

JOINT APPLICATION FOR
ENVIRONMENTAL RESOURCE PERMIT/

AUTHORIZATION TO USE
SOVEREIGN SUBMERGED LANDS/

FEDERAL DREDGE AND FILL PERMIT

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION/
WATER MANAGEMENT DISTRICTS/
U.S. ARMY CORPS OF ENGINEERS

**INSTRUCTIONS FOR JOINT APPLICATION FOR ENVIRONMENTAL RESOURCE
PERMIT/AUTHORIZATION TO USE STATE OWNED SUBMERGED LANDS/FEDERAL DREDGE AND
FILL PERMIT**

INTRODUCTION

Attached is a joint application for:

- 1) activities regulated under Part IV of Chapter 373, F.S.;
- 2) activities which require authorization to use state owned submerged lands; and
- 3) activities which require federal dredge and fill permit.

Certain activities may qualify for an exemption. If an activity qualifies for an exemption, an application is not required, although the use of this application form is the most expeditious way for the agencies to make the determination that the activity qualifies for an exemption. Attachment 2 lists various regulated activities and the type of permit required for each activity. If you have any questions, please contact the staff of the nearest office of either the Florida Department of Environmental Protection (DEP) or a Water Management District (WMD).

PROCESSING AGENCY/DISTRICT SERVICE CENTERS

The Department of Environmental Protection ("Department" or "DEP") regulates some types of activities, and the Water Management Districts ("WMDs") regulate others. Attachment 1, DEP/WMD Permitting Responsibilities, specifies which activities are regulated by each agency. Environmental Resource Permit Applications shall be made to the appropriate District/Department office serving the area in which the activity is proposed. Attachment 4 designates the appropriate agency office for each geographic area.

COPIES/APPLICATION FEES

Submit an original signed application form plus **four** copies of the form, and **five** complete sets of all the requested drawings and other information to the appropriate DEP or WMD office. Submit the appropriate fee with your application. Application fees are listed in Attachment 3.

DISTRIBUTION TO U.S. ARMY CORPS OF ENGINEERS

When activities are proposed in, on or over wetlands or other surface waters, a portion of the application (Section A and Section C, with the associated drawings) will be forwarded to the Army Corps of Engineers (ACOE) by the reviewing agency. The ACOE will advise you of any additional information that may be required to complete your federal dredge and fill permit application. It is not necessary for the applicant to submit a separate application to the ACOE. The information requested in this application form may be more than required to make a complete application to the ACOE. However, it is useful and may be essential for subsequent evaluation. Reducing unnecessary paperwork and delays is a continuing goal of the ACOE.

DISTRIBUTION TO THE DEP FOR STATE LAND APPROVAL

If the applicant checks the box to request authorization to use sovereign submerged lands, the Department will begin processing the request for sovereign submerged lands approval. Additionally, if at any time during the processing of the application, it appears that the proposed activities may take place on sovereign submerged lands, the Department will initiate a review for the authorization to use such lands. For an explanation of sovereign submerged lands approval see Attachment 5.

NOTE: The information listed in Sections B, D, E, and F of this application package is not intended to be all-inclusive. Additional information may be requested by the reviewing agency in order to complete your application.

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Attachment 5	Proprietary verses regulatory authorization

“What Sections of the Application Must I Fill Out?”

Section:	Noticed General Permits	Individual Permits		
		Single- Family Residences	Others	Mitigation Banks
Section A	Yes	Yes	Yes	Yes
Section B	Yes			
Section C		Yes	Yes	Yes
Section D		Yes		
Section E			Yes	
Section F				Yes
Section G	As Needed	As Needed	As Needed	As Needed

SECTION A

FOR AGENCY USE ONLY

ACOE Application #
 Date Application Received
 Proposed Project Lat.
 Proposed Project Long.

DEP/WMD Application #
 Date Application Received
 Fee Received \$
 Fee Receipt #

PART 1:

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters?

☒ yes ☐ no

Is this application being filed by or on behalf of a government entity or drainage district? ☐ yes ☒ no

PART 2:

A. Type of Environmental Resource Permit Requested (check at least one). See Attachment 2 for thresholds and descriptions.

☒ Noticed General - include information requested in Section B.

☐ Standard General (Single Family Dwelling) - include information requested in Sections C and D.

☐ Standard General (all other Standard General projects) - include information requested in Sections C and E.

☐ Individual (Single Family Dwelling) - include information requested in Sections C and D.

☐ Individual (all other Individual projects) - include information requested in Sections C and E.

☐ Conceptual - include information requested in Sections C and E.

☐ Mitigation Bank Permit (construction) - include information requested in Sections C and F.

F. (If the proposed mitigation bank involves the construction of a surface water management system requiring another permit defined above, check the appropriate box and submit the information requested by the applicable section.)

☐ Mitigation Bank (conceptual) - include information requested in Sections C and F.

B. Type of activity for which you are applying (check at least one)

☐ Construction or operation of a new system, other than a solid waste facility, including dredging or filling in, on or over wetlands and other surface waters.

☐ Construction, expansion or modification of a solid waste facility.

☐ Alteration or operation of an existing system which was not previously permitted by a WMD or DEP.

☒ Modification of a system previously permitted by a WMD or DEP.

Provide previous permit numbers: **Stanton Energy Center Conditions of Certification PA81-14K**

☒ Alteration of a system ☐ Extension of permit duration

☐ Abandonment of a system ☐ Construction of additional phases of a system

☐ Removal of a system

C. Are you requesting authorization to use Sovereign Submerged Lands?

☐ yes ☒ no

(See Section G and Attachment 5 for more information before answering this question.)

D. For activities in, on, or over wetlands or other surface waters, check type of federal dredge and fill permit requested:

☐ Individual

☐ Programmatic General

☐ General

☒ Nationwide

☐ Not Applicable

E. Are you claiming to qualify for an exemption? ☐ yes ☒ no

If yes, provide rule number if known. ____

PART 3:	B. ENTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)
A. OWNER(S) OF LAND	
Name Ron Toporek, P.E.	Name
Title and Company Orlando Utilities Commission	Title and Company
Address 100 West Anderson Street	Address
City, State, Zip Orlando, FL 32801	City, State, Zip
Telephone and Fax 407-384-4180 (phone) 407-384-4020 (fax)	Telephone and Fax
C. AGENT AUTHORIZED TO SECURE PERMIT	D. CONSULTANT (IF DIFFERENT FROM AGENT)
Name	Name Karl Bullock
Title and Company	Title and Company Senior Ecologist, Golder Associates Inc.
Address	Address 6241 NW 23 rd Street, Suite 500
City, State, Zip	City, State, Zip Gainesville, FL 32653
Telephone and Fax	Telephone and Fax (p)352-336-5600; (f) 352-336-6603

PART 4: (Please provide metric equivalent for federally funded projects):

A. Name of Project, including phase if applicable: OUC Stanton Substation #17 to Curry Ford Substation Mid-span Transmission Structures

B. Is this application for part of a multi-phase project?
☐yes ☒no

C. Total applicant-owned area contiguous to the project?
Approximately 6 miles of right-of-way with varying width = 165 ac.; 67 ha.

D. Total area served by the system: N/A ac.; ___ ha.

E. Impervious area for which a permit is sought: 0.014 ac.; 0.0057 ha.

F. Volume of water that the system is capable of impounding:
0 ac. ft.; 0 m

G. What is the total area of work in, on, or over wetlands or other surface waters?
4.6 ac.; 1.9 ha. 200,376 sq. ft.; 18,616 sq. m.

H. Total volume of material to be dredged: 0 yd; 0 m

I. Number of new boat slips proposed: 0 wet slips; 0 dry slips

PART 5:

Project location (use additional sheets if needed):

County(ies) Orange

Section(s) 7-12

Township 23S

Range 31E

Section(s) 7, 18

Township 23S

Range 32E

Land Grant name, if applicable:

Tax Parcel Identification Number:

Street Address Road or other location: ____

City, Zip Code, if applicable: ____

PART 6: Describe in general terms the proposed project, system, or activity.

Addition of mid-span transmission structures between existing structures on the 7-17PEF-Curry Ford transmission line within existing ROW between Stanton Substation #17 and Curry Ford Substation. The mid-span structures are required to support additional transmission capacity and reliability. Construction access will utilize temporary construction matting with perimeter silt fencing to avoid wetland dredge/fill impacts; no new access roads are proposed. Minimal fill (total of 0.014 acre) will be required for installation of new mid-span transmission structures.

PART 7:

A. If there have been any pre-application meetings, including on-site meetings, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

B. Please identify by number any MSSW/Wetland Resource/ERP/ACOE Permits pending, issued or denied for projects at the location, and any related enforcement actions.

Agency	Date	No.\Type of Application	Action Taken
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C. Note: The following information is required for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit or an authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding application) and/or (for proprietary authorizations) is located within a 500 ft. radius of the applicant's land. Please attach a plan view showing the owner's names and adjoining property lines. Attach additional sheets if necessary.

1. **See Attachment A, Adjacent Property Owners**

2.

3.

4.

5.

6.

7.

8.

PART 8:

A. By signing this application form, I am applying, or I am applying on behalf of the applicant, 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 relive me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation 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.

Ron Toporek

Typed/Printed Name of Applicant (If no Agent is used) or Agent (If one is so authorized below)

Signature of Applicant/Agent

Date

Director of Transmission

(Corporate Title if applicable)

AN AGENT MAY SIGN ABOVE ONLY IF THE APPLICANT COMPLETES THE FOLLOWING:

B. I hereby designate and authorize the agent listed above 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.

Typed/Printed Name of Applicant

Signature of Applicant

Date

(Corporate Title if applicable)

Please note: The applicant's original signature (not a copy) is required above.

PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

C. I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

Ron Toporek

Typed/Printed Name of Applicant

Signature of Applicant

Date

Director of Transmission

(Corporate Title if applicable)

SECTION B

INFORMATION FOR NOTICED GENERAL ENVIRONMENTAL RESOURCE PERMITS

INSTRUCTIONS: To qualify for a Noticed General Permit (NGP) for specific activities, the project must strictly comply with all of the terms, conditions, requirements, limitations and restrictions applicable to the desired NGP. A summary of the types of NGP's available is contained in Attachment 2. Carefully review the rule section of the NGP for which you are applying to ensure that your project meets the requirements of that NGP. Please complete Section A and submit it along with the information required in this Section (on 8 1/2" x 11" paper).

1. Indicate the project boundaries on a USGS quad map, reduced or enlarged as necessary to legibly show the entire project. If not apparent from the quad map, provide a location map (in sufficient detail to allow a person unfamiliar with the site to find it), containing a north arrow and a graphic scale and showing the boundary of the proposed activity and Section(s), Township(s), and Range(s).

See Attachment B - Site Location Information, Figure 1 – Location Map and Figure 5 – USGS

2. A legible site plan showing the following features:

- a) property boundaries and dimensions
- b) name and location of any adjoining public streets or roads
- c) location and dimensions of all existing structures
- d) label all impervious and pervious area and indicate their size (area)
- e) the direction of drainage relative to the proposed improvements (using arrows)
- f) locations of all proposed works
- g) permanent and temporary erosion, sedimentation and turbidity controls
- h) boundaries of wetlands and other surface waters, identifying open water areas
- i) boundary area and volume of all temporary and permanent earthwork, including pre and post construction grades

See Attachment C, Wetland Survey and Attachment D, Construction Plans

3. Description of wetland or aquatic habitat .

The Project involves addition of mid-span transmission structures between existing structures within the previously-cleared 7-17PEF-Curry Ford right-of-way (ROW) from the Stanton Substation #17 to Curry Ford Substation. Wetland habitats within the ROW are dominated by infrequently inundated wet prairie systems, with additional areas of freshwater marsh and ditches. See Table 1, Project Impact Summary, for details of wetland acreage, acreage to remain undisturbed, acreage of temporary matting, and acreage of fill within each wetland. A total of 4.6 acres of temporary construction matting will be used to avoid wetland impacts; wetland fill will be limited to 0.014 acres associated with mid-span structure installation. Wetland boundaries are identified in Attachment C. ACOE wetland datasheets, jurisdictional determination forms, and Uniform Mitigation Assessment Method wetland functional assessment forms are provided in Attachment E.

Additional Environmental Conditions

Landuse/landcover classification within the ROW utilizing the Florida Land Use, Cover and Forms Classification System (FLUCFCS) is provided in Attachment B – Site Location Information, Figure 2. Soil series are illustrated in Attachment B – Site Location Information, Figure 3. The 100 year floodplain is shown in Attachment B – Site Location Information, Figure 4. Listed species observed within the ROW during field surveys and identified within the vicinity according to the Florida Natural Areas Inventory are identified in Attachment B – Site Location Information, Figure 6. A total of 4 gopher tortoise burrows were identified within the ROW in the vicinity of existing Structure #52. No construction activity is proposed within 400 feet of these burrows; the Project will comply with the Florida Fish and Wildlife Conservation Commission (FWC) requirements to maintain a minimum setback of 25 feet around all gopher tortoise burrows to avoid any impacts.

4. Construction methods and schedule.

The Project involves installation of mid-span structures between existing transmission line structures. The mid-span structures will be monopole design with a diameter of 34.5 feet. Utilization of the monopole design minimizes wetland impacts through avoidance of transmission structure pads. Further efforts to reduce wetland impacts include elimination of new access road construction associated with the Project. In lieu of access roads, temporary construction matting is proposed to allow for access to install transmission poles without incurring wetland fill. See Attachment D, Construction Plans.

Construction is scheduled to begin in September 2010 and be completed by December 2010. The initial work will involve the installation of silt fence along the perimeter of temporary construction matting areas, as shown on the enclosed drawings (Attachment D). Next the temporary construction matting will be installed. Once the matting is in place, the foundation contractor will mobilize and auger a hole to set the foundation section of the pole. A drill rig, tanker, crane, flatbed trucks, concrete pumpers and trucks, and a backhoe will be used during this phase of construction. All drilling fluids will be collected and reused or properly disposed offsite. No drilling fluid will be allowed to enter wetlands. Any excess material resulting from drilling the foundation will be removed from the wetland area and taken back to the construction staging area for proper disposal.

After the foundations are installed, the overhead crew will begin installing the rest of the steel poles (the above ground sections). They will be using cranes, flatbed trucks, bucket trucks and tractor trailers with wire stringing rigs for construction. Once the above ground sections are installed, the insulators will be attached and the crews will begin stringing the conductor on the new poles. Once the line is installed, the temporary construction matting will be removed from the right-of-way.

5. Additional information that would show that you qualify for the general permit, addressing all the parameters, thresholds and conditions required in the general permit. Errors and omissions will be identified within 30 days by the processing agency.

The Project qualifies for the Noticed General Permit for the Construction and Maintenance of Electric Powerlines by Electric Utilities (Section 62-341.620, F.A.C.), and ACOE Nationwide Permit #12, Utility Line Activities. The Project will require only 0.014 acres of wetland fill, will not require any clearing of forested wetlands, will not divert or impound any surface waters, and will not involve construction of access roads. The Project is consistent with the FDEP and ACOE permit conditions, listed below:

62-341.620 General Permit for the Construction and Maintenance of Electric Power Lines by Electric Utilities

(2) A general permit is provided for the construction of power lines and electrical support structures by electric utilities, provided the following provisions are met:

- (a) The project is not covered by a certification issued under Part II of Chapter 403, F.S.;
- (b) All permanent fill shall be at grade. Fill shall be limited to that necessary for electrical support structures, including towers, poles, and guy wires, stabilizing backfill necessary for the aforementioned structures and at-grade access roads limited to a width of 20 feet;
- (c) Access and work areas may be cleared to the ground, including removal of stumps as necessary; however, such clearing shall be limited to the following:
 - 1. A linear access area of up to 25 feet wide between electrical support structures;
 - 2. An access area of up to 25 feet wide from the edge of the power line right-of-way to electric support structures; and
 - 3. Work areas around the electrical support structures, towers, poles, and guy wires;
- (d) Vegetation in wetlands under the conductor and up to 20 feet on either side of the outermost conductor may be cut or removed by hand or by mechanized equipment to a height no lower than the soil surface. Any mechanized equipment that is used shall minimize soil compaction. Except for Brazilian pepper (*Schinus terebinthifolius*), Australian pine (*Casuarina* spp.), and punk tree (*Melaleuca quinquinerva*), clearing in the remainder of the project right-of-way within wetlands shall be limited to selective clearing of vegetation which has an expected mature height of 14 feet or more.

During construction and while conducting normal maintenance activities, the permittee shall eradicate all Brazilian pepper, Australian pine, and *Melaleuca* from the wetland portion of the right-of-way. During the initial clearing event, and during subsequent maintenance cycles, EPA approved herbicides may be used on the following:

1. Vegetation growing within the area that was formerly cleared to the ground;
2. Vegetation with an expected mature height of over 14 feet growing within the remainder of the right-of-way; and
3. Any specimen of exotic vegetation within the right-of-way;

(e) Not more than 15 acres of forested wetlands may be cleared to the ground within each ten mile section of the project, whether or not filling activities occur within the wetlands. In sections where filling activities, as defined in subsections 62-341.020(5) and (8), F.A.C., occur, not more than 4 acres of forested wetland may be cleared to the ground within each 10 mile section of the project, with no more than one impact site exceeding 0.5 acres per ten mile section. The one impact site which may exceed 0.5 acres shall not exceed 2.0 acres. Areas that are dominated (90 percent or greater aerial coverage) by exotic species shall not be included in the acreage calculation of clearing to ground of forested wetlands. The ten mile sections shall be measured from the beginning of the project to the terminus of the project, or vice versa, and the sections shall not end in a wetland. In cases where the section does end in a wetland, the Department shall designate the closest landward edge of the wetland as the section terminus;

(f) Erosion and turbidity control methods shall be implemented as necessary to ensure that state water quality standards for turbidity are met. The applicant shall submit to the Department, along with the notice of intent to use this general permit, a narrative that documents the applicant will use erosion and turbidity control methods that are consistent with generally accepted industry practice;

(g) Diversion and impoundment of surface waters shall be limited to incidental diversion during construction, and diversion which occurs around support structures, towers, guy wires, and poles;

(h) The proposed construction and clearing shall be conducted in a manner that does not adversely affect threatened or endangered species. The applicant shall submit to the Department, along with the notice of intent to use this general permit, a narrative summary of surveys that have been performed on the existence and potential existence of threatened and endangered species within and adjacent to the project, and the expected effects on these species; and

(i) The proposed construction and clearing shall not result in a permanent change to existing ground surface elevation.

(3) The clearing of vegetation in wetlands to construct new power lines that do not require the placement of structures in wetlands or other dredge or fill activities in wetlands or other surface waters, does not require an individual or general permit.

(4) This general permit shall not apply to any portion of a project located in forested wetlands located within 550 feet from the mean or ordinary high water line of a wetland or other surface water designated as an Outstanding Florida Water or Outstanding National Resource Water.

US Army Corps of Engineers Nationwide Permit # 12, Utility Line Activities

Activities required for the construction, maintenance and repair of utility lines and associated facilities in waters of the US as follows:

(i) Utility lines: The construction, maintenance, or repair of utility lines, including outfall and intake structures and the associated excavation, backfill, or bedding for the utility lines, in all waters of the US, provided there is no change in preconstruction contours. A "utility line" is defined as any pipe or pipeline for the transportation of any gaseous, liquid, liquescent, or slurry substance, for any purpose, and any cable, line, or wire for the transmission for any purpose of electrical energy, telephone, and telegraph messages, and radio and television communication (see Note 1, below). Material resulting from trench excavation may be temporarily sidcast (up to three months) into waters of the US, provided that the material is not placed in such a manner that it is dispersed by currents or

other forces. The District Engineer may extend the period of temporary side casting not to exceed a total of 180 days, where appropriate. In wetlands, the top 6" to 12" of the trench should normally be backfilled with topsoil from the trench. Furthermore, the trench cannot be constructed in such a manner as to drain waters of the US (e.g., backfilling with extensive gravel layers, creating a French drain effect). For example, utility line trenches can be backfilled with clay blocks to ensure that the trench does not drain the waters of the US through which the utility line is installed. Any exposed slopes and stream banks must be stabilized immediately upon completion of the utility line crossing of each waterbody.

(ii) Utility line substations: The construction, maintenance, or expansion of a substation facility associated with a power line or utility line in non-tidal waters of the US, excluding non-tidal wetlands adjacent to tidal waters, provided the activity does not result in the loss of greater than 1/2-acre of non-tidal waters of the US.

(iii) Foundations for overhead utility line towers, poles, and anchors: The construction or maintenance of foundations for overhead utility line towers, poles, and anchors in all waters of the US, provided the foundations are the minimum size necessary and separate footings for each tower leg (rather than a larger single pad) are used where feasible.

(iv) Access roads: The construction of access roads for the construction and maintenance of utility lines, including overhead power lines and utility line substations, in non-tidal waters of the US, excluding non-tidal wetlands adjacent to tidal waters, provided the discharges do not cause the loss of greater than 1/2-acre of non-tidal waters of the US. Access roads shall be the minimum width necessary (see Note 2, below). Access roads must be constructed so that the length of the road minimizes the adverse effects on waters of the US and as near as possible to preconstruction contours and elevations (e.g. at grade corduroy roads or geotextile/gravel roads). Access roads constructed above preconstruction contours and elevations in waters of the US must be properly bridged or culverted to maintain surface flows.

The term "utility line" does not include activities which drain a water of the US, such as drainage tile, or French drains; however, it does apply to pipes conveying drainage from another area.

For the purposes of this NWP, the loss of waters of the US includes the filled area plus waters of the US that are adversely affected by flooding, excavation, or drainage as a result of the project. Activities authorized by paragraph (i) through (iv) may not exceed a total of 1/2-acre loss of waters of the US. Waters of the US temporarily affected by filling, flooding, excavation, or drainage, where the project area is restored to preconstruction contours and elevation, is not included in the calculation of permanent loss of waters of the US. This includes temporary construction mats (e.g., timber, steel, geotextile) used during construction and removed upon completion of the work. Where certain functions and values of waters of the US are permanently adversely affected, such as the conversion of a forested wetland to a herbaceous wetland in the permanently maintained utility line right-of-way, mitigation will be required to reduce the adverse effects of the project to the minimal level.

Mechanized land clearing necessary for the construction, maintenance, or repair of utility lines and the construction, maintenance and expansion of utility line substations, foundations for overhead utility lines, and access roads is authorized, provided the cleared area is kept to the minimum necessary and preconstruction contours are maintained as near as possible. The area of waters of the US that is filled, excavated, or flooded must be limited to the minimum necessary to construct the utility line, substations, foundations, and access roads. Excess material must be removed to upland areas immediately upon completion of construction. This NWP may authorize utility lines in or affecting navigable waters of the US even if there is no associated discharge of dredged or fill material (See 33 CFR part 322).

6. Provide the rule section number of the NGP for which you are applying.

Section 62-341.620, F.A.C.

7. The construction plans and supporting calculations must be signed, sealed, and dated by an appropriate registered professional as required by the relevant statutory provisions when the design of the system requires the services of an appropriate registered professional

See Attachment D, Construction Plans

TABLE 1
Project Impact Summary

WL & SW ID	WL & SW TYPE (FLUCFCS)	WL & SW SIZE (ac.) ON SITE	WL & SW ACRES NOT IMPACTED	TEMPORARY IMPACTS TO WL & SW		MITIGATION ID
				IMPACT SIZE (acres)	IMPACT CODE	
A	643	0.41	0.17	0.24	Matting	N/A
B	534	1.38	1.26	0.12	Matting	N/A
C	641	2.23	1.99	0.24	Matting	N/A
D	511	0.06	0.055	0.005	Matting	N/A
E	643	0.84	0.67	0.17	Matting	N/A
F	641	5.80	5.057	0.743	Matting	N/A
G	643	5.06	4.4	0.66	Matting	N/A
H	641	2.78	2.34	0.44	Matting	N/A
I	511	0.12	0.095	0.025	Matting	N/A
J	643	0.09	0.09	0	-	-
K	641	0.98	0.91	0.07	Matting	N/A
L	641	2.63	2.38	0.25	Matting	N/A
M	511	0.33	0.33	0	-	-
N	643	1.04	0.84	0.2	Matting	N/A
O	643	5.59	4.86	0.73	Matting	N/A
P	643	0.10	0.05	0.05	Matting	N/A
Q	643	2.20	1.988	0.212	Matting	N/A
R	511	0.08	0.08	0	-	-
S	511	0.36	0.36	0	-	-
T	641	0.36	0.22	0.14	Matting	N/A
U	643	0.53	0.5	0.03	Matting	N/A
V	643	0.26	0.26	0	-	-
W	643	0.31	0.31	0	-	-
X	511	0.03	0	0.03	Matting	N/A
Y	511	0.04	0.04	0	-	-
Z	511	0.01	0.01	0	-	-
AA	643	0.87	0.587	0.283	Matting	N/A
AB	534	0.74	0.74	0	-	-
AC	643	0.04	0.033	0.007	Matting	N/A
TOTAL		35.27	30.625	4.645		

WL = Wetland; SW = Surface water; ID = Identification number, letter, etc.

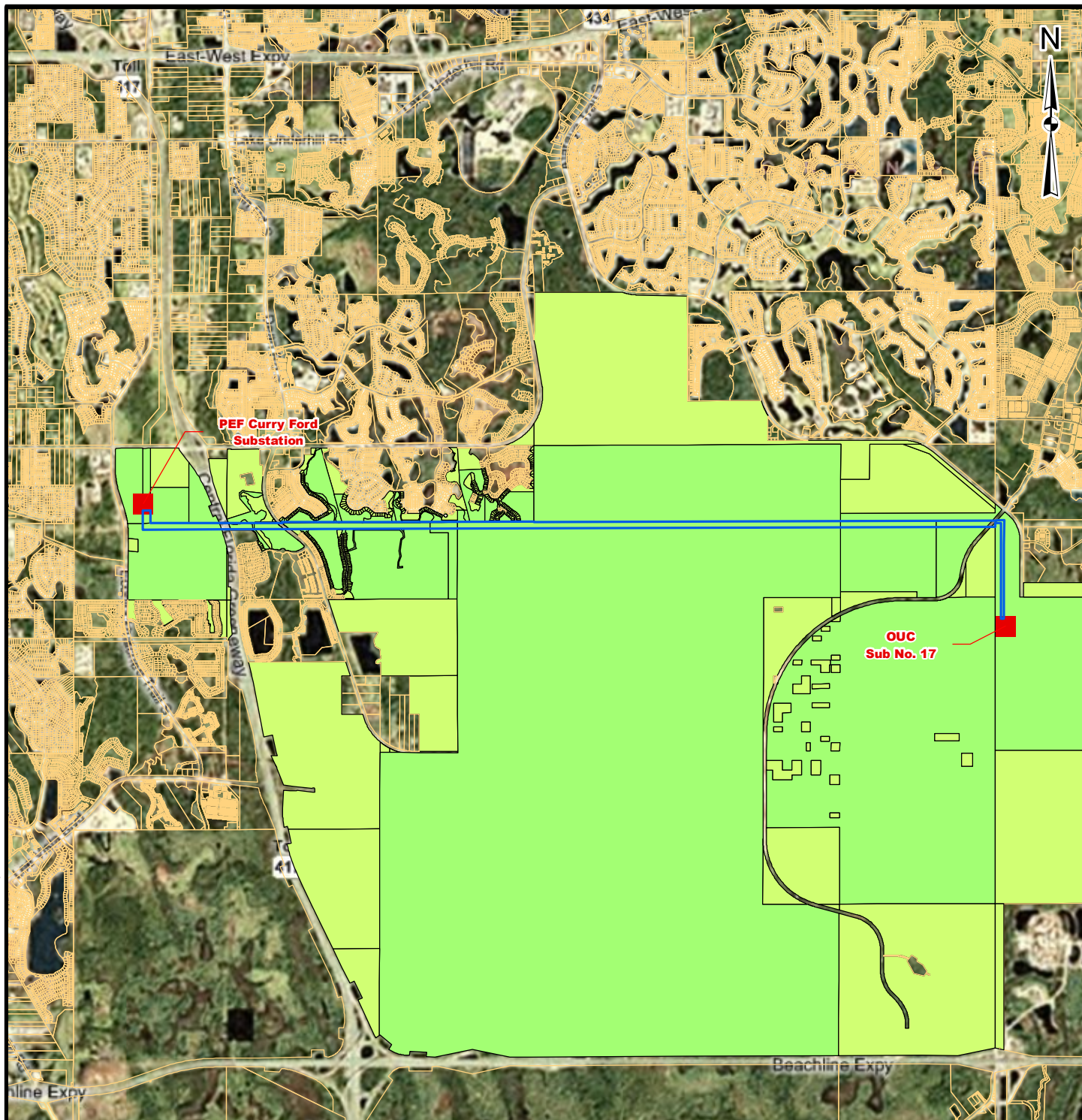
Wetland Type: Use an established wetland classification system and, in the comments section below, indicate which classification system is being used.

Impact Code (Type): D = dredge; F = fill; H = change hydrology; S = shading; C = clearing; O = other. Indicate the final impact if more than one impact type is proposed in a given area. For example, show F only for an area that will first be demucked and then backfilled.

ATTACHMENT A

ADJACENT PROPERTY OWNER INFORMATION

Map Document: 09387744_A002_ParcelMap.mxd / Modified 2/25/2010 5:10:37 PM / Plotted 2/26/2010 10:32:02 AM by rlarar



LEGEND

- Substations
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Other Parcels
- Parcels Adjacent to Project
- Parcels Containing Project

REFERENCES

1. Parcel data, Orange County Florida Property Appraiser, 2006.
2. 7-17PEF-Curry Ford Transmission Line Right-of-Way, OUC, 2010.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
PARCEL MAP						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/24/2010	REV. 0		
CHECK			KAB 2/26/2010	ATTACHMENT A		
REVIEW			KAB 2/26/2010			



OUC
7-17PEF-CURRY FORD 230kV TRANSMISSION LINE
PARCELS CONTAINING PROJECT

PIN	OWNER	STREET ADDRESS	CITY	STATE	ZIP
312309020600420	ADCOCK JOHN J	3274 BREAKERS WAY	ORLANDO	FL	32825
312309020500003	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020600001	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020600002	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020600003	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020600006	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309016800001	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312309016800003	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312309016800009	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312309016700002	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312309016700003	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312308017300001	ANDOVER LAKES PHASE 3 HOMEOWNERS ASS	2269 LEE RD	WINTER PARK	FL	32789
312308017300002	ANDOVER LAKES PHASE 3 HOMEOWNERS ASS	2269 LEE RD	WINTER PARK	FL	32789
312308017300005	ANDOVER LAKES PHASE 3 HOMEOWNERS ASS	2269 LEE RD	WINTER PARK	FL	32789
312309020600410	ARMAS JACK H & ARMAS SANDRA I	3275 BREAKERS WAY	ORLANDO	FL	32825
312308017500710	BELGHAZI SEAN H	1917 MERLOT DR	SANFORD	FL	32771
312308000000012	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
312308000000013	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
312309000000002	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
312309000000004	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
312309000000011	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
312312000000004	CITY OF ORLANDO & ORLANDO UTILITIES COMM	PO BOX 3193	ORLANDO	FL	32802
312313000000001	CITY OF ORLANDO & ORLANDO UTILITIES COMM	PO BOX 3193	ORLANDO	FL	32802
322307000000001	CITY OF ORLANDO & ORLANDO UTILITIES COMM	PO BOX 3193	ORLANDO	FL	32802
312309020600250	DINH SEN THI	13050 GRAND BANK LN	ORLANDO	FL	32825
312308205100003	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
312308205100005	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
312307000000006	FLORIDA POWER CORP	C/O TAX DEPT-CX1G PO BOX 14042	ST PETERSBURG	FL	33733
312308017400001	LAKE UNDERHILL JOINT VENTURE	1700 S BUMBY AVE	ORLANDO	FL	32806
312308017400003	LAKE UNDERHILL JOINT VENTURE	1700 S BUMBY AVE	ORLANDO	FL	32806
312308017500700	MARRERO LUIS RAUL	3204 NATOMA WAY	ORLANDO	FL	32825
312312000000005	MORGRAN CO	C/O DEFILIPP & ASSOC INC 203 LOOKOUT PL STE A	MAITLAND	FL	32751
312312000000007	MORGRAN CO	C/O DEFILIPP & ASSOC INC 203 LOOKOUT PL STE A	MAITLAND	FL	32751
312312000000008	MORGRAN CO INC	C/O DEFILIPP & ASSOC INC 203 LOOKOUT PL STE A	MAITLAND	FL	32751
312309020600240	NEISWENDER STEVEN SCOTT	13051 GRAND BANK LN	ORLANDO	FL	32825
312307000000005	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312307000000015	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312308000000010	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312308017300006	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312308017400002	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312322000000001	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312307000000003	ORLANDO CENTRAL COMMUNITY INC	350 E JACKSON ST	ORLANDO	FL	32801
312307000000009	ORLANDO/ORANGE COUNTY EXPY AUTHORITY	525 S MAGNOLIA AVE	ORLANDO	FL	32801
312308374500002	YOUNG PINE HOMEOWNERS ASSOCIATION IN	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374500003	YOUNG PINE HOMEOWNERS ASSOCIATION IN	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374500008	YOUNG PINE HOMEOWNERS ASSOCIATION IN	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374701000	YOUNG PINES APARTMENTS LLC	7602 MARBLEHEAD LN	PARKLAND	FL	33067

OUC
7-17PEF-CURRY FORD 230kV TRANSMISSION LINE
PARCELS ADJACENT TO PROJECT

PIN	OWNER	STREET ADDRESS	CITY	STATE	ZIP
31231300000003	FLORIDA MUNICIPAL POWER AGENCY	8553 COMMODITY CIR	ORLANDO	FL	32819
31231400000003	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
31231400000004	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000010	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000011	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000012	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000013	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000014	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000015	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000016	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000018	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000019	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000020	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000021	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000022	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000023	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000024	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000025	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312314000000026	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312316000000002	BCC EAST LLC	1350 E NEWPORT CENTER DR STE 206	DEERFIELD BEACH	FL	33442
312316000000013	WEBER CHARLES G	8981 LEVALLEY CT	ORLANDO	FL	32819
312316000000015	F & M MANAGEMENT LLC	5721 YOUNG PINE RD	ORLANDO	FL	32829
312308374500001	YOUNG PINE HOMEOWNERS ASSOCIATION IN	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374500004	YOUNG PINE HOMEOWNERS ASSOCIATION IN	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374500005	YOUNG PINE HOMEOWNERS ASSOCIATION IN	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374500006	YOUNG PINE HOMEOWNERS ASSOCIATION IN	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374500007	YOUNG PINE HOMEOWNERS ASSOCIATION IN	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374500009	COLONY COMMUNITIES	1330 PALMETTO AVE	WINTER PARK	FL	32789
312308374500280	ZAVALA JONATHAN	3131 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500300	GIRALDO LISIMACO A	3143 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500340	MENDEZ DORIE M	3167 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500350	KOPPERUD CLAUDIA	3209 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500390	GAFOOR TAFAZAL	1284 PEREGRINE WAY	WESTON	FL	33327
312308374500430	LOUKACH DYNA	3257 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500440	DONOV IASSEN	3263 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500480	MANOLOV PLAMEN	3313 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500510	ANGEL PAULA A	3331 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500570	ADAME OLGA	3415 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500580	CASTILLO KARINA	3421 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500610	FISCHER ARTHUR L TR	1719 DOGWOOD FOREST WAY	LAKE MARY	FL	32746
312308374500650	ERTILUS IGNACE	3463 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500670	DOMINGO BRENDA	10343 WILLOW RIDGE LOOP	ORLANDO	FL	32825
312308374500690	SANCHEZ SANTIAGO MARIA S	3507 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500700	SANCHEZ ELBA CUEVAS	821 CALLE JULIO BALOIZ URB RIO CRIST	MAYAGUEZ	PR	680
312308374500710	DAOUST WARREN	3519 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500770	PEREZ ESTHER	3663 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500780	MARTINEZ ALEXANDER	3669 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500810	ROBINSON KAREN A	3713 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500840	CRAIG MARCIA	3731 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500850	LOGES DAWN M	3737 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500860	MORSE WILLIAM E	6372 GOLDEN EYE GLN	BRADENTON	FL	34202
312308374500870	LUU THI HOANG	2608 TREYMORE DR	ORLANDO	FL	32825
312308374500890	RUIZ LUIS	3761 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500910	REYES JOSE G	2644 GREENWILLOW DR	ORLANDO	FL	32825
312308374500930	TIFFANY TRACY	3809 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500940	GOMEZ CARLOS	3815 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500960	PALACIO JAVIER A	3827 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500970	BILLER JERRY	15255 SUGARGROVE WAY	ORLANDO	FL	32828
312308374500990	BASKERVILLE TANYA	3845 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501010	PEREZ WENDY	3857 BENSON PARK BLVD	ORLANDO	FL	32829
312309016800570	GRANT LAUREN	6347 ALAMANDA HILLS DR	LAKE LAND	FL	33813
312309016800600	HARRIS GEORGE W	3326 ERSKINE DR	ORLANDO	FL	32825
312309016800630	PATTERSON RICHARD J	3351 MATTSO DR	ORLANDO	FL	32825
312307000000002	CENTER POINTE COMMUNITY CHURCH OF TH	PO BOX 780725	ORLANDO	FL	32878
312307000000010	ORLANDO/ORANGE COUNTY EXPY AUTHORITY	525 S MAGNOLIA AVE	ORLANDO	FL	32801
312308000000004	YOUNG PINES COMMERCIAL LLC	7602 MARBLEHEAD LN	PARKLAND	FL	33067
312308000000025	ORLANDO/ORANGE COUNTY EXPY AUTHORITY	525 S MAGNOLIA AVE	ORLANDO	FL	32801
312308017300060	ANDERSON BARBARA B	3031 BELLINGHAM DR	ORLANDO	FL	32825
312308017300080	FISHER ROSA	14126 ORCHID TREE PL	ORLANDO	FL	32828
312308017300090	COTTLE ELYSE S	3049 BELLINGHAM DR	ORLANDO	FL	32825
312308017300100	TORRES ELSA M	3055 BELLINGHAM DR	ORLANDO	FL	32825
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312308017300130	JONES CLAIRE W TR	3109 BELLINGHAM DR	ORLANDO	FL	32825
312308017300160	LAPCHICK JOSEPH M	3127 BELLINGHAM DR	ORLANDO	FL	32825
312308017300200	RUSSELL PATRICK B	3151 BELLINGHAM DR	ORLANDO	FL	32825
312308017300230	HA THANH	3217 BELLINGHAM DR	ORLANDO	FL	32825
312308017300240	BLACKWELL MARESEA L	9105 OAK FERN DR	ORLANDO	FL	32832
312308017300250	QUEVEDO NILDA L	3229 BELLINGHAM DR	ORLANDO	FL	32825
312308017300310	GONZALEZ EDUARDO J	3265 BELLINGHAM DR	ORLANDO	FL	32825
312308017300330	BARNHILL LUZ	3277 BELLINGHAM DR	ORLANDO	FL	32825
312308017300360	ABDELRAHIM BASEM	3295 BELLINGHAM DR	ORLANDO	FL	32825
312308017300370	TOWLES JEANNIE	3307 BELLINGHAM DR	ORLANDO	FL	32825
312308017300390	MEYER THOMAS A	6834 LOCUST ST	KANSAS CITY	MO	64131
312308017300400	PERROTT JOSHUA E	3325 BELLINGHAM DR	ORLANDO	FL	32825
312308017300460	DILLA EVELYN	3361 BELLINGHAM DR	ORLANDO	FL	32825
312308017300490	LEON KEMP	9931 HERON POINTE DR	ORLANDO	FL	32832
312308017300510	GILES ROBERT H	3427 BELLINGHAM DR	ORLANDO	FL	32825
312308017300540	TURNER SCOTT J	3455 BELLINGHAM DR	ORLANDO	FL	32825
312308017300550	CHAN KENNY K	3461 BELLINGHAM DR	ORLANDO	FL	32825
312308017300560	LA THICH	3467 BELLINGHAM DR	ORLANDO	FL	32825
312308017310001	J & J CURRY FORD LLC	119 WINDMILL RD	ORLAND PARK	IL	60467

OUC
7-17PEF-CURRY FORD 230kV TRANSMISSION LINE
PARCELS ADJACENT TO PROJECT

PIN	OWNER	STREET ADDRESS	CITY	STATE	ZIP
312308017400010	COUNTS HILARY G	10675 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400020	NIEVES IRMA	10669 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400050	HALL MICHELLE	10651 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400100	HARMON LINDA C	10621 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400110	NGUYEN SIMON	588 PARVIN DR	MILPITAS	CA	95035
312308017400160	PALLAIS NANCY	10567 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400190	CERVANTES KENT W	10549 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400200	ZERICK ALEX T	10543 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400220	CHAN CHI HUNG	10531 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400250	JONES LESENA	10513 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400260	BLYTHE MATTHEW V	10507 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400270	CARMAX AUTO SUPERSTORES INC	12800 TUCKAHOE CREEK PKWY	RICHMOND	VA	23238
312308017500730	SINGH HAMERAJ M	3222 NATOMA WAY	ORLANDO	FL	32825
312308017500740	URENA LUIS H	3228 NATOMA WAY	ORLANDO	FL	32825
312308017500750	RONDA GENARA	3234 NATOMA WAY	ORLANDO	FL	32825
312308017500760	AVILES YOLANDA	3240 NATOMA WAY	ORLANDO	FL	32825
312308017500770	MOUCHRIK FADI E	3246 NATOMA WAY	ORLANDO	FL	32825
312308017500800	BARNHILL LUZ M	3264 NATOMA WAY	ORLANDO	FL	32825
312308205100006	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
312308205100460	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
312308205100470	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
312308205100480	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
312308205100490	EH/TRANSEASTERN LLC	3300 N UNIVERSITY DR	CORAL SPRINGS	FL	33065
312308205100500	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
312308374501020	PATINO JOHN	3863 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501040	TOBAR MARIBEL	3913 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501050	NORENA ALBERTO	3919 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501080	NANCE ANETTE K	4886 FELS COVE AVE	KISSIMMEE	FL	34744
312308374501090	CEPEDA LIBNI	3943 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501120	MORSE WILLIAM E	6372 GOLDEN EYE GLN	BRADENTON	FL	34202
312308374501140	NEVIASER KRISTINE MARIE	3954 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501160	RODRIGUEZ ISMENIA TAMAYO	3942 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501180	THOMAS KENDRICK N	6029 IBBETSON AVE	LAKEWOOD	CA	90713
312308374501220	FISCHER ARTHUR L TR	1719 DOGWOOD FOREST WAY	LAKE MARY	FL	32746
312308374501240	FISCHER ARTHUR L TR	1719 DOGWOOD FOREST WAY	LAKE MARY	FL	32746
312308374501280	WALLACE PATRICIA	1350 ORANGE AVE STE 230	WINTER PARK	FL	32789
312308374501300	ANTONOS LUDMILS JR	2800 MONTICELLO PL APT 102	ORLANDO	FL	32835
312308374501320	WALLACE EDWARD	3802 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501340	WALLACE PATRICIA	2587 PORTVIEW WAY	ORLANDO	FL	32812
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312308374501390	GARCIA MARIA HERLINDA	2318 MIRAGE PL	FORT MILL	SC	29708
312308374501430	SIPPLE JASON P	3718 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501440	FISCHER ARTHUR L TR	1719 DOGWOOD FOREST WAY	LAKE MARY	FL	32746
312308374501470	VAN MACY THU	7600 SUN VISTA WAY	ORLANDO	FL	32822
312308374700001	YOUNG PINES APARTMENTS LLC	7602 MARBLEHEAD LN	PARKLAND	FL	33067
312309016700020	GORE JUDITH A	9213 SAMOSET RD	RANDALLSTOWN	MD	21133
312309016700060	HORNE SAMUEL	11014 FELTON CT	ORLANDO	FL	32825
312309016700070	KRELL JAMES W	11008 FELTON CT	ORLANDO	FL	32825
312309016700080	GREENE THEODORE F III	11002 FELTON CT	ORLANDO	FL	32825
312309016700110	CARRION MARIA E	11015 FELTON CT	ORLANDO	FL	32825
312309016700130	FORD MELISSA J	3124 ERSKINE DR	ORLANDO	FL	32825
312309016700150	PHAM QUYNH-CHI	3112 ERSKINE DR	ORLANDO	FL	32825
312309016700160	RODRIGUEZ ELIETE	3106 ERSKINE DR	ORLANDO	FL	32825
312309020000360	DROZD DANIELLE	4023 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020000370	GUMUS ILKER	4029 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020000410	BOLANO GILBERT	4053 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020000460	SWIAK EWA	4103 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020200120	CORDERO WIGFREDO	13173 HEMING WAY	ORLANDO	FL	32825
312309020200130	FOUCHE RENEE	13179 HEMING WAY	ORLANDO	FL	32825
312309020300130	APONTE ORLANDO	3706 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020300300	RANGEL MARIA NATIVIDAD	3851 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020500340	ISKANDRANI ALAA	3961 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020500350	RADI AMINE	3967 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020500380	SOSA DUNIA I	PO BOX 570251	ORLANDO	FL	32857
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312309020500550	LEIGHTON DOUGLAS A	12345 CAPE SOUND CV	ORLANDO	FL	32825
312309020500570	DIETZ SHARON M	10119 GARDEN ROSE CT	ORLANDO	FL	32825
312309020500600	RIVERA JOSE	12419 CAPE SOUND CV	ORLANDO	FL	32825
312309020500640	MELLENDEZ IDALEE	4011 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020600010	PRESTOPIE CLAUDIA	3907 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020600030	CHUNG JOHN	3919 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020600080	MURRAY BRYON S	3949 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020600100	MCCLASKY JASON	12833 GRAND BANK LN	ORLANDO	FL	32825
312309020600130	ANDRADE JOSE V	12913 GRAND BANK LN	ORLANDO	FL	32825
312309020600140	MANOLOV IVALO I	2018 WARNER DR	CHULUOTA	FL	32766
312309020600150	ROCHE GLORIA E	12925 GRAND BANK LN	ORLANDO	FL	32825
312309020600160	KNIGHT JAYSON S	12931 GRAND BANK LN	ORLANDO	FL	32825
312309020600180	FISCHER ARTHUR L TR	1719 DOGWOOD FOREST WAY	LAKE MARY	FL	32746
312309020600260	ROLDAN MARITZA	13044 GRAND BANK LN	ORLANDO	FL	32825
312309020600300	FRIX RICHARD F	12930 GRAND BANK LN	ORLANDO	FL	32825
312309020600320	KING MICHAEL SHEA	12918 GRAND BANK LN	ORLANDO	FL	32825
312309020600340	GONZALEZ JENNIFER	3215 BREAKERS WAY	ORLANDO	FL	32825
312309020600350	JOSEPH LENNARD	54 SUNSET AVE	WHEATLEY HEIGHTS	NY	11798
312309020600370	RODRIGUEZ NANCY ANN	3233 BREAKERS WAY	ORLANDO	FL	32825
312309020600380	SCHULTZ SCOTT	3239 BREAKERS WAY	ORLANDO	FL	32825
312309020600430	MCKAY TERRI M	3268 BREAKERS WAY	ORLANDO	FL	32825
312309020600450	WHITE EYDIE Y	3256 BREAKERS WAY	ORLANDO	FL	32825
312309020600480	WHITE BRANDON T	3238 BREAKERS WAY	ORLANDO	FL	32825
312309020600490	VOGEL TONY S TR	3232 BREAKERS WAY	ORLANDO	FL	32825
312317000000012	BELTWAY COMMERCE CENTER CD93 LTD	1350 E NEWPORT CENTER DR STE 206	DEERFIELD BEACH	FL	33442

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7-17PEF-CURRY FORD 230kV TRANSMISSION LINE
PARCELS ADJACENT TO PROJECT

PIN	OWNER	STREET ADDRESS	CITY	STATE	ZIP
312320000000005	BRUNETTI JOHN J TR	1655 ROUTE 9	OLD BRIDGE	NJ	8857
312323000000001	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312323000000006	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312323000000008	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312323000000014	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312323000000032	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312323000000034	CITY OF ORLANDO	400 S ORANGE AVE	ORLANDO	FL	32801
312324000000002	FLORIDA MUNICIPAL POWER AGENCY	8553 COMMODITY CIR	ORLANDO	FL	32819
312325000000001	INTERNATIONAL CORPORATE PARK LLC	15065 MCGREGOR BLVD STE 108	FORT MYERS	FL	33908
312329000000002	ORLANDO/ORANGE COUNTY EXPY AUTHORITY	525 S MAGNOLIA AVE	ORLANDO	FL	32801
312308374501230	ABALO FRANK K & ABALO CLAUDIA	3862 BENSON PARK BLVD	ORLANDO	FL	32829
312308017300220	AGCANAS JOSE A & AGCANAS ERLINDA L	3211 BELLINGHAM DR	ORLANDO	FL	32825
312308017300340	AHAD ABDUL KASS ABDUL & AHAD ZUHIR KASS ABDUL	3283 BELLINGHAM DR	ORLANDO	FL	32825
312309020000430	PATEL HIRAN & AHMAD ZAHIDA M	13225 PHOENIX DR	ORLANDO	FL	32828
312309020600050	LENT JONATHAN D & AMIGO ANDREA G	3931 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308017300260	ANDREWS CONNIE K & ANDREWS ROXANNA	3235 BELLINGHAM DR	ORLANDO	FL	32825
312309020600460	ANGELO ANTHONY & ANGELO REBECCA	3250 BREAKERS WAY	ORLANDO	FL	32825
3123080175000810	ANTHONY FLOYD F & ANTHONY ANNE E	3270 NATOMA WAY	ORLANDO	FL	32825
312308374500410	ARCE BERNARDO & ARCE ALIDA	3245 BENSON PARK BLVD	ORLANDO	FL	32829
312309020500510	RATNESAR RABI & ARNOLD SUSAN	12321 CAPE SOUND CV	ORLANDO	FL	32825
312308374500380	ARQUEROS ENRIQUE & ARQUEROS DELIA	PO BOX 570462	ORLANDO	FL	32857
312309020000380	ARTEAGA GOMAR E & ARTEAGA LEONARDO	4035 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020000440	SEPUVEDA JUAN & ASCENCIO LORENA M	4071 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308017300070	AVILA JESUS & AVILA WANDA L	3037 BELLINGHAM DR	ORLANDO	FL	32825
312309020600070	BAEZ PASCUAL & BAEZ SARA	3943 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020200110	BALIRAM-SINGH RAJ & BALIRAM-SINGH MALTIN B	13167 HEMING WAY	ORLANDO	FL	32825
312309020200140	BARRY JASON & BARRY TESS	13185 HEMING WAY	ORLANDO	FL	32825
312308374500520	BIHIN LIONEL & BIHIN MARIE	3 PLACE DE L ABATIALE	MOUZON	<Null>	8210
312308017400060	BILLS DAVID M & BILLS ANGELA M	10645 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017500790	BORT ALAN & BORT EDITH	3258 NATOMA WAY	ORLANDO	FL	32825
312309020500650	BOYKIN RUFUS III & BOYKIN LAKEISA T	4017 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308374501450	BRACERO SAMUEL & BRACERO NELLY J	3706 BENSON PARK BLVD	ORLANDO	FL	32829
312308017300500	BRASWELL GEORGE W & BRASWELL MANUELA I	3421 BELLINGHAM DR	ORLANDO	FL	32825
312309020200180	BRETZ ROBERT L & BRETZ YVONNE S	3017 TORTUGA CT	ORLANDO	FL	32825
312309020600360	FAIRCLOTH MATHEW C & BRIGOLE LUCITA A	3227 BREAKERS WAY	ORLANDO	FL	32825
312309016700040	BROWN SCOTT A & BROWN TERESA A	3168 ERSKINE DR	ORLANDO	FL	32825
312309020600390	GALLEGOS SILVIA X & CABEZAS BYRON W	3257 BREAKERS WAY	ORLANDO	FL	32825
312309020000470	DONOSO JORGE I & CAUL ROXANA C	4109 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308374500980	CHAPARRO CARLOS A & CHAPARRO BRENDA LEE	3839 BENSON PARK BLVD	ORLANDO	FL	32829
312308017300150	CHATTERJEE MAINAK & CHATTERJEE PAYEL	3121 BELLINGHAM DR	ORLANDO	FL	32825
312309020600020	CHERUKUMILLI GANDHI & CHERUKUMILI DURGA G	3913 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309016800610	ROMAN LISETTE & CHEVEREZ ANGEL	3332 ERSKINE DR	ORLANDO	FL	32825
312308374500600	CHIZ MILTON & CHIZ ROXANNE	3433 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501410	CHIZ MILTON & CHIZ ROXANNE	16247 NW 21ST ST	PEMBROKE PINES	FL	33028
312308374500320	OTERO JOSE & CINTRON EVA	3155 BENSON PARK BLVD	ORLANDO	FL	32829
312309020600230	COLON MUNOZ JUAN & COLON GLADYS C	13045 GRAND BANK LN	ORLANDO	FL	32825
312308374500790	CORDERO ARNEE & CORDERO ESTEBANA	3675 BENSON PARK BLVD	ORLANDO	FL	32829
312309020600040	CORREA ALBERTO JR & CORREA CARMEN E	3925 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020600470	CRAIG DANIEL & CRAIG NICOLE HERNANDEZ	3244 BREAKERS WAY	ORLANDO	FL	32825
312309016800540	DAWKINS DERRICK J & DAWKINS DEANNE H	3254 ERSKINE DR	ORLANDO	FL	32825
312309020200150	DELANCEY SANDRA L & DELANCEY JAMES G	13191 HEMING WAY	ORLANDO	FL	32825
312309020500500	DEWEY JASON SCOTT & DEWEY KARIN MARIE	12315 CAPE SOUND CV	ORLANDO	FL	32825
312309020500430	DI BENEDETTO MARCO & DI BENEDETTO MARIA C	3231 KINGSTOWN CT	ORLANDO	FL	32825
312309016800680	GONZALEZ JULIO & DIAZ HEIDY	3374 ERSKINE DR	ORLANDO	FL	32825
312309020000390	DIAZ ANA G & DIAZ INGRID R	4041 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308017400030	DOWNEY DONALD P & DOWNEY MARIE E	10663 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400170	DUNN THEODORE O & DUNN CHARLOTTE A	806 NW 22ND ST	GAINESVILLE	FL	32603
312308374501100	DUPUY LOURDES L & DUPUY LOURDES M	3949 BENSON PARK BLVD	ORLANDO	FL	32829
312309020600060	DY RODOLFO Q & DY ROSALIA F	3937 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020500590	RICHARDSON LYLE DEAN & ENSIGN ALBA L	12413 CAPE SOUND CV	ORLANDO	FL	32825
312308017300570	MACK KIM D & EVANS JOHN J	3473 BELLINGHAM DR	ORLANDO	FL	32825
312308017500780	FARRELL JOSEPH P & FARRELL SHANNON M	3252 NATOMA WAY	ORLANDO	FL	32825
312309020600220	FLORES DAVID A & FLORES RUTH E	13039 GRAND BANK LN	ORLANDO	FL	32825
312308016601530	FOUNTAIN DONNIE C & FOUNTAIN ANN PUCHES	10701 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017400130	FOURAKER JEFFREY & FOURAKER JANICE L	10603 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017300050	GARRETT CLIFF B JR & GARRETT ANGELA S	3025 BELLINGHAM DR	ORLANDO	FL	32825
312309016800640	GERENA RICHARD & GERENA JUDY L	3350 ERSKINE DR	ORLANDO	FL	32825
312308374501490	GIRALDO PHANOR & GIRALDO NANCY	5570 SANIBEL ST	ORLANDO	FL	32807
312308374501310	GIRALDO CONSUELO B & GIRALDO PHANOR	3808 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500450	GOLDBLATT MICHAEL & GOLDBLATT JILL	3269 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501250	GOLDBLATT JILL & GOLDBLATT MARK	11433 NW 49TH DR	CORAL SPRINGS	FL	33076
312308017300380	GOLDSTEIN DANIEL E & GOLDSTEIN KEIKO	3313 BELLINGHAM DR	ORLANDO	FL	32825
312308374501210	GONZALEZ WILSON & GONZALEZ CLAUDIA	3912 BENSON PARK BLVD	ORLANDO	FL	32829
312309020600440	GONZALEZ NEPTUIN & GONZALEZ GLORIA	3262 BREAKERS WAY	ORLANDO	FL	32825
312309020300120	GONZALEZ NEPTUIN & GONZALEZ GLORIA E	3262 BREAKERS WAY	ORLANDO	FL	32825
312308374501290	GONZALEZ GUSTAVO A & GONZALEZ LILIANA P	2821 CRIBBLE CT	ORLANDO	FL	32825
312308017400210	GRAY PETER & GRAY MARY KAY	10537 FAIRHAVEN WAY	ORLANDO	FL	32825
312308374501110	GRODECKY PETER & GRODECKY TAMARA L	1872 REDWOOD GROVE TER	LAKE MARY	FL	32746
312309016800650	GRULLON LUIS & GRULLON LAURA V	3356 ERSKINE DR	ORLANDO	FL	32825
312309020200100	HADAR HAGAI & HADAR ANAT	13161 HEMING WAY	ORLANDO	FL	32825
312308017400090	HAWTHORNE ERIC & HAWTHORNE FELICIA	10627 FAIRHAVEN WAY	ORLANDO	FL	32825
312309020600280	HELLWAGNER MANFRED K & HELLWAGNER EDITH E	13014 GRAND BANK LN	ORLANDO	FL	32825
312309020600290	HENDRICKS DAVID B & HENDRICKS CHANHPENG	13008 GRAND BANK LN	ORLANDO	FL	32825
312309020100200	HILL KEVIN & HILL JANE	4440 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308017300580	HILL ROBERT K & HILL MERCEDES C	3479 BELLINGHAM DR	ORLANDO	FL	32825
312308017300280	HOGAN MICHAEL E & HOGAN BETH S	3247 BELLINGHAM DR	ORLANDO	FL	32825
312309020000420	HOJNACKI MARY ANNE & HOJNACKI FRANCIS EDWARD	4059 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020200080	HOSEIN ABDOL & HOSEIN AMRITA	13149 HEMING WAY	ORLANDO	FL	32825
312309020600110	HSU SIDNEY H & HSU SUZANNA	5960 CASTLEBROOK DR	CASTRO VALLEY	CA	94552
312308374500590	HURTADO OLGA & HURTADO FERNANDO	3427 BENSON PARK BLVD	ORLANDO	FL	32829
312308017400040	JACKSON DAVID C & JACKSON MARION S	10657 FAIRHAVEN WAY	ORLANDO	FL	32825

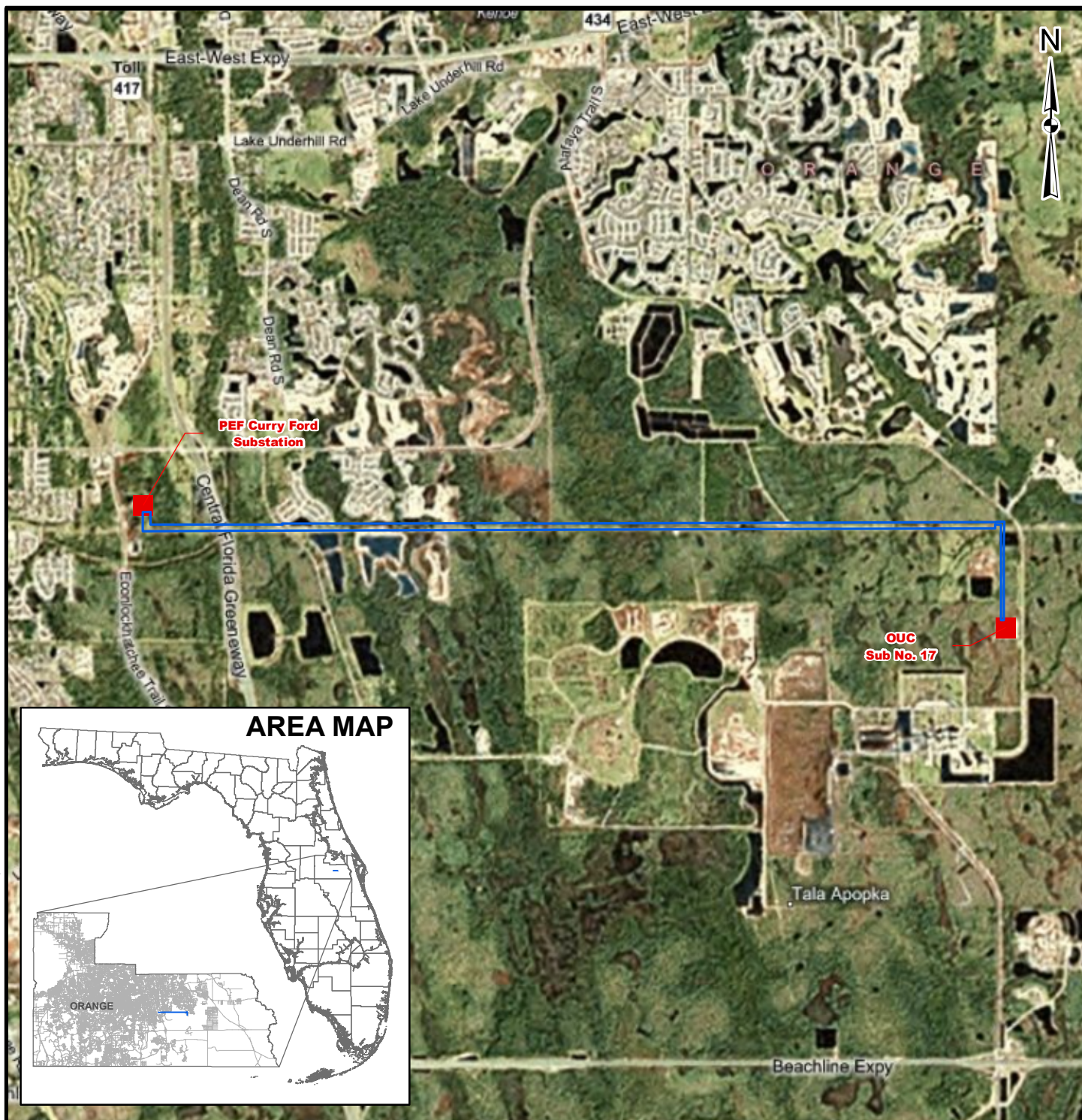
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7-17PEF-CURRY FORD 230kV TRANSMISSION LINE
PARCELS ADJACENT TO PROJECT

PIN	OWNER	STREET ADDRESS	CITY	STATE	ZIP
312308017300180	TRUHLAR MELISSA E & JAKOBSON CHRISTOPHER M	3139 BELLINGHAM DR	ORLANDO	FL	32825
312309016700030	JENKOT LEROY M & JENKOT DONNA M	3174 ERSKINE DR	ORLANDO	FL	32825
312308374500640	JOVA BENINGO E & JOVA LOURDES C	3457 BENSON PARK BLVD	ORLANDO	FL	32829
312308017400280	KARAKUNNEL WILSON & KARAKUNNEL THOMAS J	10500 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017300430	ELASSAR HAZEM & KAZZOUN EMAN	1526 AMARYLLIS CIR	ORLANDO	FL	32825
312309020600210	KHATIBI MASON & KHATIBI ALINA	13033 GRAND BANK LN	ORLANDO	FL	32825
312309016800550	KOLLSTROM KARINA & KOLLSTROM ALEXANDER	3260 ERSKINE DR	ORLANDO	FL	32825
312309020500400	KREKEL KIM ASHLEY TR & KREKEL WANDA ANDREA TR	PO BOX 5747	NEW YORK	NY	10163
312308017300190	CALCUTT JOAN I & LAMBERT KRISTI	3145 BELLINGHAM DR	ORLANDO	FL	32825
312308017300530	LARSON BRENT T & LARSON DARCY A	3449 BELLINGHAM DR	ORLANDO	FL	32825
312308374501270	LIASSO GERMAN & LIASSO AMPARO	3832 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501070	LE HUYEN THI & LE TINH V	3931 BENSON PARK BLVD	ORLANDO	FL	32829
312309020000400	LEAVITT BRADLEY S & LEAVITT DOREEN L	4047 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308017500690	LEUTERIO NESTOR & LEUTERIO IMELDA	3198 NATOMA WAY	ORLANDO	FL	32825
312308017300470	LINQUIST JEFFREY F & LINQUIST REBECCA	3367 BELLINGHAM DR	ORLANDO	FL	32825
312308017400070	LOCKARD LANCE & LOCKARD LATERALL	10639 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017300350	LOPEZ MICHAEL & LOPEZ EDNA A	3289 BELLINGHAM DR	ORLANDO	FL	32825
312308374501360	GUZMAN ANA MARIA & LOPEZ HENRY A	3760 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500680	KLIMKIEWICZ JOHN W JR & LUBRIDO CHARLES JR	3481 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500880	RAMIREZ EDGAR & MADRIZ MARIA	3755 BENSON PARK BLVD	ORLANDO	FL	32829
312308017400120	MAKARA DAVID J & MAKARA NORMA J	10609 FAIRHAVEN WAY	ORLANDO	FL	32825
312308374500750	SANTIAGO JOSE A & MALAVE MAYTEE	3645 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500500	MANOLOV IVAILO & MANOLOV PRUDENCE	2018 WARNER DR	CHULUOTA	FL	32766
312308374501420	MANOLOV IVAILO & MANOLOV PRUDENCE	2018 WARNER DR	CHULUOTA	FL	32766
312308374500470	ORTIZ JUAN GABRIEL & MARCANO HEIDI	3307 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500760	MARINI JUDITH & MARINI RICHARD G	119 WIRE RD	MERRIMACK	NH	3054
312308374500900	MARTIN SCOTT & MARTIN KYLE	1691 SHADOWMOSS CIR	LAKE MARY	FL	32746
312316000000014	MARTIN MICHAEL R & MARTIN MARY H	5729 YOUNG PINE RD	ORLANDO	FL	32829
312309020200090	MARTINS MIRO & MARTINS RICARDO F 1/2 INT	13155 HEMING WAY	ORLANDO	FL	32825
312309016800660	MASSEY SAMUEL & MASSEY SHARI G	3362 ERSKINE DR	ORLANDO	FL	32825
312308374501130	MELENDEZ EUGENIO & MELENDEZ IRMA	3960 BENSON PARK BLVD	ORLANDO	FL	32829
312308017300520	MELENDEZ CARLOS DAVID & MELENDEZ IVETTE MEJIAS	3439 BELLINGHAM DR	ORLANDO	FL	32825
312308017400080	RIVERA WANDA & MERCADO MIGDALIA	571 W 215TH ST APT D3	NEW YORK	NY	10034
312308017400180	METSALA PETER A & METSALA PATRICIA A	10555 FAIRHAVEN WAY	ORLANDO	FL	32825
312309016800590	MICUCCI JOSEPH M & MICUCCI JOSEPHINE B	3320 ERSKINE DR	ORLANDO	FL	32825
312308017300110	MILOTTE PAUL R & MILOTTE DEBORAH AMODEO	3067 BELLINGHAM DR	ORLANDO	FL	32825
312309020600500	MIRANDA CARLOS JR & MIRANDA BRENDA L	3220 BREAKERS WAY	ORLANDO	FL	32825
312309016800580	MOLINA RAMON & MOLINA MILAGROS	3314 ERSKINE DR	ORLANDO	FL	32825
312308017300320	MOLINA RICARDO & MOLINA NADDIA	3256 SCALLION CT	ORLANDO	FL	32825
312308374500310	RADOJANE KHALID & MONSSEF HOUDA	3149 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501060	CAJIGAS RAMON & MONTALVO HILDA	3925 BENSON PARK BLVD	ORLANDO	FL	32829
312308017400150	MOORE JEFFREY M & MOORE MINDY A	10573 FAIRHAVEN WAY	ORLANDO	FL	32825
312309020100190	PROCISSI RICHARD J & MORENO-PROCISSI SONIA	3588 N MERCURY DR	GOLDEN VALLEY	AZ	86413
312308017300300	MOSLER JOHN ERIK & MOSLER KIMBERLY R	3259 BELLINGHAM DR	ORLANDO	FL	32825
312308017300210	CROLLE LOUISE M & MUCCIGROSSO JOHN T	2216 MALLARD CIR	WINTER PARK	FL	32789
312309020600200	NAZARIO JEFFREY & NAZARIO NANCY E	526 DEAN CREEK LN	ORLANDO	FL	32825
312309020500520	BUI NHAN & NGUYEN HONG THI	12327 CAPE SOUND CV	ORLANDO	FL	32825
312308374500920	NGUYEN LONG THANH & NGUYEN NGOCNI	3779 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501350	NGUYEN JOHNSON & NGUYEN TUONGAN	3766 BENSON PARK BLVD	ORLANDO	FL	32829
312312000000006	CITY OF ORLANDO & ORLANDO UTILITIES COMM	PO BOX 3193	ORLANDO	FL	32802
312313000000004	CITY OF ORLANDO & ORLANDO UTILITIES COMM	PO BOX 3193	ORLANDO	FL	32802
312314000000002	CITY OF ORLANDO & ORLANDO UTILITIES COMM	PO BOX 3193	ORLANDO	FL	32802
322319000000001	CITY OF ORLANDO & ORLANDO UTILITIES COMM	PO BOX 3193	ORLANDO	FL	32802
322330000000002	CITY OF ORLANDO & ORLANDO UTILITIES COMM	PO BOX 3193	ORLANDO	FL	32802
312308374500290	OTERO ANGEL R & ORTIZ ANA M	3137 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500820	GRELLO AURA & OSARIO JORGE	3719 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500800	OSORIO ALBERTO & OSORIO GIOMAR	11 PARK AVE	SELDEN	NY	11784
312308374500830	SOSA MARIA & OSORIO GIOMAR	11 FRANCISCO AVE	CENTRAL ISLIP	NY	11722
312308017300420	VINCENT BONNIE M & OSTEN JOHN D JR	3337 BELLINGHAM DR	ORLANDO	FL	32825
312308374501200	PALACIO JAVIER A & PALACIO DANIEL	5735 WISTERIA DR	RIVERSIDE	CA	92504
312309020500540	PARCHEN WILLIAM K & PARCHEN AMY	12339 CAPE SOUND CV	ORLANDO	FL	32825
312308017400230	ACOSTA MARLON & PARODI-ACOSTA MARTA	10525 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017300170	BLANCO MAXIMO & PEREDA YEDILA	3133 BELLINGHAM DR	ORLANDO	FL	32825
312308374500660	IBERSON REVOCABLE TRUST & PIA GJERVIG GIBERSON RE	1704 GALWAY CT	WINTER SPRINGS	FL	32708
312308374500360	PITTMAN BO A & PITTMAN JESSICA N	3215 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500530	PLASENCIA ARTURO & PLASENCIA HILDA ARACELY	3343 BENSON PARK BLVD	ORLANDO	FL	32829
312309020500580	POLING RUSSELL L JR & POLING SANDRA R	12407 CAPE SOUND CV	ORLANDO	FL	32825
312309020500630	BOGGIS WILLIAM 1/2 INT & POPKO ELEANOR M 1/2 INT	4005 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308374501190	PORRAS FABIO & PORRAS LUZ	7 DOGWOOD AVE	MALVERNE	NY	11565
312309020600120	POVEDA ALVARO & POVEDA MARIA CARMEN	12907 GRAND BANK LN	ORLANDO	FL	32825
312308374501500	RONDON ADRIANA & PUCHE LUIS CARLOS	3650 BENSON PARK BLVD	ORLANDO	FL	32829
312309020200190	PUGH BERNARD B & PUGH TAMMY M	3022 TORTUGA CT	ORLANDO	FL	32825
312309020100180	HERNANDEZ-COLON EDWIN & RAMOS-JIMENEZ GERMINI I	4447 ANDOVER CAY BLVD	ORLANDO	FL	32825
312312000000002	REDDITT JOAN 30% INT & REDDITT LINDA LEE 17.5% INT	2647 BASS LAKE BLVD	ORLANDO	FL	32806
312309016700090	REYES JUAN A & REYES JUANA A	11003 FELTON CT	ORLANDO	FL	32825
312308017300270	CHRAIBI BADRE EDDINE & RHISSASSI ZHOR	3241 BELLINGHAM DR	ORLANDO	FL	32825
312308017300590	RIVERA NELLIE & RIVERA ANGEL L	3485 BELLINGHAM DR	ORLANDO	FL	32825
312308374500560	RAMOS JAVIER & RIVERA ILIANA	3409 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500630	MARTINEZ JORGE & RIVERA ILSA	3451 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501260	SANTIAGO JAVIER F & RIVERA ISMARIE	3838 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501030	RIVERA ELIJAH & RIVERA VERONICA	3907 BENSON PARK BLVD	ORLANDO	FL	32829
312309020500490	LOPEZ WILFREDO & RIVERA-LOZADA ROSA I	12309 CAPE SOUND CV	ORLANDO	FL	32825
312309020600170	MONSALVE-ADAMES ANDRES & ROBELO MARIA DORA	13009 GRAND BANK LN	ORLANDO	FL	32825
312308374501000	RODRIGUEZ FRANKIE & RODRIGUEZ ANICIA	3851 BENSON PARK BLVD	ORLANDO	FL	32829
312309016800620	RODRIGUEZ FRANCISCO & RODRIGUEZ DEBBIE	3336 ERSKINE DR	ORLANDO	FL	32825
312309020500370	DELVALLE NOEMI & RODRIGUEZ HECTOR	3979 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309016700100	RODRIGUEZ LUIS R TR & RODRIGUEZ MARIA C TR	11009 FELTON CT	ORLANDO	FL	32825
312308374500400	RODRIGUEZ RICARDO & RODRIGUEZ MIRIAM	3239 BENSON PARK BLVD	ORLANDO	FL	32829
312309020500390	RODRIGUEZ FRANCISCO A & RODRIGUEZ YESENIA M	3207 KINGSTOWN CT	ORLANDO	FL	32825
312308374500490	VAZQUEZ GILBERTO & ROMAN JESUSA	3319 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500420	PARRA NELSON & ROMERO OLGA	3251 BENSON PARK BLVD	ORLANDO	FL	32829

OUC
7-17PEF-CURRY FORD 230kV TRANSMISSION LINE
PARCELS ADJACENT TO PROJECT

PIN	OWNER	STREET ADDRESS	CITY	STATE	ZIP
312309020200170	ROQUEMORE FELICIA & ROQUEMORE DURWOOD	2348 BUCKINGHAM RUN CT	ORLANDO	FL	32828
312309020300140	SATTATUR ALEX & ROSARIO ALEXANDRA	3707 ANDOVER CAY BLVD	ORLANDO	FL	32825
312308374501370	RUBIO ORLANDO & RUBIO CONSUELO	3754 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501150	SAER VICTOR & SAER CARLA	3948 BENSON PARK BLVD	ORLANDO	FL	32829
312309020600400	SALGUEIRO ANTONIO & SALGUEIRO MARIA	3269 BREAKERS WAY	ORLANDO	FL	32825
312308374501330	SANCHEZ DIEGO & SANCHEZ LUZ A	3778 BENSON PARK BLVD	ORLANDO	FL	32829
312308374501460	SANTIAGO EVELYN & SANTIAGO ERIC	3674 BENSON PARK BLVD	ORLANDO	FL	32829
312309020500560	SAUCEDA FRANCISCO J JR & SAUCEDA SONIA	12351 CAPE SOUND CV	ORLANDO	FL	32825
312308374500950	SCHIPANI VINCENT C & SCHIPANI FRANCIA E	3821 BENSON PARK BLVD	ORLANDO	FL	32829
312308017300410	SEPULVEDA JOSE A & SEPULVEDA SANDRA	3331 BELLINGHAM DR	ORLANDO	FL	32825
312308017300450	SHUGA STEPHEN & SHUGA LEONOR	3355 BELLINGHAM DR	ORLANDO	FL	32825
312309020200070	GONZALEZ EDGARDO A & SIERRA-GONZALEZ EILEEN	13143 HEMING WAY	ORLANDO	FL	32825
312309016700140	SINGH SUNIL & SINGH MELANIE	3118 ERSKINE DR	ORLANDO	FL	32825
312309020600090	SINGH KRISHNA & SINGH SUMATIE	12827 GRAND BANK LN	ORLANDO	FL	32825
312309016800530	MCCLEAN KEVIN C & SMALL SHARLENE A	3248 ERSKINE DR	ORLANDO	FL	32825
312308017400240	MAZA ONELY & SOLA ARLENE	10519 FAIRHAVEN WAY	ORLANDO	FL	32825
312308017300140	SOTO SAMUEL & SOTO CHRISTINE A	3115 BELLINGHAM DR	ORLANDO	FL	32825
312308374500550	SPRAU WILLIAM J & SPRAU CHERYL R	3403 BENSON PARK BLVD	ORLANDO	FL	32829
312309020000450	ST CLAIRE STEPHEN R & ST CLAIRE JOY I	4077 ANDOVER CAY BLVD	ORLANDO	FL	32825
312309020500530	SWAIN SHANNON R & SWAIN MARGARET M	12333 CAPE SOUND CV	ORLANDO	FL	32825
312308374500460	TEMPLE AMANDA & TEMPLE CLARENCE	3275 BENSON PARK BLVD	ORLANDO	FL	32829
312309020600270	LUONG LIEN & TRAN VINNIE	10612 CLOUDVIEW DR	ORLANDO	FL	32825
312308374501170	ATO MIRTHA H & TRELLES AUGUSTO VINCES	3936 BENSON PARK BLVD	ORLANDO	FL	32829
312309020600190	NGUYEN STEVEN QUOC VIET & TRUONG THUY THI THANH	13021 GRAND BANK LN	ORLANDO	FL	32825
312309016800670	VALLELLANES FRANCISCO & VALLELLANES DEBBIE	3368 ERSKINE DR	ORLANDO	FL	32825
312309016800560	VARGAS LUIS JR & VARGAS JOHANNA L	3302 ERSKINE DR	ORLANDO	FL	32825
312308017400140	VARGAS MARCIAL E & VARGAS TAMELA P	10579 FAIRHAVEN WAY	ORLANDO	FL	32825
312309020600310	VELARDE LUIS A SR 1/2 INT & VELARDE JOSE A 1/2 INT	12924 GRAND BANK LN	ORLANDO	FL	32825
312308374500540	MUNOZ CESAR A & VELASQUEZ ANA M	3349 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500370	SANTIAGO LUIS & VELEZ LUCYANN	3221 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500330	VERA CAMILO & VERA MIRIAM	3161 BENSON PARK BLVD	ORLANDO	FL	32829
312308374500620	WAGNER JASON & WAGNER THERESA	3226 GREENWICH VILLAGE BLVD APT 103	ORLANDO	FL	32835
312308374501400	WALLACE EDWARD & WALLACE ABRA	10066 IVERSON DR	ORLANDO	FL	32832
312308017500720	WESTON JOHN THOMAS & WESTON ALLISON	3216 NATOMA WAY	ORLANDO	FL	32825
312308017300480	WILKES GEORGE A & WILKES SANDARAH L	3409 BELLINGHAM DR	ORLANDO	FL	32825
312308374501480	WILLIAMS TREVOR H & WILLIAMS MELANIE M	3662 BENSON PARK BLVD	ORLANDO	FL	32829
312308017300290	WILLIAMS ROBERT & WILLIAMS PATRICIA	3253 BELLINGHAM DR	ORLANDO	FL	32825
312308017300440	WRIGHT AARON J & WRIGHT KIMBERLY A	3349 BELLINGHAM DR	ORLANDO	FL	32825
312309020500360	CHAO PING-HUI & YANG PATTY	2503 DUCK POND CIR APT G	MORRISVILLE	NC	27560
312308016600002	ANDOVER LAKES HOMEOWNERS ASSOC INC	C/O DON ASHER & ASSOC INC 1801 COOK AVE	ORLANDO	FL	32806
312308016611000	ANDOVER LAKES HOMEOWNERS ASSOC INC	C/O DON ASHER & ASSOC INC 1801 COOK AVE	ORLANDO	FL	32806
312308016612000	ANDOVER LAKES HOMEOWNERS ASSOC INC	C/O DON ASHER & ASSOC INC 1801 COOK AVE	ORLANDO	FL	32806
312312000000001	MORGRAN CO INC	C/O DEFILIPP & ASSOC INC 203 LOOKOUT PL STE A	MAITLAND	FL	32751
312312000000010	MORGRAN CO	C/O DEFILIPP & ASSOC INC 203 LOOKOUT PL STE A	MAITLAND	FL	32751
312309016800002	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312309016800004	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312309016900005	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312309016900006	ANDOVER LAKES PHASE 2 HOMEOWNERS ASS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201311000	TIVOLI WOODS SERVICE ASSN INC	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201313000	TIVOLI WOODS VILLAGE B HOMEOWNERS AS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201316000	TIVOLI WOODS SERVICE ASSN INC	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201319000	TIVOLI WOODS VILLAGE B HOMEOWNERS AS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201320000	TIVOLI WOODS VILLAGE B HOMEOWNERS AS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201323000	TIVOLI WOODS SERVICE ASSN INC	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201324000	TIVOLI WOODS SERVICE ASSN INC	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201300001	TIVOLI WOODS SERVICE ASSN INC	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312318201300004	TIVOLI WOODS VILLAGE B HOMEOWNERS AS	C/O SENTRY MNGT INC 2180 W STATE ROAD 434 STE 5000	LONGWOOD	FL	32779
312316000000005	UDDO DEVELOPMENT INC	C/O ELEANOR M UDDO 386 WASHINGTON ST	WELLESLEY	MA	2481
312302000000002	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312304000000007	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312307000000012	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312308017300003	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312308205100002	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312308205100008	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312309016700001	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
312322000000002	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT PO BOX 1393	ORLANDO	FL	32802
322320000000001	ST JOHNS RIVER WATER MGT DISTRICT	ATTN: VICTORIA M KROGER, DIRECTOR PO BOX 1429	PALATKA	FL	32178
312309020000004	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020300001	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020500001	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020500005	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020500006	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020600004	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772
312309020600005	ANDOVER CAY HOMEOWNERS ASSOCIATION I	C/O PREMIER PROPERTY MGMT PO BOX 1596	SANFORD	FL	32772

ATTACHMENT B
SITE LOCATION INFORMATION



LEGEND

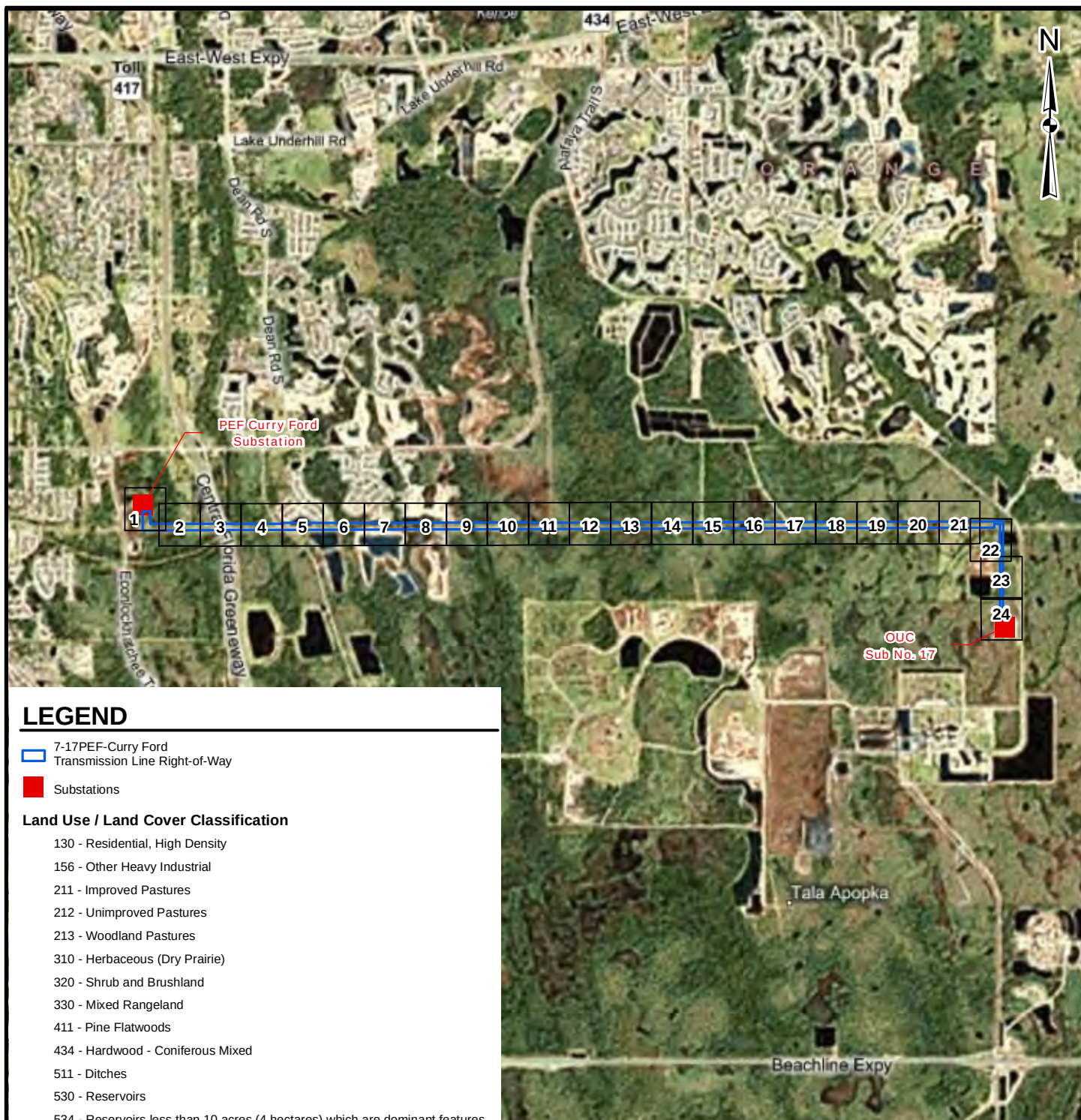
- Substations
- 7-17PEF-Curry Ford Transmission Line Right-of-Way

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, OUC, 2010.

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REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
LOCATION MAP						
 Golder Associates Gainesville, Florida			PROJECT No.	093-87744	FILE No.	09387744A003
			DESIGN	KAB	2/19/2010	SCALE: AS SHOWN
			GIS	NRL	2/24/2010	REV. 0
			CHECK	KAB	2/25/2010	FIGURE 1
			REVIEW	KAB	2/25/2010	



LEGEND

- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Substations

Land Use / Land Cover Classification

- 130 - Residential, High Density
- 156 - Other Heavy Industrial
- 211 - Improved Pastures
- 212 - Unimproved Pastures
- 213 - Woodland Pastures
- 310 - Herbaceous (Dry Prairie)
- 320 - Shrub and Brushland
- 330 - Mixed Rangeland
- 411 - Pine Flatwoods
- 434 - Hardwood - Coniferous Mixed
- 511 - Ditches
- 530 - Reservoirs
- 534 - Reservoirs less than 10 acres (4 hectares) which are dominant features
- 617 - Mixed Wetland Hardwoods
- 621 - Cypress
- 630 - Wetland Forested Mixed
- 641 - Freshwater Marshes
- 643 - Wet Prairies
- 646 - Treeless Hydric Savanna
- 741 - Rural land in transition without positive indicators of intended activity
- 814 - Roads and Highways
- 831 - Electric Power Facilities
- 832 - Electrical Power Transmission Lines

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, OUC, 2010.
2. Land Use / Land Cover, SJRWMD, 2004 & Golder Associates Inc., 2009.

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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER INDEX SHEET						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 2 COVER SHEET		
REVIEW			KAB 2/26/2010			



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LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Land Use / Land Cover

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 1 of 24		
REVIEW			KAB 2/25/2010			



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REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
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PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						

TITLE						
LAND USE / LAND COVER						



PROJECT No. 093-87744			FILE No. 09387744A001		
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0
GIS	NRL	2/25/2010	FIGURE 2 2 of 24		
CHECK	KAB	2/25/2010			
REVIEW	KAB	2/25/2010			

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LEGEND

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-  7-17PEF-Curry Ford Transmission Line Right-of-Way
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REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744		FILE No.	
DESIGN			KAB	2/19/2010	SCALE: AS SHOWN	
GIS			NRL	2/25/2010	REV. 0	
CHECK			KAB	2/25/2010	FIGURE 2 3 of 24	
REVIEW			KAB	2/25/2010		



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LEGEND

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2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 4 of 24		
REVIEW			KAB 2/25/2010			



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LEGEND

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2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 6 of 24		
REVIEW			KAB 2/25/2010			





LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
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REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 7 of 24		
REVIEW			KAB 2/25/2010			



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LEGEND

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- Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 8 of 24		
REVIEW			KAB 2/25/2010			



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REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 9 of 24		
REVIEW			KAB 2/25/2010			



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2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RWV			
PROJECT													
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE													
TITLE													
LAND USE / LAND COVER													
 Golder Associates Gainesville, Florida			PROJECT No.			093-87744		FILE No.			09387744A001		
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN			REV. 0			
			GIS	NRL	2/25/2010		FIGURE 2 10 of 24						
			CHECK	KAB	2/25/2010								
			REVIEW	KAB	2/25/2010								



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LEGEND

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2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 11 of 24		
REVIEW			KAB 2/25/2010			



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LEGEND

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2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 12 of 24		
REVIEW			KAB 2/25/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			FILE No.			
DESIGN			SCALE: AS SHOWN			
GIS			REV. 0			
CHECK			FIGURE 2			
REVIEW			13 of 24			



Map Document: 09387744_A001_LandUse_LandCover.mxd / Modified 2/26/2010 10:33:36 AM / Plotted 2/26/2010 11:00:55 AM by rlamar



LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 14 of 24		
REVIEW			KAB 2/25/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			FILE No.			
DESIGN			SCALE: AS SHOWN			
GIS			REV. 0			
CHECK			FIGURE 2			
REVIEW			15 of 24			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 16 of 24		
REVIEW			KAB 2/25/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION						
7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			FILE No.			
DESIGN			SCALE: AS SHOWN			
GIS			REV. 0			
CHECK			FIGURE 2			
REVIEW			17 of 24			

Map Document: 09387744_A001_LandUse_LandCover.mxd / Modified 2/26/2010 10:33:36 AM / Plotted 2/26/2010 11:00:55 AM by flamar



LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			FILE No.			
DESIGN			SCALE: AS SHOWN			
GIS			REV. 0			
CHECK			FIGURE 2			
REVIEW			18 of 24			



Map Document: 09387744_A001_LandUse_LandCover.mxd / Modified 2/26/2010 10:33:36 AM / Plotted 2/26/2010 11:00:55 AM by rlamar



LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

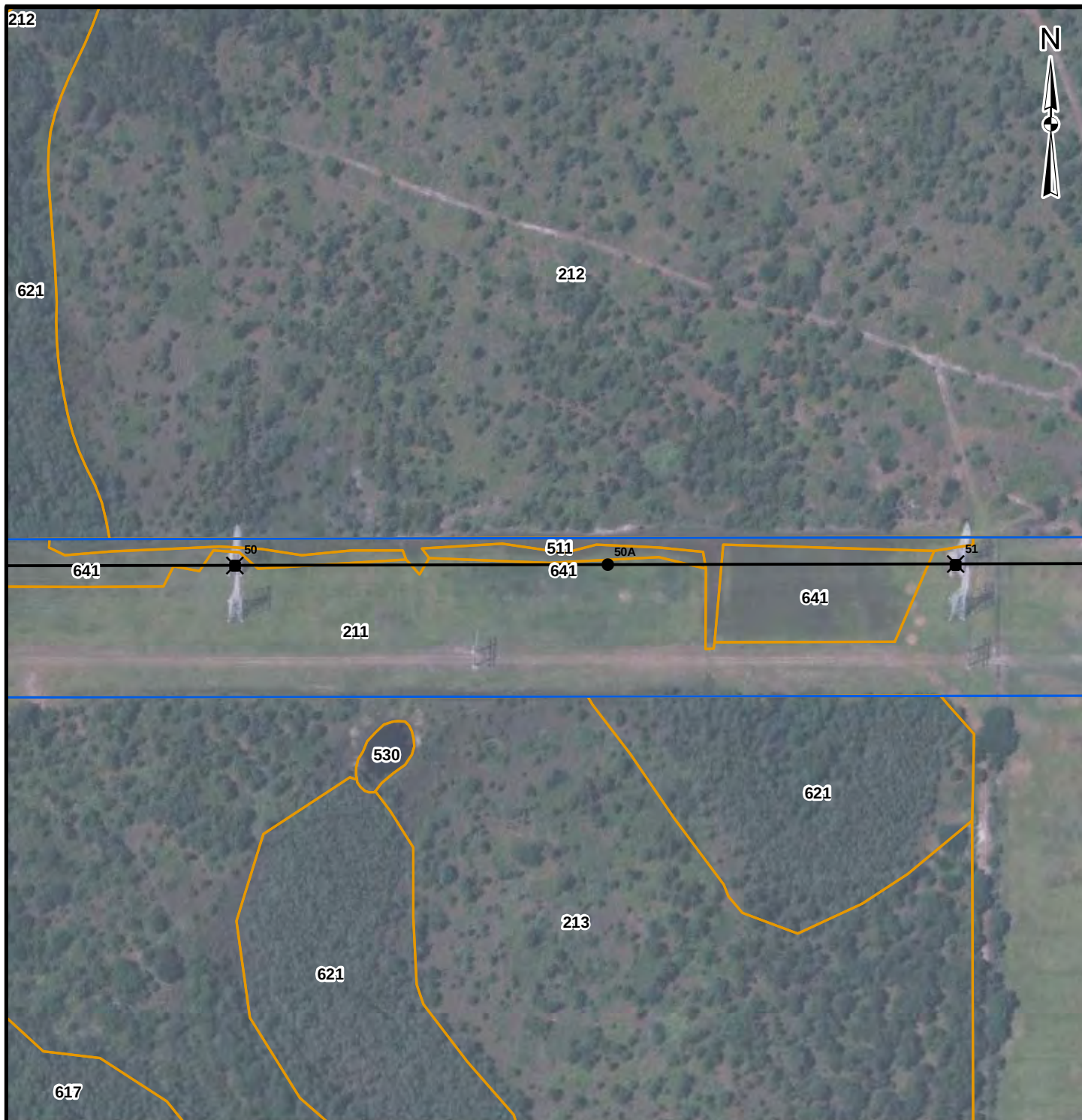
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RWV				
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE												
TITLE												
LAND USE / LAND COVER												
			PROJECT No.		093-87744		FILE No.		09387744A001			
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV.		0	
			GIS	NRL	2/25/2010		FIGURE 2 19 of 24					
			CHECK	KAB	2/25/2010							
			REVIEW	KAB	2/25/2010							



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW
PROJECT										
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE										
TITLE										
LAND USE / LAND COVER										
										
PROJECT No.			093-87744			FILE No.		09387744A001		
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN		REV.		0			
GIS	NRL	2/25/2010	FIGURE 2 20 of 24							
CHECK	KAB	2/25/2010								
REVIEW	KAB	2/25/2010								



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

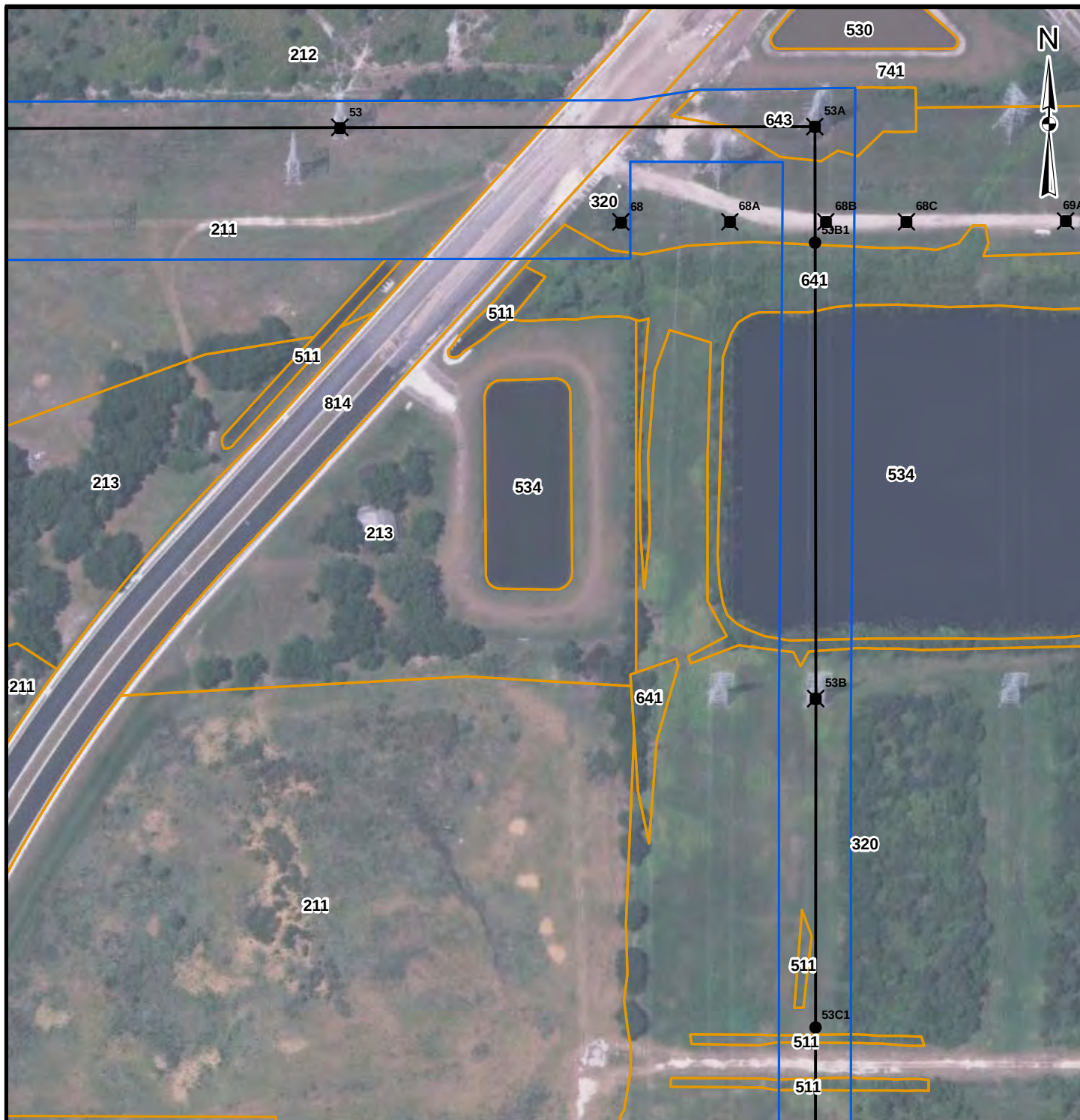
1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

200 0 200
Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 21 of 24		
REVIEW			KAB 2/25/2010			



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LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Land Use / Land Cover

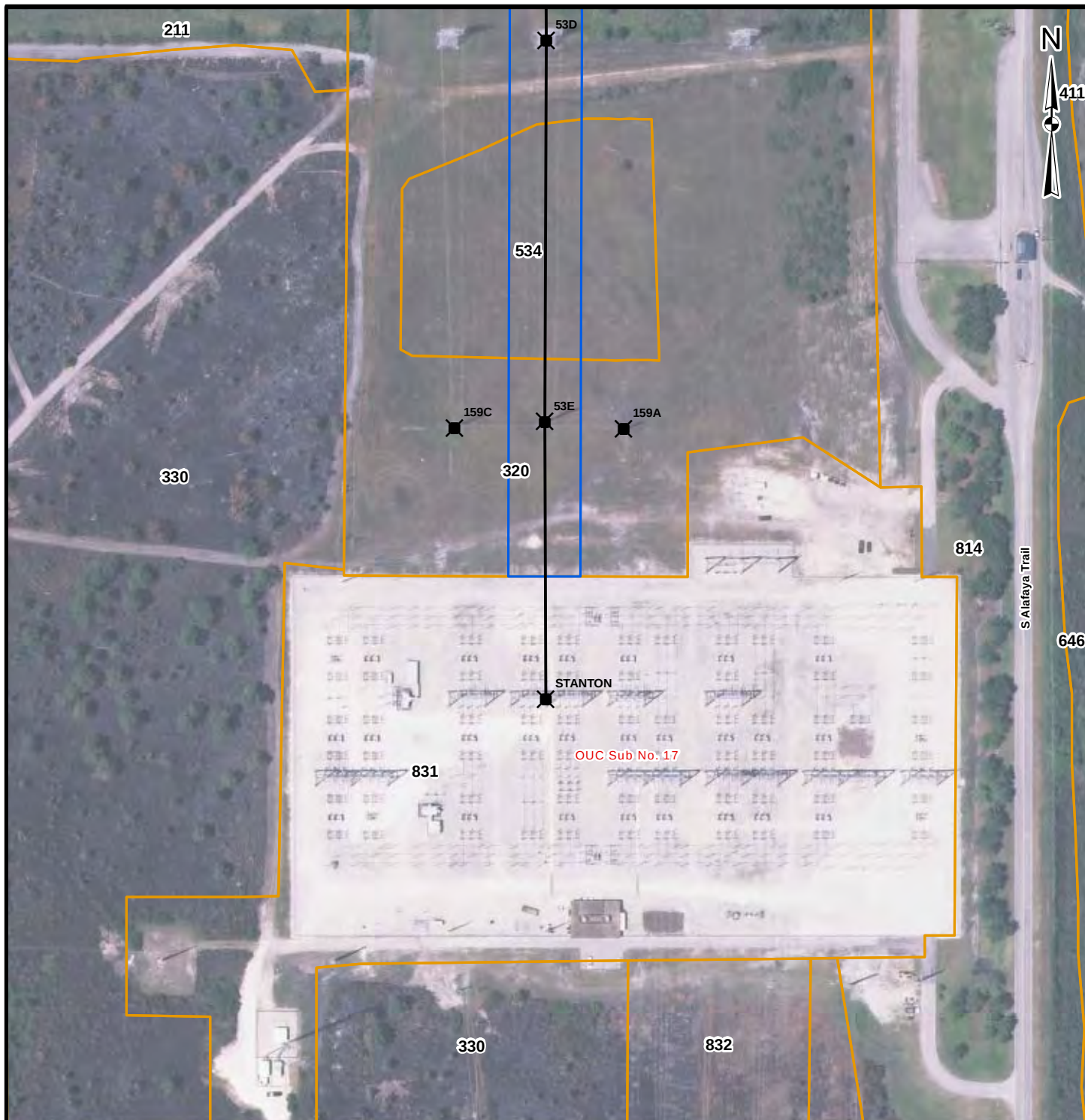
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/25/2010	FIGURE 2 22 of 24		
REVIEW			KAB 2/25/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Land Use / Land Cover

REFERENCES

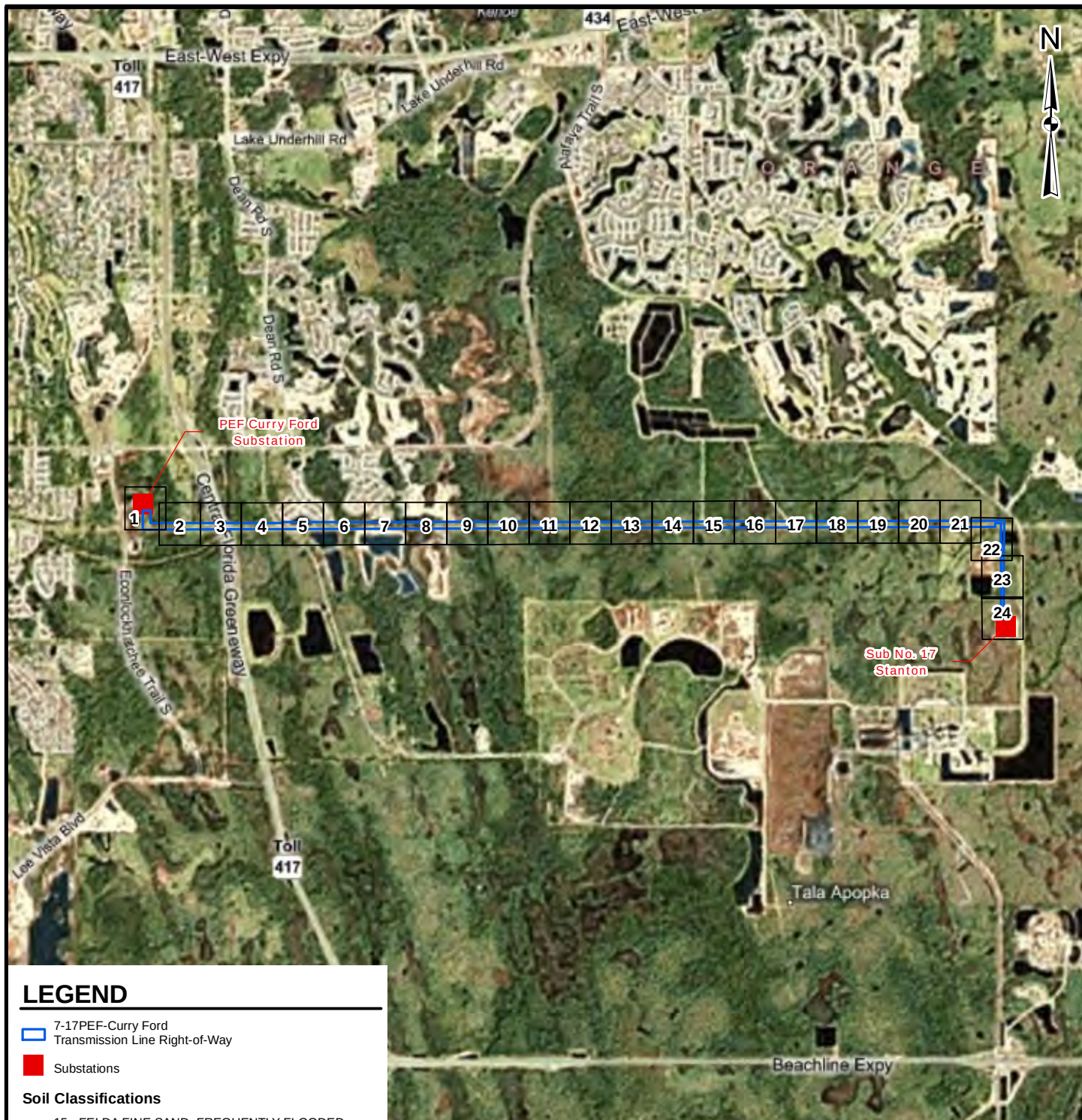
1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Land Use / Land Cover, SJRWMD 2004 & Golder Associates Inc., 2009.

200 0 200
Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
LAND USE / LAND COVER						
PROJECT No.			093-87744		FILE No.	
DESIGN			KAB		2/19/2010	
GIS			NRL		2/25/2010	
CHECK			KAB		2/25/2010	
REVIEW			KAB		2/25/2010	
SCALE: AS SHOWN			REV. 0		FIGURE 2 24 of 24	



Map Document: 09387744_A006_Soils_CoverSheet.mxd / Modified 2/25/2010 9:41:13 AM / Plotted 3/1/2010 3:19:35 PM by rhamar



LEGEND

 7-17PEF-Curry Ford
Transmission Line Right-of-Way

 Substations

Soil Classifications

- 15 - FELDA FINE SAND, FREQUENTLY FLOODED
- 26 - ONA FINE SAND
- 3 - BASINGER FINE SAND, DEPRESSIONAL
- 34 - POMELLO FINE SAND, 0 TO 5 PERCENT SLOPES
- 37 - ST. JOHNS FINE SAND
- 40 - SAMSULA MUCK
- 42 - SANIBEL MUCK
- 44 - SMYRNA FINE SAND
- 51 - WABASSO FINE SAND
- 54 - ZOLFO FINE SAND
- 99 - WATER

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, OUC, 2010.
2. Soils, NRCS, 1990.

5,000 0 5,000
Feet

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RWV			
PROJECT											
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE											
TITLE											
SOILS INDEX SHEET											
 Golder Associates Gainesville, Florida			PROJECT No.		093-87744		FILE No.		09387744A006		
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV.		0
			GIS	NRL	2/25/2010		FIGURE 3 COVER SHEET				
			CHECK	XXX	8/13/2008						
			REVIEW	XXX	8/13/2008						



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 1 of 24		
REVIEW			KAB 2/26/2010			



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200 0 200
Feet

LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 2 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 3 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

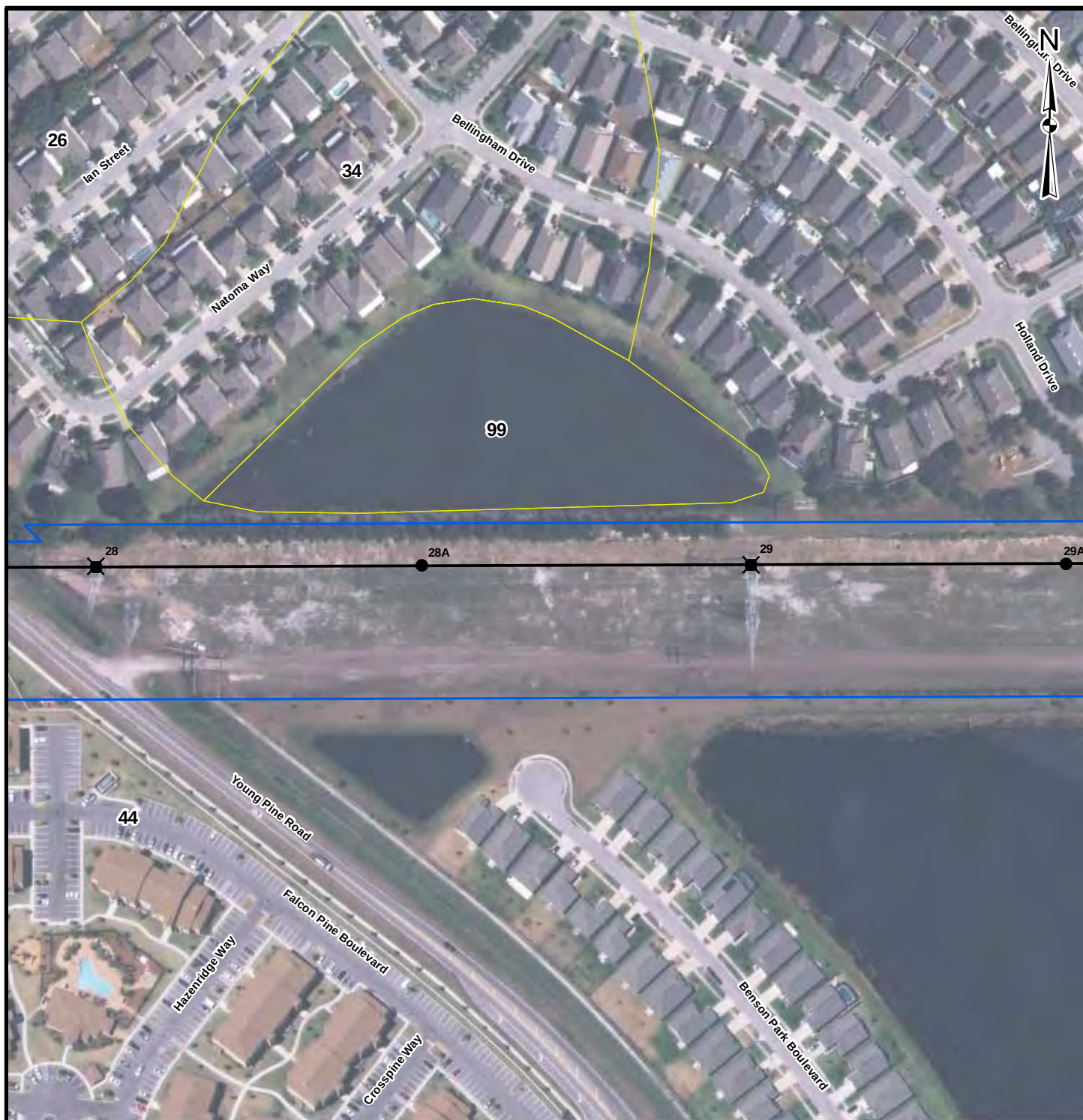
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 4 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
------	------	-----	----------------------	-----	-----	-----

PROJECT
ORLANDO UTILITIES COMMISSION
7-17PEF-CURRY FORD 230KV TRANSMISSION LINE

TITLE
SOILS



PROJECT No.	093-87744	FILE No.	09387744A005
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN
GIS	NRL	2/25/2010	REV. 0
CHECK	KAB	2/26/2010	FIGURE 3 5 of 24
REVIEW	KAB	2/26/2010	



LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RWV					
PROJECT													
ORLANDO UTILITIES COMMISSION													
7-17PEF-CURRY FORD 230KV TRANSMISSION LINE													
TITLE													
SOILS													
 Golder Associates Gainesville, Florida			PROJECT No.			093-87744			FILE No.		09387744A005		
			DESIGN		KAB		2/19/2010		SCALE: AS SHOWN			REV. 0	
			GIS		NRL		2/25/2010		FIGURE 3 6 of 24				
			CHECK		KAB		2/26/2010						
			REVIEW		KAB		2/26/2010						



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

200 0 200
Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 7 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 8 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744		FILE No.	
DESIGN			KAB	2/19/2010	SCALE: AS SHOWN	
GIS			NRL	2/25/2010	REV. 0	
CHECK			KAB	2/26/2010	FIGURE 3 9 of 24	
REVIEW			KAB	2/26/2010		



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RWW				
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE												
TITLE												
SOILS												
			PROJECT No.		093-87744		FILE No.		09387744A005			
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV.		0	
			GIS	NRL	2/25/2010		FIGURE 3 10 of 24					
			CHECK	KAB	2/26/2010							
			REVIEW	KAB	2/26/2010							



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200 0 200
Feet

LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW				
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE												
TITLE												
SOILS												
 Golder Associates Gainesville, Florida			PROJECT No.		093-87744		FILE No.		09387744A005			
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV.		0	
			GIS	NRL	2/25/2010		FIGURE 3 11 of 24					
			CHECK	KAB	2/26/2010							
			REVIEW	KAB	2/26/2010							



Map Document: 09387744_A005_Soils.mxd / Modified 2/26/2010 10:55:47 AM / Plotted 2/26/2010 10:56:45 AM by rlanar



LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RWW		
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE												
TITLE												
SOILS												
			PROJECT No.			093-87744		FILE No.			09387744A005	
			DESIGN		KAB	2/19/2010		SCALE: AS SHOWN			REV. 0	
			GIS		NRL	2/25/2010		FIGURE 3 12 of 24				
			CHECK		KAB	2/26/2010						
			REVIEW		KAB	2/26/2010						



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			FILE No.			
DESIGN			SCALE: AS SHOWN			
GIS			REV. 0			
CHECK			FIGURE 3			
REVIEW			13 of 24			





LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						

TITLE						
SOILS						



PROJECT No. 093-87744			FILE No. 09387744A005		
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0
GIS	NRL	2/25/2010	FIGURE 3 14 of 24		
CHECK	KAB	2/26/2010			
REVIEW	KAB	2/26/2010			

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200 0 200
Feet

LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

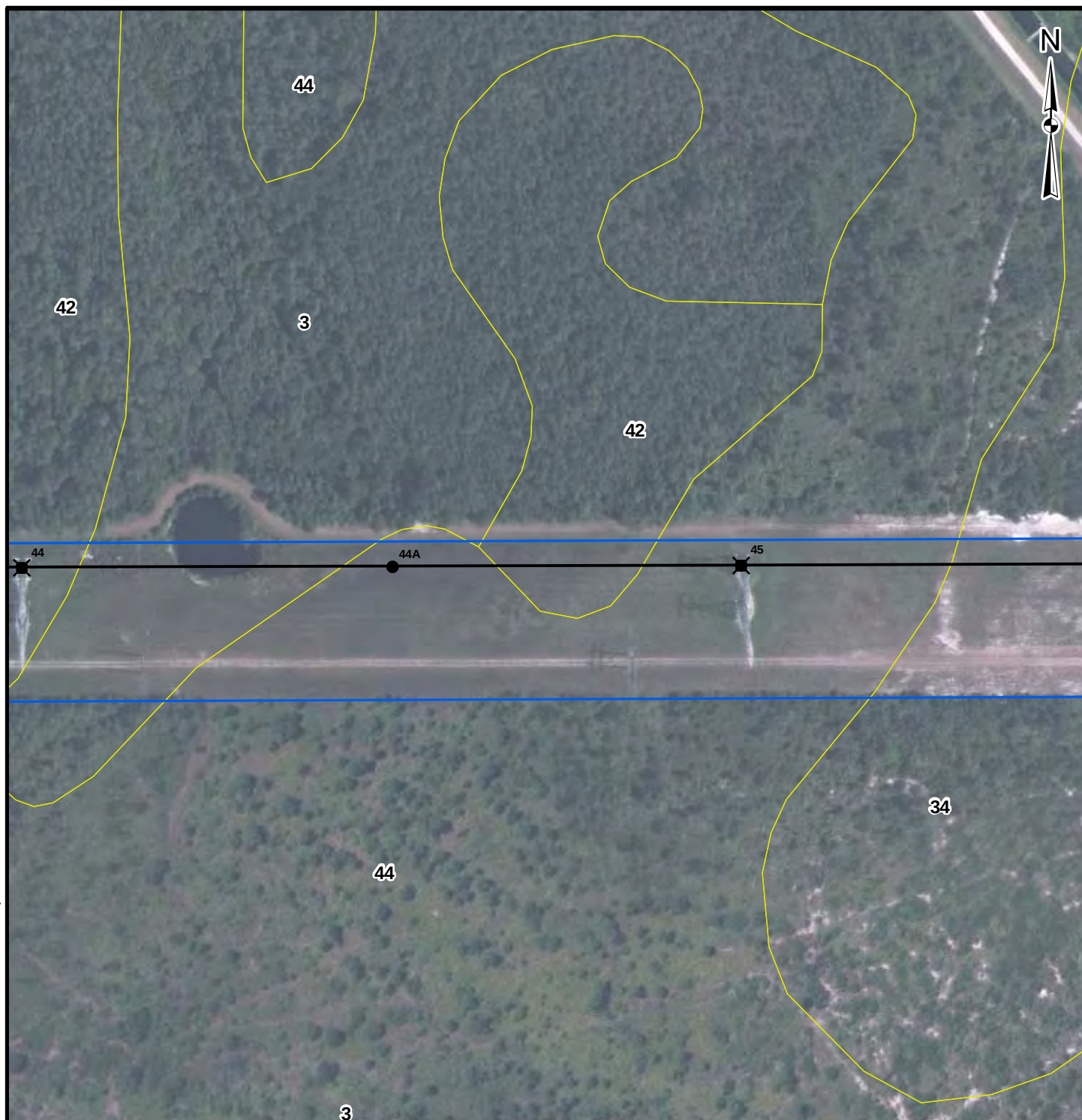
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 15 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW		
PROJECT										
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE										
TITLE										
SOILS										
			PROJECT No.			FILE No.				
			093-87744			09387744A005				
			DESIGN	KAB	2/19/2010	SCALE: AS SHOWN			REV.	0
			GIS	NRL	2/25/2010	FIGURE 3 16 of 24				
			CHECK	KAB	2/26/2010					
REVIEW	KAB	2/26/2010								



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 17 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW		
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE												
TITLE												
SOILS												
			PROJECT No.			093-87744		FILE No.			09387744A005	
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN			REV. 0		
			GIS	NRL	2/25/2010		FIGURE 3 18 of 24					
			CHECK	KAB	2/26/2010							
			REVIEW	KAB	2/26/2010							



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW	
PROJECT											
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE											
TITLE											
SOILS											
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			GIS	NRL	2/25/2010		FIGURE 3 19 of 24				
			CHECK	KAB	2/26/2010						
			REVIEW	KAB	2/26/2010						



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 20 of 24		
REVIEW			KAB 2/26/2010			



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37

200 0 200
Feet

LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

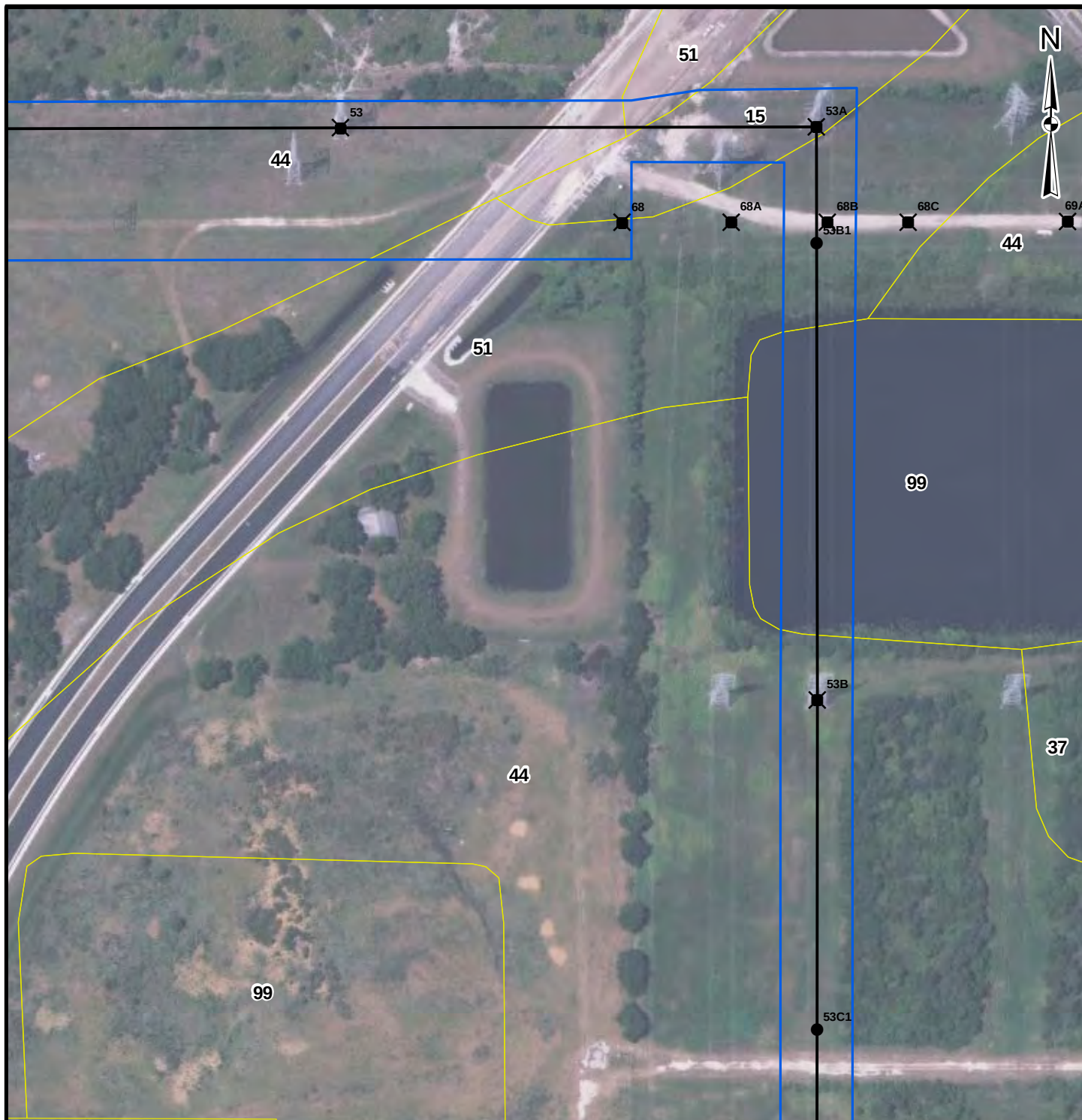
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 21 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 22 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Soils

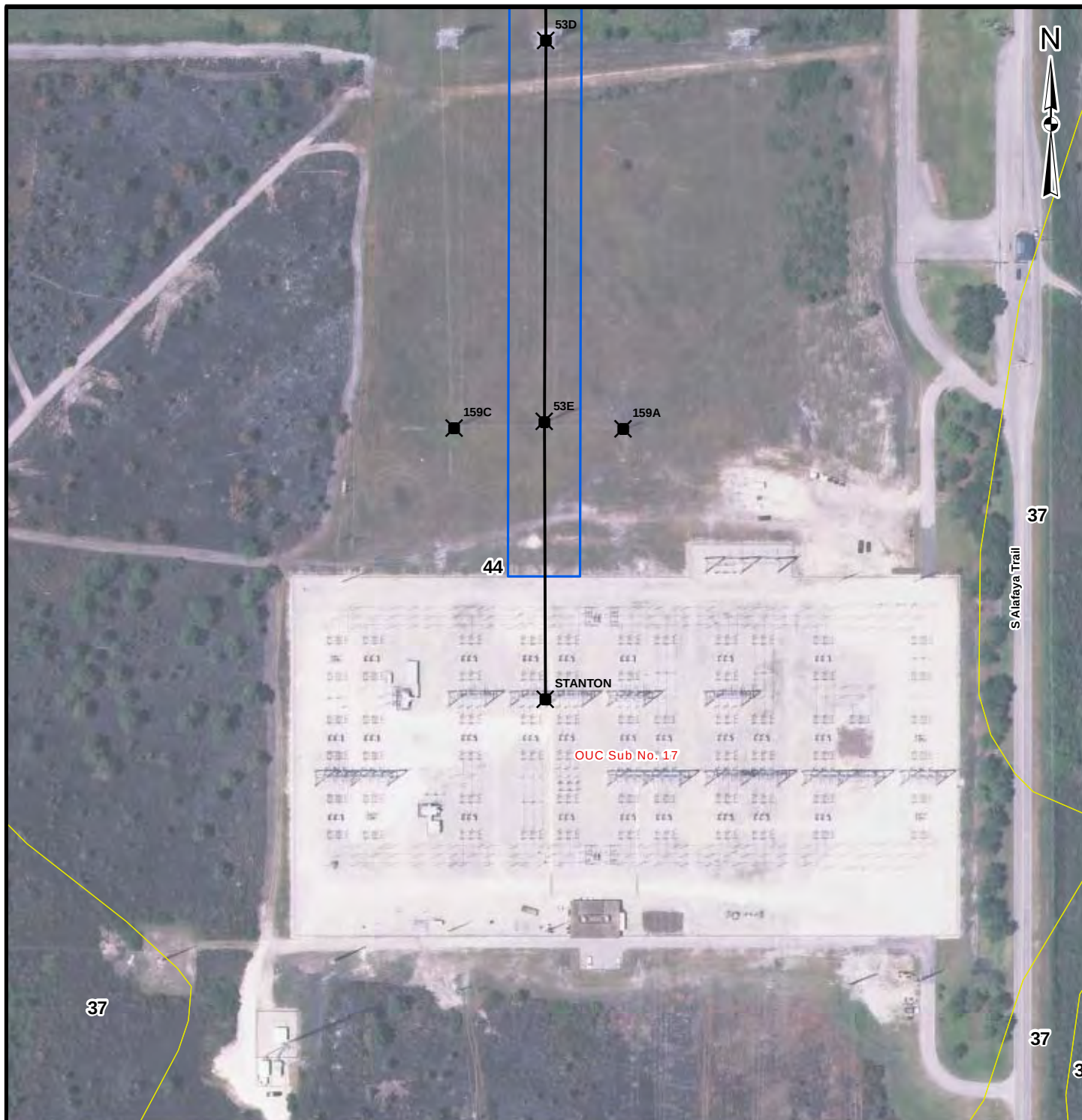
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 23 of 24		
REVIEW			KAB 2/26/2010			



Map Document: 09387744_A005_Soils.mxd / Modified 2/26/2010 10:55:47 AM / Plotted 2/26/2010 10:56:45 AM by rlanar



LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Soils

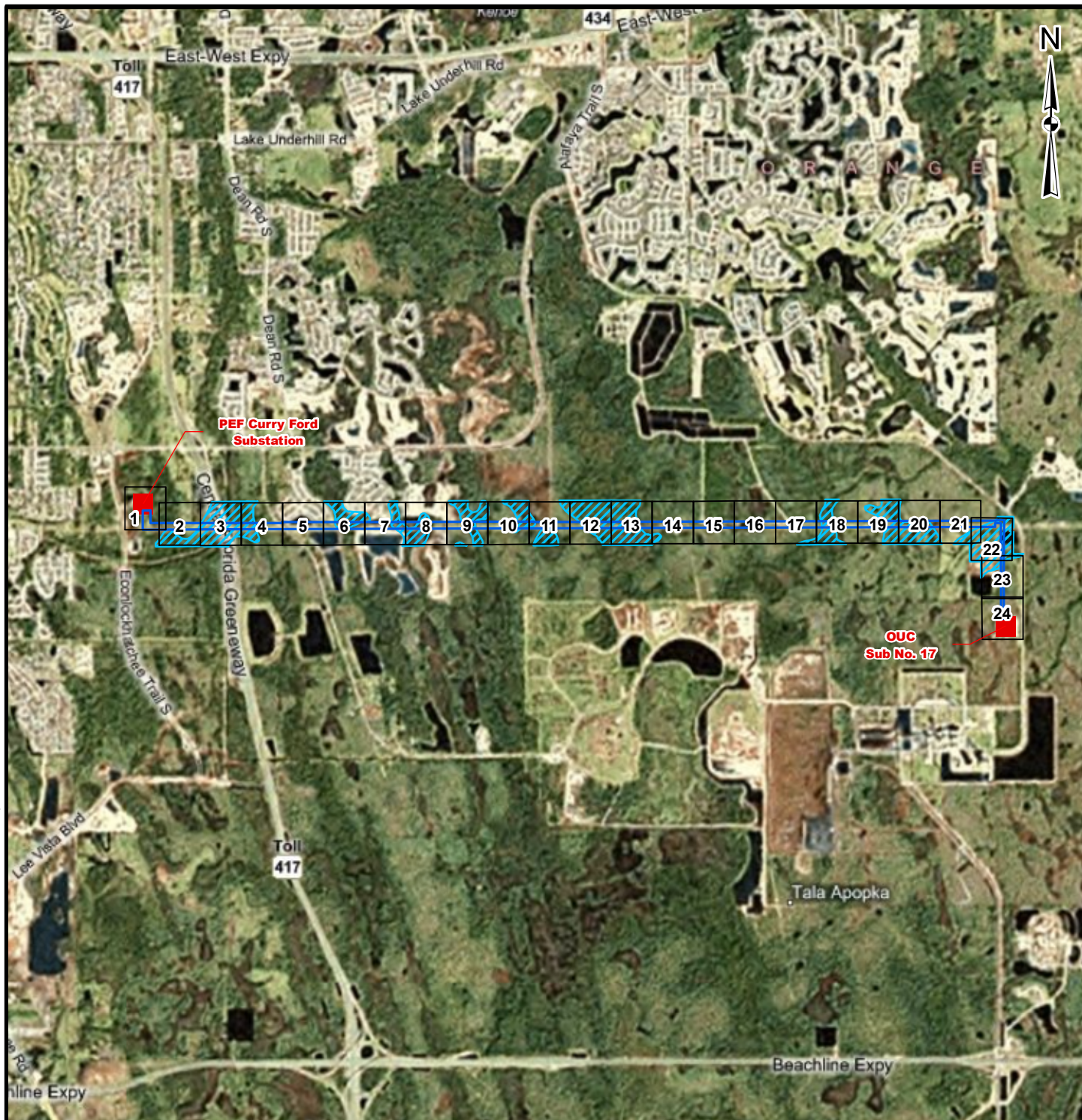
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, & Centerline, OUC, 2010.
2. Soils, NRCS, 1990.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SOILS						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 3 24 of 24		
REVIEW			KAB 2/26/2010			



Map Document: 09387744_A008_Floodplain_CoverSheet.mxd / Modified 2/25/2010 9:40:41 AM / Plotted 2/26/2010 12:12:43 PM by rlamar



LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Substations
-  100-Year Floodplain

REFERENCES

- 7-17PEF-Curry Ford Transmission Line Right-of-Way, OUC, 2010.
- 100-Year Floodplain, FEMA, 2009.



REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW																																
PROJECT																																										
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE																																										
TITLE																																										
100-YEAR FLOODPLAIN MAP INDEX SHEET																																										
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PROJECT No.		093-87744		FILE No.		09387744A008																																				
DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV. 0																																				
GIS	NRL	2/25/2010		FIGURE 4 COVER SHEET																																						
CHECK	KAB	2/26/2010																																								
REVIEW	KAB	2/26/2010																																								





LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

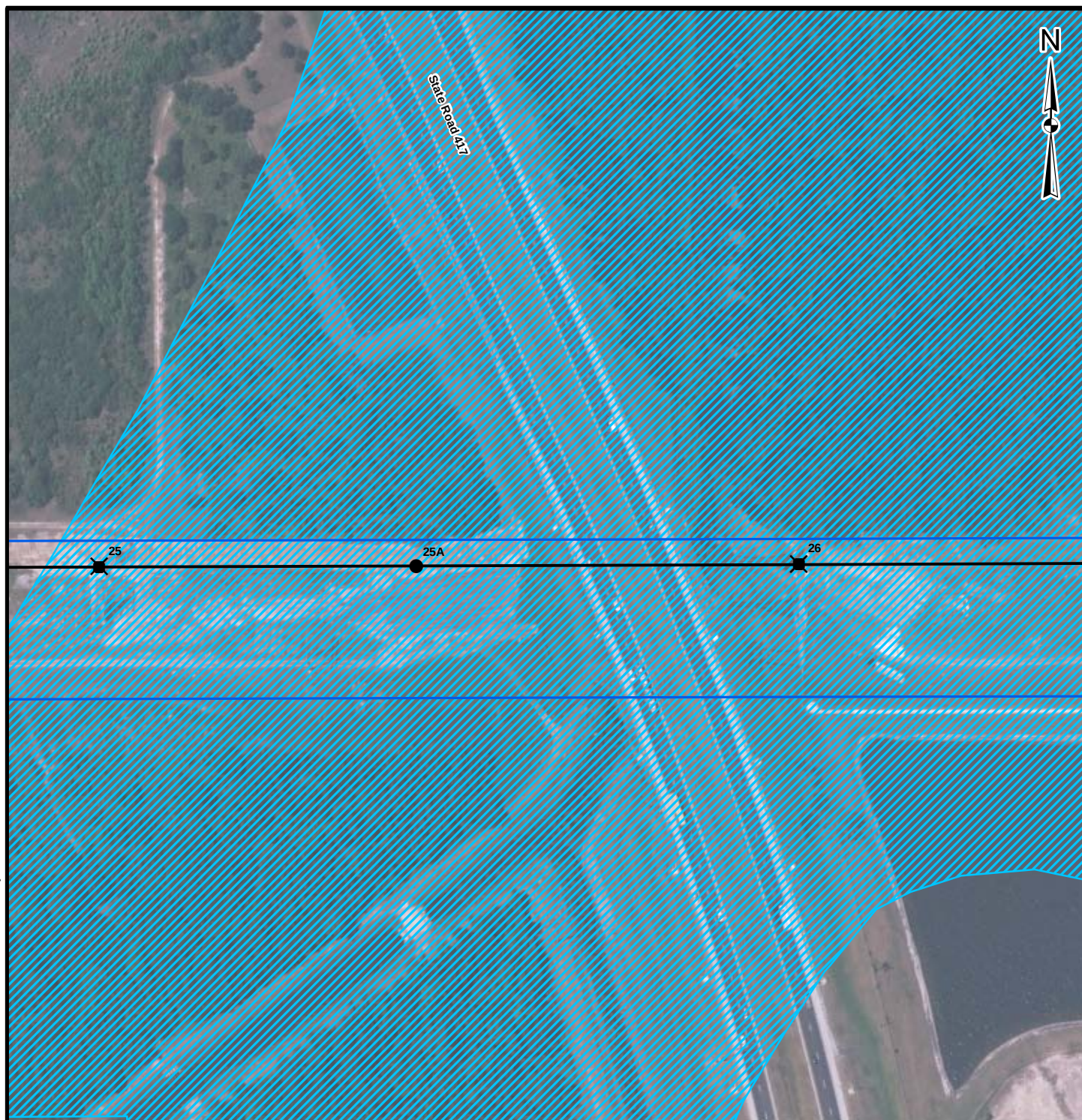
1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.		093-87744		FILE No.		09387744A007
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0	
GIS	NRL	2/25/2010				
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				



FIGURE 4
2 of 24

Map Document: 09387744_A007_Floodplain.mxd / Modified 2/25/2010 9:36:32 AM / Plotted 2/26/2010 12:04:25 PM by riamar



LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

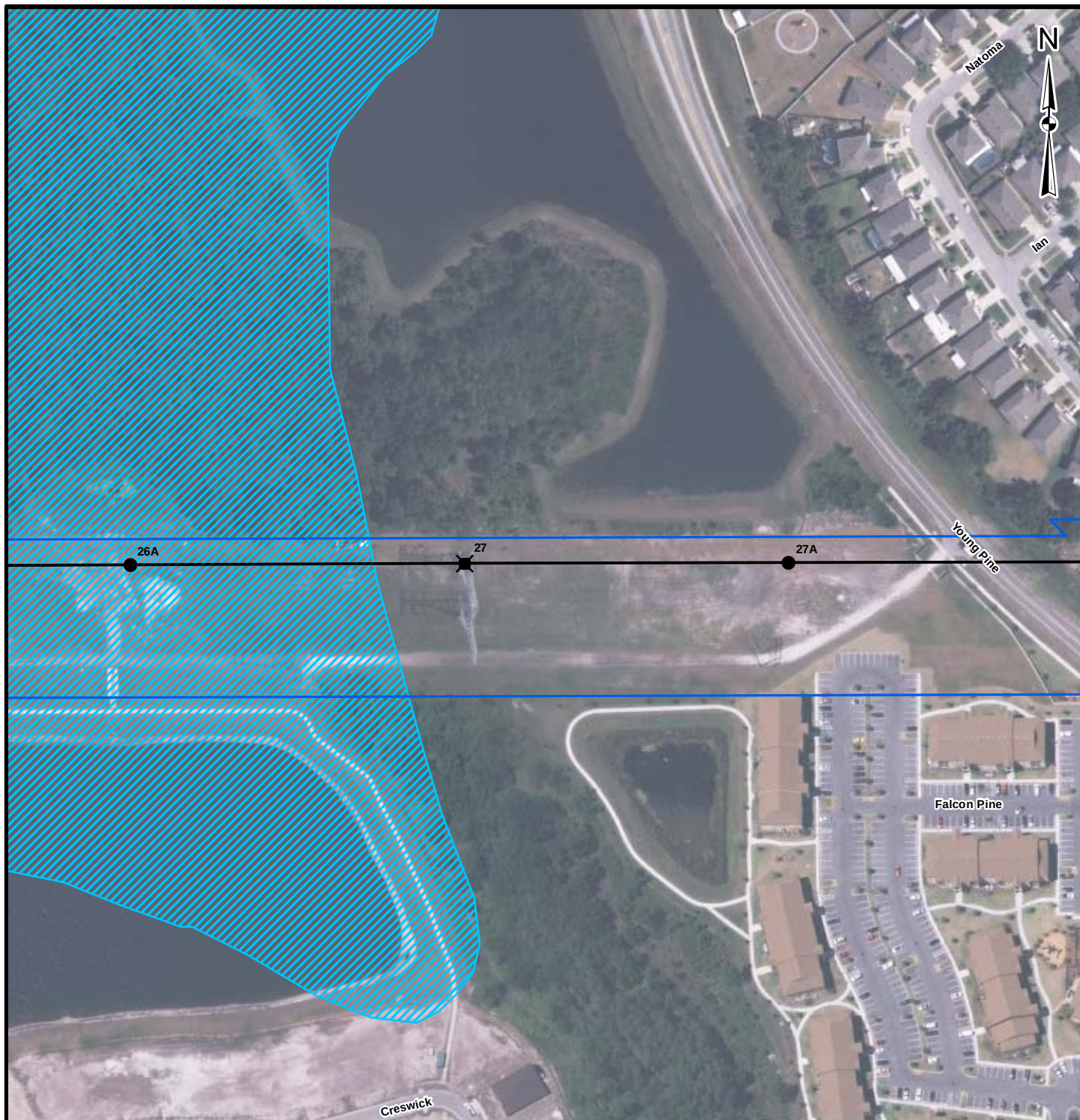
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.		093-87744		FILE No.		09387744A007
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0	
GIS	NRL	2/25/2010	FIGURE 4 3 of 24			
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				



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LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.		093-87744		FILE No.		09387744A007
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0	
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CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				





LEGEND

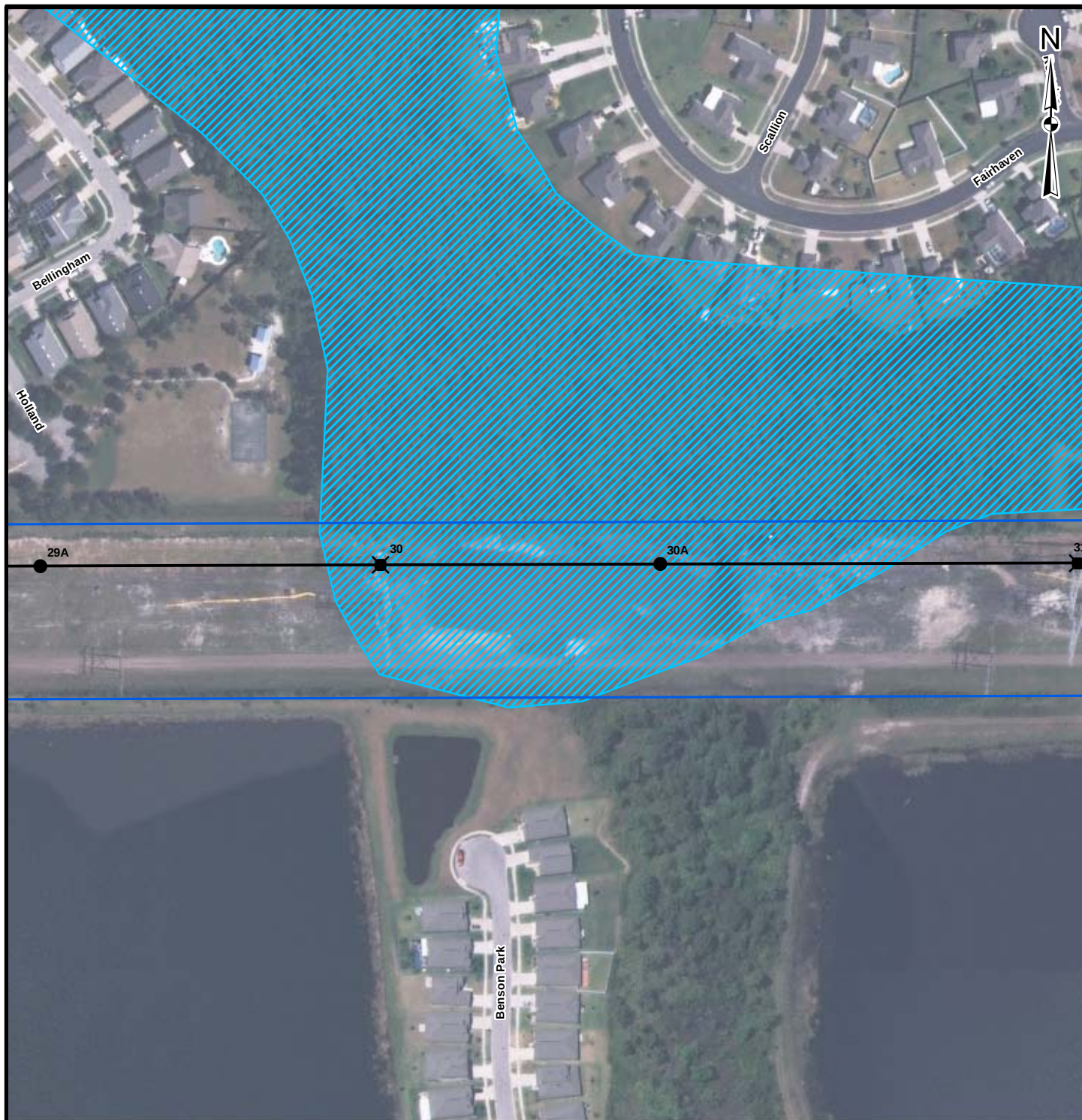
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- ✕ Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW				
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE												
TITLE												
100-YEAR FLOODPLAIN MAP												
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			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV.		0	
			GIS	NRL	2/25/2010		FIGURE 4 5 of 24					
			CHECK	KAB	2/26/2010							
			REVIEW	KAB	2/26/2010							





LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

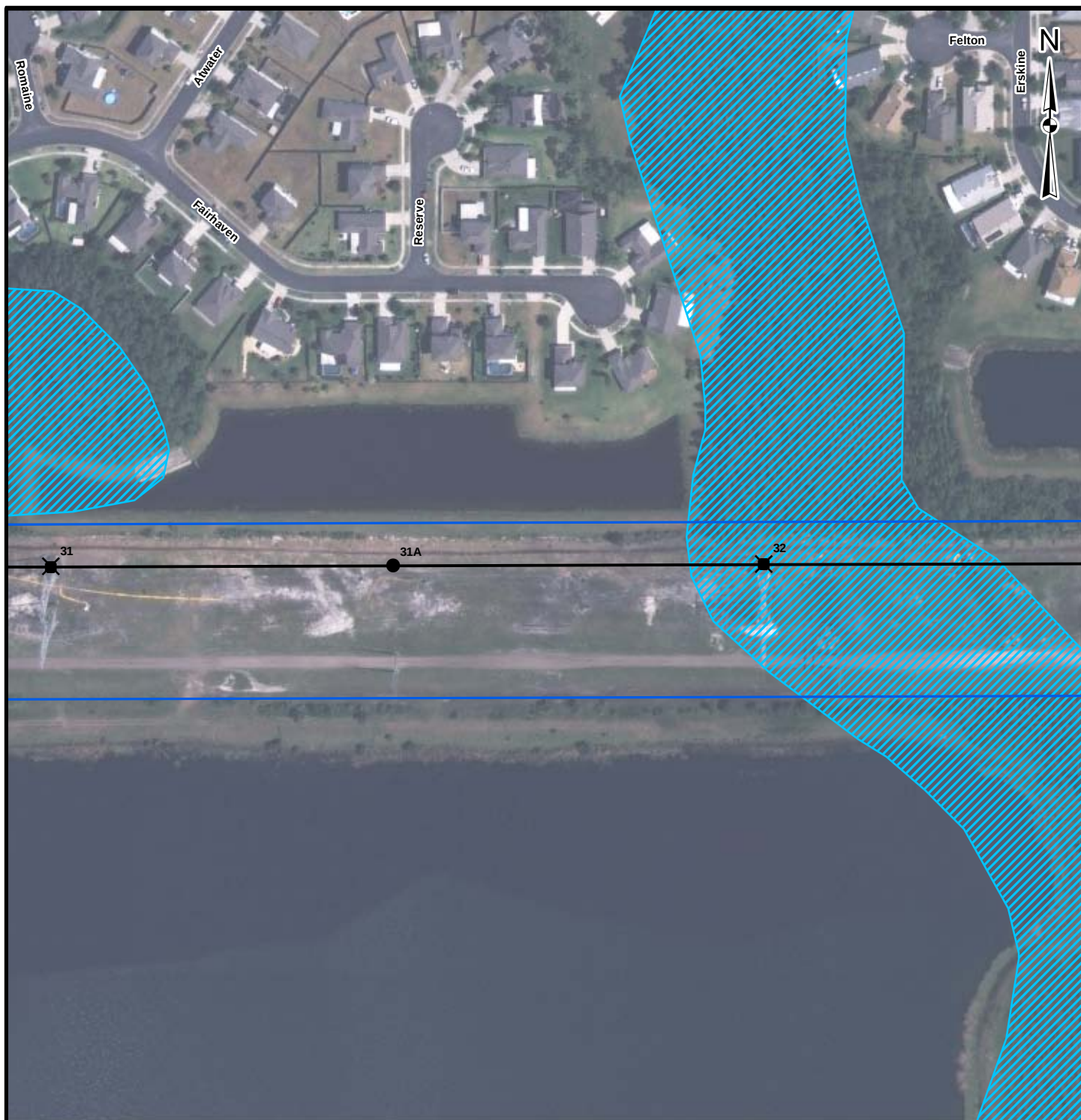
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW				
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100-YEAR FLOODPLAIN MAP												
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200 0 200
Feet

LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWW
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ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 4 7 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

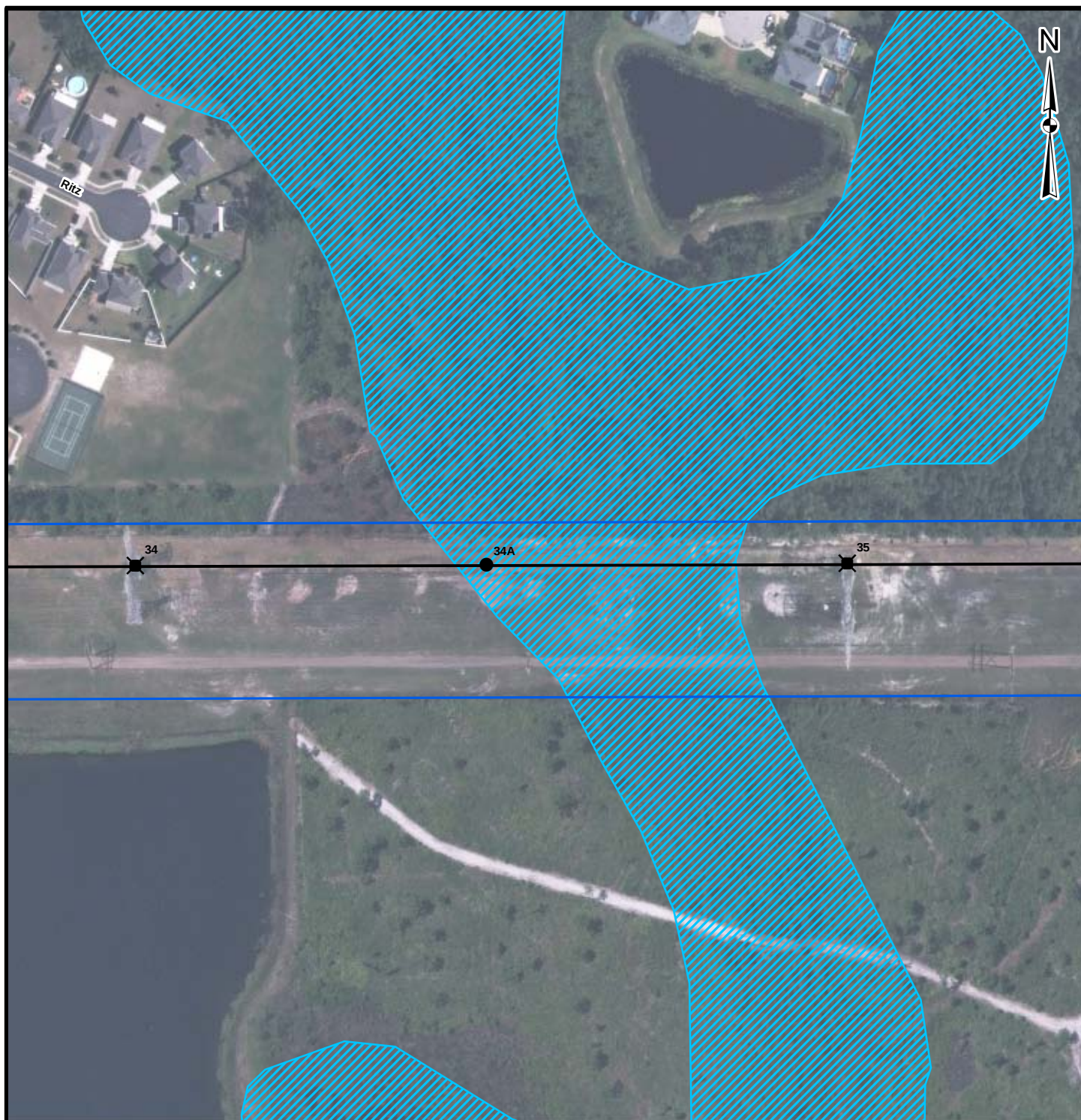
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 4 8 of 24		
REVIEW			KAB 2/26/2010			



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200 0 200
Feet

LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

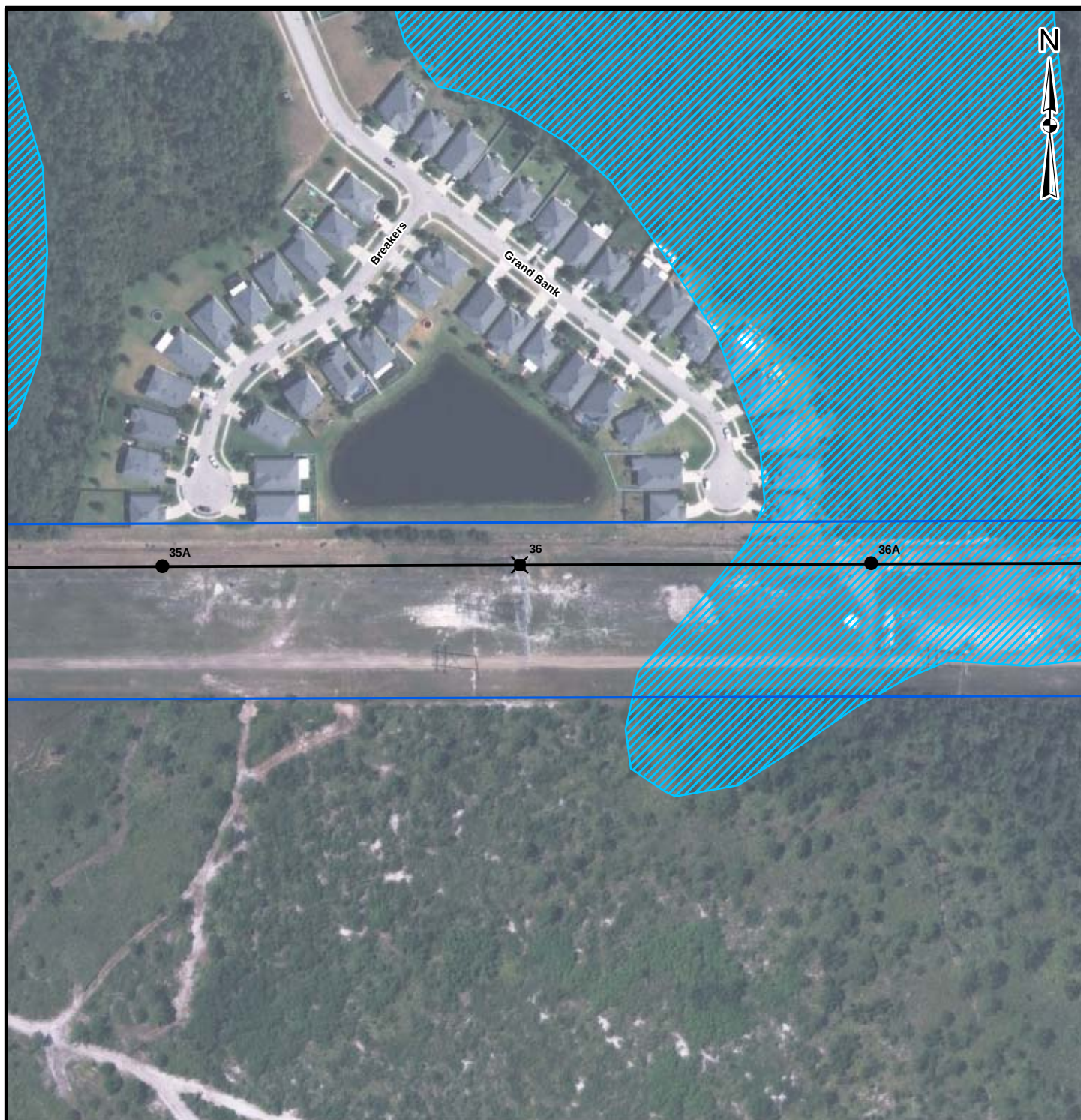
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW	
PROJECT											
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TITLE											
100-YEAR FLOODPLAIN MAP											
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			GIS	NRL	2/25/2010		FIGURE 4 9 of 24				
			CHECK	KAB	2/26/2010						
			REVIEW	KAB	2/26/2010						



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LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW				
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE												
TITLE												
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			CHECK	KAB	2/26/2010							
			REVIEW	KAB	2/26/2010							



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LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

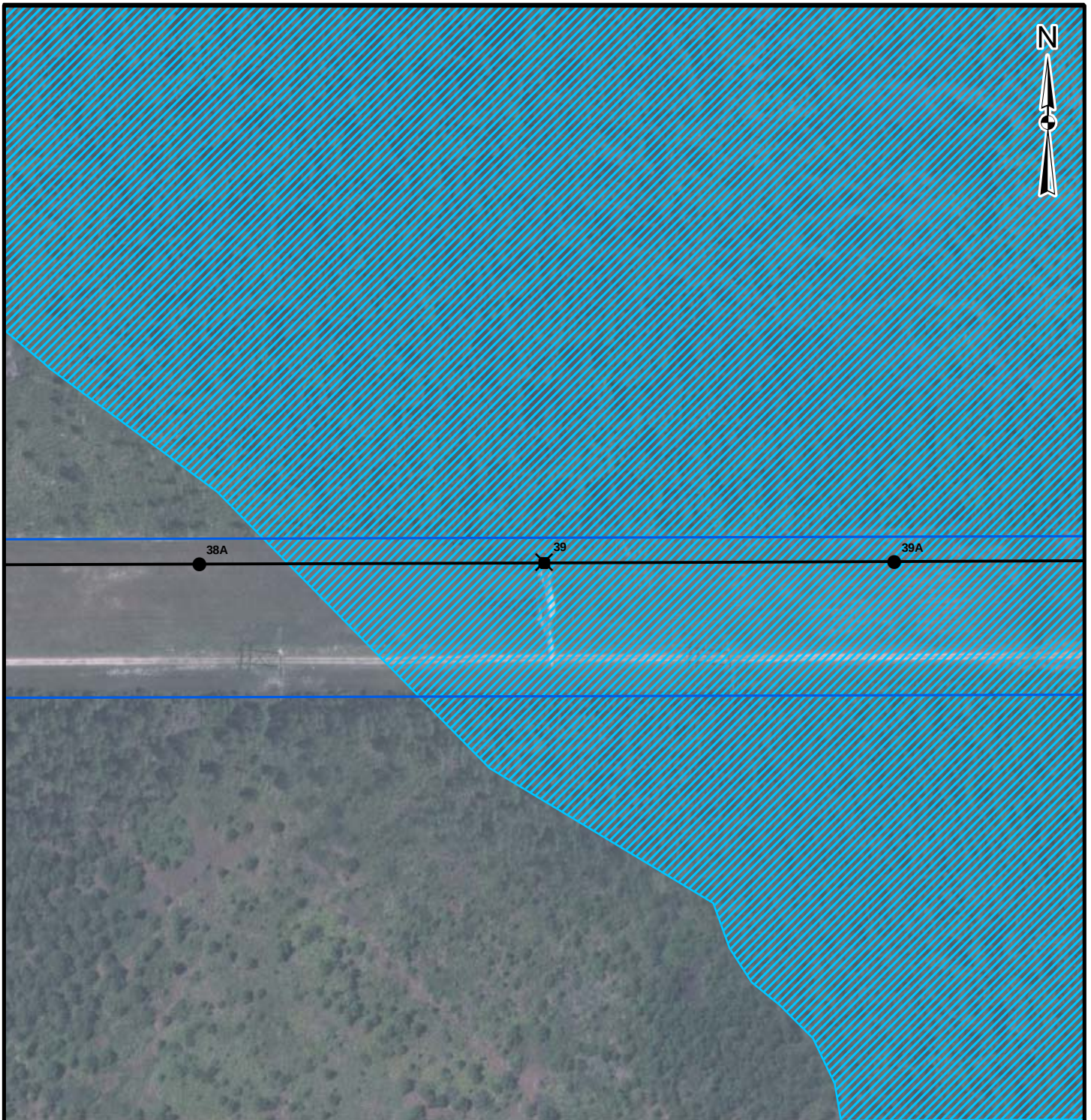
1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

200 0 200
Feet

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW				
PROJECT														
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE														
TITLE														
100-YEAR FLOODPLAIN MAP														
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				GIS	NRL	2/25/2010		FIGURE 4 11 of 24						
				CHECK	KAB	2/26/2010								
				REVIEW	KAB	2/26/2010								



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LEGEND

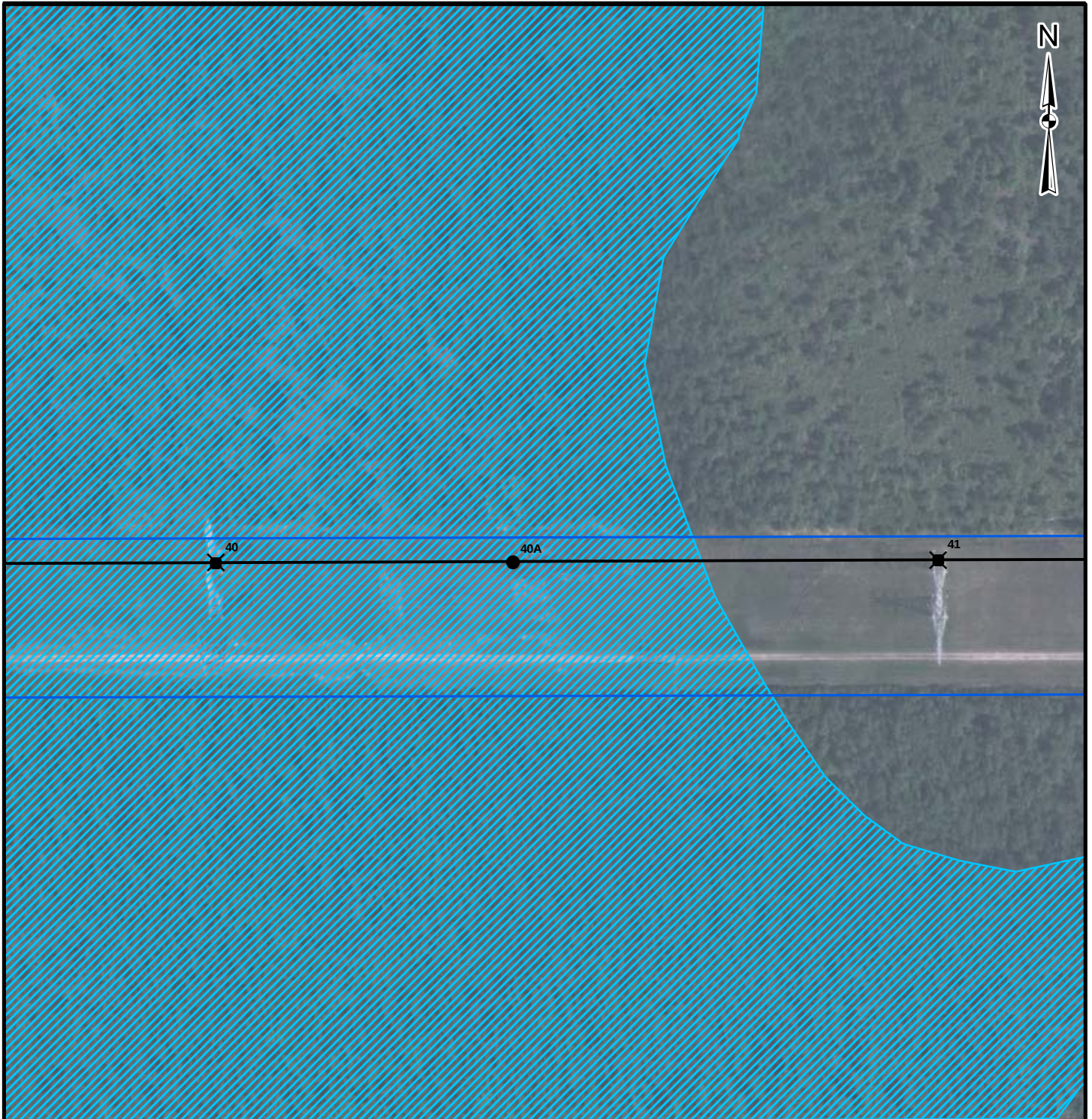
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.		093-87744		FILE No.		09387744A007
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0	
GIS	NRL	2/25/2010				
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				
 Golder Associates Gainesville, Florida				FIGURE 4 12 of 24		

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LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.		093-87744		FILE No.		09387744A007
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0	
GIS	NRL	2/25/2010				
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				



FIGURE 4
13 of 24



LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW		
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE												
TITLE												
100-YEAR FLOODPLAIN MAP												
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			CHECK	KAB	2/26/2010							
			REVIEW	KAB	2/26/2010							



PROJECT No.			093-87744			FILE No.			09387744A007		
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GIS	NRL	2/25/2010		FIGURE 4 14 of 24							
CHECK	KAB	2/26/2010									
REVIEW	KAB	2/26/2010									



200 0 200
Feet

LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW				
PROJECT														
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TITLE														
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LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW																																
PROJECT																																										
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TITLE																																										
100-YEAR FLOODPLAIN MAP																																										
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PROJECT No.		093-87744		FILE No.		09387744A007																																				
DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV. 0																																				
GIS	NRL	2/25/2010		FIGURE 4 16 of 24																																						
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REVIEW	KAB	2/26/2010																																								



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200 0 200
Feet

LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 4 17 of 24		
REVIEW			KAB 2/26/2010			



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LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

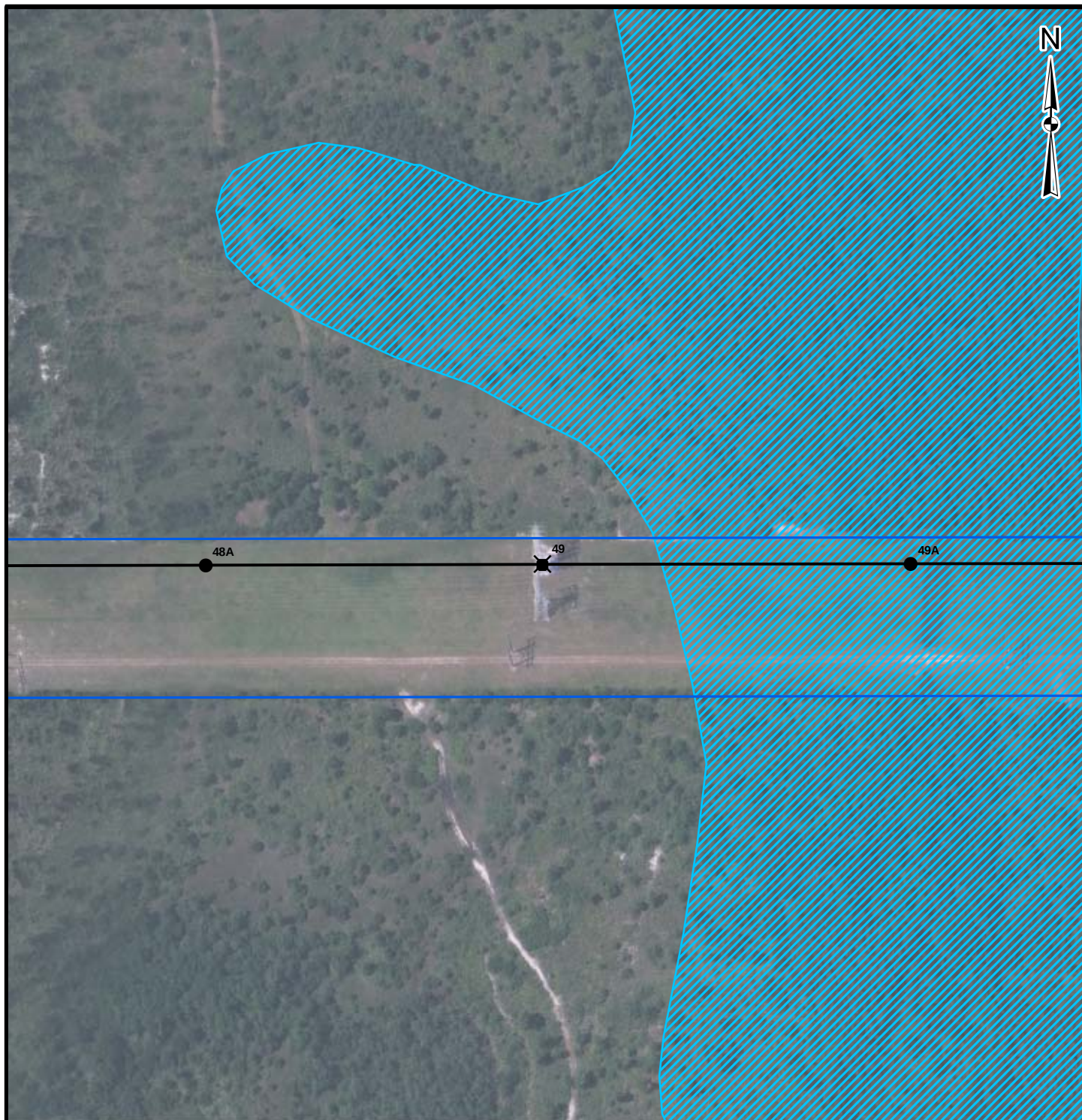
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW				
PROJECT												
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE												
TITLE												
100-YEAR FLOODPLAIN MAP												
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			REVIEW	KAB	2/26/2010							



Map Document: 09387744_A007_Floodplain.mxd / Modified 2/25/2010 9:36:32 AM / Plotted 2/26/2010 12:04:25 PM by riamar



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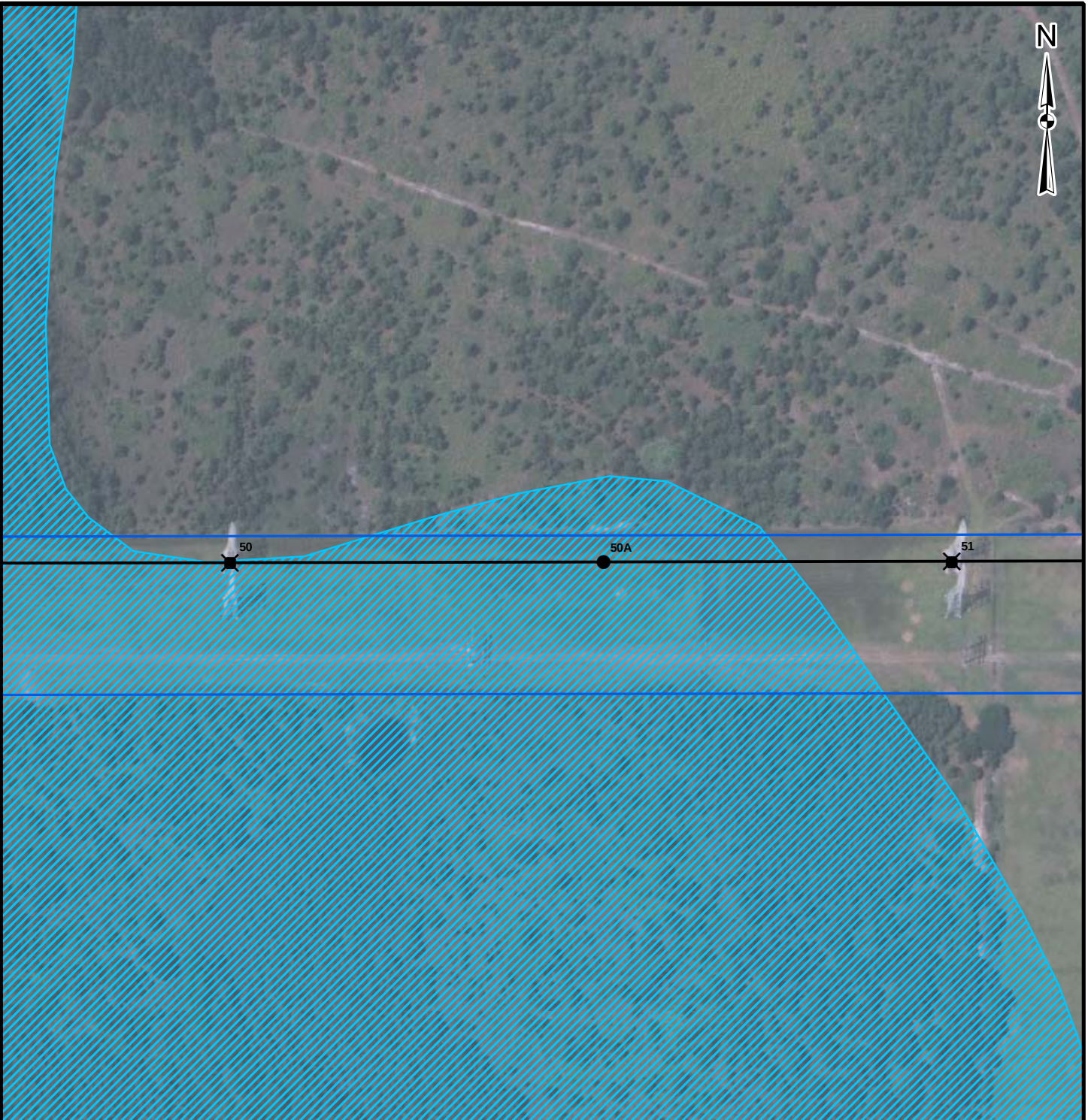
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW				
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ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE												
TITLE												
100-YEAR FLOODPLAIN MAP												
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			GIS	NRL	2/25/2010		FIGURE 4 19 of 24					
			CHECK	KAB	2/26/2010							
			REVIEW	KAB	2/26/2010							





LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW				
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ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE														
TITLE														
100-YEAR FLOODPLAIN MAP														
				PROJECT No.			093-87744			FILE No.		09387744A007		
				DESIGN		KAB		2/19/2010		SCALE: AS SHOWN			REV. 0	
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				CHECK		KAB		2/26/2010						
				REVIEW		KAB		2/26/2010						



PROJECT No.			093-87744			FILE No.			09387744A007		
DESIGN	KAB	2/19/2010		SCALE: AS SHOWN			REV.			0	
GIS	NRL	2/25/2010		FIGURE 4 20 of 24							
CHECK	KAB	2/26/2010									
REVIEW	KAB	2/26/2010									



LEGEND

-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

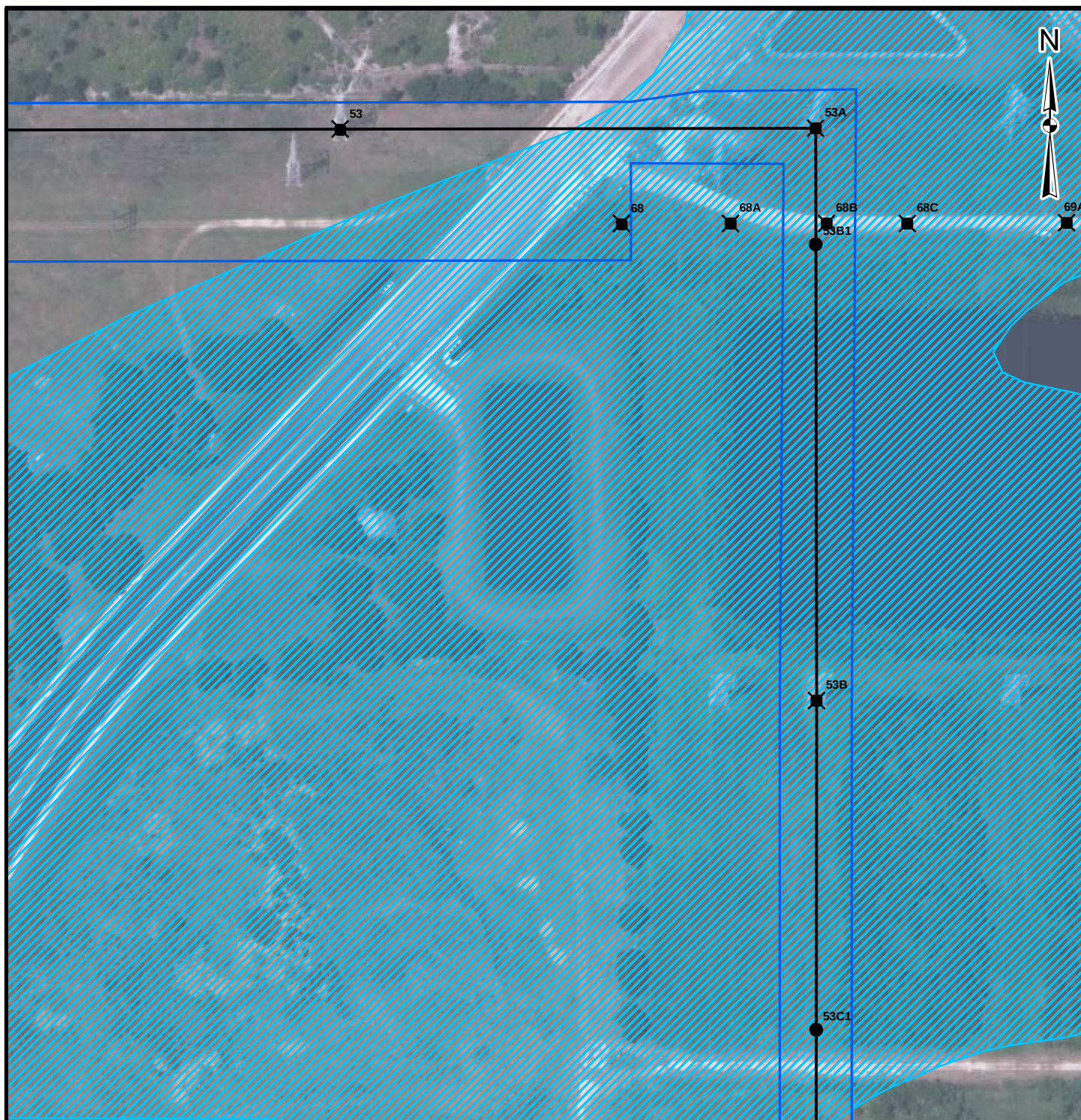
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	R/W			
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TITLE													
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				REVIEW	KAB	2/26/2010							



PROJECT No.			093-87744			FILE No.			09387744A007		
DESIGN	KAB	2/19/2010			SCALE: AS SHOWN			REV. 0			
GIS	NRL	2/25/2010			FIGURE 4 21 of 24						
CHECK	KAB	2/26/2010									
REVIEW	KAB	2/26/2010									



LEGEND

- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- ✕ Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 100-Year Floodplain

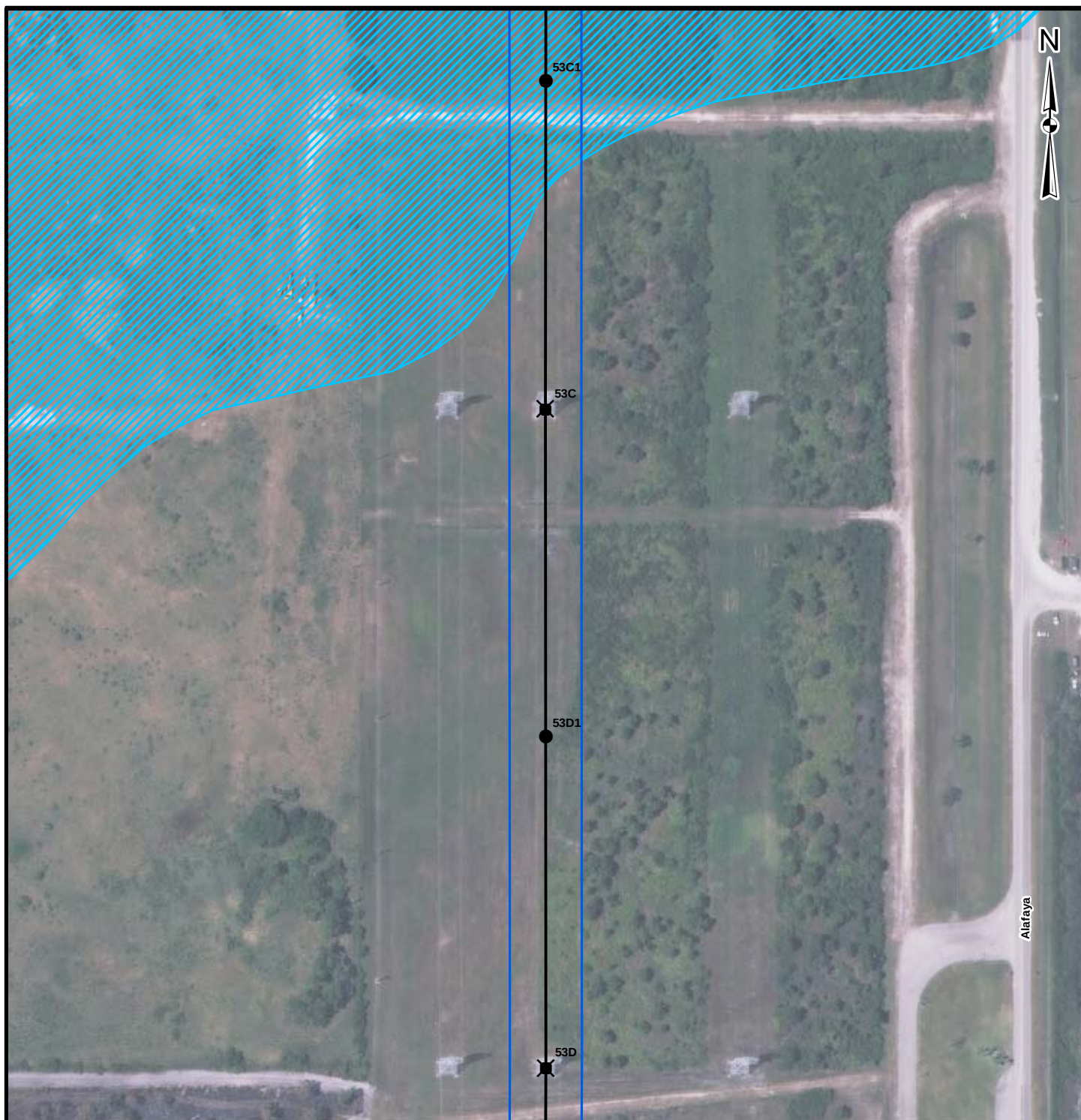
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW			
PROJECT											
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE											
TITLE											
100-YEAR FLOODPLAIN MAP											
 Golder Associates Gainesville, Florida			PROJECT No.		093-87744		FILE No.		09387744A007		
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV.		0
			GIS	NRL	2/25/2010		FIGURE 4 22 of 24				
			CHECK	KAB	2/26/2010						
			REVIEW	KAB	2/26/2010						



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Alafaya

200 0 200
Feet

LEGEND

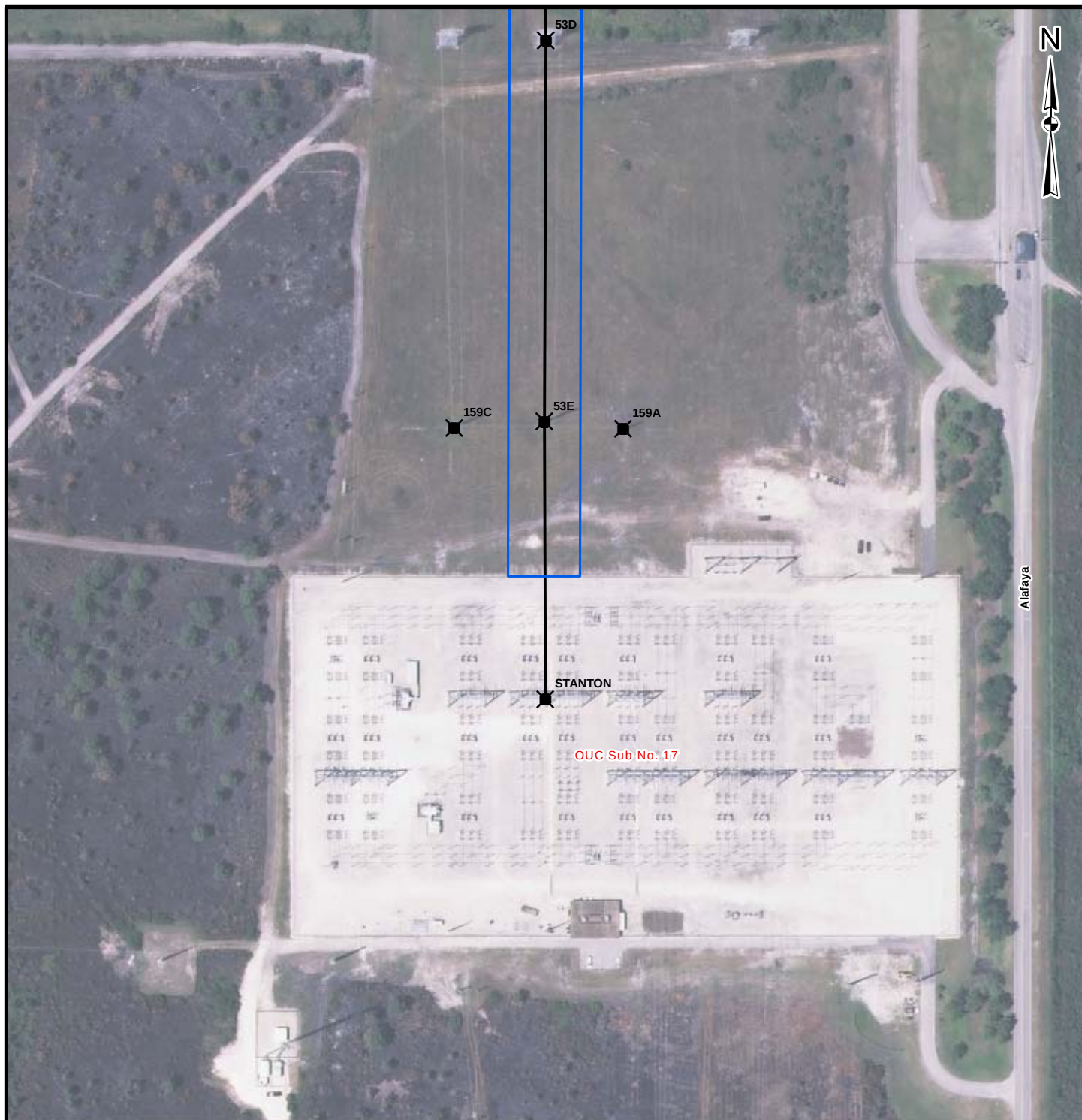
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
PROJECT No.		093-87744		FILE No.		09387744A007
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0	
GIS	NRL	2/25/2010	FIGURE 4 23 of 24			
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				





LEGEND

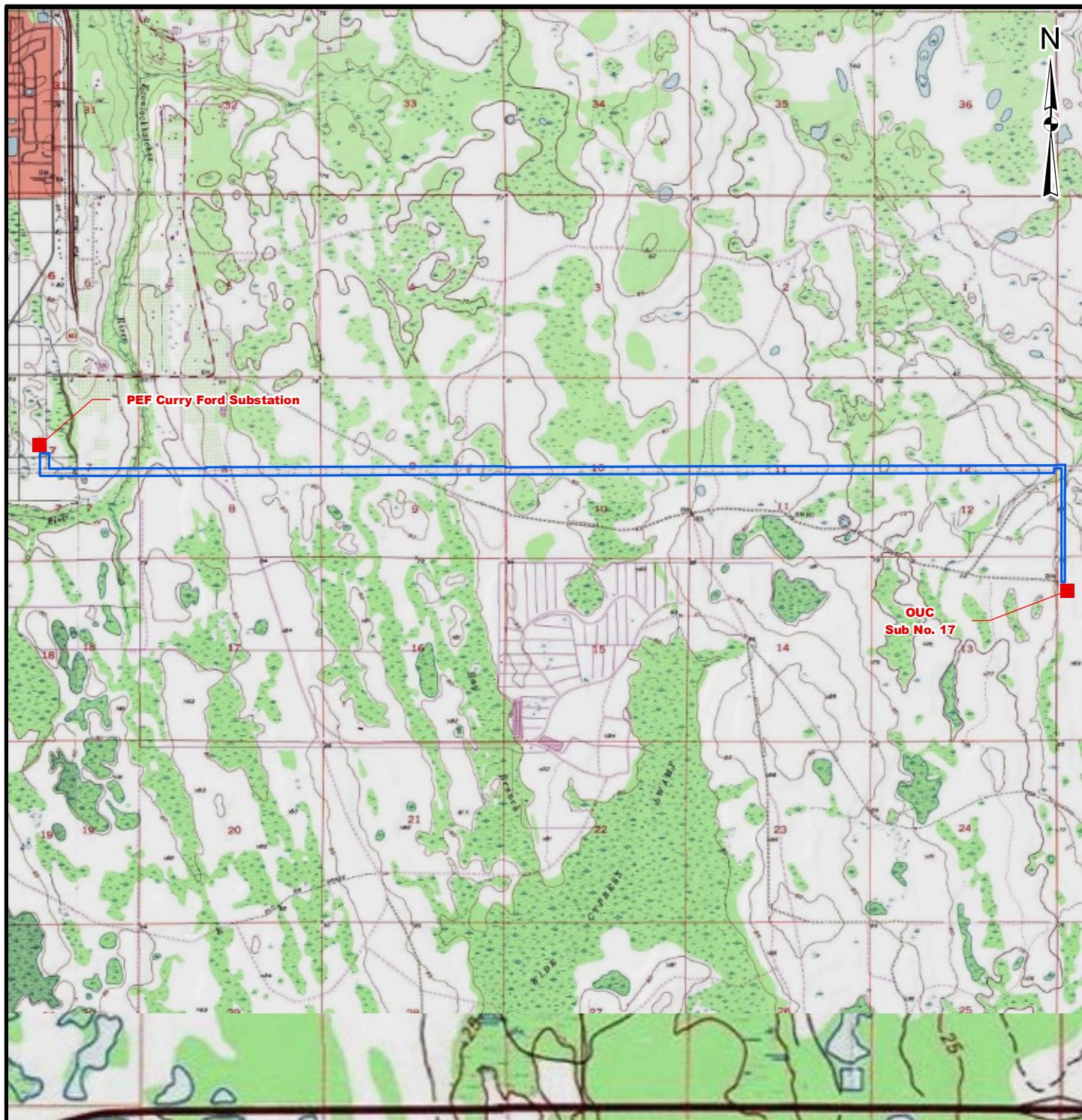
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 100-Year Floodplain

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. 100-Year Floodplain, FEMA, 2009.

200 0 200
Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
100-YEAR FLOODPLAIN MAP						
 Golder Associates Gainesville, Florida			PROJECT No.	093-87744	FILE No.	09387744A007
			DESIGN	KAB	2/19/2010	SCALE: AS SHOWN
			GIS	NRL	2/25/2010	REV. 0
			CHECK	KAB	2/26/2010	FIGURE 4 24 of 24
			REVIEW	KAB	2/26/2010	



4,200 0 4,200
Feet

LEGEND

- Substations
- 7-17PEF-Curry Ford Transmission Line Right-of-Way

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, OUC, 2010.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
USGS TOPOGRAPHIC MAP						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 5		
REVIEW			KAB 2/26/2010			





LEGEND

- | | | |
|---|-------------------------|-------------------|
| Substations | FNAI Occurrences | Florida Scrub-jay |
| 7-17PEF-Curry Ford Transmission Line Right-of-Way | Bald Eagle | Gopher Tortoise |
| Golder Observed Species | Celestial Lily | |
| Gopher Tortoise | Eastern Indigo Snake | |
| American Alligator | | |

REFERENCES

- 7-17PEF-Curry Ford Transmission Line Right-of-Way, OUC, 2010.
- Bald Eagle, Celestial Lily, Eastern Indigo Snake, Florida Scrub-jay, Gopher Tortoise, FNAI, 2006.
- Gopher Tortoise, American Alligator, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
SPECIES OCCURENCE MAP INDEX SHEET						
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GIS	NRL	2/25/2010	FIGURE 6 COVER SHEET			
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				



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LEGEND

- | | |
|---|--|
| — 7-17PEF-Curry Ford Transmission Centerline | Golder Observed Species |
| □ 7-17PEF-Curry Ford Transmission Line Right-of-Way |  Gopher Tortoise |
| ✕ Existing 230kV Transmission Structure |  American Alligator |
| ● New 230kV Transmission Structure | |

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Gopher Tortoise, American Alligator, Golder Associates Inc., 2009.

200 0 200 Feet

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW			
PROJECT											
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE											
TITLE											
SPECIES OCCURENCE MAP											
			PROJECT No.		093-87744		FILE No.		09387744A013		
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV.		0
			GIS	NRL	2/25/2010		FIGURE 6A				
			CHECK	KAB	2/26/2010						
			REVIEW	KAB	2/26/2010						





LEGEND

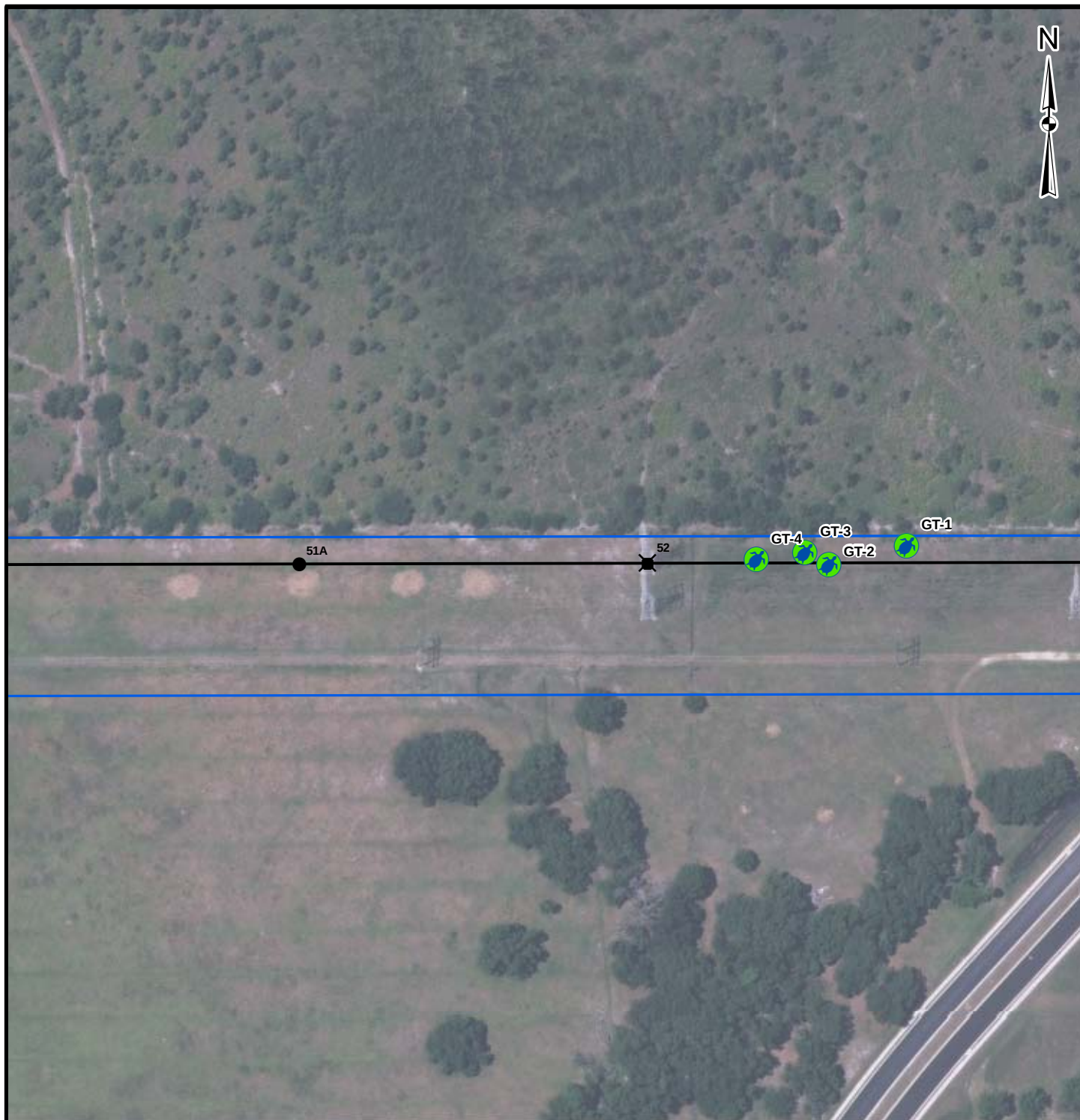
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|---|--------------------------------|
| — 7-17PEF-Curry Ford Transmission Centerline | Golder Observed Species |
| □ 7-17PEF-Curry Ford Transmission Line Right-of-Way | Gopher Tortoise |
| ✕ Existing 230kV Transmission Structure | American Alligator |
| ● New 230kV Transmission Structure | |

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Gopher Tortoise, American Alligator, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SPECIES OCCURENCE MAP						
PROJECT No. 093-87744			FILE No. 09387744A013			
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0	
GIS	NRL	2/25/2010	FIGURE 6B			
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				





LEGEND

- | | |
|---|--------------------------------|
| — 7-17PEF-Curry Ford Transmission Centerline | Golder Observed Species |
| □ 7-17PEF-Curry Ford Transmission Line Right-of-Way | Gopher Tortoise |
| ✕ Existing 230kV Transmission Structure | American Alligator |
| ● New 230kV Transmission Structure | |

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Gopher Tortoise, American Alligator, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
SPECIES OCCURENCE MAP						
PROJECT No.			093-87744	FILE No.		
DESIGN			KAB 2/19/2010	SCALE: AS SHOWN		
GIS			NRL 2/25/2010	REV. 0		
CHECK			KAB 2/26/2010	FIGURE 6C		
REVIEW			KAB 2/26/2010			



ATTACHMENT C
WETLAND SURVEY and LEGAL DESCRIPTION

SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION
OF
ORLANDO UTILITIES COMMISSION
OUC 7-17PEF - CURRY FORD 230kV TRANSMISSION LINE

SURVEYOR'S REPORT:

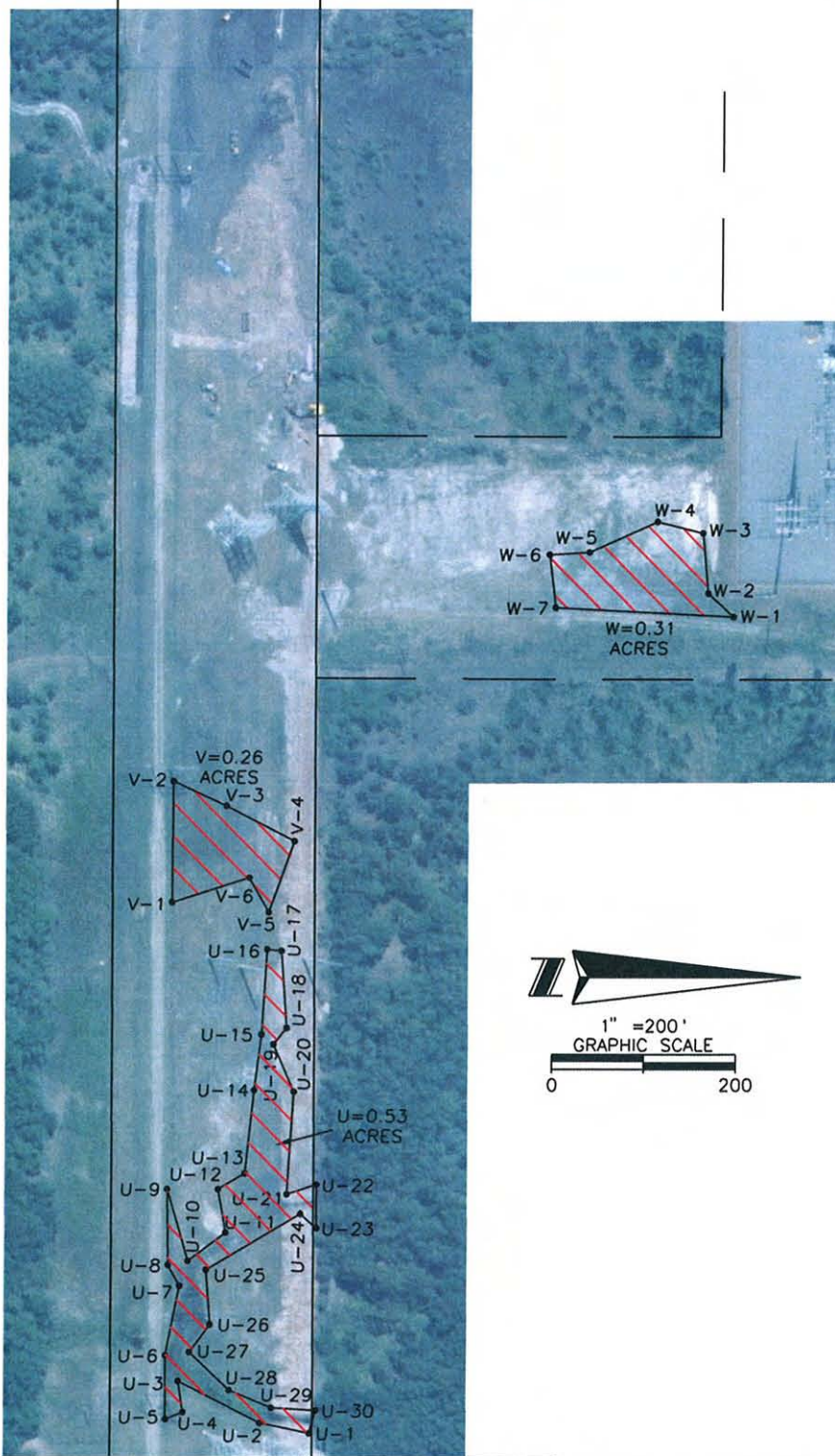
1. Measurement methods used for this survey meet MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING CH. 61G17-6 requirements.
2. Not valid without the signature and raised seal of a Florida Licensed Surveyor and Mapper.
3. Features shown by symbol as indicated in the legend are not to scale.
4. The electronic image of this map contains horizontal positions for all features shown relative to NAD 83/XX, State Plane Coordinate System, Florida East Zone.
5. This Survey was performed without benefit of an abstract, title search, title opinion or title commitment. A title search may reveal additional information affecting the Parcel as shown.
6. Unless shown, only those visible features in the immediate vicinity of the above described parcel boundary have been located.
7. The specific purpose of this survey is to show wetland jurisdictional delineation within the approximate location of the transmission line corridor.
8. The wetland jurisdictional delineation line as shown hereon was flagged by Golder Associates.

NOTICE OF LIABILITY:

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without express written consent of the surveyor.


GARY B. KRICK
REGISTERED LAND SURVEYOR NO. 4245

PROJECT TITLE: SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION ORLANDO UTILITIES COMMISSION OUC 7-17 PEF - CURRY FORD 230kV TRANSMISSION LINE	REVISIONS		DRAWN BY: REJ	CHECKED BY: CBvG		
	DATE	BY	DESCRIPTION	DATE: 12/24/09	DATE: 12/30/09	
				DRAWING NUMBER:	SCALE:	SHEET 1
				54875001	1" = 200'	OF 12
PREPARED BY:  SOUTHEASTERN SURVEYING & MAPPING CORP. 6500 All American Boulevard Orlando, Florida 32810-4350 (407)292-8580 fax(407)292-0141 Cert. No. LB-2108 email: info@southeasternsurveying.com PREPARED FOR:  Golder Associates 6026 NW 1st Place Gainesville, Florida 31607 (325)336-5600						



MATCHLINE "A"

SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:
SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS		
DATE	BY	DESCRIPTION

DRAWN BY: REJ	CHECKED BY: CBvG
DATE: 12/24/09	DATE: 12/30/09
DRAWING NUMBER: 54875002	SCALE: 1" = 200'
	SHEET 2 OF 12

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PREPARED FOR:

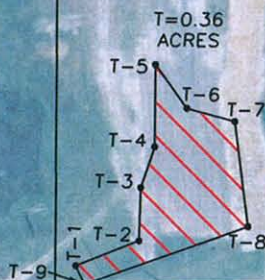
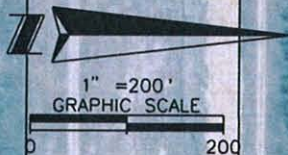


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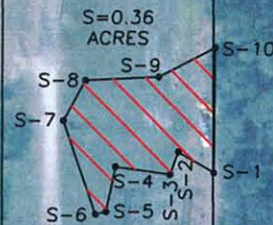
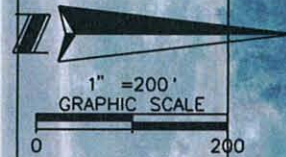


MATCHLINE "A"

MATCHLINE "B"



MATCHLINE "B"



MATCHLINE "C"

SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:

SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBvG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 3

54875003

1" = 200'

OF 12

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PREPARED FOR:



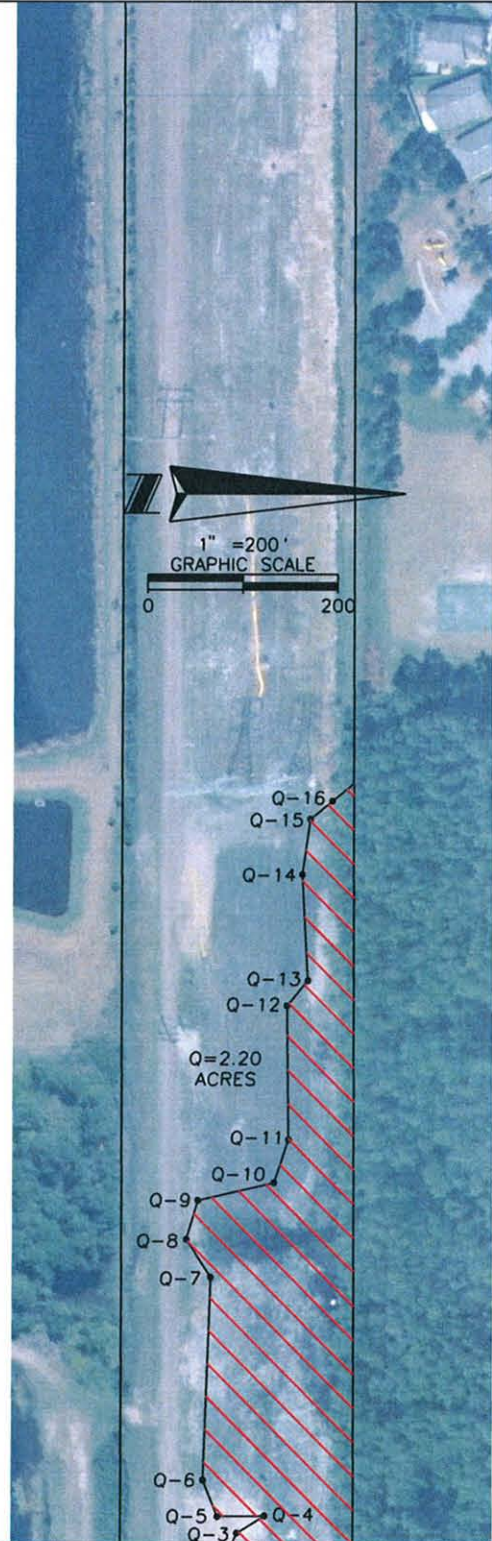
Golder Associates
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Gainesville, Florida 31607
(325)336-5600

MATCHLINE "C"



MATCHLINE "D"

MATCHLINE "D"



MATCHLINE "E"

SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:

SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBvG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 4

54875004

1" = 200'

OF 12

PREPARED BY:



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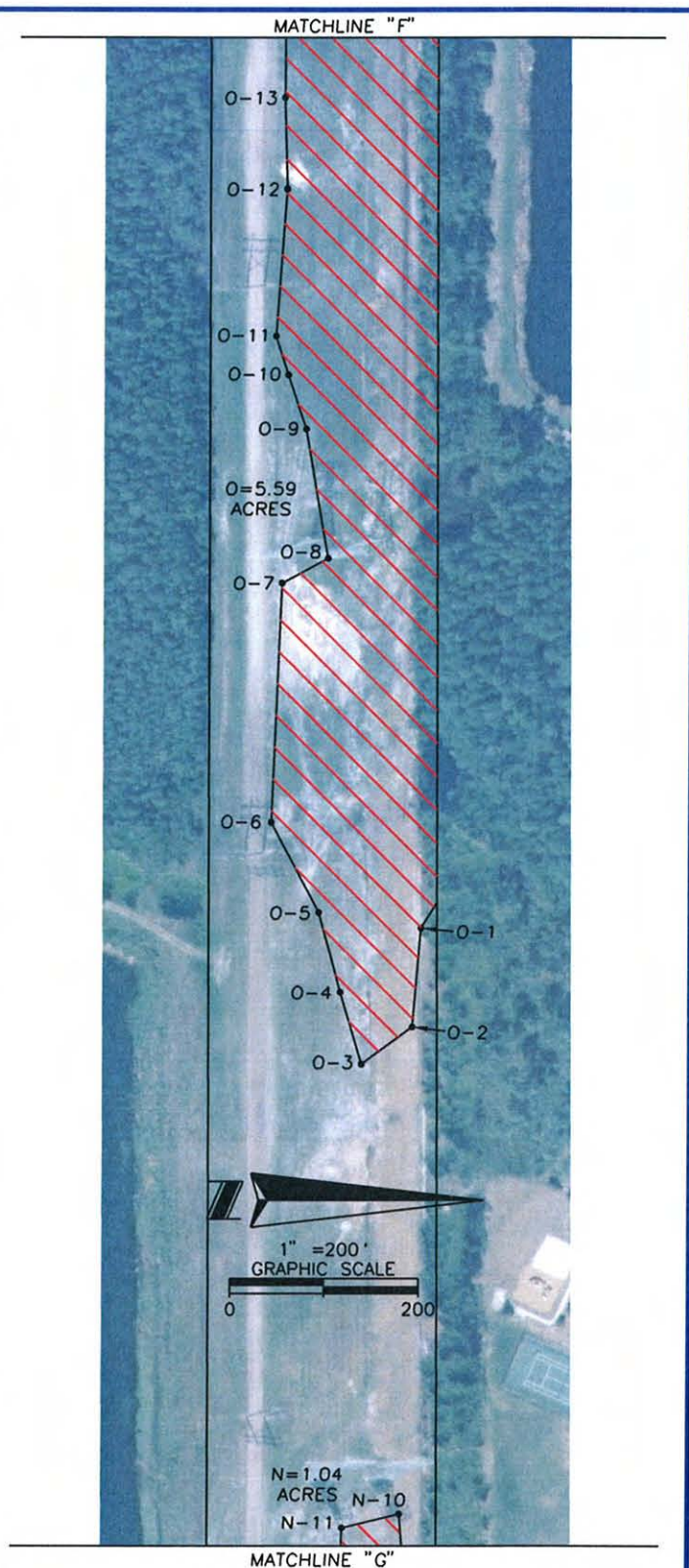
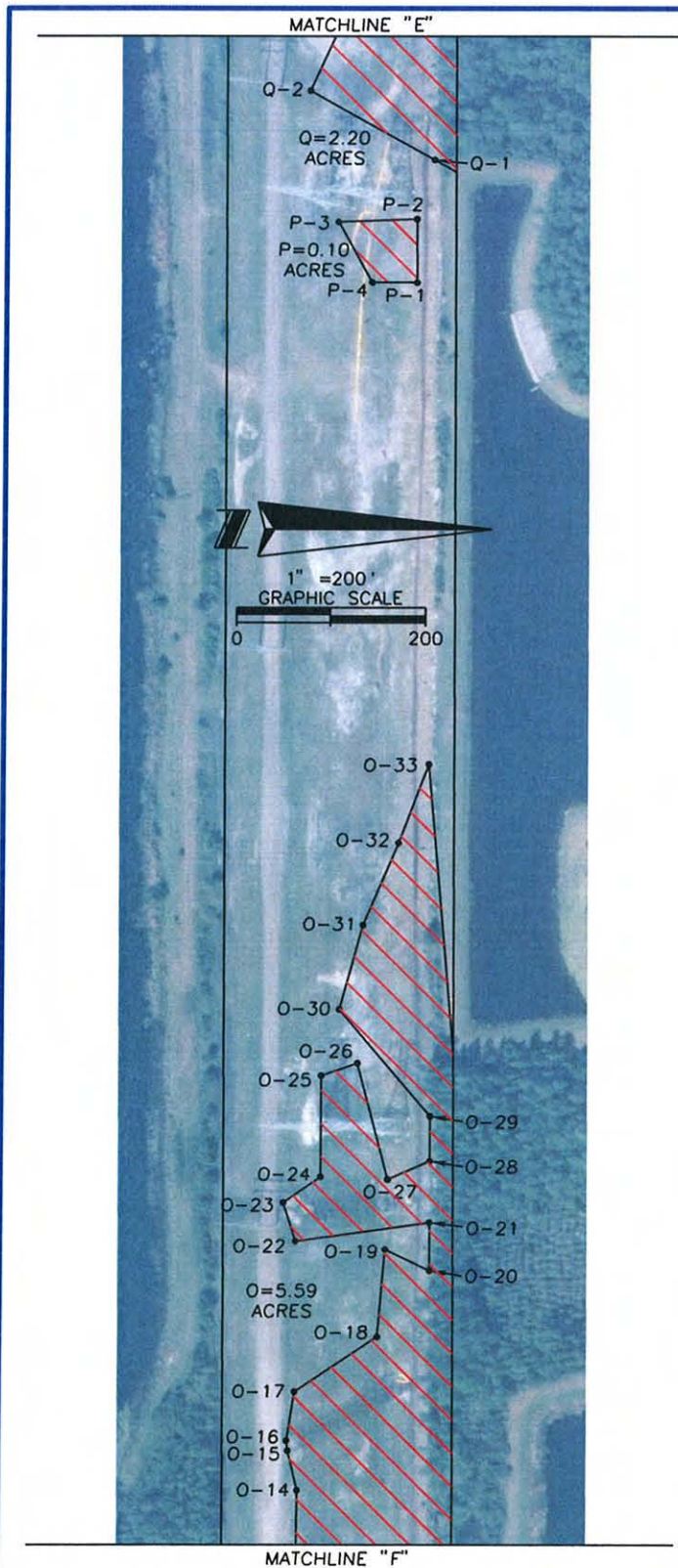
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(407)292-8580 fax(407)292-0141
Cert. No. LB-2108

email: info@southeasternsurveying.com

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PROJECT TITLE:
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JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBvG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 5

54875005

1" = 200'

OF 12

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email: info@southeasternsurveying.com

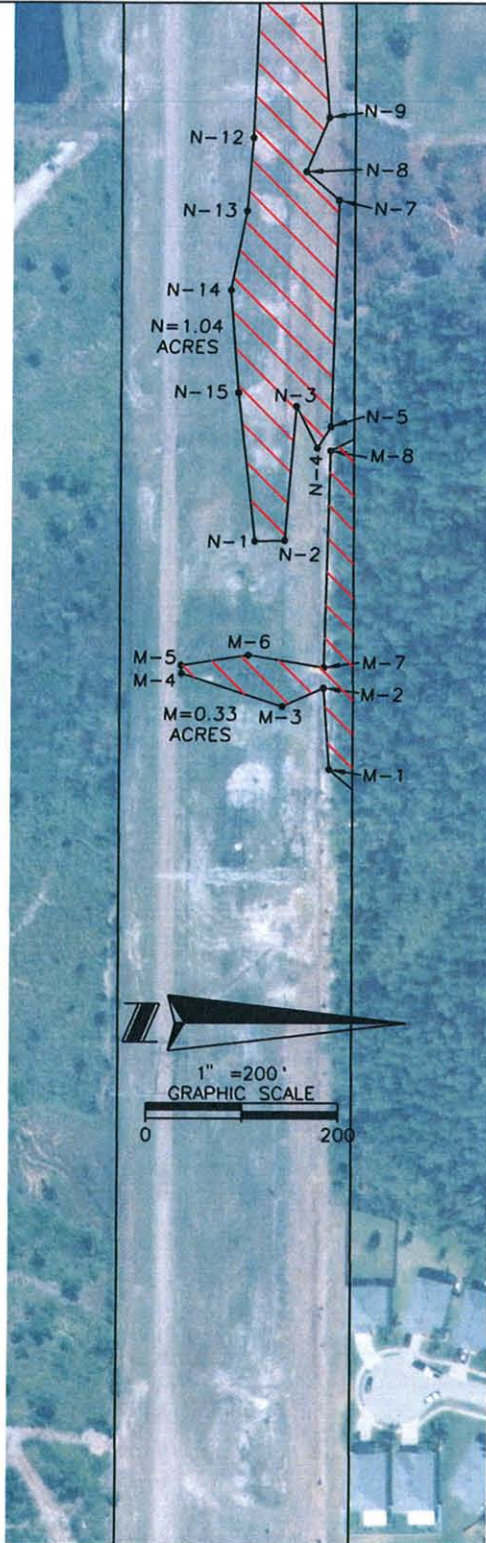
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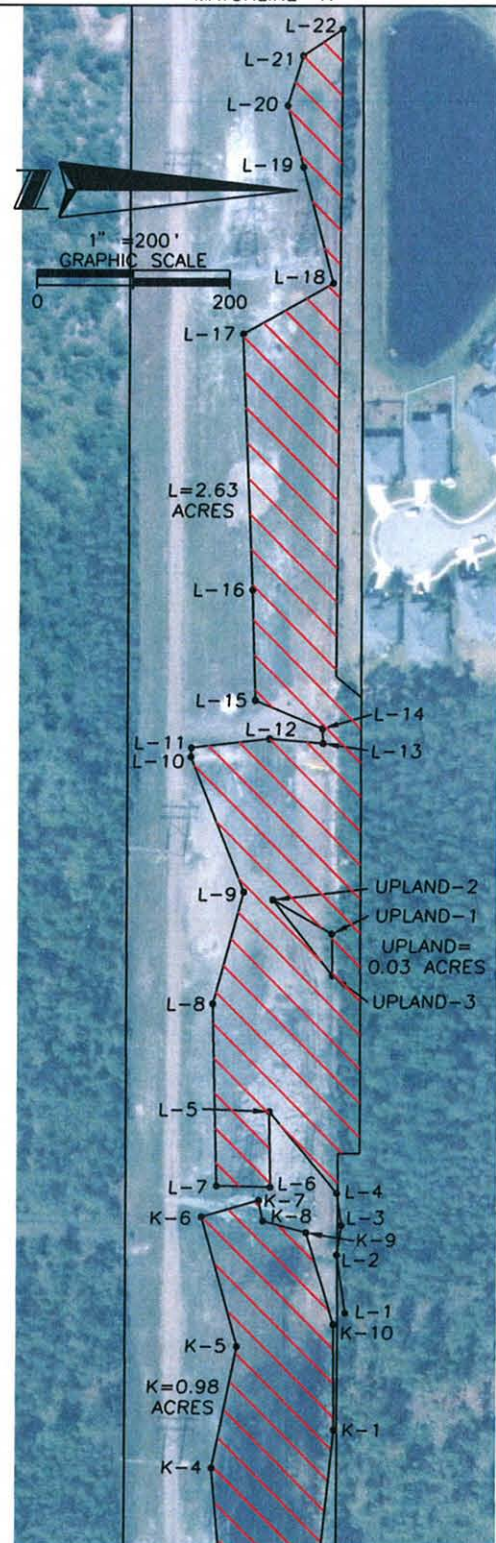


MATCHLINE "G"



MATCHLINE "H"

MATCHLINE "H"



MATCHLINE "I"

SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:

SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBvG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 6

54875006

1" = 200'

OF 12

PREPARED BY:



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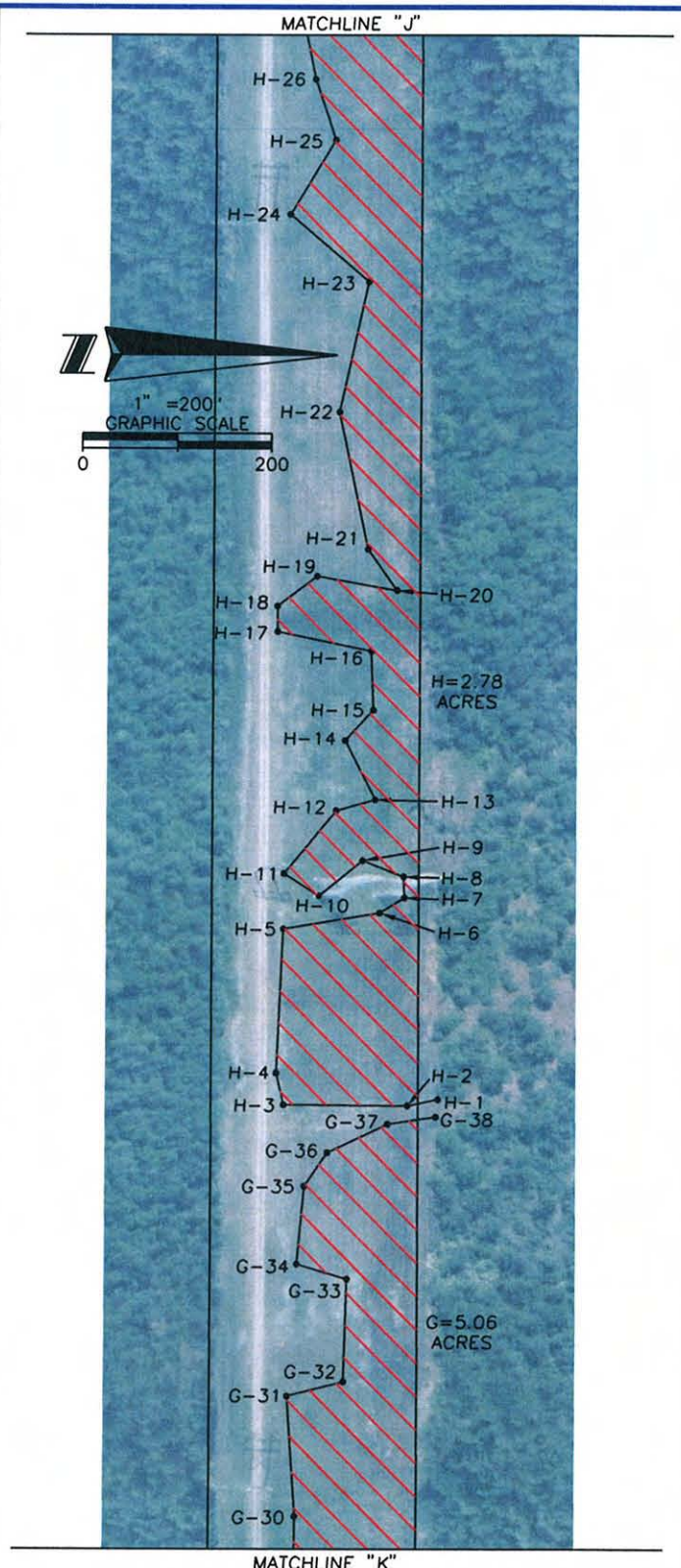
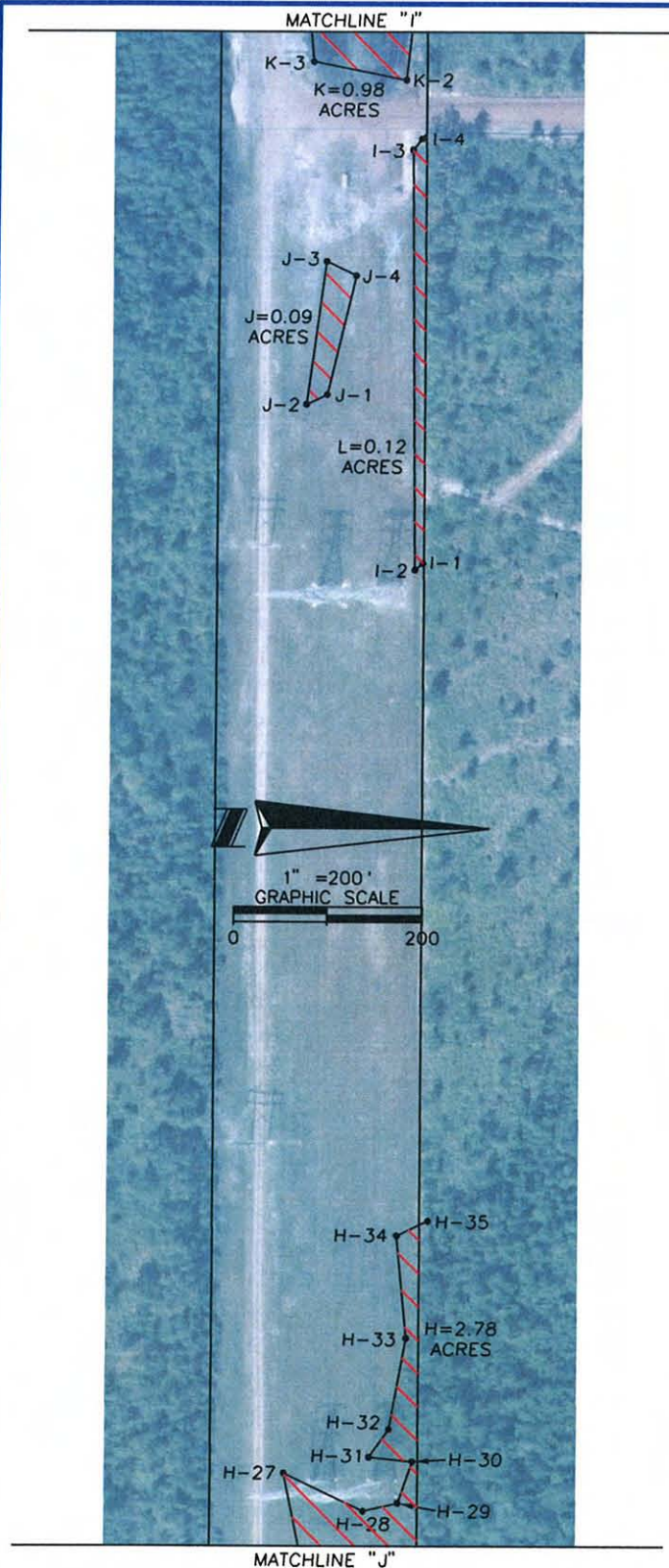
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SPECIFIC PURPOSE SURVEY OF WETLAND
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OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS		
DATE	BY	DESCRIPTION

DRAWN BY: REJ	CHECKED BY: CBvG
DATE: 12/24/09	DATE: 12/30/09
DRAWING NUMBER: 54875007	SCALE: 1" = 200'
	SHEET 7 OF 12

PREPARED BY:



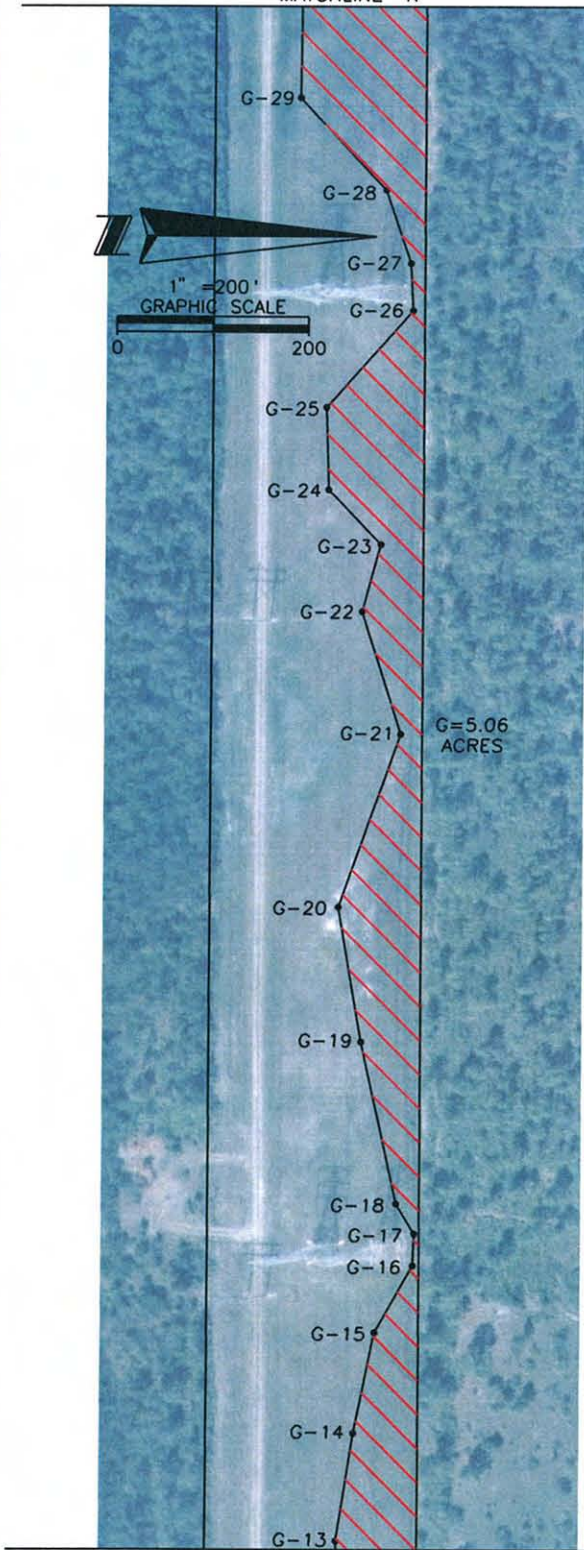
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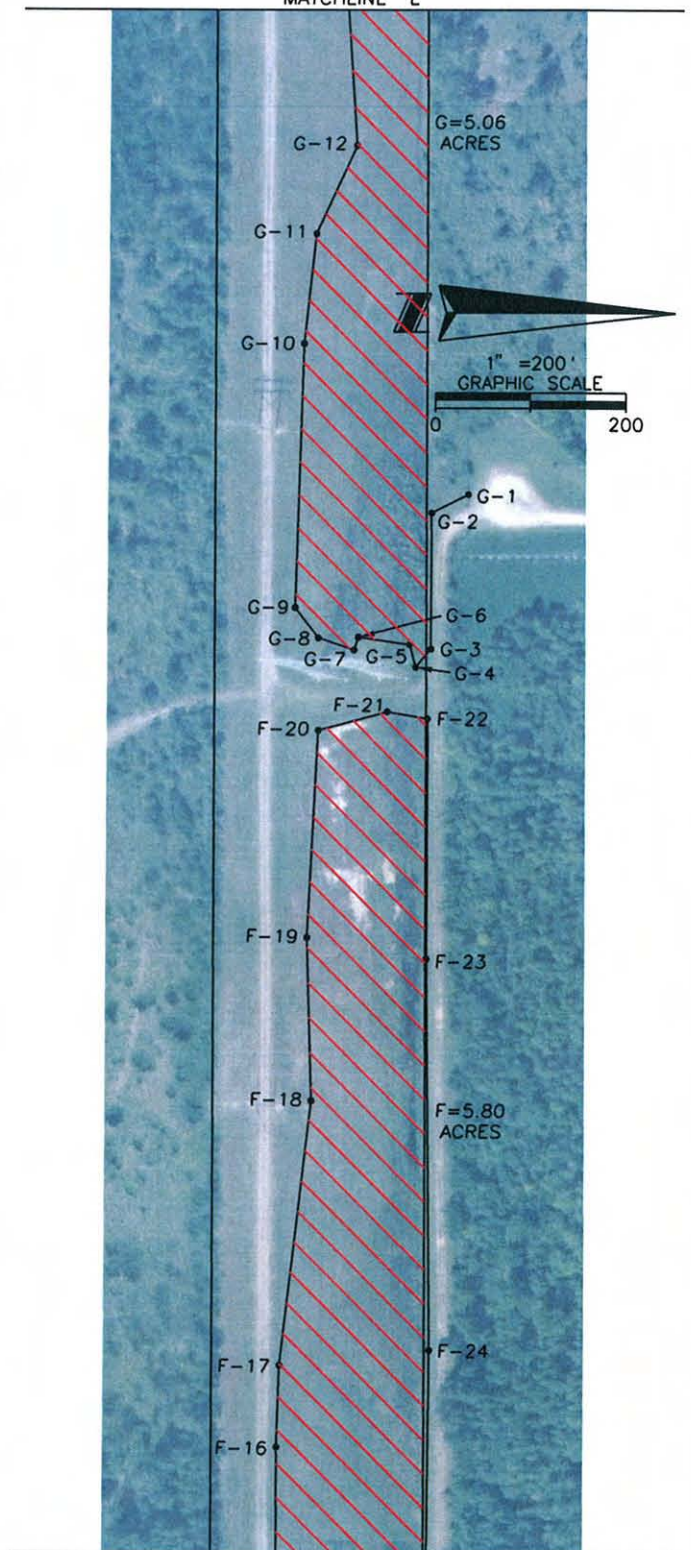
Golder Associates
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MATCHLINE "K"



MATCHLINE "L"

MATCHLINE "L"



MATCHLINE "M"

SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:

SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBvG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 8

54875008

1" = 200'

OF 12

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MATCHLINE "M"

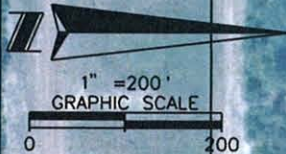
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F-15 F-25
F-26
F-27
F-28

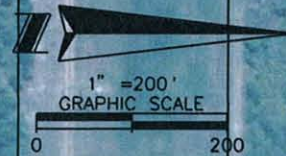
F-14 F-1
F-2
F-3

F-13 F=5.80
ACRES

F-12 F-4
F-11 F-5
F-10 F-6
F-9 F-7
F-8



MATCHLINE "N"



MATCHLINE "O"

SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:

SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBvG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 9

54875009

1" = 200'

OF 12

PREPARED BY:



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Cert. No. LB-2108

email: info@southeasternsurveying.com

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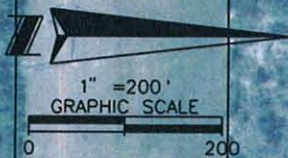


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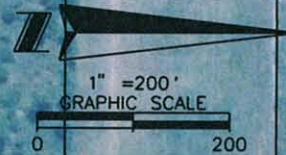
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MATCHLINE "P"

E-16 E-17
E-14
E-13
E-12
E-11
E=0.84
ACRES
E-8
E-7
E-6
E-5
E-4
E-3
E-2
D-4
D-5
D-6
D=0.06
ACRES
D-3
D-2
D-1



MATCHLINE "P"



C-25 C-26
C-23 C-24
C-22
C-21
C-20
C-19
C-18
C-17
C-16
C=2.23
ACRES
C-15
C-14
C-13
C-12
C-11

MATCHLINE "Q"

SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:

SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBvG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 10

54875010

1" = 200'

OF 12

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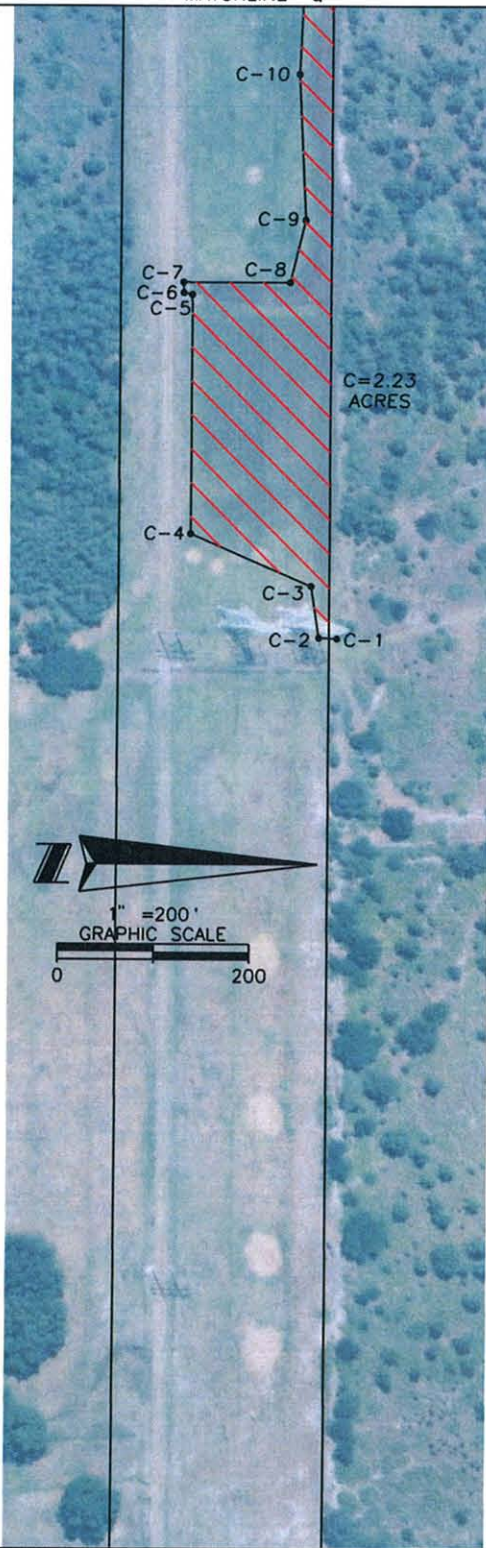
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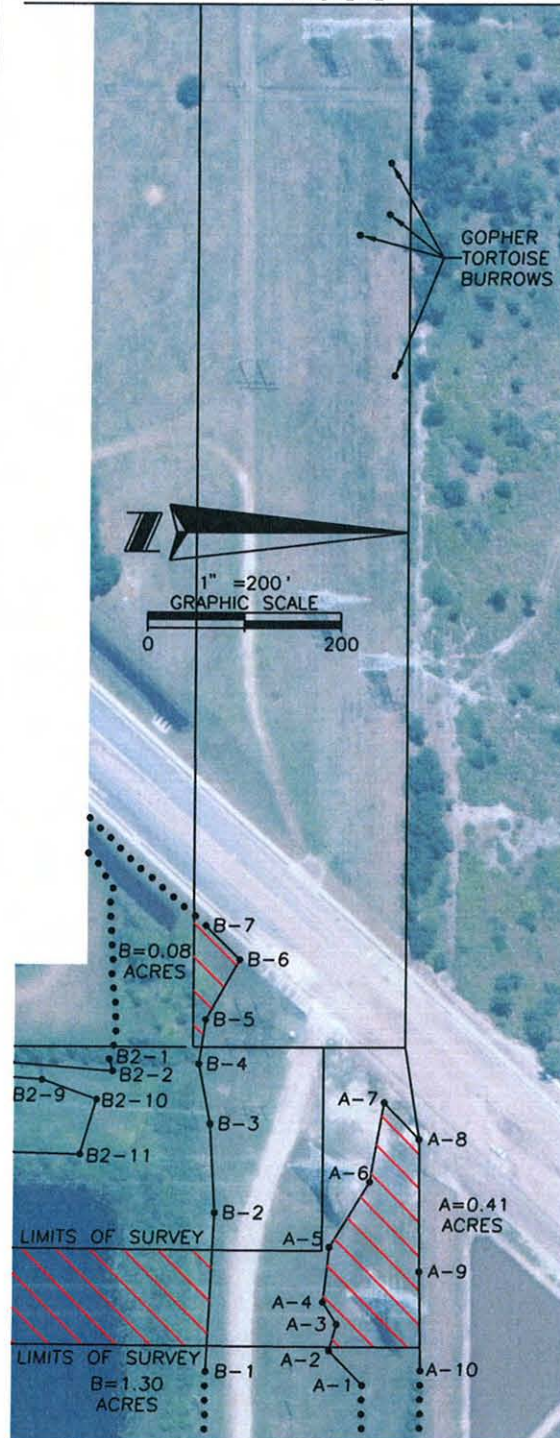
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Gainesville, Florida 31607
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MATCHLINE "Q"



MATCHLINE "R"

MATCHLINE "R"



MATCHLINE "S"

SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:

SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBvG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 11

54875011

1" = 200'

OF 12

PREPARED BY:



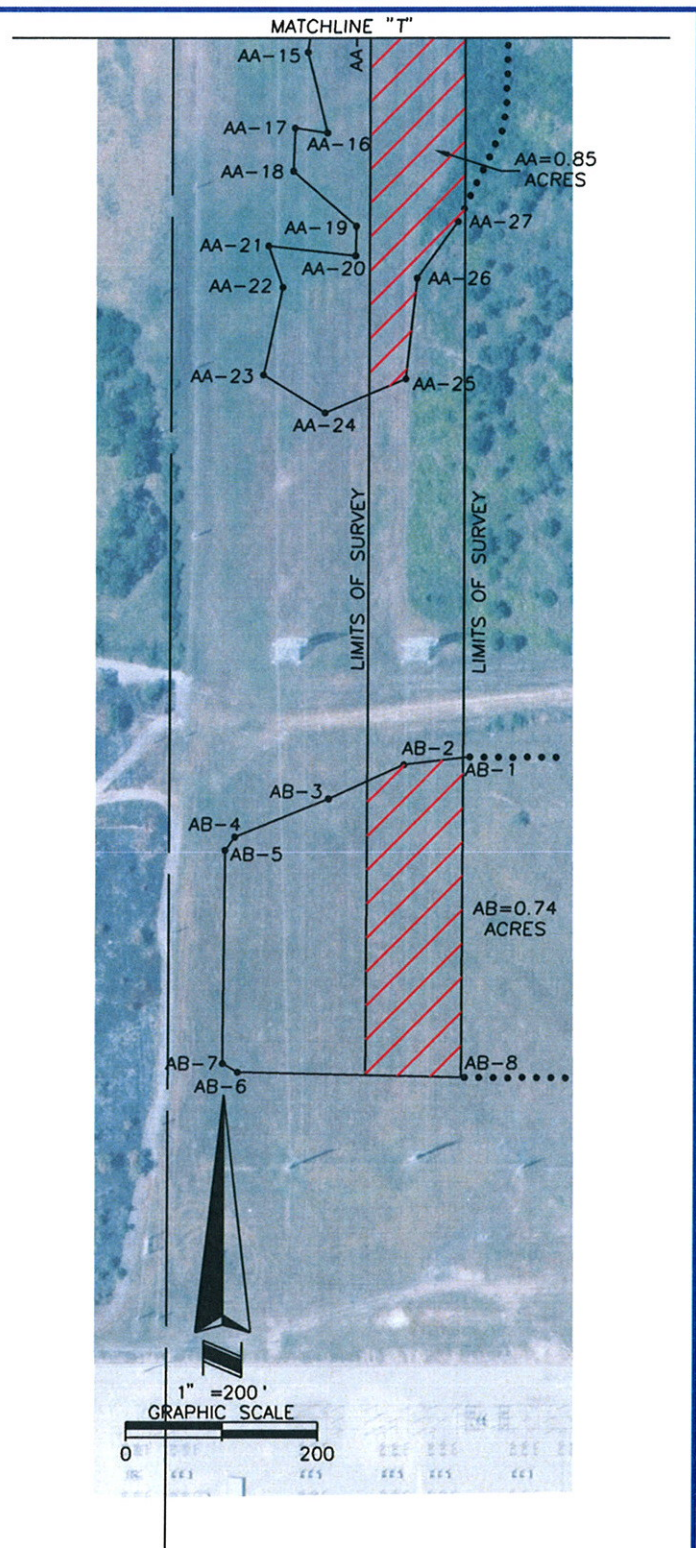
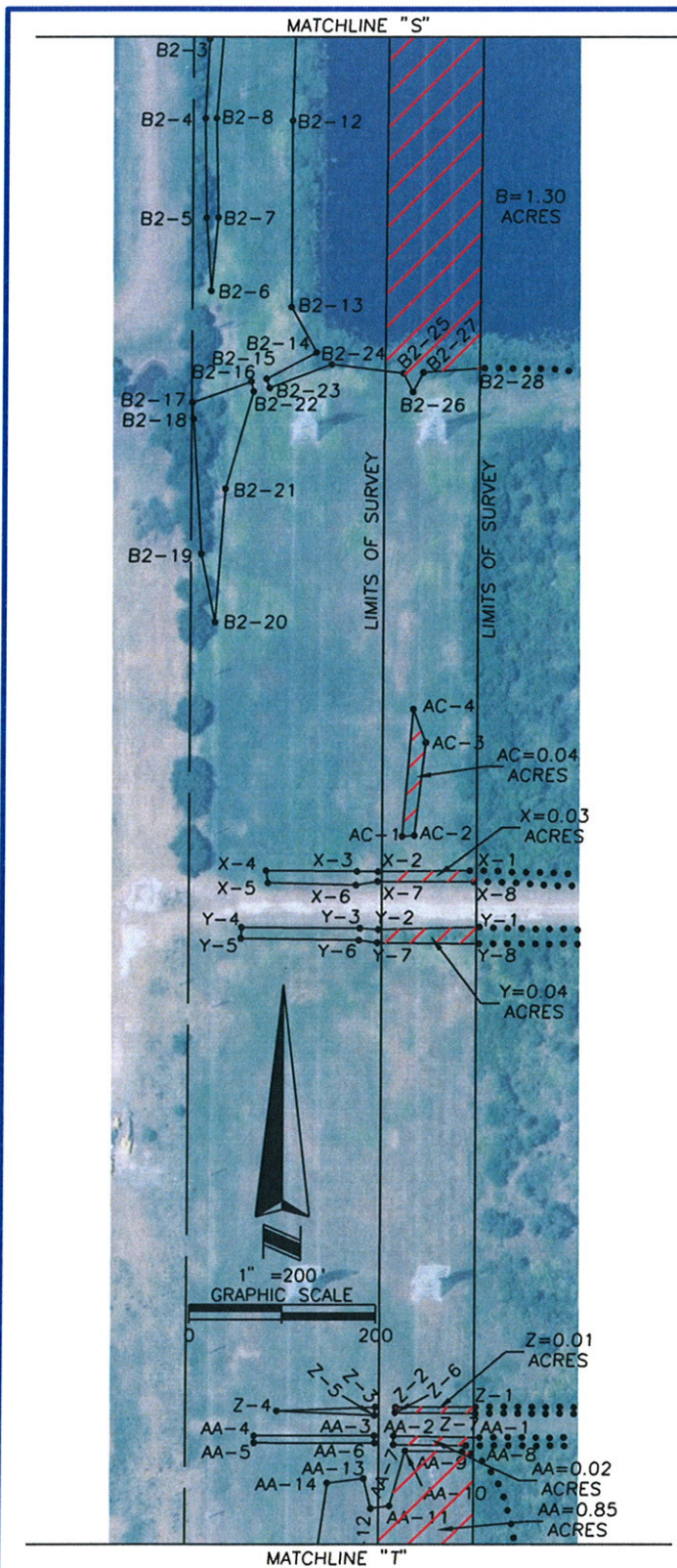
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(407)292-8580 fax(407)292-0141
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email: info@southeasternsurveying.com

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SEE SHEET 1 FOR NOTES AND LEGEND

PROJECT TITLE:
SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION
OUC 7-17 PEF - CURRY FORD
230kV TRANSMISSION LINE

REVISIONS

DATE	BY	DESCRIPTION

DRAWN BY: REJ

CHECKED BY: CBVG

DATE: 12/24/09

DATE: 12/30/09

DRAWING NUMBER:

SCALE:

SHEET 12

54875012

1" = 200'

OF 12

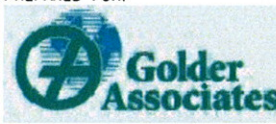
PREPARED BY:

SOUTHEASTERN SURVEYING & MAPPING CORP.

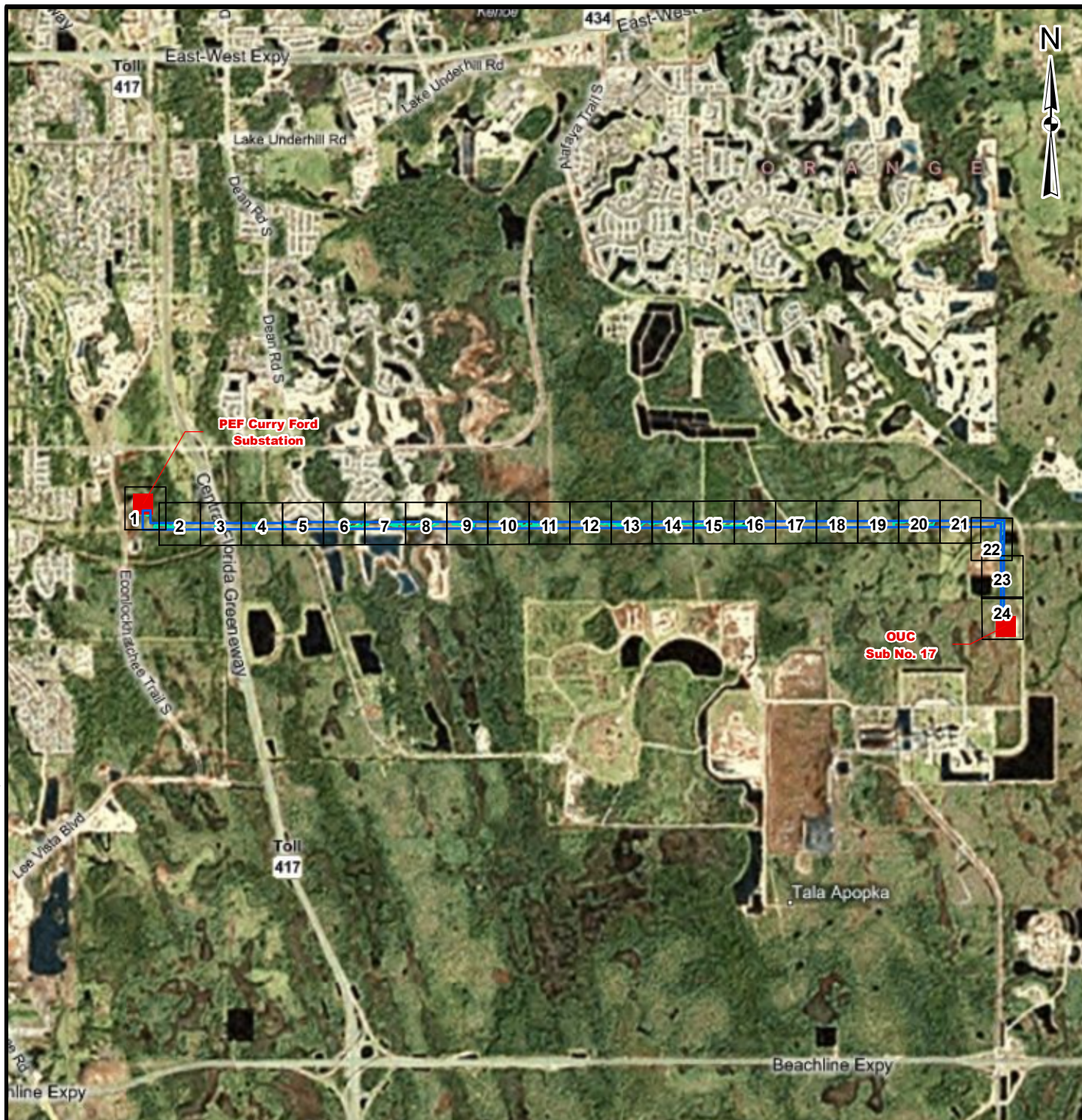
PREPARED FOR:



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email: info@southeasternsurveying.com



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LEGEND

- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Substations
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.



REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW	
PROJECT											
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE											
TITLE											
WETLANDS MAP INDEX SHEET											
 Golder Associates Gainesville, Florida			PROJECT No.		093-87744		FILE No.		09387744A012		
			DESIGN	KAB	2/19/2010		SCALE: AS SHOWN		REV.		0
			GIS	NRL	2/25/2010		FIGURE 7 COVER SHEET				
			CHECK	KAB	2/26/2010						
			REVIEW	KAB	2/26/2010						



Map Document: 09387744_A011_WetlandsMaps.mxd / Modified 2/25/2010 11:01:19 AM / Plotted 2/26/2010 12:08:21 PM by flamar



LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						
TITLE						
WETLANDS MAP						
PROJECT No.		093-87744		FILE No.		09387744A011
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0	
GIS	NRL	2/25/2010				
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				



FIGURE 7
1 of 24



LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

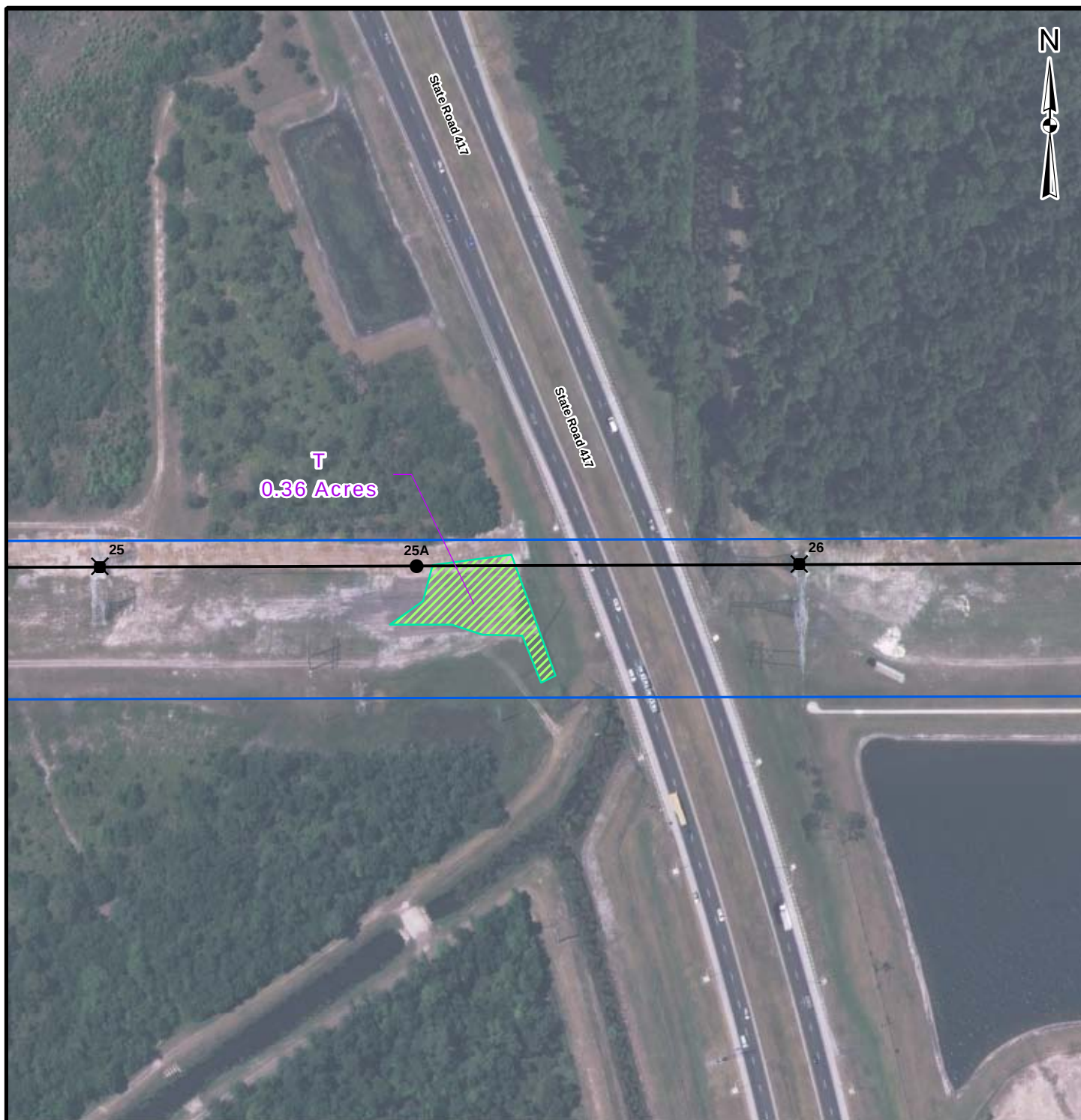
REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						

TITLE						
WETLANDS MAP						



PROJECT No. 093-87744			FILE No. 09387744A011		
DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	REV.	0
GIS	NRL	2/25/2010	FIGURE 7 2 of 24		
CHECK	KAB	2/26/2010			
REVIEW	KAB	2/26/2010			



LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

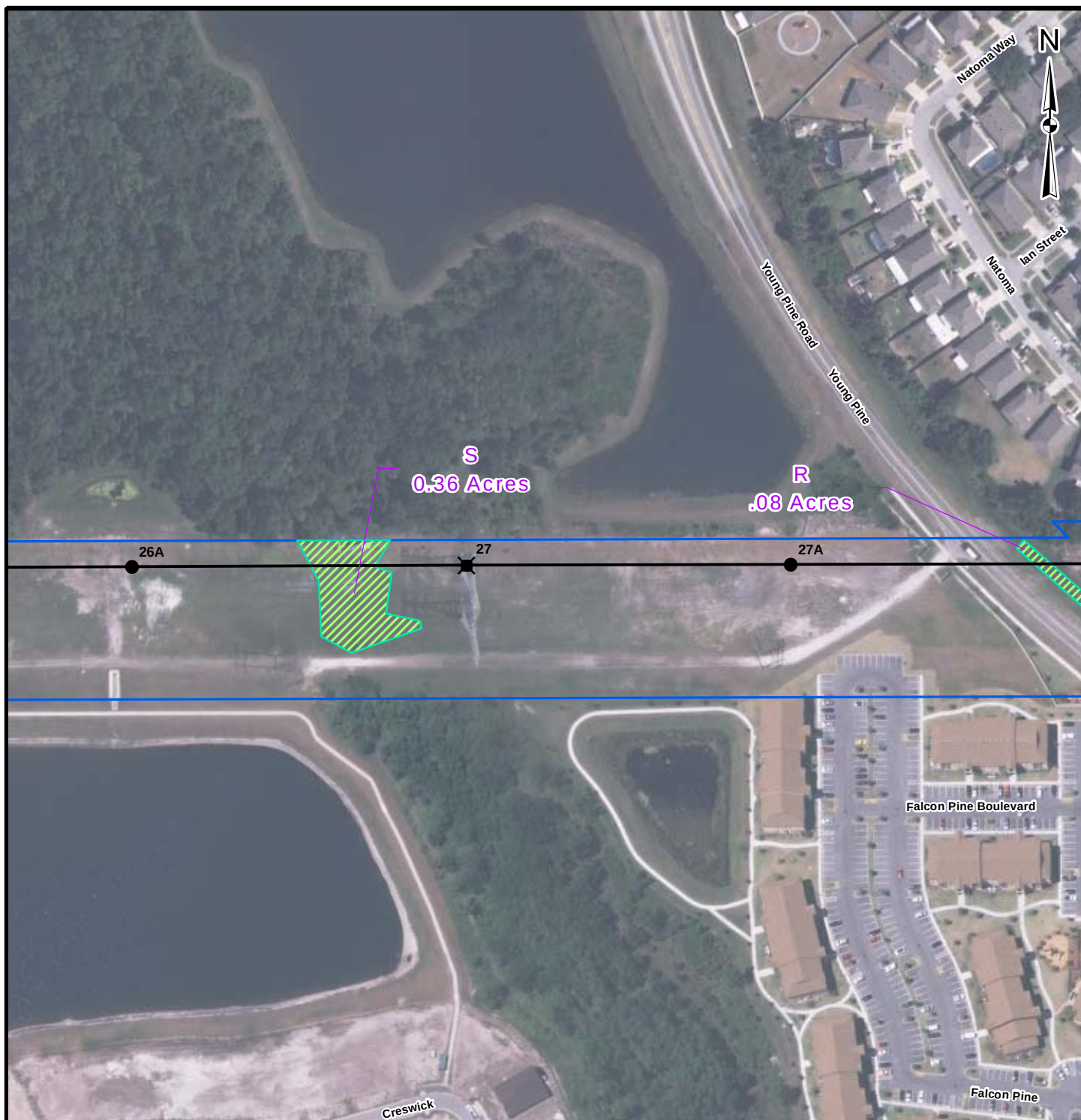
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW			
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TITLE											
WETLANDS MAP											
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LEGEND

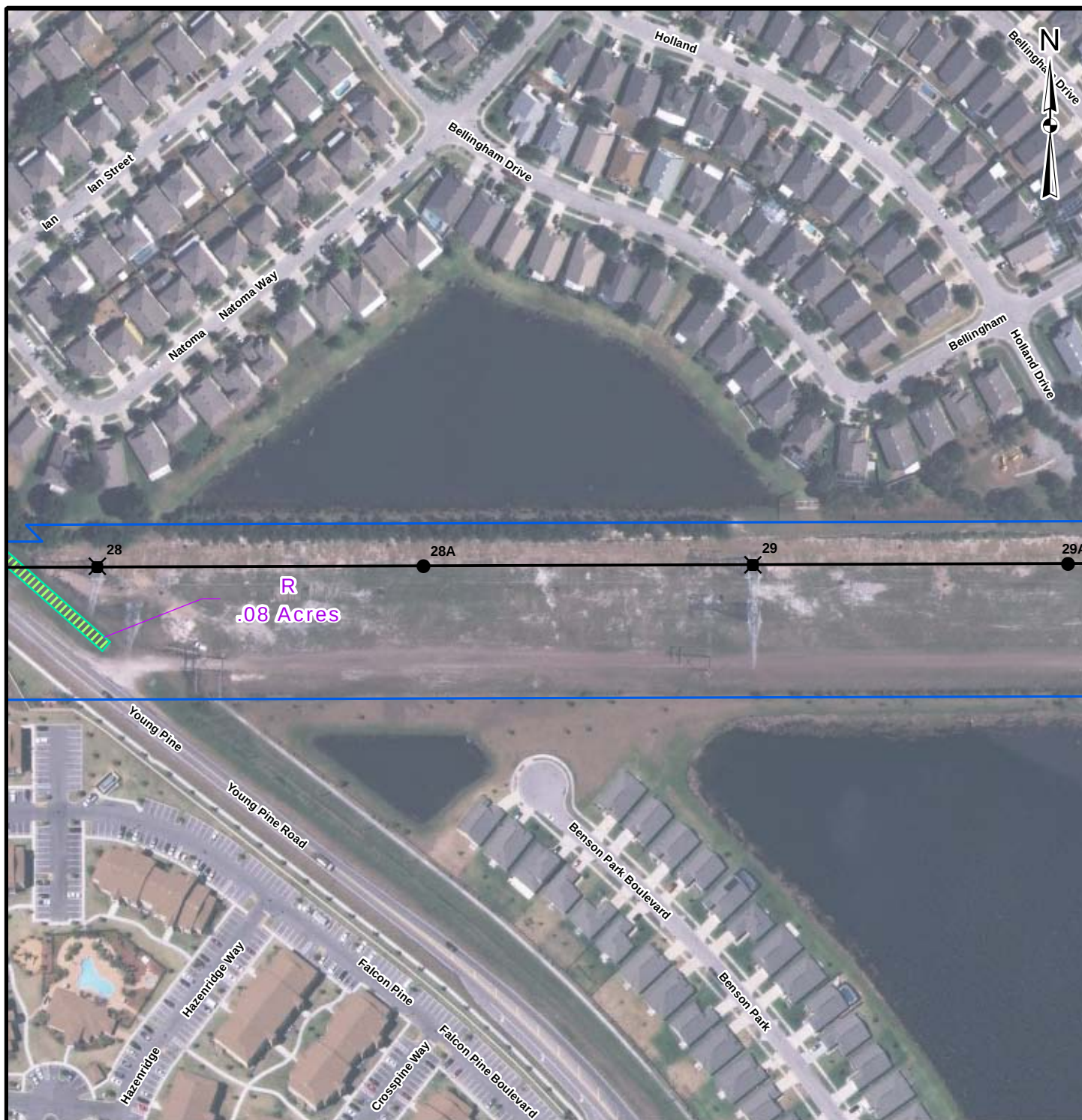
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RWV
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ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
WETLANDS MAP						
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CHECK			KAB 2/26/2010	FIGURE 7 4 of 24		
REVIEW			KAB 2/26/2010			





LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RWV		
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TITLE												
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			REVIEW		KAB	2/26/2010						





LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RWV	
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TITLE											
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			CHECK	KAB	2/26/2010						
			REVIEW	KAB	2/26/2010						





LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS CHK RWW		
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TITLE								
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			CHECK	KAB	2/26/2010			
			REVIEW	KAB	2/26/2010			





LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

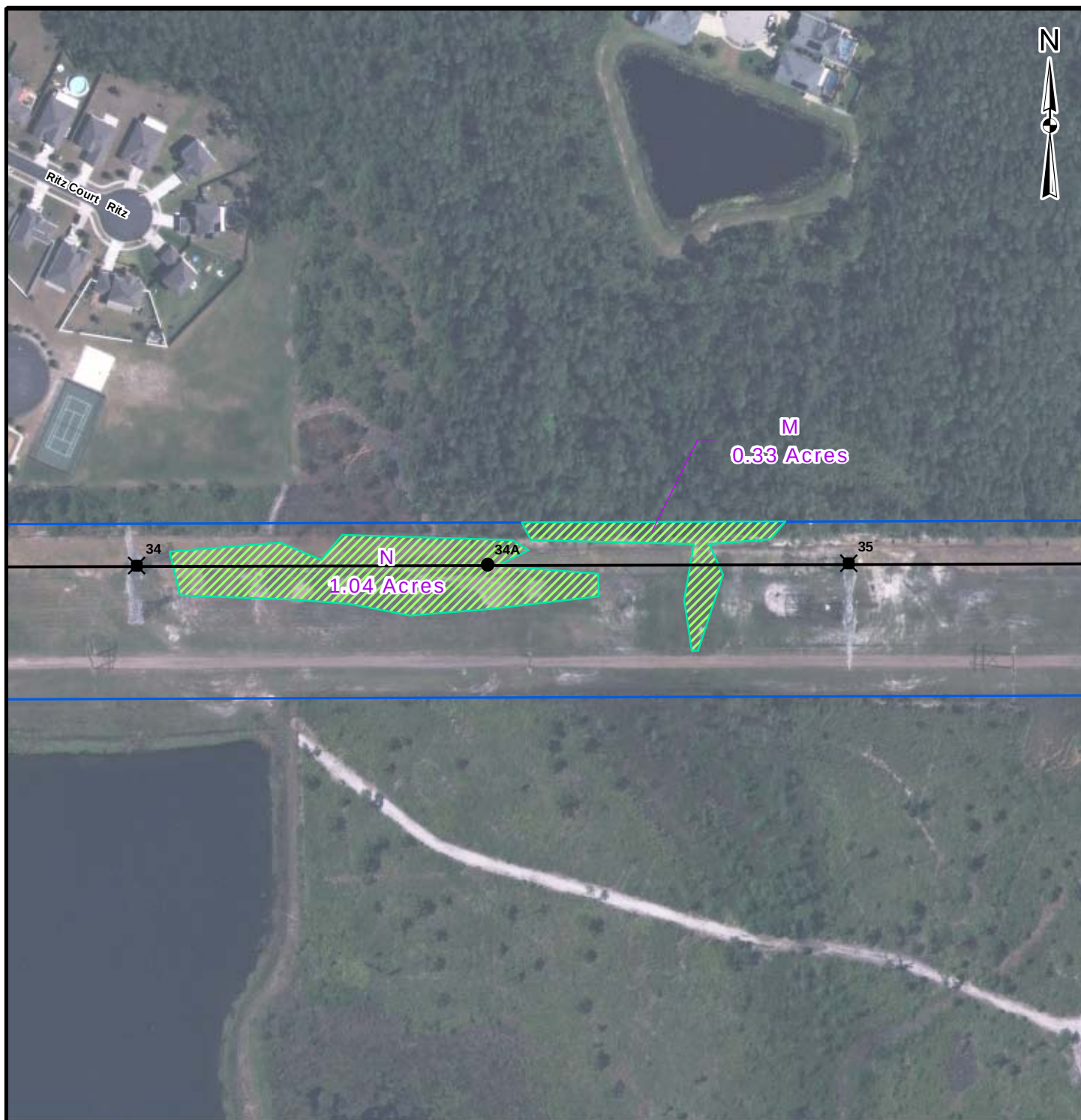
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.



REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW	
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TITLE									
WETLANDS MAP									
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REVIEW	KAB	2/26/2010							





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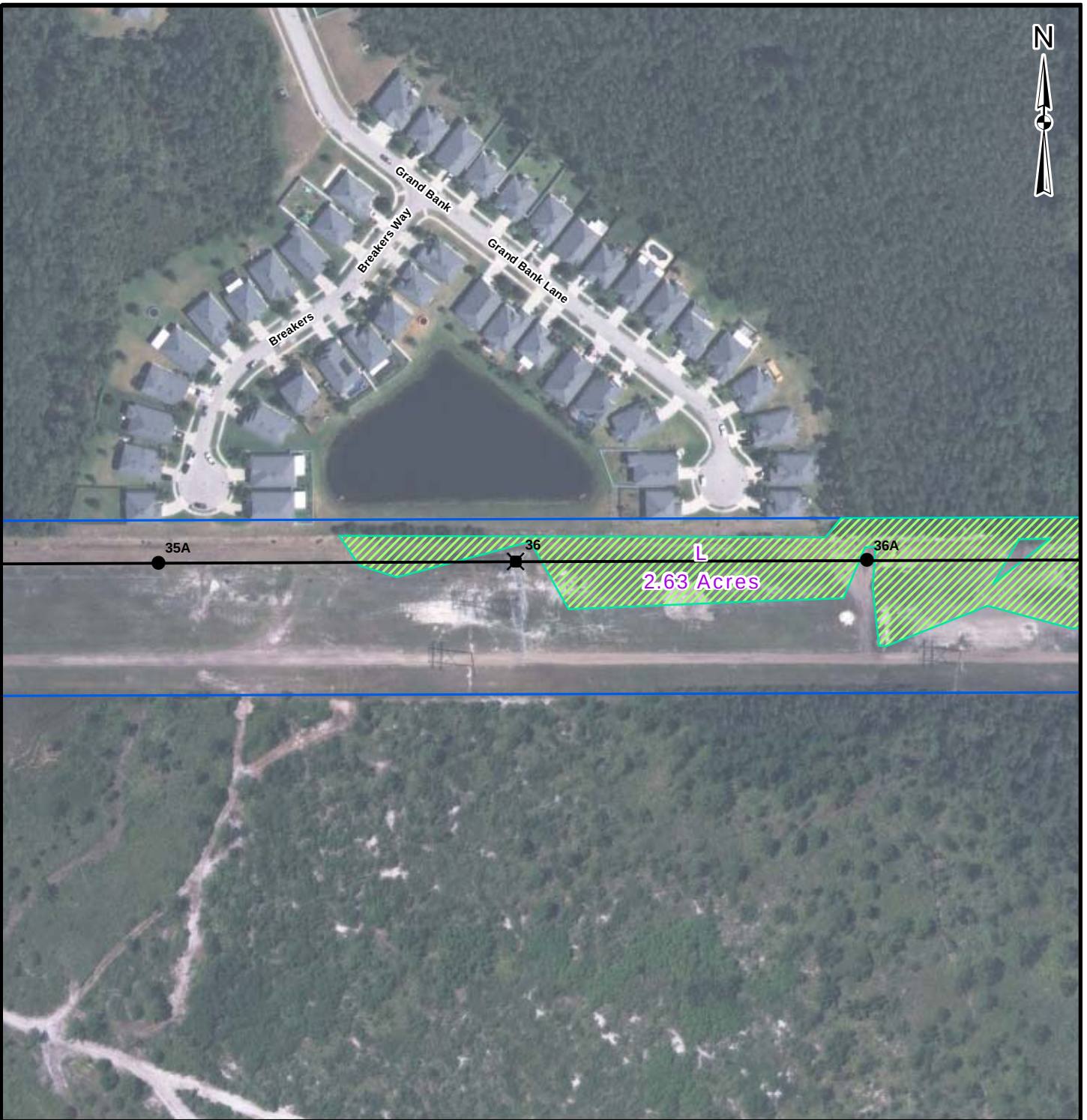
- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS CHK RVW		
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TITLE								
WETLANDS MAP								
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			CHECK	KAB	2/26/2010			
			REVIEW	KAB	2/26/2010			





LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

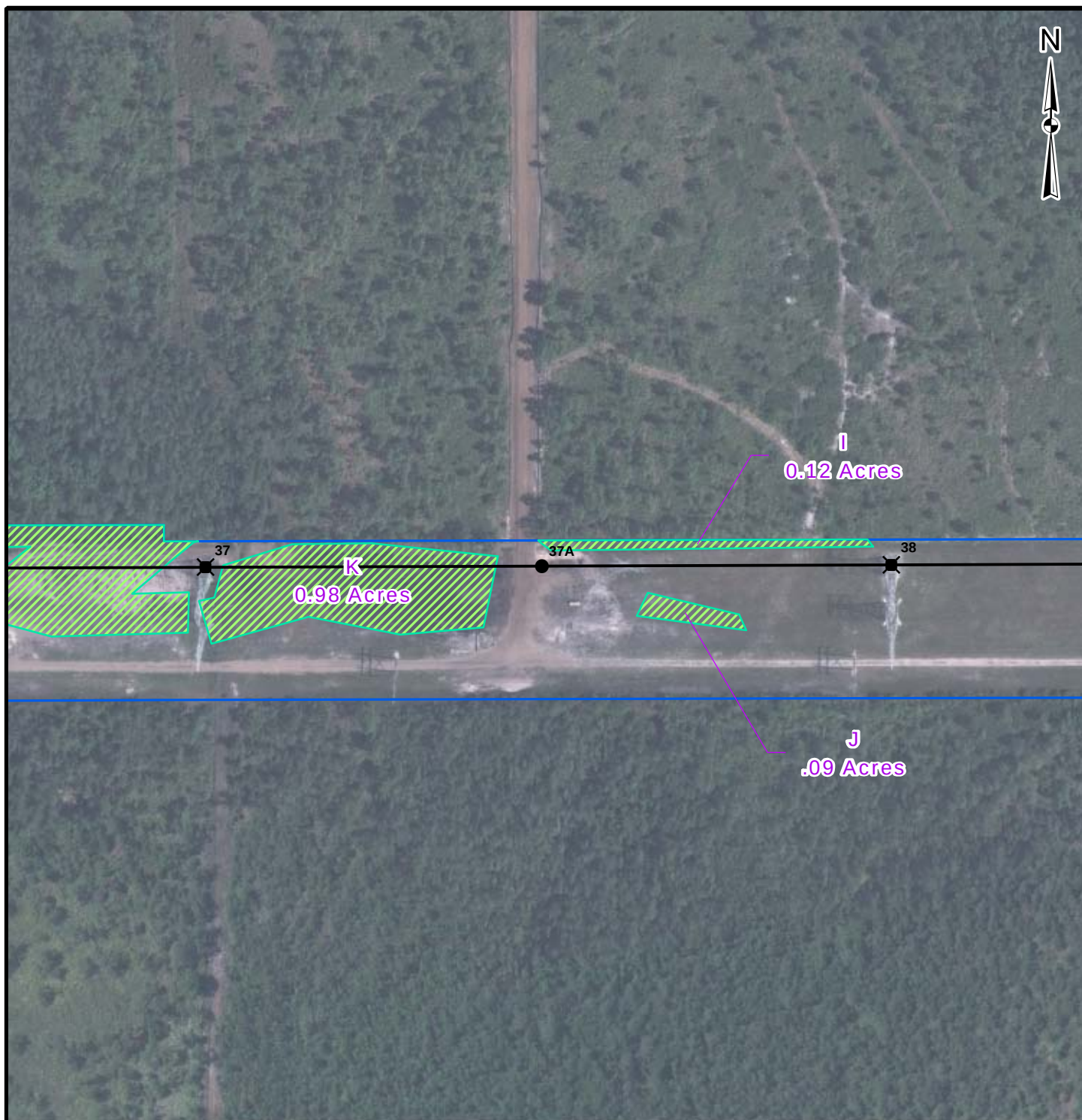
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2. Wetland Boundaries, Golder Associates Inc., 2009.

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TITLE										
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			CHECK	KAB	2/26/2010					
REVIEW	KAB	2/26/2010								



PROJECT No.			093-87744			FILE No.			09387744A011		
DESIGN	KAB	2/19/2010			SCALE: AS SHOWN			REV. 0			
GIS	NRL	2/25/2010			FIGURE 7 10 of 24						
CHECK	KAB	2/26/2010									
REVIEW	KAB	2/26/2010									

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LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW				
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TITLE												
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			CHECK	KAB	2/26/2010							
			REVIEW	KAB	2/26/2010							





LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

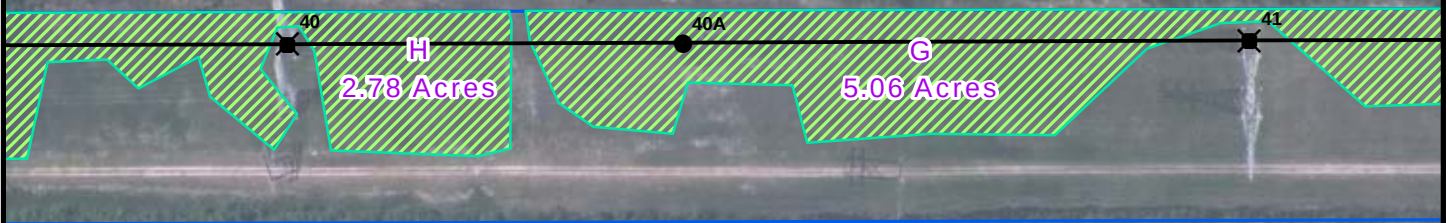
REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

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PROJECT No.			093-87744			FILE No.			09387744A011					
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GIS			NRL			2/25/2010			FIGURE 7 12 of 24					
CHECK			KAB			2/26/2010								
REVIEW			KAB			2/26/2010								



LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230kV TRANSMISSION LINE						

TITLE						
WETLANDS MAP						



PROJECT No. 093-87744			FILE No. 09387744A011		
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GIS	NRL	2/25/2010	FIGURE 7 13 of 24		
CHECK	KAB	2/26/2010			
REVIEW	KAB	2/26/2010			



G
5.06 Acres

41A

42

42A



LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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PROJECT
ORLANDO UTILITIES COMMISSION
7-17PEF-CURRY FORD 230kV TRANSMISSION LINE

TITLE
WETLANDS MAP



PROJECT No. 093-87744			FILE No. 09387744A011		
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GIS	NRL	2/25/2010	FIGURE 7 14 of 24		
CHECK	KAB	2/26/2010			
REVIEW	KAB	2/26/2010			

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LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS CHK RVW		
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LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RVW				
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TITLE												
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LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION			GIS	CHK	RW			
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TITLE											
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LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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GIS	NRL	2/25/2010	FIGURE 7 18 of 24			
CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				





C
2.23 Acres

48A

49

49A



LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

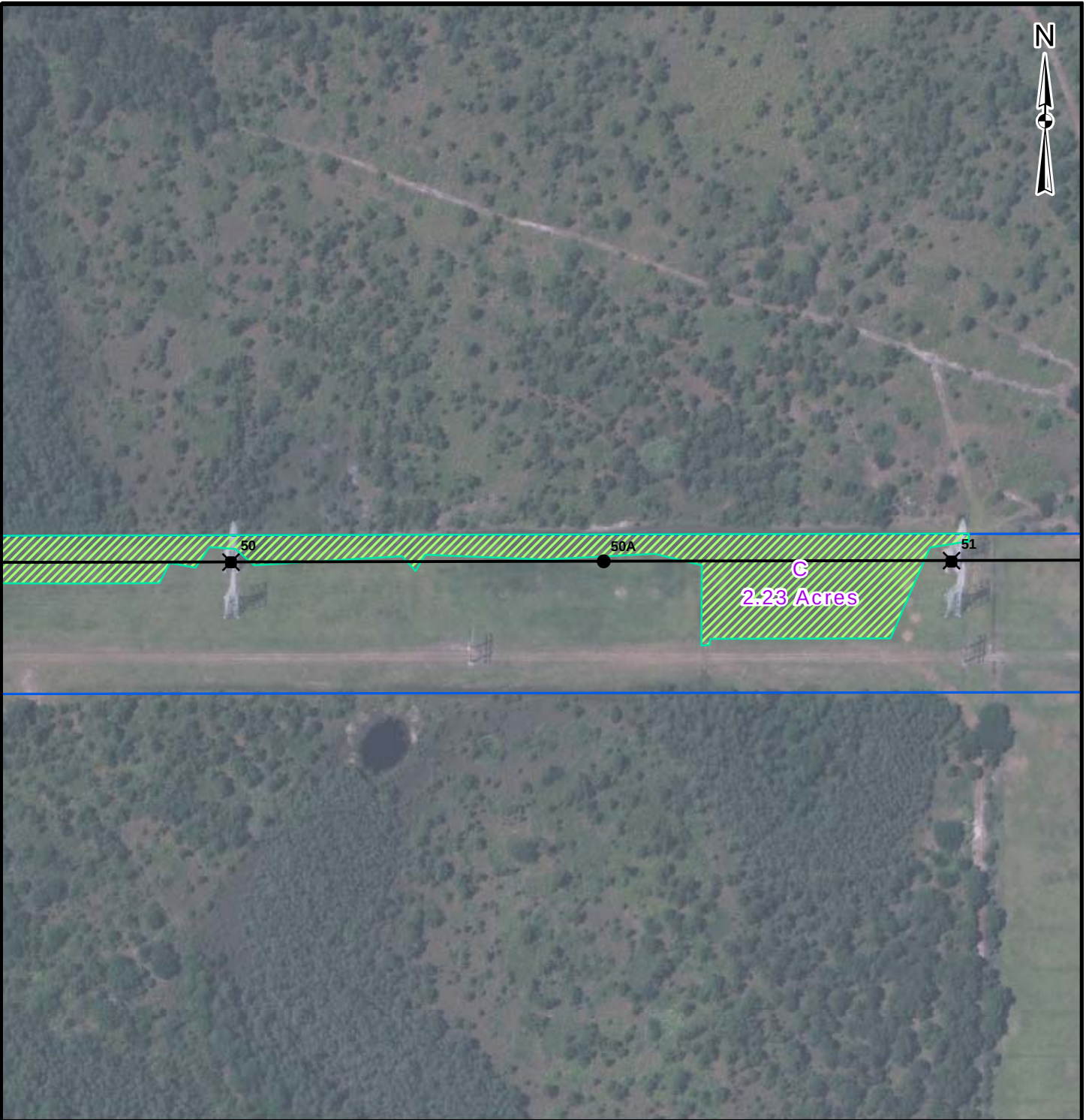
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TITLE						
WETLANDS MAP						



PROJECT No. 093-87744			FILE No. 09387744A011		
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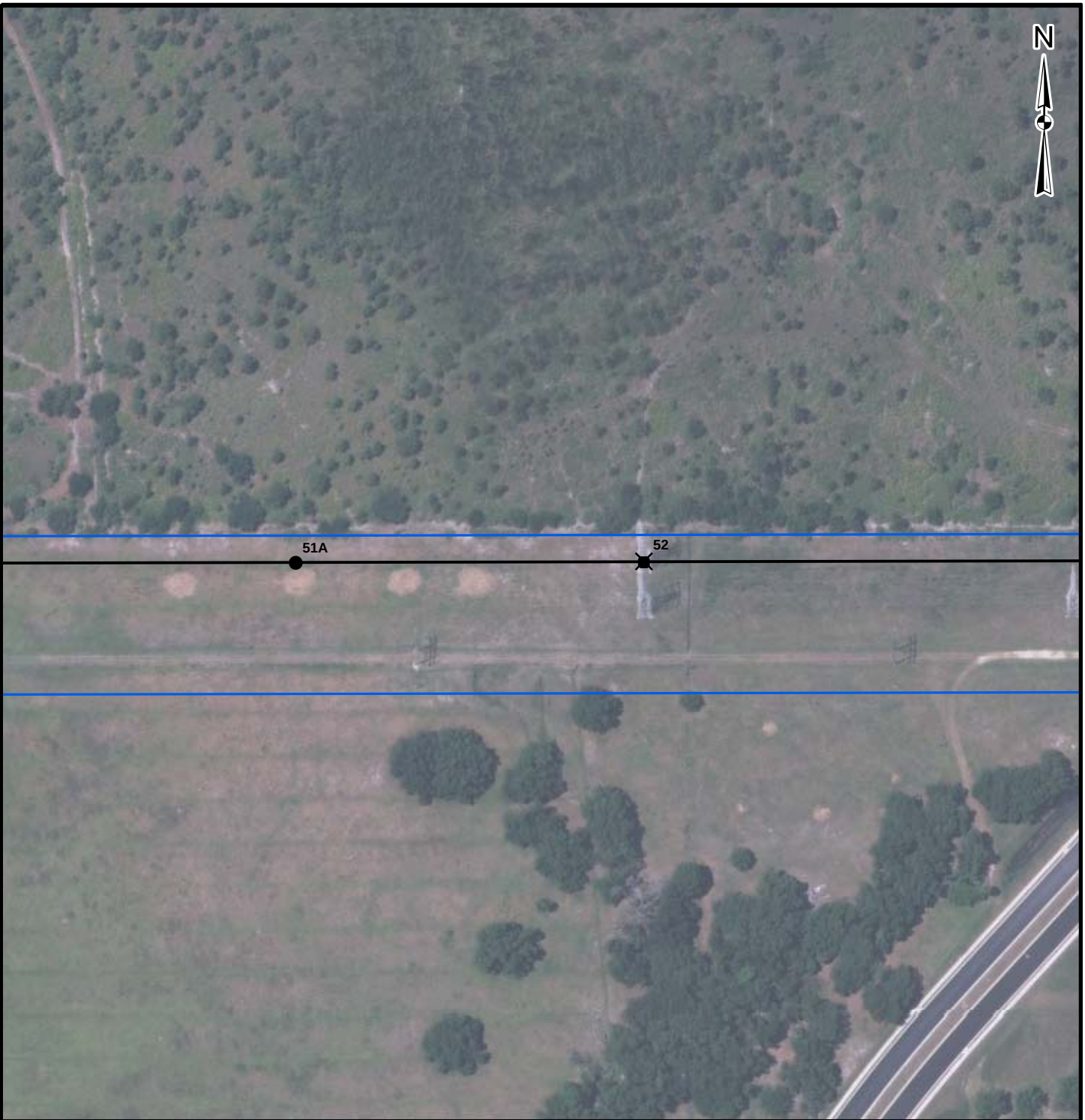
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-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW	
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			CHECK	KAB	2/26/2010						
			REVIEW	KAB	2/26/2010						





LEGEND

-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

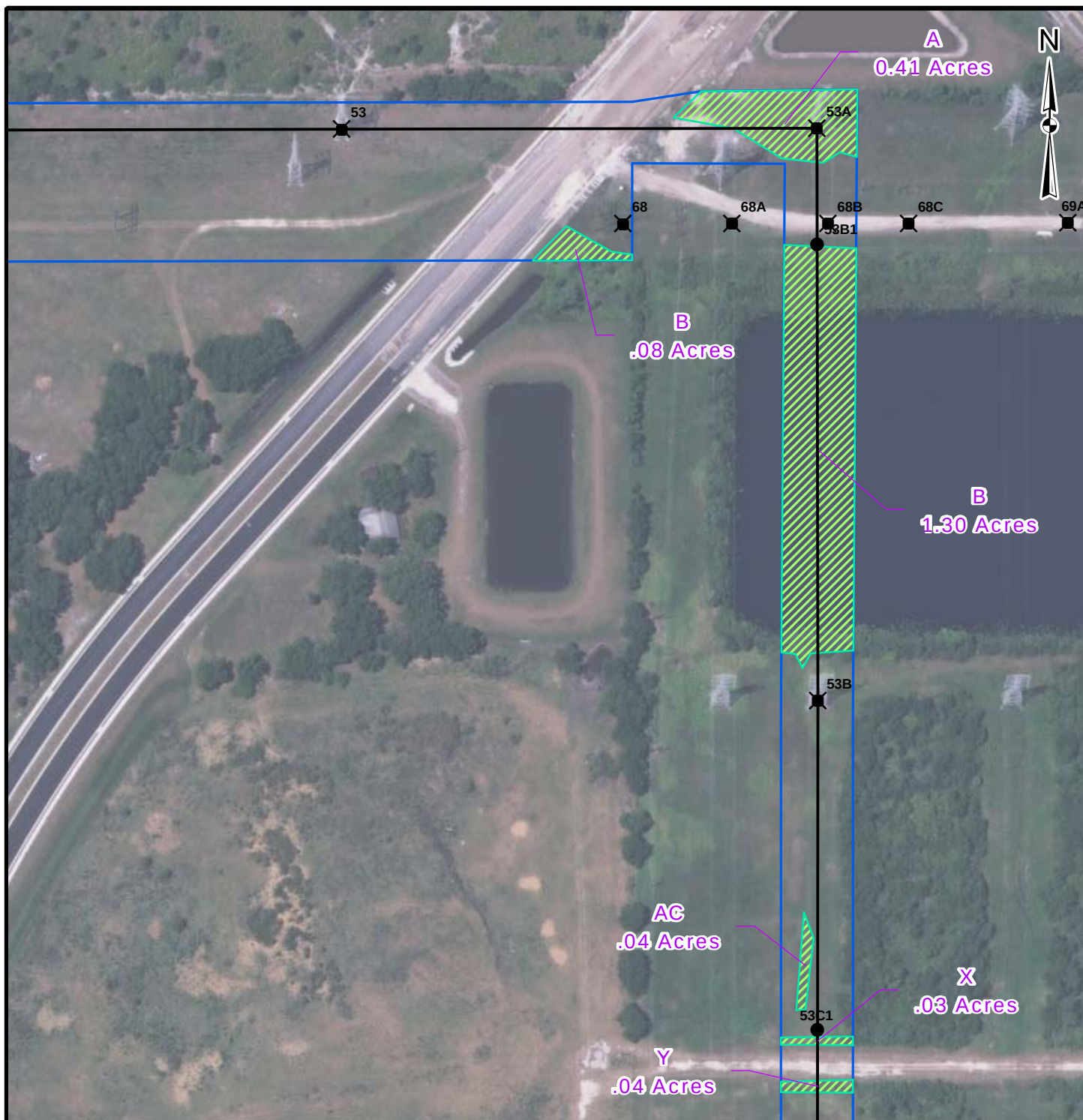
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WETLANDS MAP						
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CHECK	KAB	2/26/2010				
REVIEW	KAB	2/26/2010				



Golder Associates
Gainesville, Florida

FIGURE 7
21 of 24

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LEGEND

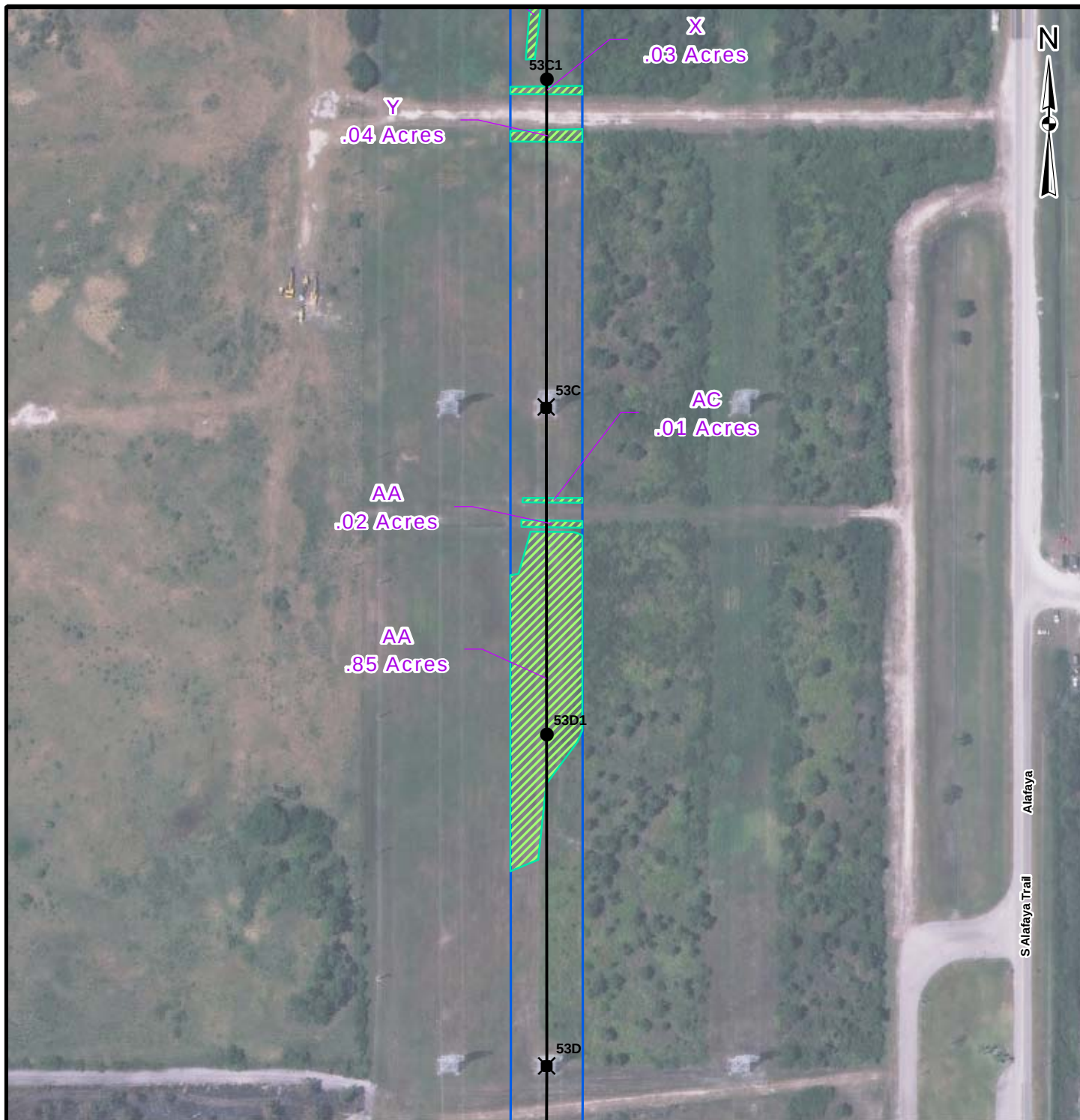
-  Existing 230kV Transmission Structure
-  New 230kV Transmission Structure
-  7-17PEF-Curry Ford Transmission Centerline
-  7-17PEF-Curry Ford Transmission Line Right-of-Way
-  Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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WETLANDS MAP						
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REVIEW	KAB	2/26/2010				





LEGEND

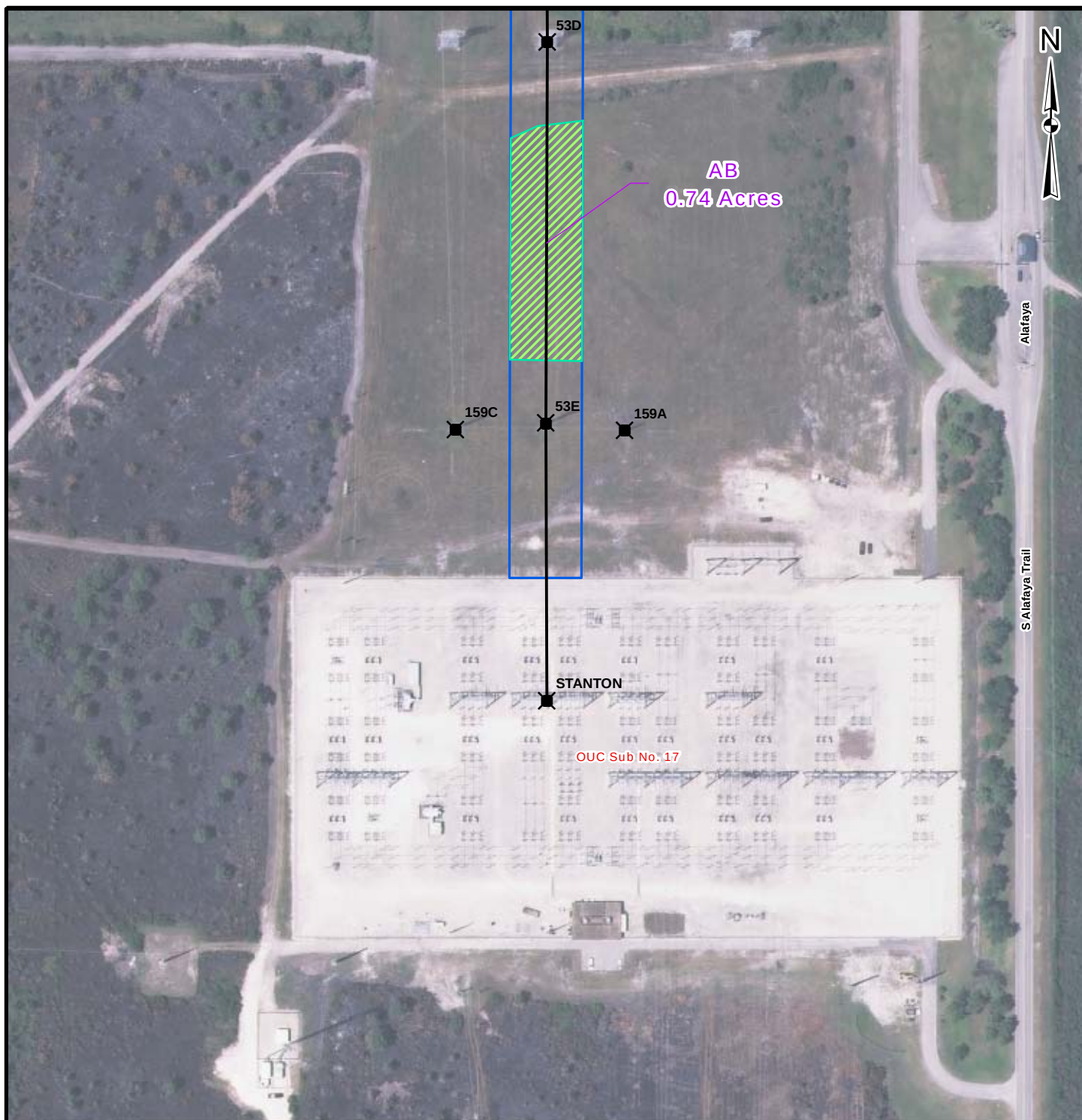
- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

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CHECK			KAB 2/26/2010	FIGURE 7 23 of 24		
REVIEW			KAB 2/26/2010			





LEGEND

- Existing 230kV Transmission Structure
- New 230kV Transmission Structure
- 7-17PEF-Curry Ford Transmission Centerline
- 7-17PEF-Curry Ford Transmission Line Right-of-Way
- Surveyed Wetland Boundaries

REFERENCES

1. 7-17PEF-Curry Ford Transmission Line Right-of-Way, Pole Locations, Centerline, OUC, 2010.
2. Wetland Boundaries, Golder Associates Inc., 2009.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
ORLANDO UTILITIES COMMISSION 7-17PEF-CURRY FORD 230KV TRANSMISSION LINE						
TITLE						
WETLANDS MAP						
 Golder Associates Gainesville, Florida		PROJECT No.		FILE No.		
		DESIGN	KAB	2/19/2010	SCALE: AS SHOWN	
		GIS	NRL	2/25/2010	REV. 0	
		CHECK	KAB	2/26/2010	FIGURE 7 24 of 24	
		REVIEW	KAB	2/26/2010		

EXHIBIT "A" TO ORDER OF TAKING

DESCRIPTION:

THAT PART OF:

Section 8, Township 23 South, Range 31 East (LESS: That part lying Westerly of Young Pine Road) and Section 9, Township 23 South, Range 31 East, Orange County, Florida.

DESCRIBED AS FOLLOWS:

From the Southwest corner of the Northwest 1/4 of Section 8, Township 23 South, Range 31 East, Orange County, Florida, said point also being the Northwest corner of that certain Orlando Utilities Commission transmission line right-of-way described as Parcel 2 and recorded in Minute Book 15, Pages 636 through 642, Public Records of Orange County, Florida, run North 89 degrees 46 minutes 54 seconds East 1907.00 feet along the North boundary of said Orlando Utilities Commission right-of-way for the POINT OF BEGINNING, said point being on the Easterly right-of-way line of Young Pine Road as described and recorded in Official Records Book 1962, Pages 280 and 281, Public Records of Orange County, Florida; thence continue North 89 degrees 46 minutes 54 seconds East 8750.74 feet along said North boundary of the Orlando Utilities Commission right-of-way to the Southeast corner of the Northeast 1/4 of Section 9, Township 23 South, Range 31 East; thence run North 00 degrees 09 minutes 04 seconds West 23.00 feet along the East boundary of said Northeast 1/4 to a line parallel with and 23.00 feet North of, when measured at right angles to, the aforesaid North boundary of the Orlando Utilities Commission right-of-way; thence run South 89 degrees 46 minutes 54 seconds West 8773.42 feet along said parallel line to the aforesaid Easterly right-of-way line of Young Pine Road, said point being on a non-tangent curve concave Northeasterly having a radius of 1856.86 feet; thence from a tangent bearing of South 44 degrees 17 minutes 48 seconds East, run Southeasterly 32.29 feet along the arc of said curve and said Easterly right-of-way line through a central angle of 00 degrees 59 minutes 47 seconds to the Point of Beginning.

CONTAINING: 4.626 acres more or less.

RECORDED & RECORD VERIFIED
Thomas H. Locke
County Comptroller, Orange Co., FL

OR3811 PG5105

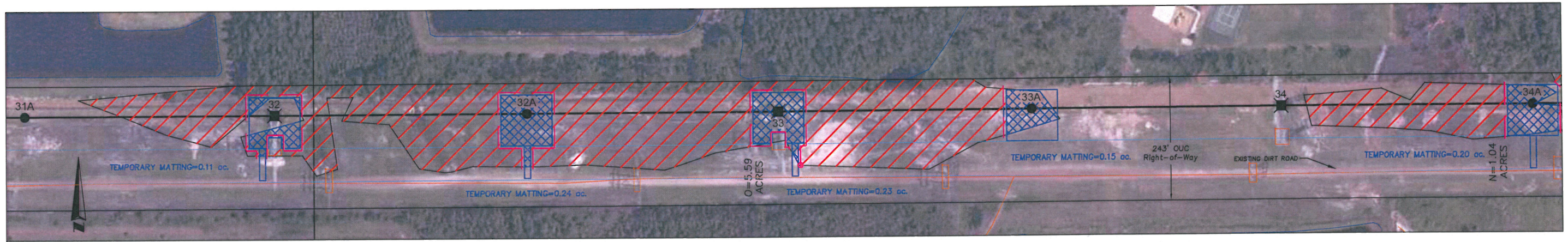
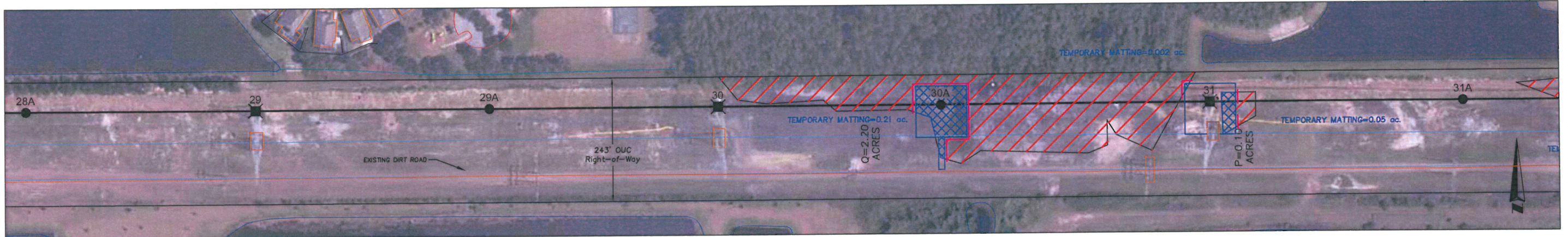
ATTACHMENT D
CONSTRUCTION PLANS

Randy L. Grass
3/18/10

POWER ENGINEERS
www.powereng.com
CA#8050
12755 Olive Blvd, Suite 100
St. Louis, Mo. 63141
(314)-851-4000
RANDY L. GRASS PE#46606

LEGEND

- WETLAND AREA WITHIN AFFECTED PORTION OF RIGHT-OF-WAY
- WETLAND AREA TO BE MATTED DURING CONSTRUCTION
- 7-17PEF-CURRY FORD TRANSMISSION CENTERLINE
- NEW 230kV TRANSMISSION STRUCTURE
- EXISTING 230kV TRANSMISSION STRUCTURE
- OTHER EXISTING TRANSMISSION CENTERLINE TO REMAIN
- SILT FENCE AROUND MATTED AREA (TYP.)
- TYPICAL MATTED AREA AROUND STRUCTURE is 100'x100'
- TYPICAL MATTED ROAD TO STRUCTURE is 12' wide



7-17PEF-CURRY FORD E1000.DWG

THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT, TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.



REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
1	Added Silt Fence	03/12/10	PEI	DH	DH/CLD		
0	INITIAL ISSUE	02/18/10	PEI	DH	DH/CLD		

DSGN	DH	02/16/10
DRN	PEI	02/16/10
CKD	DH/CLD	02/16/10
SCALE:		1"=100'
FOR 22x34 DWG ONLY		



ORLANDO UTILITIES COMMISSION
7-17PEF-CURRY FORD
230kV TRANSMISSION LINE
WETLAND MATTING PLANS

JOB NUMBER	117328	REV	1
DRAWING NUMBER	E1001		

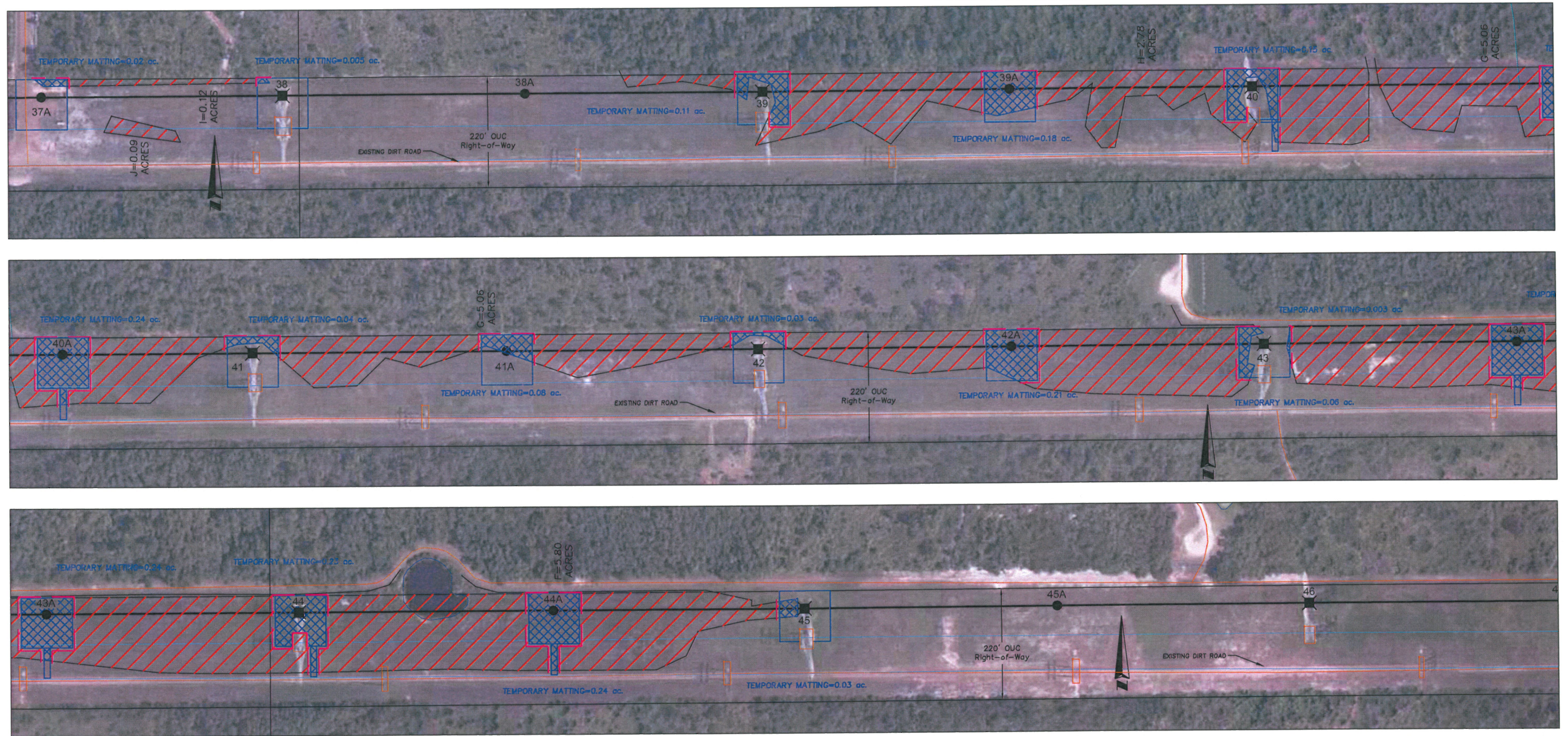
Randy L. Shan
3/18/10

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RANDY L. GRASS PE#46606

LEGEND

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- WETLAND AREA TO BE MATTED DURING CONSTRUCTION
- 7-17PEF-CURRY FORD TRANSMISSION CENTERLINE
- NEW 230kV TRANSMISSION STRUCTURE
- EXISTING 230kV TRANSMISSION STRUCTURE
- OTHER EXISTING TRANSMISSION CENTERLINE TO REMAIN

SILT FENCE AROUND MATTED AREA (TYP.)
TYPICAL MATTED AREA AROUND STRUCTURE is 100'x100'
TYPICAL MATTED ROAD TO STRUCTURE is 12' wide



7-17PEF-CURRY FORD E1000.DWG

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REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
1	Added Silt Fence	03/12/10	PEI	DH	DH/CLD		
0	INITIAL ISSUE	02/18/10	PEI	DH	DH/CLD		

DSGN	DH	02/16/10
DRN	PEI	02/16/10
CKD	DH/CLD	02/16/10
SCALE:		1"=100'
FOR 22x34 DWG ONLY		



ORLANDO UTILITIES COMMISSION
7-17PEF-CURRY FORD 230kV TRANSMISSION LINE
WETLAND MATTING PLANS

JOB NUMBER	117328	REV	1
DRAWING NUMBER	E1002		

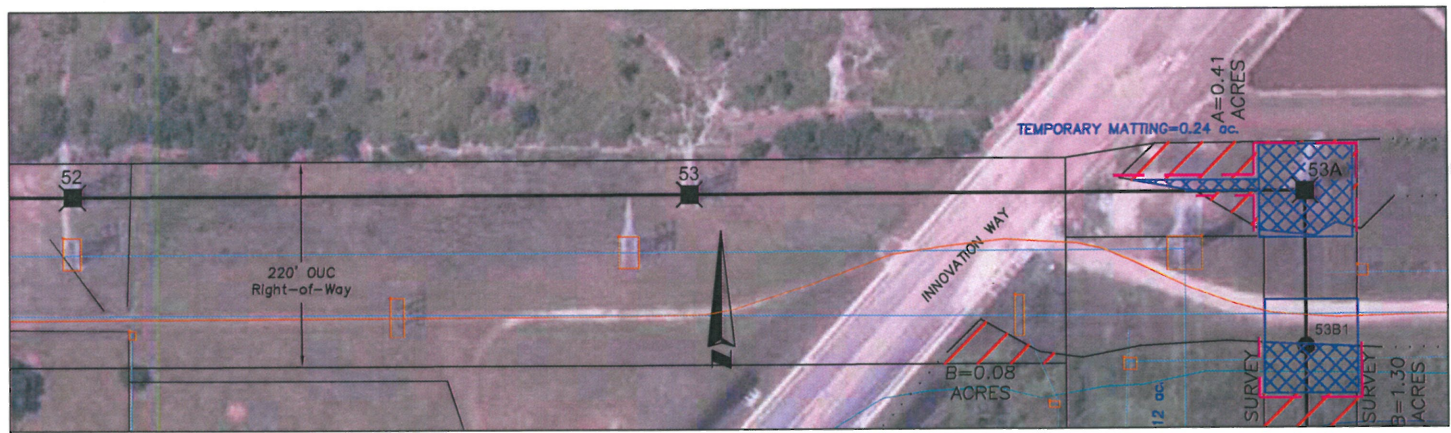
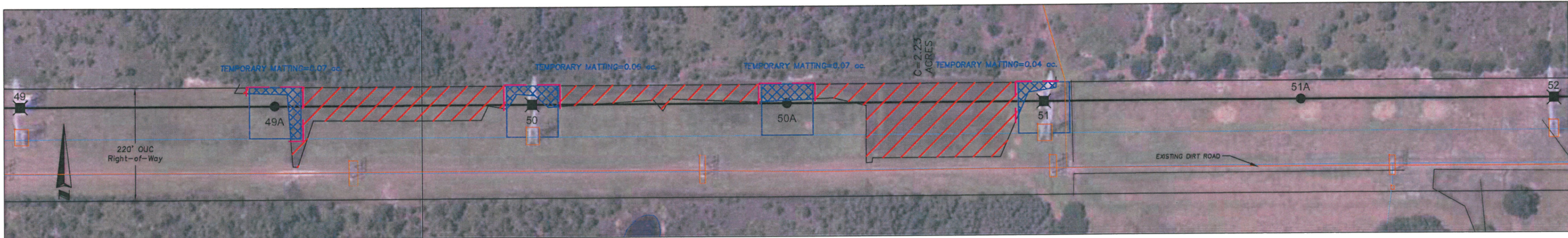
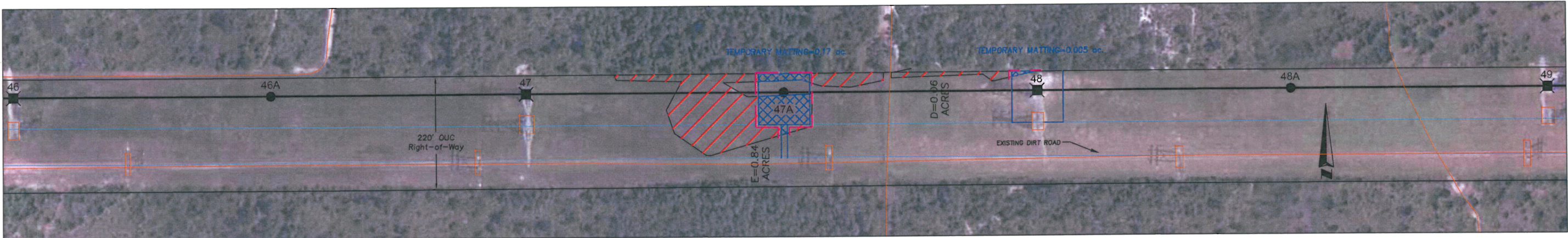
Randy L. Grass
3/18/10

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LEGEND

- WETLAND AREA WITHIN AFFECTED PORTION OF RIGHT-OF-WAY
- WETLAND AREA TO BE MATTED DURING CONSTRUCTION
- 7-17PEF-CURRY FORD TRANSMISSION CENTERLINE
- NEW 230kV TRANSMISSION STRUCTURE
- EXISTING 230kV TRANSMISSION STRUCTURE
- OTHER EXISTING TRANSMISSION CENTERLINE TO REMAIN

SILT FENCE AROUND MATTED AREA (TYP.)
 TYPICAL MATTED AREA AROUND STRUCTURE is 100'x100'
 TYPICAL MATTED ROAD TO STRUCTURE is 12' wide



7-17PEF-CURRY FORD E1000.DWG

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OUC
The Reliable One®

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
1	Added Silt Fence	03/12/10	PEI	DH	DH/CLD		
0	INITIAL ISSUE	02/18/10	PEI	DH	DH/CLD		

DSGN	DH	02/16/10
DRN	PEI	02/16/10
CKD	DH/CLD	02/16/10
SCALE: 1"=100'		
FOR 22x34 DWG ONLY		

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ORLANDO UTILITIES COMMISSION
7-17PEF-CURRY FORD
230kV TRANSMISSION LINE
WETLAND MATTING PLANS

JOB NUMBER
117328
DRAWING NUMBER
E1003

REV
1

JOB NUMBER 117328	REV 
DRAWING NUMBER E1004	

ATTACHMENT E

ACOE WETLAND DATASHEETS

ACOE JURISDICTIONAL DETERMINATION FORMS

UMAM FUNCTIONAL ASSESSMENT FORMS

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Ludwigia octovalvis</i>	GC	OBL	8		
2 <i>Eleocharis spp.</i>	GC	OBL	9		
3 <i>Juncus scirpoides</i>	GC	FACW	10		
4 <i>Juncus effusus</i>	GC	FACW	11		
5 <i>Phyllanthus urinaria</i>	GC	FAC	12		
6 <i>Panicum repens</i>	GC	FACW	13		
7 <i>Drosera spp.</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Felda Fine Sand, Depressional, frequently flooded</u>	Drainage Class: Deep, very poorly drained. Circle				
Taxonomy (Subgroup): <u>Loamy, siliceous, hyperthermic Arenic Endoaqualfs</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 2/1			Fine sand; granular
4-35	Eg	10 YR 7/2	10YR 6/4		Fine sand; loose
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☒ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No		
Remarks: _____		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>534</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Pontederia cordata</i>	GC	OBL	8		
2 <i>Juncus effusus</i>	GC	FACW	9		
3 <i>Typha sp</i>	GC	OBL	10		
4 <i>Ludwigia peruviana</i>	GC	OBL	11		
5 <i>Salix caroliniana</i>	Shrub	OBL	12		
6 <i>Aster carolinianus</i>	GC	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Fringe around borrow pond and associated ditches.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 – 10"</u> (In.) Depth to Free Water in Pit: <u>0 – 48+</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Wabasso Fine Sand</u>	Drainage Class: _____				
Taxonomy (Subgroup): <u>Hyperthermic Alfic Alaquods</u>	Field Observations Confirm Mapped Type? <u>Yes</u> Circle <u>No</u>				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 3/1	10YR 7/1		Fine sand
4-16	E	10 YR 5/1			Fine sand
16-28	Bh	5YR 2/2	10 YR 6/1		Fine sand, common, medium, fine
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland C</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Pontederia cordata</i>	GC	OBL	8		
2 <i>Rhynchospora cephalantha</i>	GC	OBL	9		
3 <i>Fuirena pumila</i>	GC	OBL	10		
4 <i>Hydrocotyle umbellata</i>	GC	FACW	11		
5 <i>Centella asiatica</i>	GC	FACW	12		
6 <i>Bacopa caroliniana</i>	GC	OBL	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wetland is in heavily grazed pasture and has been ditched.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0</u> (In.) Depth to Free Water in Pit: <u>0</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)		
Remarks: <u>Algal mats.</u>		

SOILS

Map Unit Name (Series and Phase): <u>St. Johns Fine Sand</u>	Drainage Class: <u>very poorly drained</u>				
Taxonomy (Subgroup): <u>Hyperthermic Typic Alaquods</u>	Field Observations Confirm Mapped Type? <u>Yes</u> ☐ No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-10	A1	10 YR 2/1	10YR 6/1		Fine sand, granular
10-14	A2	10 YR 3/1			Fine sand, single grained, loose
14-22	E	10 YR 6/1	10 YR 4/1		Fine sand, single grained, loose
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland D</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Bacopa caroliniana</i>	GC	OBL	8	GC	FACW
2 <i>Proserpinaca</i> spp.	GC	OBL	9		
3 <i>Rhynchospora cephalantha</i>	GC	OBL	10		
4 <i>Eleocharis</i> spp.	GC	OBL	11		
5 <i>Panicum repens</i>	GC	FACW	12		
6 <i>Osmunda regalis</i>	GC	OBL	13		
7 <i>Andropogon glomeratus</i>	GC	FACW	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wet ditch along edge of T-line ROW.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: <u>0</u> (In.) Depth to Free Water in Pit: <u>0</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Pomello Fine Sand</u>	Drainage Class: <u>moderately well drained</u> Circle				
Taxonomy (Subgroup): <u>Hyperthermic Oxyaquic Alorthods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10 YR 2/1			Fine sand; granular
6-25	E	10 YR 6/1			Fine sand; loose
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils ☒ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland E</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	GC	FACW	8		
2 <i>Centella asiatica</i>	GC	FACW	9		
3 <i>Juncus effusus</i>	GC	OBL	10		
4 <i>Scirpus cyperinus</i>	GC	OBL	11		
5 <i>Juncus scirpoides</i>	GC	FACW	12		
6 <i>Sarracenia minor</i>	GC	OBL	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Area heavily grazed by cattle.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks: <u>Algal matting.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Hyperthermic Histic Humaquepts</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

Form Content Approved by HQUSACE 3/92

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland F</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	GC	OBL	8 <i>Typha</i> spp.	GC	OBL
2 <i>Panicum repens</i>	GC	OBL	9 <i>Ludwigia peruviana</i>	Shrub	OBL
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Drosera</i> spp.	GC	OBL	11		
5 <i>Aster carolinianus</i>	GC	OBL	12		
6 <i>Andropogon glomeratus</i>	GC	FACW	13		
7 <i>Pontederia cordata</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 48+"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks: <u>Open water with resident alligator.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Sanibel muck, Smyrna fine sands</u>	Drainage Class: <u>poorly to v. poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Spodic Psammaquent, Histic Humaquepts, Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Rubbed fine sand; weak fine granular
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
0-3	A1	10YR 2/1			Crushed sand, coarse granular
Hydric Soil Indicators:					
☐ Histosol		☒ Reducing Conditions		☒ High Organic Content in Surface Layer in Sandy Soils	
☐ Histic Epipedon		☒ Gleyed or Low-Chroma Colors		☐ Listed on National Hydric Soils List	
☐ Sulfidic Odor		☐ Concretions		☐ Listed on Local Hydric Soils List	
☒ Aquic Moisture Regime		☐ Organic Streaking in Sandy Soils		☐ Other (explain in remarks)	
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No		
Remarks: _____		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland G</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Eleocharis</i> spp.	GC	OBL	8		
2 <i>Bacopa caroliniana</i>	GC	OBL	9		
3 <i>Panicum repens</i>	GC	FACW	10		
4 <i>Andropogon glomeratus</i>	GC	FACW	11		
5 <i>Myrica cerifera</i>	Shrub	FAC+	12		
6 <i>Pontederia cordata</i>	GC	OBL	13		
7 <i>Typha latifolia</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Seperated from Wetland F by access road to Water Treatment Facility. Also contains small pocket of freshwater marsh.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 – 12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Smyrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☒ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry-Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland H</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Eleocharis</i> spp.	GC	OBL	8		
2 <i>Bacopa caroliniana</i>	GC	OBL	9		
3 <i>Panicum repens</i>	GC	FACW	10		
4 <i>Andropogon glomeratus</i>	GC	FACW	11		
5 <i>Myrica cerifera</i>	Shrub	FAC+	12		
6 <i>Pontederia cordata</i>	GC	OBL	13		
7 <i>Typha latifolia</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Seperated from Wetland F by access road to Water Treatment Facility.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Smyrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland I</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus scirpoides</i>	GC	FACW	8		
2 <i>Xyris</i> spp.	GC	OBL	9		
3 <i>Fuirena pumila</i>	GC	OBL	10		
4 <i>Rhynchospora cephalantha</i>	GC	OBL	11		
5 <i>Ludwigia arcuata</i>	GC	OBL	12		
6 <i>Cyperus surinamensis</i>	GC	FACW	13		
7 <i>Hydrocotyle umbellata</i>	GC	FACW	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch along north side of ROW.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0</u> " (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0</u> " (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes ☒ No ☐				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland J</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Ludwigia octovalvis</i>	GC	OBL	8		
2 <i>Eleocharis</i> spp.	GC	OBL	9		
3 <i>Fuirena pumila</i>	GC	OBL	10		
4 <i>Proserpinaca</i> spp.	GC	OBL	11		
5 <i>Ludwigia arcuata</i>	GC	OBL	12		
6 <i>Lycopodium cernuum</i>	GC	FACW	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Depression in t-line.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: <u>Algal mats.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: <u>Algal mats.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland K</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Fuirena pumila</i>	GC	OBL	8		
2 <i>Juncus repens</i>	GC	OBL	9		
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Drosera</i> spp.	GC	OBL	11		
5 <i>Rhynchospora cephalantha</i>	GC	OBL	12		
6 <i>Ludwigia arcuata</i>	GC	OBL	13		
7 <i>Proserpinaca</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Isolated depressional wetland.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 - 6"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>poorly to v. poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Spodic Psammaquents</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Fine sand; granular
2-18	Eg	10YR 7/2	10 YR 3/2		Lt. Gray fine sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No		
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland L</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Fuirena pumila</i>	GC	OBL	8		
2 <i>Xyris</i> spp.	GC	OBL	9		
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Hydrocotyle umbellata</i>	GC	OBL	11		
5 <i>Rhynchospora cephalantha</i>	GC	OBL	12		
6 <i>Bacopa caroliniana</i>	GC	OBL	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Depressional wetland that connects to cypress dominated wetland north of t-line.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 6"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>poorly to v. poorlydrained</u> Circle				
Taxonomy (Subgroup): <u>Spodic Psammaquents</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Fine sand; granular
2-18	Eg	10YR 7/2	10 YR 3/2		Lt. Gray fine sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No		
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland M</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Pontederia cordata</i>	GC	OBL	8		
2 <i>Panicum hemitomon</i>	GC	FACW	9		
3 <i>Cephalanthus occidentalis</i>	shrub	OBL	10		
4 <i>Hydrocotyle umbellata</i>	GC	OBL	11		
5 <i>Rhynchospora cephalantha</i>	GC	OBL	12		
6 <i>Juncus effusus</i>	GC	FACW	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch connecting cypress strands north and south of the t-line. Ditch runs through culvert under the accss road.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 6"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Hyperthermic Histic Humaquepts</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No		
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry-Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland N</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Sarracinea minor</i>	GC	OBL	8		
2 <i>Eleocharis spp.</i>	GC	OBL	9		
3 <i>Centella asiatica</i>	GC	FACW	10		
4 <i>Drosera spp.</i>	GC	OBL	11		
5 <i>Lachnocaulon spp.</i>	GC	FACW+	12		
6 <i>Xyris spp.</i>	GC	OBL	13		
7 <i>Panicum repens</i>	GC	FACW	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0</u> " (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0</u> " (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland O</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Rhynchospora cephalantha</i>	GC	OBL	8 <i>Bacopa caroliniana</i>	GC	OBL
2 <i>Panicum repens</i>	GC	OBL	9 <i>Hydrocotyle umbellata</i>	GC	FACW
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Drosera</i> spp.	GC	OBL	11		
5 <i>Lachnanthes caroliniana</i>	GC	FACW	12		
6 <i>Proserpinaca</i> spp.	GC	OBL	13		
7 <i>Bacopa monerli</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of wetland is dominated by wet prairie with smaller sections of ditches (511) and freshwater marsh (641).

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Samsula muck, Smyrna fine sands</u> Taxonomy (Subgroup): <u>Spodic Psammaquent, Terric Haplosaprists, Aeris Alaquods</u>	Drainage Class: <u>poorly to v. poorlydrained</u> Circle Field Observations Confirm Mapped Type? <u>Yes</u> No																								
Profile Description: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Munsell Moist)</th> <th>Mottle Colors (Munsell Moist)</th> <th>Mottle Abundance/ Size/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-2</td> <td>Ag</td> <td>10 YR 3/1</td> <td>10YR 7/2</td> <td></td> <td>Rubbed fine sand; weak fine granular</td> </tr> <tr> <td>0-9</td> <td>Oa1</td> <td>5YR 2/1</td> <td>10YR 3/2</td> <td></td> <td>Muck, subangular, blocky</td> </tr> <tr> <td>0-3</td> <td>A1</td> <td>10YR 2/1</td> <td></td> <td></td> <td>Crushed sand, coarse granular</td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.	0-2	Ag	10 YR 3/1	10YR 7/2		Rubbed fine sand; weak fine granular	0-9	Oa1	5YR 2/1	10YR 3/2		Muck, subangular, blocky	0-3	A1	10YR 2/1			Crushed sand, coarse granular
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.																				
0-2	Ag	10 YR 3/1	10YR 7/2		Rubbed fine sand; weak fine granular																				
0-9	Oa1	5YR 2/1	10YR 3/2		Muck, subangular, blocky																				
0-3	A1	10YR 2/1			Crushed sand, coarse granular																				
Hydric Soil Indicators: <table style="width: 100%;"> <tr> <td>☐ Histosol</td> <td>☒ Reducing Conditions</td> <td>☒ High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td>☐ Histic Epipedon</td> <td>☒ Gleyed or Low-Chroma Colors</td> <td>☐ Listed on National Hydric Soils List</td> </tr> <tr> <td>☐ Sulfidic Odor</td> <td>☐ Concretions</td> <td>☐ Listed on Local Hydric Soils List</td> </tr> <tr> <td>☒ Aquic Moisture Regime</td> <td>☐ Organic Streaking in Sandy Soils</td> <td>☐ Other (explain in remarks)</td> </tr> </table>		☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils	☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List	☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List	☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)												
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☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List																							
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)																							
Remarks:																									

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No Wetland Hydrology Present? ☒ Yes ☐ No Hydric Soils Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>					Date: <u>20 Nov 09</u>	
Applicant/Owner: <u>OUC</u>					County: <u>Orange</u>	
Investigator: <u>Arrants</u>					State: <u>Florida</u>	
Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID: <u>643</u>	
Is the site significantly disturbed (Atypical Situation)?	☒	Yes	☐	No	Transect ID: _____	
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐	Yes	☒	No	Plot ID: <u>Wetland P</u>	

VEGETATION

Dominant Plant Species		Stratum	Indicator	Dominant Plant Species		Stratum	Indicator
1	<i>Rhynchospora cephalantha</i>	GC	OBL	8	<i>Bacopa caroliniana</i>	GC	OBL
2	<i>Panicum repens</i>	GC	OBL	9	<i>Hydrocotyle umbellata</i>	GC	FACW
3	<i>Eleocharis</i> spp.	GC	OBL	10			
4	<i>Drosera</i> spp.	GC	OBL	11			
5	<i>Lachnanthes caroliniana</i>	GC	FACW	12			
6	<i>Proserpinaca</i> spp.	GC	OBL	13			
7	<i>Bacopa monerii</i>	GC	OBL	14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: 0" (In.) Depth to Free Water in Pit: (In.) Depth to Saturated Soil: 0" (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase):		Symrna Fine Sand		Drainage Class: Poorly to v.poorly drained.		Circle	
Taxonomy (Subgroup):		Aeric Alaquods		Field Observations Confirm Mapped Type?		Yes No	
Profile Description:							
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.		
0-3	A1	10YR 2/1			Crushed sand, coarse granular		
3-6	A2	10 YR 3/1			Crushed sand, single grained		
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand		
Hydric Soil Indicators:							
☐	Histosol	☒	Reducing Conditions	☐	High Organic Content in Surface Layer in Sandy Soils		
☐	Histic Epipedon	☒	Gleyed or Low-Chroma Colors	☐	Listed on National Hydric Soils List		
☐	Sulfidic Odor	☐	Concretions	☐	Listed on Local Hydric Soils List		
☐	Aquic Moisture Regime	☐	Organic Streaking in Sandy Soils	☐	Other (explain in remarks)		
Remarks:							

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒	Yes	☐	No	Is this Sampling Point Within a Wetland?	☒	Yes	☐	No
Wetland Hydrology Present?	☒	Yes	☐	No					
Hydric Soils Present?	☒	Yes	☐	No					
Remarks:									

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland Q</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Rhynchospora cephalantha</i>	GC	OBL	8 <i>Bacopa caroliniana</i>	GC	OBL
2 <i>Panicum repens</i>	GC	OBL	9 <i>Hydrocotyle umbellata</i>	GC	FACW
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Drosera</i> spp.	GC	OBL	11		
5 <i>Lachnanthes caroliniana</i>	GC	FACW	12		
6 <i>Proserpinaca</i> spp.	GC	OBL	13		
7 <i>Bacopa monerli</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wet prairie with smaller portions of ditch (511) and freshwater marsh (641).

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-6 "</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland R</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha latifolia</i>	GC	OBL			
2 <i>Ludwigia repens</i>	GC	OBL			
3 <i>Juncus effusus</i>	GC	FACW			
4 <i>Panicum repens</i>	GC	FACW			
5 <i>Sagittaria lancifolia</i>	GC	OBL			
6					
7					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch along Young Pine Road.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>		Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>		County: <u>Orange</u>
Investigator: <u>Arrants</u>		State: <u>Florida</u>
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)?	☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes ☒ No	Plot ID: <u>Wetland S</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Rhynchospora cephalantha</i>	GC	OBL	8		
2 <i>Juncus effusus</i>	GC	FACW	9		
3 <i>Panicum repens</i>	GC	FACW	10		
4 <i>Alternanthera philoxeroides</i>	GC	OBL	11		
5 <i>Spartina bakeri</i>	GC	FACW	12		
6 <i>Eupatorium capillifolium</i>	GC	FACU	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 85%

Remarks: Ditch with connecting area of wet prairie.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>		Drainage Class: <u>poorly to v. poorlydrained</u>	Circle
Taxonomy (Subgroup): <u>Spodic Psammaquents</u>		Field Observations Confirm Mapped Type? <u>Yes</u>	No
Profile Description:			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)
0-2	Ag	10 YR 3/1	10YR 7/2
2-18	Eg	10YR 7/2	10 YR 3/2
Hydric Soil Indicators: ☐ Histosol ☒ Reducing Conditions ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Histic Epipedon ☒ Gleyed or Low-Chroma Colors ☐ Listed on National Hydric Soils List ☐ Sulfidic Odor ☐ Concretions ☐ Listed on Local Hydric Soils List ☒ Aquic Moisture Regime ☐ Organic Streaking in Sandy Soils ☐ Other (explain in remarks)			
Remarks: _____			

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks: _____			

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>				Date: <u>20 Nov 09</u>	
Applicant/Owner: <u>OUC</u>				County: <u>Orange</u>	
Investigator: <u>Arrants</u>				State: <u>Florida</u>	
Do Normal Circumstances exist on the site?			☒ Yes	☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)?			☒ Yes	☐ No	Transect ID: _____ Plot ID: <u>Wetland T</u>
Is Area a Potential Problem Area? (if needed, explain on reverse)			☐ Yes	☒ No	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha latifolia</i>	GC	OBL	8 <i>Pontederia cordata</i>	GC	OBL
2 <i>Cephalanthus occidentalis</i>	GC	OBL	9		
3 <i>Panicum repens</i>	GC	FACW	10		
4 <i>Alternanthera philoxeroides</i>	GC	OBL	11		
5 <i>Juncus effusus</i>	GC	FACW	12		
6 <i>Rhynchospora cephalantha</i>	GC	OBL	13		
7 <i>Fuirena pumila</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 85%

Remarks: Freshwater marsh adjacent to the West ROW of the 417 Expressway.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available		Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands		Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)	
Field Observations: Depth of Surface Water: <u>0-6"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)					
Remarks: _____					

SOILS

Map Unit Name (Series and Phase): <u>Felda Fine Sand, Depressional, frequently flooded</u>			Drainage Class: <u>poorly to v. poorlydrained</u> Circle		
Taxonomy (Subgroup): <u>Loamy, siliceous, hyperthermic Arenic Endoaqualfs</u>			Field Observations Confirm Mapped Type? Yes No		
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 2/1			Fine sand; granular
4-35	Eg	10 YR 7/2	10YR 6/4		Fine sand; loose
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland U</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Polygonum spp.</i>	GC	FACW	8 <i>Ludwigia repens</i>	GC	OBL
2 <i>Panicum repens</i>	GC	OBL	9 <i>Panicum hemitomon</i>	GC	FACW
3 <i>Eleocharis spp.</i>	GC	OBL	10		
4 <i>Pontederia cordata</i>	GC	OBL	11		
5 <i>Sagittaria lancifolia</i>	GC	OBL	12		
6 <i>Andropogon glomeratus</i>	GC	FACW	13		
7 <i>Bacopa caroliniana</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks: <u>Algal mats.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Sanibel muck, Smyrna fine sands</u>	Drainage Class: <u>poorly to v. poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Spodic Psammaquent, Histic Humaquepts, Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes ☒ No ☐				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Rubbed fine sand; weak fine granular
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
0-3	A1	10YR 2/1			Crushed sand, coarse granular
Hydric Soil Indicators:					
☐ Histosol		☒ Reducing Conditions		☒ High Organic Content in Surface Layer in Sandy Soils	
☐ Histic Epipedon		☒ Gleyed or Low-Chroma Colors		☐ Listed on National Hydric Soils List	
☐ Sulfidic Odor		☐ Concretions		☐ Listed on Local Hydric Soils List	
☒ Aquic Moisture Regime		☐ Organic Streaking in Sandy Soils		☐ Other (explain in remarks)	
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>				Date: <u>20 Nov 09</u>	
Applicant/Owner: <u>OUC</u>				County: <u>Orange</u>	
Investigator: <u>Arrants</u>				State: <u>Florida</u>	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Community ID: <u>643</u>		
Is the site significantly disturbed (Atypical Situation)?	☒ Yes	☐ No	Transect ID: _____		
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes	☒ No	Plot ID: <u>Wetland V</u>		

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Bacopa caroliniana</i>	GC	OBL	8		
2 <i>Proserpinaca</i> spp.	GC	OBL	9		
3 <i>Eleocharis</i> spp.	GC	FACW	10		
4 <i>Juncus effusus</i>	GC	FACW	11		
5 <i>Panicum repens</i>	GC	FACW	12		
6 <i>Hydrocotyle umbellata</i>	GC	FACW	13		
7 <i>Fuirena pumila</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Isolated wet prairie.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>			Drainage Class: <u>poorly to v. poorlydrained</u>		Circle
Taxonomy (Subgroup): <u>Spodic Psammaquents</u>			Field Observations Confirm Mapped Type?		Yes No
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Fine sand; granular
2-18	Eg	10YR 7/2	10 YR 3/2		Lt. Gray fine sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland W</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Panicum repens</i>	GC	FACW			
2 <i>Ludwigia octovalvis</i>	GC	OBL			
3 <i>Juncus effusus</i>	GC	FACW			
4 <i>Scoparia dulcis</i>	GC	FACW			
5 <i>Lachnanthes caroliniana</i>	GC	FACW			
6 <i>Rhynchospora spp.</i>	GC	FACW			
7 <i>Polygonum spp.</i>	GC	FACW			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wetland adjacent to substation. Wetland is bermed and periodically mowed.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland X, Y, Z</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Panicum repens</i>	GC	FACW			
2 <i>Ludwigia octovalvis</i>	GC	OBL			
3 <i>Ludwigia peruviana</i>	Shrub	OBL			
4 <i>Polygonum</i> spp.	GC	FACW			
5 <i>Typha latifolia</i>	GC	OBL			
6 <i>Hydrocotyle umbellata</i>	GC	FACW			
7 <i>Mikania scandens</i>	GC	FACW			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditches along access roads leading from Alafaya Trail.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site:	Stanton to Curry Ford Substation T-line	Date:	20 Nov 09
Applicant/Owner:	OUC	County:	Orange
Investigator:	Arrants	State:	Florida
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Community ID:	643
Is the site significantly disturbed (Atypical Situation)?	☒ Yes ☐ No	Transect ID:	
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes ☒ No	Plot ID:	Wetland AA

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Panicum repens</i>	GC	FACW	<i>Phyla nodiflora</i>	GC	FACW
2 <i>Ludwigia octovalvis</i>	GC	OBL	<i>Setaria geniculata</i>	GC	FACW
3 <i>Juncus effusus</i>	GC	FACW			
4 <i>Polygonum spp.</i>	GC	FACW			
5 <i>Scoparia dulcis</i>	GC	FACW			
6 <i>Hydrocotyle umbellata</i>	GC	FACW			
7 <i>Ludwigia arcuata</i>	GC	OBL			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wet prairie leading from ditch along southern access roads from Alafaya Trail.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: 0" (In.) Depth to Free Water in Pit: (In.) Depth to Saturated Soil: 0" (In.)	
Remarks: Algal mats.	

SOILS

Map Unit Name (Series and Phase): Symrna Fine Sand	Drainage Class: Poorly to v. poorly drained.	Circle
Taxonomy (Subgroup): Aeric Alaquods	Field Observations Confirm Mapped Type? Yes No	

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand

Hydric Soil Indicators:

☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks:			

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>534</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland AB</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u>Typha latifolia</u>	GC	OBL			
2 <u>Fuirena pumila</u>	GC	OBL			
3 <u>Proserpinaca spp.</u>	GC	OBL			
4 <u>Andropogon glomeratus</u>	GC	OBL			
5 <u>Paspalum notatum</u>	GC	UP			
6					
7					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 80%

Remarks: Stormwater pond adjacent to North Substation.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 – 36"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland AC</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u>Colocasia esculenta</u>	<u>GC</u>	<u>OBL</u>			
2					
3					
4					
5					
6					
7					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Isolated depression.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand

Hydric Soil Indicators:	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime		

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks: _____			

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: **FL** County/parish/borough: **Orange** City: **Orlando**
Center coordinates of site (lat/long in degree decimal format): Lat. **28.503° N**, Long. **81.172° W**.
Universal Transverse Mercator:

Name of nearest waterbody: **Econlockhatchee River**

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **Econlockhatchee River**

Name of watershed or Hydrologic Unit Code (HUC): **Unnamed Drain/03080101**

☐ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: **3/8/10**

☒ Field Determination. Date(s): **11/20/09**

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

☐ Waters subject to the ebb and flow of the tide.

☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **are and are not** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- ☐ TNWs, including territorial seas
- ☐ Wetlands adjacent to TNWs
- ☐ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
- ☐ Non-RPWs that flow directly or indirectly into TNWs
- ☒ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs (**Wetland B**)
- ☒ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs (**Wetland C**)
- ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- ☐ Impoundments of jurisdictional waters
- ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Wetlands: **3.61** acres.

c. Limits (boundaries) of jurisdiction based on: **1987 Delineation Manual**

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

- ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain: **Wetlands A, D, E, F, X, Y, Z, AA, AB, and AC are not jurisdictional because they are hydrologically isolated from TNWs and RPWs that flow directly or indirectly into TNWs. These wetlands are isolated and are not expected to have any significant effects on the physical, chemical or biological integrity of the Econlockhatchee River, a TNW.**

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”: .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW (RPW at Wetland B)

(i) General Area Conditions:

Watershed size: **521 acres**

Drainage area: **521 acres**

Average annual rainfall: **52 inches**

Average annual snowfall: **0 inches**

(ii) Physical Characteristics:

(a) Relationship with TNW:

☒ Tributary flows directly into TNW.

☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **1 (or less)** river miles from TNW.

Project waters are **1 (or less)** river miles from RPW.

Project waters are **1 (or less)** aerial (straight) miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: **N/A.**

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to TNW⁵: **RPW is an intermittent stream channel that flows north through mixed forested wetlands and joins the Econlockhatchee River south of South Avalon Park Boulevard.**
Tributary stream order, if known: **2nd.**

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☒ Manipulated (man-altered). Explain: **The hydrology of the RPW has been altered by culverts, and historic riparian edge south of Alafaya Trail has been cleared for pasture/open land.**

Tributary properties with respect to top of bank (estimate):

Average width: **8** feet
Average depth: **2** feet
Average side slopes: **2:1.**

Primary tributary substrate composition (check all that apply):

☐ Silts	☒ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☒ Muck
☐ Bedrock	☒ Vegetation. Type/% cover: herbaceous/80	
☐ Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: **Stable, no erosion evident.**

Presence of run/riffle/pool complexes. Explain: **N/A.**

Tributary geometry: **Meandering**

Tributary gradient (approximate average slope): **2 %**

(c) Flow:

Tributary provides for: **Intermittent but not seasonal flow**

Estimate average number of flow events in review area/year: **11-20**

Describe flow regime: .

Other information on duration and volume: .

Surface flow is: **Confined.** Characteristics: .

Subsurface flow: **Unknown.** Explain findings: .

☐ Dye (or other) test performed: .

Tributary has (check all that apply):

☒ Bed and banks	
☐ OHWM ⁶ (check all indicators that apply):	
☐ clear, natural line impressed on the bank	☐ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☐ shelving	☐ the presence of wrack line
☐ vegetation matted down, bent, or absent	☐ sediment sorting
☐ leaf litter disturbed or washed away	☐ scour
☐ sediment deposition	☐ multiple observed or predicted flow events
☐ water staining	☐ abrupt change in plant community
☐ other (list):	
☐ Discontinuous OHWM. ⁷ Explain: .	

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

⁶ A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: **Water color is mostly clear.**

Identify specific pollutants, if known: .

(iv) **Biological Characteristics. Channel supports (check all that apply):**

☒ Riparian corridor. Characteristics (type, average width): **Riparian corridor in pasture areas approximately 150 feet wide, consisting of oaks and other hardwoods. Riparian corridor north of Alafaya Trail approximately 1,000 feet wide, consisting of mixed forested wetlands.**

☒ Wetland fringe. Characteristics: **Mostly mixed forested wetlands.**

☐ Habitat for:

☐ Federally Listed species. Explain findings: .

☐ Fish/spawn areas. Explain findings: .

☐ Other environmentally-sensitive species. Explain findings: .

☐ Aquatic/wildlife diversity. Explain findings: .

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW (Wetland C)**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: **2.23** acres

Wetland type. Explain: **freshwater marsh.**

Wetland quality. Explain: **Fair, impacted by cattle grazing and trampling.**

Project wetlands cross or serve as state boundaries. Explain: **N/A.**

(b) General Flow Relationship with Non-TNW:

Flow is: **Intermittent flow.** Explain: .

Surface flow is: **Overland sheetflow**

Characteristics: .

Subsurface flow: **Unknown.** Explain findings: .

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

☐ Directly abutting

☒ Not directly abutting

☐ Discrete wetland hydrologic connection. Explain: .

☒ Ecological connection. Explain: **Wetland C is connected through cypress domes to an intermittent RPW that flows east and joins the Econlockhatchee River, a TNW.**

☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **1 (or less)** river miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters.**

Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: **Water color is mostly clear.**

Identify specific pollutants, if known: .

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

☐ Riparian buffer. Characteristics (type, average width): .

☒ Vegetation type/percent cover. Explain: **herbaceous/100.**

☐ Habitat for:

☐ Federally Listed species. Explain findings: .

☐ Fish/spawn areas. Explain findings: .

☐ Other environmentally-sensitive species. Explain findings: .

☐ Aquatic/wildlife diversity. Explain findings: .

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
------------------------------	------------------------	------------------------------	------------------------

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: **Wetland C provides hydrologic detention and attenuation while also filtering pollutants. This wetland is part of a larger network of wetlands and RPWs that form a contiguous to semi-contiguous connection to TNWs in the region. As part of a larger system, this wetland provides some habitat, foraging, and refugia for wildlife, and in combination with adjacent wetlands, could have a significant effect on the physical, chemical, and biological integrity of the Econlockhatchee River.**

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
☐ TNWs: linear feet width (ft), Or, acres.
☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs. (RPW at Wetland B)**

- ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
- ☒ Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: **According to the USGS NHD data, the RPW at Wetland B has intermittent flow.**

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☒ Tributary waters: **115** linear feet **8** width (ft).
- ☐ Other non-wetland waters: acres.
- Identify type(s) of waters: .

3. **Non-RPWs⁸ that flow directly or indirectly into TNWs.**

- ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
- Identify type(s) of waters: .

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. (Wetland B)**

- ☒ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
- ☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
- ☒ Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **Based on review of aerial photography and field observations, Wetland B directly abuts an RPW.**

Provide acreage estimates for jurisdictional wetlands in the review area: **1.38** acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. (Wetland C)**

- ☒ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: **2.23** acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

- ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.⁹**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- ☐ Demonstrate that impoundment was created from “waters of the U.S.,” or
- ☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- ☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. **ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰**

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
- ☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- ☐ which are or could be used for industrial purposes by industries in interstate commerce.
- ☐ Interstate isolated waters. Explain: .
- ☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
- ☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- ☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- ☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - ☐ Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
- ☒ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: **Wetlands A, D, E, F, X, Y, Z, AA, AB, and AC are not jurisdictional because they are hydrologically isolated from TNWs and RPWs that flow directly or indirectly into TNWs. These wetlands are isolated and are not expected to have any significant effects on the physical, chemical or biological integrity of the Econlockhatchee River, a TNW.**
- ☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☒ Wetlands: **7.99** acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - ☐ Office concurs with data sheets/delineation report.
 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps: .
- ☐ Corps navigable waters' study: .
- ☒ U.S. Geological Survey Hydrologic Atlas: .
 - ☒ USGS NHD data.
 - ☒ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite scale & quad name: .
- ☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Project: **OUC Stanton Substation #17 to Curry Ford Substation Mid-span Transmission Structures**
Assessment Area: **Wetlands A, B, C, D, E, F, X, Y, Z, AA, AB, AC**

- ☐ National wetlands inventory map(s). Cite name: .
- ☐ State/Local wetland inventory map(s): .
- ☐ FEMA/FIRM maps: .
- ☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- ☒ Photographs: ☒ Aerial (Name & Date): **ESRI, 2009.**
or ☐ Other (Name & Date): .
- ☐ Previous determination(s). File no. and date of response letter: .
- ☐ Applicable/supporting case law: .
- ☐ Applicable/supporting scientific literature: .
- ☒ Other information (please specify): **St. Johns River Water Management District land use data, 2004, Florida Department of Environmental Protection drainage basin data, 1999, Florida Atlas & Gazetteer, 2006.**

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: **FL** County/parish/borough: **Orange** City: **Orlando**
Center coordinates of site (lat/long in degree decimal format): Lat. **28.503° N**, Long. **81.215° W**.
Universal Transverse Mercator:

Name of nearest waterbody: **Little Econlockhatchee River**

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **Little Econlockhatchee River**

Name of watershed or Hydrologic Unit Code (HUC): **Unnamed Drain/03080101**

☐ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: **3/9/10**

☒ Field Determination. Date(s): **11/20/09**

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

☐ Waters subject to the ebb and flow of the tide.

☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **are and are not** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply): ¹

- ☐ TNWs, including territorial seas
- ☐ Wetlands adjacent to TNWs
- ☐ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
- ☐ Non-RPWs that flow directly or indirectly into TNWs
- ☒ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs (**Wetlands G, H**)
- ☒ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs (**Wetlands M, O, Q**)
- ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- ☐ Impoundments of jurisdictional waters
- ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Wetlands: **15.96** acres.

c. Limits (boundaries) of jurisdiction based on: **1987 Delineation Manual**

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

- ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain: **Wetlands I, J, K, L, N, and P are not jurisdictional because they are hydrologically isolated from TNWs and RPWs that flow directly or indirectly into TNWs. These wetlands are isolated and are not expected to have any significant effects on the physical, chemical or biological integrity of the Little Econlockhatchee River, a TNW.**

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”: .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW (RPW at Wetlands G, H)

(i) General Area Conditions:

Watershed size: **602 acres**

Drainage area: **602 acres**

Average annual rainfall: **52 inches**

Average annual snowfall: **0 inches**

(ii) Physical Characteristics:

(a) Relationship with TNW:

☒ Tributary flows directly into TNW.

☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **2-5** river miles from TNW.

Project waters are **1 (or less)** river miles from RPW.

Project waters are **2-5** aerial (straight) miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: **N/A.**

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to TNW⁵: **RPW is a perennial stream that flows north and west and joins the Little Econlockhatchee River just west of South Dean Road.**

Tributary stream order, if known: **4th**.

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☒ Manipulated (man-altered). Explain: **The hydrology of the RPW has been altered by culverts**

and roadways.

Tributary properties with respect to top of bank (estimate):

Average width: **15 feet**

Average depth: **4 feet**

Average side slopes: **2:1**.

Primary tributary substrate composition (check all that apply):

☐ Silts ☒ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☒ Muck
☐ Bedrock ☒ Vegetation. Type/% cover: **herbaceous/50**
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Stable, no erosion evident.

Presence of run/riffle/pool complexes. Explain: N/A.

Tributary geometry: Meandering

Tributary gradient (approximate average slope): 2 %

(c) Flow:

Tributary provides for: Perennial flow

Estimate average number of flow events in review area/year: 20 (or greater)

Describe flow regime: .

Other information on duration and volume: .

Surface flow is: Confined. Characteristics: .

Subsurface flow: Unknown. Explain findings: .

☐ Dye (or other) test performed: .

Tributary has (check all that apply):

☒ Bed and banks
☐ OHWM⁶ (check all indicators that apply):

☐ clear, natural line impressed on the bank	☐ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☐ shelving	☐ the presence of wrack line
☐ vegetation matted down, bent, or absent	☐ sediment sorting
☐ leaf litter disturbed or washed away	☐ scour
☐ sediment deposition	☐ multiple observed or predicted flow events
☐ water staining	☐ abrupt change in plant community
☐ other (list):	

☐ Discontinuous OHWM.⁷ Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:

☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

⁶ A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: .

Identify specific pollutants, if known: .

(iv) **Biological Characteristics. Channel supports (check all that apply):**

☒ Riparian corridor. Characteristics (type, average width): **upland and wetland forests ranging from 800 to 5,000 feet wide.**

☒ Wetland fringe. Characteristics: **Mostly mixed forested wetlands.**

☐ Habitat for:

☐ Federally Listed species. Explain findings: .

☐ Fish/spawn areas. Explain findings: .

☐ Other environmentally-sensitive species. Explain findings: .

☐ Aquatic/wildlife diversity. Explain findings: .

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW (Wetlands M, O, Q)**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: **8.12** acres

Wetland type. Explain: **freshwater marsh, wet prairie.**

Wetland quality. Explain: **good.**

Project wetlands cross or serve as state boundaries. Explain: **N/A.**

(b) General Flow Relationship with Non-TNW:

Flow is: **Intermittent flow.** Explain: .

Surface flow is: **Overland sheetflow**

Characteristics: .

Subsurface flow: **Unknown.** Explain findings: .

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

☐ Directly abutting

☒ Not directly abutting

☐ Discrete wetland hydrologic connection. Explain: .

☒ Ecological connection. Explain: **Wetlands M, O, and Q are connected through cypress domes and mixed forested wetlands to a perennial RPW that flows north and west and joins the Little Econlockhatchee River.**

☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **2-5** river miles from TNW.

Project waters are **2-5** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters.**

Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: **Water color is mostly clear.**

Identify specific pollutants, if known: .

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

☒ Riparian buffer. Characteristics (type, average width): **upland and wetland forests ranging from 800 to 5,000 feet wide.**

☒ Vegetation type/percent cover. Explain: **herbaceous/100.**

☐ Habitat for:

☐ Federally Listed species. Explain findings: .

☐ Fish/spawn areas. Explain findings: .

☐ Other environmentally-sensitive species. Explain findings: .

☐ Aquatic/wildlife diversity. Explain findings: .

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
------------------------------	------------------------	------------------------------	------------------------

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: **Wetlands M, O, and Q provide hydrologic detention and attenuation while also filtering pollutants. These wetlands are part of a larger network of wetlands and RPWs that form a contiguous to semi-contiguous connection to TNWs in the region. As part of a larger system, these wetlands provide some habitat, foraging, and refugia for wildlife, and in combination with adjacent wetlands, could have a significant effect on the physical, chemical, and biological integrity of the Little Econlockhatchee River.**

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
☐ TNWs: linear feet width (ft), Or, acres.
☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs. (RPW at Wetlands G, H)**

- ☒ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: **According to the Florida Atlas & Gazetteer, the RPW at Wetlands G and H has perennial flow.**
- ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☒ Tributary waters: **115** linear feet **4** width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. **Non-RPWs⁸ that flow directly or indirectly into TNWs.**

- ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. (Wetlands G, H)**

- ☒ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
- ☒ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **Based on review of aerial photography and field observations, Wetlands G and H directly abut an RPW.**
- ☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: **7.84** acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. (Wetlands M, O, Q)**

- ☒ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: **8.12** acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

- ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.⁹**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- ☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
- ☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- ☐ which are or could be used for industrial purposes by industries in interstate commerce.
- ☐ Interstate isolated waters. Explain: .
- ☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
- Identify type(s) of waters: .
- ☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- ☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- ☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - ☐ Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
- ☒ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: **Wetlands I, J, K, L, N, and P are not jurisdictional because they are hydrologically isolated from TNWs and RPWs that flow directly or indirectly into TNWs. These wetlands are isolated and are not expected to have any significant effects on the physical, chemical or biological integrity of the Little Econlockhatchee River, a TNW.**
- ☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☒ Wetlands: **4.96** acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - ☐ Office concurs with data sheets/delineation report.
 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps: .
- ☐ Corps navigable waters' study: .
- ☒ U.S. Geological Survey Hydrologic Atlas: .
- ☒ USGS NHD data.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Project: **OUC Stanton Substation #17 to Curry Ford Substation Mid-span Transmission Structures**
Assessment Area: **Wetlands G, H, I, J, K, L, M, N, O, P, Q**

- ☒ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite scale & quad name: .
- ☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
- ☐ National wetlands inventory map(s). Cite name: .
- ☐ State/Local wetland inventory map(s): .
- ☐ FEMA/FIRM maps: .
- ☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- ☒ Photographs: ☒ Aerial (Name & Date): **ESRI, 2009.**
or ☐ Other (Name & Date): .
- ☐ Previous determination(s). File no. and date of response letter: .
- ☐ Applicable/supporting case law: .
- ☐ Applicable/supporting scientific literature: .
- ☒ Other information (please specify): **St. Johns River Water Management District land use data, 2004, Florida Department of Environmental Protection drainage basin data, 1999, Florida Atlas & Gazetteer, 2006.**

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: **FL** County/parish/borough: **Orange** City: **Orlando**
Center coordinates of site (lat/long in degree decimal format): Lat. **28.503° N**, Long. **81.242° W**.
Universal Transverse Mercator:

Name of nearest waterbody: **Little Econlockhatchee River**

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **Little Econlockhatchee River**

Name of watershed or Hydrologic Unit Code (HUC): **Little Econlockhatchee/03080101**

☐ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: **3/9/10**

☒ Field Determination. Date(s): **11/20/09**

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

☐ Waters subject to the ebb and flow of the tide.

☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **are and are not** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply): ¹

- ☐ TNWs, including territorial seas
- ☒ Wetlands adjacent to TNWs (**Wetlands S, T**)
- ☐ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
- ☐ Non-RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- ☐ Impoundments of jurisdictional waters
- ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Wetlands: **0.72** acres.

c. Limits (boundaries) of jurisdiction based on: **Pick List**

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

- ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain: **Wetland R is not jurisdictional because it is hydrologically isolated from TNWs and RPWs that flow directly or indirectly into TNWs. This wetland is isolated and is not expected to have any significant effects on the physical, chemical or biological integrity of the Little Econlockhatchee River, a TNW.**

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs (Wetlands S, T)

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: **Little Econlockhatchee River.**

Summarize rationale supporting determination: **The Little Econlockhatchee River is a navigable water of the U.S.**

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”: **Wetland S abuts forested wetlands that directly abut the Little Econlockhatchee River. Wetland T is adjacent to the Little Econlockhatchee River, separated from the river by a road.**

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW (RPW at Wetland S)

(i) General Area Conditions:

Watershed size: **1,518 Pick List**

Drainage area: **1,518 Pick List**

Average annual rainfall: **52 inches**

Average annual snowfall: **0 inches**

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: .

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to TNW⁵: .
Tributary stream order, if known: .

(b) **General Tributary Characteristics (check all that apply):**

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):

Average width: feet
Average depth: feet
Average side slopes: **Pick List**.

Primary tributary substrate composition (check all that apply):

☐ Silts	☐ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☐ Muck
☐ Bedrock	☐ Vegetation. Type/% cover:	
☐ Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .

Presence of run/riffle/pool complexes. Explain: .

Tributary geometry: **Pick List**

Tributary gradient (approximate average slope): %

(c) **Flow:**

Tributary provides for: **Pick List**

Estimate average number of flow events in review area/year: **Pick List**

Describe flow regime: .

Other information on duration and volume: .

Surface flow is: **Pick List**. Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

☐ Dye (or other) test performed: .

Tributary has (check all that apply):

☐ Bed and banks	
☐ OHWM ⁶ (check all indicators that apply):	
☐ clear, natural line impressed on the bank	☐ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☐ shelving	☐ the presence of wrack line
☐ vegetation matted down, bent, or absent	☐ sediment sorting
☐ leaf litter disturbed or washed away	☐ scour
☐ sediment deposition	☐ multiple observed or predicted flow events
☐ water staining	☐ abrupt change in plant community
☐ other (list):	
☐ Discontinuous OHWM. ⁷ Explain: .	

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☒ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

(iii) **Chemical Characteristics:**

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

⁶ A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: .

Identify specific pollutants, if known: .

(iv) Biological Characteristics. Channel supports (check all that apply):

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
 - ☐ Federally Listed species. Explain findings: .
 - ☐ Fish/spawn areas. Explain findings: .
 - ☐ Other environmentally-sensitive species. Explain findings: .
 - ☐ Aquatic/wildlife diversity. Explain findings: .

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size: . acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: .

Surface flow is: **Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

- ☐ Directly abutting
- ☐ Not directly abutting
 - ☐ Discrete wetland hydrologic connection. Explain: .
 - ☐ Ecological connection. Explain: .
 - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List**.

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

(iii) Biological Characteristics. Wetland supports (check all that apply):

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
 - ☐ Federally Listed species. Explain findings: .
 - ☐ Fish/spawn areas. Explain findings: .
 - ☐ Other environmentally-sensitive species. Explain findings: .
 - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
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Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
☐ TNWs: linear feet width (ft), Or, acres.
☒ Wetlands adjacent to TNWs: **0.72** acres.
2. **RPWs that flow directly or indirectly into TNWs.**
☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
☐ Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

- ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- ☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
☐ Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

- ☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

- ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- ☐ Demonstrate that impoundment was created from “waters of the U.S.,” or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰**Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.**

Project: **OUC Stanton Substation #17 to Curry Ford Substation Mid-span Transmission Structures**
Assessment Area: **Wetlands R, S, T**

- ☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- ☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☐ Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☒ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: **Wetland R is not jurisdictional because it is hydrologically isolated from TNWs and RPWs that flow directly or indirectly into TNWs. This wetland is isolated and is not expected to have any significant effects on the physical, chemical or biological integrity of the Little Econlockhatchee River, a TNW.**
☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☒ Wetlands: **0.08** acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: .
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☐ U.S. Geological Survey map(s). Cite scale & quad name: .
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): **ESRI, 2009.**
or ☐ Other (Name & Date): .
☐ Previous determination(s). File no. and date of response letter: .

Project: **OUC Stanton Substation #17 to Curry Ford Substation Mid-span Transmission Structures**

Assessment Area: **Wetlands R, S, T**

- ☐ Applicable/supporting case law: .
- ☐ Applicable/supporting scientific literature: .
- ☒ Other information (please specify): **St. Johns River Water Management District land use data, 2004, Florida Department of Environmental Protection drainage basin data, 1999, Florida Atlas & Gazetteer, 2006.**

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: **FL** County/parish/borough: **Orange** City: **Orlando**
Center coordinates of site (lat/long in degree decimal format): Lat. **28.503° N**, Long. **81.251° W**.
Universal Transverse Mercator:

Name of nearest waterbody: **Little Econlockhatchee River**

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **Little Econlockhatchee River**

Name of watershed or Hydrologic Unit Code (HUC): **Unnamed Drain/03080101**

☐ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: **3/9/10**

☒ Field Determination. Date(s): **11/20/09**

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

☐ Waters subject to the ebb and flow of the tide.

☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **are and are not** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- ☐ TNWs, including territorial seas
- ☐ Wetlands adjacent to TNWs
- ☒ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs (**Wetland U**)
- ☐ Non-RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- ☐ Impoundments of jurisdictional waters
- ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Wetlands: **0.53** acres.

c. Limits (boundaries) of jurisdiction based on: Pick List

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

- ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain: **Wetlands V and W are not jurisdictional because they are hydrologically isolated from TNWs and RPWs that flow directly or indirectly into TNWs. These wetlands are isolated and are not expected to have any significant effects on the physical, chemical or biological integrity of the Little Econlockhatchee River, a TNW.**

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”: .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: **Pick List**

Drainage area: **Pick List**

Average annual rainfall: inches

Average annual snowfall: inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: .

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to TNW⁵: .
Tributary stream order, if known: .

(b) **General Tributary Characteristics (check all that apply):**

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):

Average width: feet
Average depth: feet
Average side slopes: **Pick List**.

Primary tributary substrate composition (check all that apply):

☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .

Presence of run/riffle/pool complexes. Explain: .

Tributary geometry: Pick List

Tributary gradient (approximate average slope): %

(c) **Flow:**

Tributary provides for: Pick List

Estimate average number of flow events in review area/year: Pick List

Describe flow regime: .

Other information on duration and volume: .

Surface flow is: Pick List. Characteristics: .

Subsurface flow: Pick List. Explain findings: .

☐ Dye (or other) test performed: .

Tributary has (check all that apply):

☐ Bed and banks
☐ OHWM⁶ (check all indicators that apply):
☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):
☐ Discontinuous OHWM.⁷ Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☒ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) **Chemical Characteristics:**

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

⁶ A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: .

Identify specific pollutants, if known: .

(iv) Biological Characteristics. Channel supports (check all that apply):

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
 - ☐ Federally Listed species. Explain findings: .
 - ☐ Fish/spawn areas. Explain findings: .
 - ☐ Other environmentally-sensitive species. Explain findings: .
 - ☐ Aquatic/wildlife diversity. Explain findings: .

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size: . acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: .

Surface flow is: **Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

- ☐ Directly abutting
- ☐ Not directly abutting
 - ☐ Discrete wetland hydrologic connection. Explain: .
 - ☐ Ecological connection. Explain: .
 - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List**.

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

(iii) Biological Characteristics. Wetland supports (check all that apply):

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
 - ☐ Federally Listed species. Explain findings: .
 - ☐ Fish/spawn areas. Explain findings: .
 - ☐ Other environmentally-sensitive species. Explain findings: .
 - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
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Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
☐ TNWs: linear feet width (ft), Or, acres.
☐ Wetlands adjacent to TNWs: acres.
2. **RPWs that flow directly or indirectly into TNWs. (Wetland U)**
☒ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: **According to USGS NHD data, Wetland U consists of a perennial ditch that flows directly into the Little Econlockhatchee River to the south.**
☐ Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☒ Tributary waters: linear feet width (ft). **0.53 acres**
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

- ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- ☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
☐ Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

- ☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

- ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- ☐ Demonstrate that impoundment was created from “waters of the U.S.,” or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

- ☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- ☒ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☐ Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☒ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: **Wetlands V and W are not jurisdictional because they are hydrologically isolated from TNWs and RPWs that flow directly or indirectly into TNWs. These wetlands are isolated and are not expected to have any significant effects on the physical, chemical or biological integrity of the Little Econlockhatchee River, a TNW.**
☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☒ Wetlands: **0.57** acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: .
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☐ U.S. Geological Survey map(s). Cite scale & quad name: .
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): **ESRI, 2009.**
or ☐ Other (Name & Date): .

Project: **OUC Stanton Substation #17 to Curry Ford Substation Mid-span Transmission Structures**

Assessment Area: **Wetlands U, V, W**

- ☐ Previous determination(s). File no. and date of response letter: .
- ☐ Applicable/supporting case law: .
- ☐ Applicable/supporting scientific literature: .
- ☐ Other information (please specify): **St. Johns River Water Management District land use data, 2004, Florida Department of Environmental Protection drainage basin data, 1999, Florida Atlas & Gazetteer, 2006.**

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetland R - Ditch	
FLUCCs code 511		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.08 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Roadside ditch adjacent to Young Pine Road, continues outside of transmission line ROW adjacent to roadway.					
Assessment area description Mowed, maintained, and herbicided ditch adjacent to Young Pine Road. Dominant species in the ditch include cattail (<i>Typha latifolia</i>), torpedo grass (<i>Panicum repens</i>), arrowhead (<i>Sagittaria lancifolia</i>), soft rush (<i>Juncus effusus</i>), and maidencane (<i>Panicum hemitomon</i>)					
Significant nearby features Young Pine Road, apartment complex			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, natural water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible but unlikely occasional use by wading birds such as white ibis (SSC), little blue heron (SSC), snowy egret (SSC), or tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white tailed deer tracks					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Nov-09		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetland R - Ditch
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of excavated ditch adjacent to busy roadway within surrounding cleared transmission line ROW, and adjacent residential and commercial development. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 4, reduced due to disturbance from maintenance mowing/herbicide, surrounding development; b) Invasive exotic species = 4, significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 4, little benefit, artificial drainageway; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 4, artificial drainage feature; g) Dependency of downstream areas on assessment area = 2, minimal benefit to downstream areas.
	4		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to proximity of roadway, maintenance and herbicide application, artificial hydroperiod resulting from excavation of drainage ditch within surrounding disturbed landscape, and adjacent development. Individual parameter scores: a) water levels and flows = 3, artificial nature of excavated ditch; b) water level indicators = 4, altered hydroperiod due to excavated ditch; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 4, erosion from roadway, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 3, artificial system, significant upland species encroachment; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/changed hydrology; i) vegetative species tolerant of and associated with water quality degradation = 3, indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 3, high nutrients evident due to nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	4		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is reduced due to significant coverage of exotic/nuisance species, mowing, maintenance, herbicide application, and excavated, artificial nature of drainage ditch. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 4, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 4, artificial system, recruitment impacted by surrounding development and diminished hydroperiod; d) age & size distribution = 4, typical of artificial drainage ditch, impacted due to maintenance; e) density and quality of coarse woody debris, snag den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 4, artificial excavated system; i) siltation or algal growth in submerged aquatic plant communities = N/A
	4		

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.40	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.4

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetlands D, I, S, X, Y, Z - Ditches	
FLUCCs code 511		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.58 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Ditches are generally located along the edge of the cleared transmission line right-of-way or adjacent to roads. They typically connect to other ditches, surface waters, or wetlands.					
Assessment area description Ditches within cleared transmission line right-of-way, dominated by a variety of native and nuisance/exotic species such as torpedo grass (<i>Panicum repens</i>), marsh pennywort (<i>Hydrocotyle unmbellata</i>), cattail (<i>Typha</i> sp.), maidencane (<i>Panicum hemitomon</i>), water hyssop (<i>Bacopa caroliniana</i>), smartweed (<i>Polygonum</i> sp.), bunched beaksedge (<i>Rhychospora cephalantha</i>), yellow-eyed grass (<i>Xyris</i> sp.), needlepod rush (<i>Juncus scirpoides</i>) coinwort (<i>Centella asiatica</i>), spike rush (<i>Eleocharis</i> sp.) and dogfennel (<i>Eupatorium capillifolium</i>).					
Significant nearby features Transmission line right-of-way, Young Pine Road, Stanton Energy Center		Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape			
Functions Wildlife habitat, water treatment and storage		Mitigation for previous permit/other historic use N/A			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible but unlikely occasional use by wading birds such as white ibis (SSC), little blue heron (SSC), snowy egret (SSC), or tricolor heron (SSC).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock		Assessment date(s): 11/24/2009			

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetlands D, I, S, X, Y, Z - Ditches
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
--	---	---	--	---

.500(6)(a) Location and Landscape Support w/o pres or current 6 with	Location and landscape support variable is reduced due to location of excavated ditches within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, somewhat reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 6, moderate coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 5, moderate benefit, artificial drainageways; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, artificial drainage features connect to adjacent areas; g) Dependency of downstream areas on assessment area = 5, moderate benefit to downstream areas.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 4 with	The water environment score is reduced due to artifical hydroperiod resulting from excavation of drainage ditches within surrounding disturbed landscape. Individual parameter scores: a) water levels and flows = 3, artificial nature of excavated ditches; b) water level indicators = 4, altered hydroperiod due to to excavated ditches; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 4, erosion from livestock, roadways, adjacent landuses e) evidence of fire history = N/A; f) vegetation community zonation = 3, artificial system, significant upland species encroachment; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/alterd hydrology; i) vegetative species tolerant of and associated with water quality degradation = 3, indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 3, high nutrients evident due to algal growth and nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 4 with	The community structure variable is reduced due to significant coverage of exotic/nuisance species and excavated, artifical nature of drainage ditches. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 4, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 4, artifical system, recruitment impacted by surrounding development and diminished hydroperiod; d) age & size distribution = 4, typical of artifical drainage ditch, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 4, artifical excavated system; i) siltation or algal growth in submerged aquatic plant communities = N/A

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres 0.47 with

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.47

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

**PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)**

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetland M - Ditch	
FLUCCs code 511		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.33 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Ditch within transmission line right-of-way; connects to cypress strand located north and south of the transmission line right-of-way.					
Assessment area description Ditch vegetated with a variety of herbaceous species including maidencane (<i>Panicum hemitomon</i>), torpedo grass (<i>Panicum repens</i>), pickerelweed (<i>Pontederia cordata</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), coinwort (<i>Centella asiatica</i>), spike rush (<i>Eleocharis</i> sp.), marsh fleabane (<i>Pluchea</i> sp.), smartweed (<i>Polygonum</i> sp.), and soft rush (<i>Juncus effusus</i>).					
Significant nearby features Transmission line right-of-way, residential areas		Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape			
Functions Wildlife habitat, water treatment and storage		Mitigation for previous permit/other historic use N/A			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible but unlikely occasional use by wading birds such as white ibis (SSC), little blue heron (SSC), snowy egret (SSC), or tricolor heron (SSC).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock		Assessment date(s): 11/24/2009			

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetland M - Ditch
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support w/o pres or current with 6	Location and landscape support variable is reduced due to location of excavated ditch within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, somewhat reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 6, moderate coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 5, moderate benefit, artificial drainageways; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, artificial drainage features connect to adjacent areas; g) Dependency of downstream areas on assessment area = 5, moderate benefit to downstream areas.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 6	The water environment score is reduced due to artifical hydroperiod resulting from excavation of drainage ditch within surrounding cleared transmission line right-of-way. Individual parameter scores: a) water levels and flows = 5, artificial nature of excavated ditch; b) water level indicators = 5, altered hydroperiod due to excavated ditch; c) soil moisture = 7, consistent with expected; d) soil erosion or deposition = 8, minimal erosion; e) evidence of fire history = N/A; f) vegetation community zonation = 7, typical of assessment area; g) hydrologic stress on vegetation = 7, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/changed hydrology; i) vegetative species tolerant of and associated with water quality degradation = 7 exotic species present; j) direct observation of water quality = 6, moderate nutrient enrichment likely due to presence of nuisance/exotic vegetation, transmission line ROW maintenance; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6	The community structure variable is reduced due to moderate coverage of exotic/nuisance species and excavated, artificial nature of the drainage ditch. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 4, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 7, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 4, artificial system, recruitment impacted by ROW maintenance; d) age & size distribution = 6, typical of artificial drainage ditch, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, minimal surrounding development, reduced due to routine maintenance; h) topographic features = 6, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A

Score = sum of above scores/30 (if uplands, divide by 20)
current w/o pres with
0.60

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.6

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetland AB - Reservoir	
FLUCCs code 534		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.74 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Isolated reservoir within transmission line right-of-way.					
Assessment area description Vegetation within the littoral zone of the reservoir includes cattail (<i>Typha latifolia</i>), dwarf umbrellasedge (<i>Fuirena pumila</i>), mermaid weed (<i>Prosperpinaca</i> sp.), dogfennel (<i>Eupatorium capillifolium</i>), goldenrod (<i>Solidago</i> sp.), and bushy broomsedge (<i>Andropogon glomeratus</i>)					
Significant nearby features Transmission line right-of-way, Innovation Way, Stanton Energy Center			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, forage fishes, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): 12/3/2009		

PART II A – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetland AB - Reservoir
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-09

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of excavated reservoir adjacent to roadway within surrounding cleared transmission line ROW, and adjacent industrial facility. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 4, reduced due to disturbance from maintenance mowing/herbicide, surrounding development; b) Invasive exotic species = 4, significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 2, little benefit, isolated reservoir; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 2, artificial isolated feature; g) Dependency of downstream areas on assessment area = 2, minimal benefit to downstream areas.
	4		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to proximity of roadway, artifical hydroperiod resulting from excavation of reservoir within surrounding disturbed landscape, and adjacent development. Individual parameter scores: a) water levels and flows = 3, artificial nature of excavation; b) water level indicators = 4, altered hydroperiod due to excavated reservoir; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 4, erosion from roadway, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 3, artificial system, limited littoral zone; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 3, some indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 3, high nutrients evident due to nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	4		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is reduced due to significant coverage of exotic/nuisance species, mowing, maintenance, herbicide application, and excavated, artificial nature of reservoir. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 4, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 4, artificial system, recruitment impacted by surrounding development and diminished hydroperiod; d) age & size distribution = 4, typical of artificial reservoir, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 4, artificial excavated system; i) siltation or algal growth in submerged aquatic plant communities = N/A
	4		

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.40	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.4

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetland B - Reservoir	
FLUCCs code 534		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 1.38 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Isolated reservoir within transmission line right-of-way.					
Assessment area description Isolated reservoir located south of Innovation Way, vegetated with a mixture of nuisance/exotic and native species, including cattail (<i>Typha latifolia</i>), torpedo grass (<i>Panicum repens</i>), Peruvian primrose willow (<i>Ludwigia peruviana</i>), soft rush (<i>Juncus effusus</i>), coastal plain willow (<i>Salix caroliniana</i>), pickerelweed (<i>Pontederia cordata</i>), rattlebox (<i>Sesbania</i> sp.), buttonbush (<i>Cephalanthus occidentalis</i>), bushy broomsedge (<i>Andropogon glomeratus</i>), dogfennel (<i>Eupatorium capillifolium</i>), and spatterdock (<i>Nuphar luteum</i>).					
Significant nearby features Transmission line right-of-way, Innovation Way, Stanton Energy Center		Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape			
Functions Wildlife habitat, water treatment and storage		Mitigation for previous permit/other historic use N/A			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, forage fishes, herpetofauna		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors: 					
Assessment conducted by: M. Arrants, K. Bullock		Assessment date(s): 11/20/2009			

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetland B - Reservoir
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support w/o pres or current 6	Location and landscape support variable is reduced due to location of excavated reservoir within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, somewhat reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 6, moderate coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 4, minimal benefit, isolated feature; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 4, isolated system; g) Dependency of downstream areas on assessment area = 4, little benefit to downstream areas.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 4	The water environment score is reduced due to proximity of roadway, artificial hydroperiod resulting from excavation of reservoir within surrounding disturbed landscape, and adjacent development. Individual parameter scores: a) water levels and flows = 3, artificial nature of excavation; b) water level indicators = 4, altered hydroperiod due to excavated reservoir; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 4, erosion from roadway, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 3, artificial system, limited littoral zone; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 3, some indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 3, high nutrients evident due to nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 6	The community structure variable is reduced due to moderate coverage of exotic/nuisance species and excavated, artificial nature of the reservoir. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 4, artificial system, recruitment impacted by ROW maintenance; d) age & size distribution = 6, typical of isolated reservoir, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, minimal surrounding development, reduced due to routine maintenance; h) topographic features = 6, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres 0.53

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.53

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetland T - Freshwater Marsh	
FLUCCs code 641		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.36 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connects to ditch adjacent to State Road 417					
Assessment area description Freshwater marsh adjacent to SR 417 dominated by nuisance/exotic species cattail (<i>Typha latifolia</i>) and torpedo grass (<i>Panicum repens</i>), with subdominant species including buttonbush (<i>Cephalanthus occidentalis</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), pickereelweed (<i>Pontederia cordata</i>), soft rush (<i>Juncus effusus</i>), yellow-eyed grass (<i>Xyris</i> sp.), sedges (<i>Cyperus</i> sp.), and dogfennel (<i>Eupatorium capillifolium</i>).					
Significant nearby features Transmission line right-of-way, State Road 417			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): 11/24/2009		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetland T - Freshwater Marsh
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support	w/o pres or current	4	with	Location and landscape support variable is reduced due to location of marsh adjacent to roadway within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 4, reduced due to disturbance from maintenance mowing/herbicide, surrounding development; b) Invasive exotic species = 4, significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 4, little benefit; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 4, connected to artificial excavated ditch under SR 417; g) Dependency of downstream areas on assessment area = 4 little benefit to downstream areas.
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	5	with	The water environment score is reduced due to proximity of roadway, surrounding disturbed landscape, and adjacent development. Individual parameter scores: a) water levels and flows = 5, marginal hydroperiod; b) water level indicators = 5, altered hydroperiod due to adjacent roadway, clearing; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 5, erosion from roadway, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 6, some upland encroachment noted; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/alterd hydrology; i) vegetative species tolerant of and associated with water quality degradation = 5, some indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 5, high nutrients likely due to nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	6	with	The community structure variable is reduced due to dominance of exotic/nuisance species and disturbed landscape Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 5, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 6, recruitment impacted by ROW maintenance; d) age & size distribution = 6, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, reduced due to routine maintenance; h) topographic features = 6, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.50	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.5

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetlands C, H, F, K, L - Freshwater Marsh	
FLUCCs code 641		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 14.42 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Freshwater marsh areas adjacent to forested upland and wetland systems outside of the right-of-way.					
Assessment area description Freshwater marsh areas supporting a variety of native and nuisance/exotic species of vegetation, including bunched beaksedge (<i>Rhynchospora cephalantha</i>), dwarf umbrella grass (<i>Fuirena pumila</i>), pickerelweed (<i>Pontederia cordata</i>), coinwort (<i>Centella asiatica</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), spikerush (<i>Eleocharis</i> sp.), water hyssop (<i>Bacopa monnieri</i>), cattail (<i>Typha latifolia</i>), sawgrass (<i>Cladium jamaicense</i>), torpedo grass (<i>Panicum repens</i>), soft rush (<i>Juncus effusus</i>), piedmont primrose willow (<i>Ludwigia arcuata</i>), and sundew (<i>Drosera</i> sp.).					
Significant nearby features Transmission line right-of-way		Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape			
Functions Wildlife habitat, water treatment and storage		Mitigation for previous permit/other historic use N/A			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC), as well as foraging by American alligator (S/A).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): American alligator in excavated pond within wetland F. Great blue heron, great egret, and American alligator in pond outside of ROW, south of Wetland C.					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock		Assessment date(s): 11/24/2009			

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetlands C, H, F, K, L - Freshwater Marsh
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
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		Location and landscape support variable is reduced due to location of marshes within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 7, slightly reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 7, some coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 6, moderate benefit, limited connections to downstream areas; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, moderate benefit; g) Dependency of downstream areas on assessment area = 6, moderate benefit to downstream areas.
w/o pres or current	with	
6		
.500(6)(b)Water Environment (n/a for uplands)		The water environment score is slightly reduced due to location within surrounding cleared transmission line right-of-way and alteration of drainage patterns. Individual parameter scores: a) water levels and flows = 7, altered due to land clearing, ditching; b) water level indicators = 7, somewhat reduced compared to typical; c) soil moisture = 7, consistent with expected; d) soil erosion or deposition = 8, minimal erosion; e) evidence of fire history = N/A; f) vegetation community zonation = 7, typical of assessment area; g) hydrologic stress on vegetation = 7, some upland and transitional species encroachment; h) use by animal species with specific hydrological requirements = 6, due to surrounding altered landscape/changed hydrology; i) vegetative species tolerant of and associated with water quality degradation = 7, some exotic species present; j) direct observation of water quality = 7, some nutrient enrichment likely due to presence of nuisance/exotic vegetation, transmission line ROW maintenance; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
w/o pres or current	with	
7		
.500(6)(c)Community structure		The community structure variable is slightly reduced due to presence of exotic/nuisance species and disturbance due to right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 7, maintenance typically removes shrub/canopy stratum, variety of native species, some non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 7, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 7, recruitment impacted by ROW maintenance; d) age & size distribution = 6, typical of assessment area type, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, reduced due to routine maintenance; h) topographic features = 7, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A
1. Vegetation and/or 2. Benthic Community		
w/o pres or current	with	
7		

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
0.67	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.67

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetlands W, AC - Wet Prairie	
FLUCCs code 643		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.35 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e. OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Disturbed wet prairies, connect to adjacent upland and wetland areas within and outside of the right-of-way					
Assessment area description Disturbed, mowed wet prairies, vegetated with nuisance/exotic species torpedo grass (<i>Panicum hemitomon</i>) and wild taro (<i>Colocasia esculenta</i>), as well as bermuda grass (<i>Cynodon dactylon</i>), redroot (<i>Lachnanthes caroliniana</i>), sundew (<i>Drosera</i> sp.), yellow-eyed grass (<i>Xyris</i> sp.), dogfennel (<i>Eupatorium capillifolium</i>), soft rush (<i>Juncus effusus</i>), and primrose willow (<i>Ludwigia octovalvis</i>).					
Significant nearby features Transmission line right-of-way, Curry Ford substation, Stanton Energy Center			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Potential, but unlikely occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC) and tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): 11/24/2009		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetlands W, AC - Wet Prairie
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support	w/o pres or current	5	with	Location and landscape support variable is reduced due to location of wet prairies within surrounding cleared transmission line ROW, proximity of substations and Stanton Energy Center. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 5, reduced due to location within cleared transmission line ROW, adjacent development; b) Invasive exotic species = 5, significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 4, minimal benefit; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 4, berms/roadways reduce connections; g) Dependency of downstream areas on assessment area = 4, little benefit to downstream areas.
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	4	with	The water environment score is reduced due to proximity of development, cleared landscape, and marginal hydrology. Individual parameter scores: a) water levels and flows = 4, marginal hydrology; b) water level indicators = 4, less than typical for assessment area type; c) soil moisture = 5, drier than expected; d) soil erosion or deposition = 4, erosion from roadways, maintenance, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 4, upland encroachment evident; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/alterd hydrology; i) vegetative species tolerant of and associated with water quality degradation = 5, some indication of potential high nutrients, torpedo grass dominance; j) direct observation of water quality = N/A, no water present; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	4	with	The community structure variable is reduced due to significant coverage of exotic/nuisance species, mowing, and right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 4, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 4, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 4, recruitment impacted by surrounding development and diminished hydroperiod; d) age & size distribution = 4, typical of wet prairie, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 4, altered topography due to landclearing; i) siltation or algal growth in submerged aquatic plant communities = N/A

Score = sum of above scores/30 (if uplands, divide by 20)		
current		with
or w/o pres	0.43	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.43

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetlands J, AA - Wet Prairie	
FLUCCs code 643		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.11 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Disturbed wet prairies, connect to adjacent upland and wetland areas within and outside of the right-of-way					
Assessment area description Disturbed, mowed wet prairies, vegetated with nuisance/exotic species torpedo grass (<i>Panicum hemitomon</i>), as well as goatweed (<i>Scoparia dulcis</i>), spikerush (<i>Eleocharis</i> sp.), capeweed (<i>Phyla nodiflora</i>), dwarf umbrella grass (<i>Fuirena pumila</i>), soft rush (<i>Juncus effusus</i>), and piedmont primrose willow (<i>Ludwigia arcuata</i>).					
Significant nearby features Transmission line right-of-way, Curry Ford substation, Stanton Energy Center		Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape			
Functions Wildlife habitat, water treatment and storage		Mitigation for previous permit/other historic use N/A			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Potential, but unlikely occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC) and tricolor heron (SSC).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors: 					
Assessment conducted by: M. Arrants, K. Bullock		Assessment date(s): 11/24/2009			

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetlands J, AA - Wet Prairie
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support w/o pres or current 5		with	Location and landscape support variable is reduced due to location of wet prairies within surrounding cleared transmission line ROW, proximity of development. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 5, reduced due to location within cleared transmission line ROW, adjacent development; b) Invasive exotic species = 5, significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 4, minimal benefit; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 4, berms/roadways reduce connections; g) Dependency of downstream areas on assessment area = 4, little benefit to downstream areas.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 5		with	The water environment score is reduced due to proximity of development, cleared landscape, and marginal hydrology. Individual parameter scores: a) water levels and flows = 5, marginal hydrology; b) water level indicators = 5, less than typical for assessment area type; c) soil moisture = 5, drier than expected; d) soil erosion or deposition = 6, some erosion from roadways, maintenance, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 5, upland encroachment evident; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 5, some indication of potential high nutrients, torpedo grass dominance; j) direct observation of water quality = N/A, no water present; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 6		with	The community structure variable is somewhat reduced due to coverage of exotic/nuisance species torpedo grass, mowing, and right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 6, recruitment impacted by ROW maintenance and diminished hydroperiod; d) age & size distribution = 5, typical of wet prairie, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 6, somewhat altered topography due to landclearing, development; i) siltation or algal growth in submerged aquatic plant communities = N/A

Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres 0.53	with
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If preservation as mitigation, Preservation adjustment factor = Adjusted mitigation delta =

For impact assessment areas FL = delta x acres =

Delta = [with-current] 0.53

If mitigation Time lag (t-factor) = Risk factor =

For mitigation assessment areas RFG = delta/(t-factor x risk) =
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PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford		Application Number		Assessment Area Name or Number Wetlands A, E, G, N, O, P, Q, U, V - Wet Prairie	
FLUCCs code 643		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 16.03 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wet prairies, connect to adjacent upland and wetland areas within and outside of the right-of-way					
Assessment area description Wet prairies within cleared transmission line right-of-way. Typically no inundation, but mucky hydric soils and low growth of herbaceous wetland vegetation, including primrose willow (<i>Ludwigia octovalvis</i> , <i>L. arcuata</i>), spikerush (<i>Eleocharis</i> sp.), sundew (<i>Drosera</i> sp.), chamber bitter (<i>Phyllanthus urinaria</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), coinwort (<i>Centella asiatica</i>), torpedo grass (<i>Panicum hemitomon</i>), bushy broomsedge (<i>Andropogon glomeratus</i>), yellow-eyed grass (<i>Xyris</i> sp.), bunched beaksedge (<i>Rhynchospora cephalantha</i>), club moss (<i>Lycopodiella</i> sp.), water hyssop (<i>Bacopa monnieri</i>), smartweed (<i>Polygonum</i> sp.), pickerelweed (<i>Pontederia cordata</i>), capeweed (<i>Phyla nodiflora</i>), dwarf umbrella grass (<i>Fuirena pumila</i>), and soft rush (<i>Juncus effusus</i>).					
Significant nearby features Transmission line right-of-way, Curry Ford substation, Stanton Energy Center		Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape			
Functions Wildlife habitat, water treatment and storage		Mitigation for previous permit/other historic use N/A			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Potential, but unlikely occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC) and tricolor heron (SSC).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock		Assessment date(s): 11/24/2009			

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Stanton to Curry Ford	Application Number	Assessment Area Name or Number Wetlands A, E, G, N, O, P, Q, U, V - Wet Prairie
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-09

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	w/o pres or current	with	Location and landscape support variable is reduced due to location of wet prairies within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, slightly reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 6, some coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 6, moderate benefit, limited connections to downstream areas; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, moderate benefit; g) Dependency of downstream areas on assessment area = 6, moderate benefit to downstream areas.
	6		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to proximity of development, cleared landscape, and marginal hydrology. Individual parameter scores: a) water levels and flows = 6, reduced hydroperiod compared to typical assessment area type; b) water level indicators = 6, less than typical for assessment area type; c) soil moisture = 6, somewhat drier than expected; d) soil erosion or deposition = 6, some erosion from roadways, maintenance, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 6, moderate upland encroachment evident; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 6, due to surrounding altered landscape/alterd hydrology; i) vegetative species tolerant of and associated with water quality degradation = 7, minimal; j) direct observation of water quality = N/A, no water present; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	6		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is somewhat reduced due to presence of exotic/nuisance species, mowing, and right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 6, recruitment impacted by ROW maintenance and diminished hydroperiod; d) age & size distribution = 5, typical of wet prairie, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 6, somewhat altered topography due to landclearing, development; i) siltation or algal growth in submerged aquatic plant communities = N/A
	6		

Score = sum of above scores/30 (if uplands, divide by 20)		
current		with
or w/o pres		
0.60		

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.6

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =