department of Environmental Protection regulations; Sections 62-340, Florida Administrative Code (Delineation of the Landward Extent of Wetlands and Surface Waters), including the Florida Wetlands Delineation Manual [1995] and the Routine Onsite Determination Methods as described in the USACE 1987 Wetlands Delineation manual, the 2010 Regional supplement to the USACE Wetlands Delineation Manual: Atlantic and Gulf Coastal Plain Region [Version 2.0], and the most current vegetative index, respectively). Both state and federal methodologies involve identification of three wetland criteria: a predominance of hydrophytic vegetation, the presence of hydric soil indicators, and evidence of wetland hydrology.

Typically, each wetland/water body would be flagged and sequentially numbered. Due to access permissions and the fact that at the time of the survey the applicant did not have legal control of the properties, wetland flagging could not occur in all locations. However, each wetland/upland data point for each wetland and water body was recorded using Trimble ® R1 GPS units. Wetlands and water bodies were photographed, and the required USACE upland/wetland data forms were completed. In addition, the functional quality of each wetland was assessed using the Uniform Mitigation Assessment Methodology (UMAM). Data collection for UMAM scoring purposes included wetland type, location in relation to other wetlands or surface waters, structure, extent, and functional status. Functional attributes, such as value of wildlife habitat, water environment, location in the landscape, and community structure, were evaluated and documented for each wetland.

No Survey Access Parcels

A small portion of the ESA corridor was assessed using a desktop evaluation rather than field survey. In limited areas, the baseline ecological characterization was performed using a combination of desktop survey (a review of maps/existing permits and existing reports and literature) and a visual inspection from the roadside or adjacent property where access was granted. It is anticipated that these wetlands will be reassessed once survey access is granted.

Survey Results

Using a combination of desktop data verified by field surveys, numerous wetlands and water bodies were delineated along the length of the proposed transmission line route and along the roads identified for access. Attachments 8 and 17 identify the location of wetlands and water bodies within the project ESA and project footprint. Attachment 15 contains the UMAM datasheets for these features.

For the purposes of this report, each wetland or water body polygon (based on FLUCFCS type) was given a unique identification number. A total of 24 wetland and 84 water body distinct polygons were delineated within the ESA. The footprint of the project will encompass a subset of these polygons and is defined as being the narrowed corridor plus additional temporary workspace.

Wetlands

Overall, wetlands encompass approximately 25.5 acres or approximately 16.4 percent of the project footprint and are distributed throughout the project extent. A small variety of wetland types are found present, as summarized in Attachment 10. Most of the wetlands are mixed wetland hardwoods, freshwater marsh, and scrub/shrub wetlands, plus numerous roadside ditches.

Prevalent wetland types include shrub wetlands, hydric pine, and mixed hardwood/conifer forested wetlands. Freshwater marshes are associated with roadside and agricultural swales and conveyances, wet pastures, and transmission line rights-of-way, as well as natural marshes. Forested wetlands are associated with creek systems, and wet pinelands. Attachment 10 provides details on individual wetland along the alignment such as wetland type, size, and quality. Section C Form provides a summary of wetland impacts, and Attachment 10 provides an itemization of wetland impacts. Attachment 10 also presents the calculations for the functional loss based on wetland and impact type.

Wetland quality is fairly consistent in the ESA for Segment 1: Sweatt - Basinger. Those wetlands in existing linear corridors (i.e., roadside, distribution line) and agricultural areas tend to be of lower quality with weedy and invasive species, impacted hydrology, and lower location and landscape support. UMAM scores for those wetlands generally range between 0.3 and 0.5. The higher quality wetlands are primarily those forested areas associated with the rivers and the creek systems such as Fish Slough, Gore Branch, and others. These systems have somewhat higher UMAM scores generally between 0.5 and 0.6.

Water Bodies

The wetland teams delineated 84 water body polygons within the ESA. Water bodies comprise approximately 24.8 acres of the project footprint or approximately 16 percent of the project area.

Attachment 10, lists and describes those potentially affected by the project limits. The types of water bodies identified include man-made ditches, canals, cattle ponds, other types of manmade ponds/reservoirs, as well as several named and unnamed natural creeks.

IMPACTS AND MITIGATION

Florida Power & Light Company (FPL) will employ two types of mitigation to compensate for unavoidable wetland and water body impacts – onsite restoration and the purchase of mitigation credits. Attachment 10 presents the functional loss of each wetland based on the UMAM and impact type.

NON-FORESTED WETLANDS AND SURFACE WATERS

Temporary Impacts

Approximately 3.50 acres of non-forested wetlands and 24.75 acres of water bodies (ditches and natural streams) will be temporarily impacted from matting and construction related activities both in the temporary construction area and permanent project footprint. These areas will be restored to their preconstruction ground surface elevation and are expected to return to their preconstruction functional condition. No UMAM functional loss has been assigned to these wetlands or water bodies.

Permanent Impacts (Fill)

Mitigation for the permanent fill of 0.023-acre of non-forested wetlands associated with installation of transmission pole structures will be offset by purchasing credits from an approved mitigation bank. Functional loss will be calculated as follows:

(Pre-project UMAM score – with project UMAM score) × acreage of permanent impact

FPL calculates 0.023 UMAM units would be needed to offset the proposed functional loss associated with pole installation (refer to typical drawing in Attachment 6) in non-forested wetlands.

FORESTED WETLANDS

Impacts to forested wetlands will be mitigated by using a combination of onsite restoration and purchase of mitigation bank credits as noted in the following paragraphs.

Temporary Impacts

The project includes 0.233-acre of temporary impacts to forested wetlands. Temporary impacts within forested wetlands typically include those areas where access and construction occur outside of the permanent variable-width transmission line corridor. Once preconstruction contours are restored following construction within the temporary impact areas, wetland vegetation will re-establish immediately. Additionally, these areas will be allowed to re-establish to their preconstruction forested system type following construction. These systems are expected to return to their reduced functional forested condition within 15 years. Therefore, a Time Lag factor of 1.46 was applied to the UMAM calculation. Forested wetland mitigation credits will be purchased in order to offset Functional Loss while the forested wetlands re-establish.

Functional Loss (FL) of temporary impacts to forested wetlands is calculated as follows:

FL= (Pre-project UMAM score – with project UMAM score) × acreage of permanent impact x 1.46 Time Lag Factor

The "with project UMAM score" is the projected function of the wetland after construction of the project, ground surface has been restored to preconstruction contours, and wetland vegetation has re-established. The Community Structure UMAM score was lowered to 3 for all forested wetlands with temporary impacts to account for the loss of trees and canopy structure. Location and Landscape Support UMAM scores were reduced by one for temporary impacts to forested wetlands, to address additional temporary limitation to wildlife access or connectivity to wildlife habitats resulting from the project. Water Environment UMAM scores were not reduced, as these functions should remain the same upon completion of construction.

As indicated in Attachment 10, FPL estimates a loss of 0.05 units of FL from temporary construction activities in forested wetlands that will be offset by the purchase of mitigation bank credits.

Permanent Impacts (Fill)

The project includes 0.005-acre of permanent impacts to forested wetlands, which include those areas or locations where transmission line structures or guy anchors are proposed within forested wetland systems (typical drawings are provided in Attachment 6). Mitigation credits will be purchased from an approved wetland mitigation bank to offset Functional Loss associated with the permanent fill in these areas. Attachment 10 indicates the acreage of permanent impacts to forested wetlands.

FL of permanent impacts to forested wetlands is calculated as follows:

FL= (Pre-project UMAM score – with project UMAM score) × acreage of permanent impact

Given the small acreages of permanent fill in forested wetlands, FPL proposes to purchase forested wetland credits equal to the amount of acreage proposed to be impacted. Therefore, 0.005 forested wetland mitigation credits will be purchased to offset the proposed FL associated with transmission line structure locations within forested wetlands.

Permanent Impacts (Conversion)

The project includes 0.921-acre of permanent conversion of forested wetlands to herbaceous wetlands within the variable-width transmission line corridor. To compensate for the FL resulting from the conversion of these wetlands, FPL will purchase forested wetland mitigation credits from approved wetland mitigation banks.

FL associated with forested wetland conversion impacts is calculated as follows:

FL= (Pre-project UMAM Score – With project UMAM Score) × acreage of permanent impact

To account for the loss of trees and canopy structure, the Community Structure UMAM score was lowered to three for all forested wetlands with conversion impacts. Location and Landscape Support UMAM scores were reduced by one in forested wetland areas collocated along existing highways or roads. A reduction by one in the Location and Landscape Support UMAM score is

evidenced by the fact that habitat access limitations in areas where existing fences and impervious surfaces currently pose barriers to wildlife. In all other areas, the Location and Landscape Support UMAM scores were reduced by two, as the project may introduce new temporary barriers to wildlife habitat or reduce buffers and hydrologic connectivity in areas where those impediments may not currently exist. Water Environment UMAM scores were not reduced, as these functions should remain the same upon completion of construction.

Clearing forested wetlands will involve cutting trees to ground level with minimal ground disturbance. Following clearing and construction within the permanent conversion areas, wetland vegetation is expected to reestablish immediately. These systems are expected to return to their reduced functional condition within one year. Therefore, a UMAM Time Lag Factor of 1.0 was applied to the UMAM calculation.

As indicated in Attachment 10, FPL estimates a loss of 0.123 functional UMAM units for the conversion of approximately 0.921-acre of forested wetlands to herbaceous wetlands within the project's permanent maintenance easement.

MITIGATION

Because not one mitigation bank service area covers the overall project footprint, FPL will consult with the regulatory agencies to identify the most suitable mitigation bank available to purchase credits of the appropriate type and from the most appropriate watershed basin to offset impacts associated with the construction of each segment of this project.

It is anticipated that for Segment 1: Sweatt – Basinger, mitigation credits would be sought from Bluefield Ranch.

To offset impacts to wetlands and water bodies associate with this segment of the project, FPL proposes the following for mitigation:

- To offset the **0.03-**acre of permanent fill associated with pole structures and guys,
- To offset the **0.05** FL units associated with the temporary construction impacts to forested wetlands outside the permanent project footprint resulting from construction of the project, and
- To offset the **0.123** FL units associated with the permanent conversion of forested wetlands to herbaceous within the permanently maintained project area, FPL would purchase:

  + 0.030
  + 0.050
  + 0.123
  0.173 credits

To offset the FL associated with impacts from the construction and operation of this project FPL would purchase 0.173 credits.