



**Progress Energy**

# Levy Nuclear Plant – Transmission Lines

Wetland Delineation /  
Threatened & Endangered Species Assessment

FDEP PA08-51B and  
USACE SAJ-2008-00490 (IP-GAH)

## Substations

Central Florida South

Citrus

Crystal River Energy Complex

Kathleen

April 2010





April 8, 2010

093-89547

Ms. Amy Dierolf  
Progress Energy Florida, Inc.  
299 First Avenue North  
St. Petersburg, FL 33701

**RE: LEVY NUCLEAR PLANT – TRANSMISSION LINES  
WETLAND DELINEATION/THREATENED & ENDANGERED SPECIES ASSESSMENT  
ENVIRONMENTAL RESOURCE PERMIT APPLICATION SUPPORTING DOCUMENTS  
CENTRAL FLORIDA SOUTH, CITRUS, CRYSTAL RIVER ENERGY COMPLEX, AND  
KATHLEEN SUBSTATIONS**

Dear Ms. Dierolf:

Please find attached the following deliverable of supporting documents for the Central Florida South, Citrus, Crystal River Energy Complex, and Kathleen Substations Environmental Resource Permit applications. These documents are considered final, according to the signed records of document review:

- I. Figures
  - 1. General Location Map
  - 2. USGS Topographic Map
  - 3. Aerial Map
  - 4. Soils Map
  - 5. Habitat Classification Map
  - 6. Listed Species Map
  - 7. FEMA 100 Year Floodplain Map
- II. Tables
  - A. Wetland Descriptions
  - B. Protected Plants and Animals Potentially Occurring at the Substation
- III. Wetland Survey (signed/sealed .pdf and electronic .dwg formats)
- IV. ACOE Wetland Datasheets
- V. ACOE Jurisdictional Determination Forms
- VI. Uniform Mitigation Assessment Method Forms
- VII. Florida Natural Areas Inventory Element Occurrence Report
- VIII. Wetland Impact Summary Table (Citrus, CREC, and Kathleen Substations)

Golder appreciates the continued opportunity to provide environmental services to you. Please let us know if you have any questions concerning these documents.

**GOLDER ASSOCIATES INC.**

Karl Bullock  
Project Director

Manitia Moultrie  
Project Manager



Golder Associates Inc.  
6026 NW 1st Place  
Gainesville, FL 32607 USA  
Tel: (352) 336-5600 Fax: (352) 336-6603 [www.golder.com](http://www.golder.com)



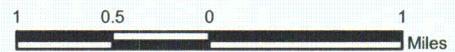
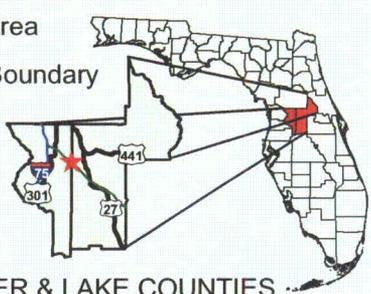
Golder Associates: Operations in Africa, Asia, Australasia, Europe, North America and South America

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**LEGEND**

- Toll Road
- State Road
- County Road
- Railroad
- Project Area
- County Boundary



**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; Railroads: FDEP, 1992; County Boundaries: U.S. Census Bureau, 2000; BaseMap: StreetMap USA, 2007

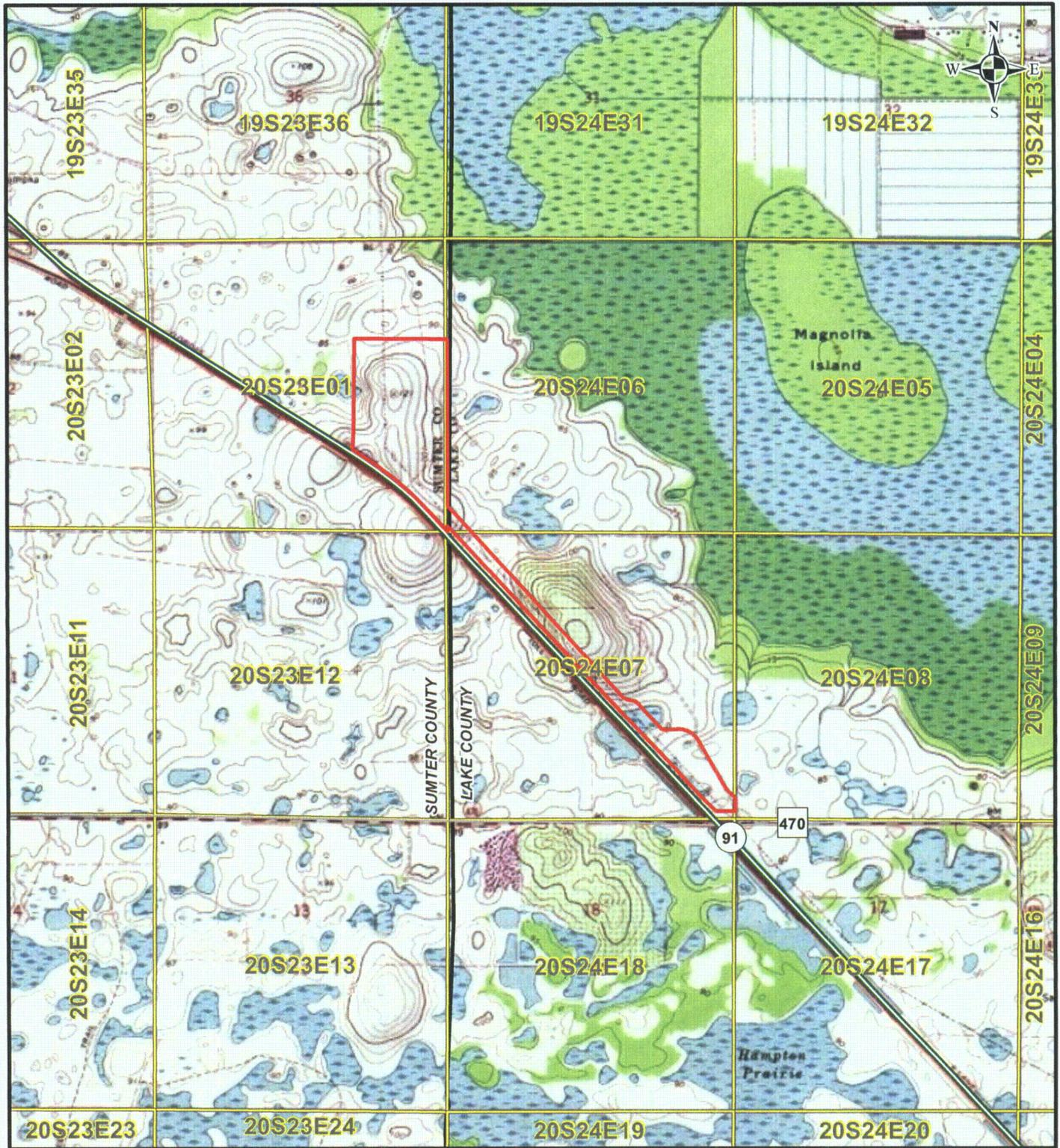
**SUMTER & LAKE COUNTIES**

PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
GENERAL LOCATION MAP**



MXD File No. 093-89547A001	SCALE AS SHOWN	REV. 0
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GIS DLH 10 Feb 2010		
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REVIEW KB 10 Feb 2010		

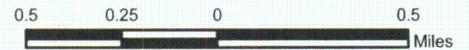


**LEGEND**

- Project Area
- Township-Range-Section
- County Boundary

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J 2009; Roads: Florida Department of Transportation, 2010; USGS Topographic Map: National Geographic Society, 2009; Township-Range-Section: Florida Department of Environmental Protection, 1994; County Boundary: US Census Bureau, 2000



PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
USGS TOPOGRAPHIC MAP**



MXD File No. 093-89547A002	SCALE AS SHOWN	REV. 0
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REVIEW KB 10 Feb 2010		

**FIGURE 2**

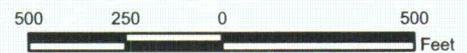
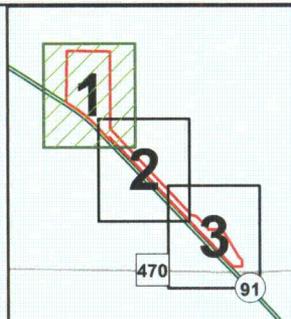
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**LEGEND**

- Project Area
- County Boundary

**MAP INDEX**



**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009;  
 Roads: Florida Department of Transportation, 2010; Aerials: ESRI 2009

PROGRESS ENERGY FLORIDA  
 LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
 AERIAL MAP**



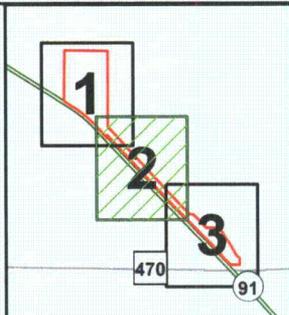
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DESIGN DLH 22 Sept 2009	<b>FIGURE 3 PAGE 1 OF 3</b>	
GIS DLH 10 Feb 2010		
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REVIEW KB 10 Feb 2010		



**LEGEND**

- Project Area
- County Boundary

**MAP INDEX**



**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009;  
 Roads: Florida Department of Transportation, 2010; Aerials: ESRI 2009

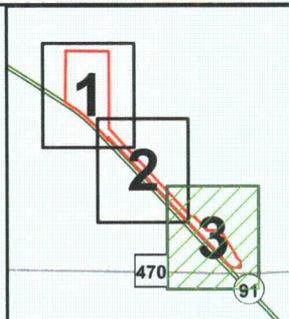
<b>PROGRESS ENERGY FLORIDA LEVY NUCLEAR PLANT</b>			
<b>CENTRAL FLORIDA SOUTH SUBSTATION AERIAL MAP</b>			
	MXD File No. 093-89547A003	SCALE AS SHOWN	REV. 0
	DESIGN DLH 22 Sept 2009	<b>FIGURE 3 PAGE 2 OF 3</b>	
	GIS DLH 10 Feb 2010		
	CHECK SAR 10 Feb 2010		
	REVIEW KB 10 Feb 2010		



**LEGEND**

- Project Area
- County Boundary

**MAP INDEX**



**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009;  
 Roads: Florida Department of Transportation, 2010; Aerials: ESRI 2009

PROGRESS ENERGY FLORIDA  
 LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
 AERIAL MAP**



MXD File No. 093-89547A003	SCALE AS SHOWN	REV. 0
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**FIGURE 4  
CENTRAL FLORIDA SOUTH SUBSTATION  
SOILS MAP**

**SOIL IDENTIFICATION TABLE**

<b>SOIL ID</b>	<b>DESCRIPTION</b>	<b>COUNTY</b>
4-S	CANDLER SAND/0 TO 5 PERCENT SLOPES	SUMTER
6-S	KENDRICK FINE SAND/0 TO 5 PERCENT SLOPES	SUMTER
10-S	SPARR FINE SAND/0 TO 5 PERCENT SLOPES	SUMTER
11-S	MILLHOPPER SAND/0 TO 5 PERCENT SLOPES	SUMTER
13-S	TAVARES FINE SAND/0 TO 5 PERCENT SLOPES	SUMTER
16-S	APOPKA FINE SAND/0 TO 5 PERCENT SLOPES	SUMTER
19-S	APOPKA FINE SAND/5 TO 8 PERCENT SLOPES	SUMTER
30-S	PLACID FINE SAND/DEPRESSIONAL	SUMTER
31-S	MYAKKA SAND	SUMTER
37-S	ASTATULA FINE SAND/0 TO 8 PERCENT SLOPES	SUMTER
42-S	ADAMSVILLE FINE SAND	SUMTER
43-S	BASINGER FINE SAND/DEPRESSIONAL	SUMTER
99-S	WATER	SUMTER
3-L	ARENTS-URBAN LAND COMPLEX	LAKE
5-L	ANCLOTE MYAKKA AND FELDA SOILS/DEPRESSIONAL	LAKE
7-L	APOPKA SAND/5 TO 12 PERCENT SLOPES	LAKE
9-L	APOPKA SAND/5 TO 12 PERCENT SLOPES	LAKE
13-L	CANDLER SAND/0 TO 5 PERCENT SLOPES	LAKE
19-L	ELLZEY SAND	LAKE
25-L	IMMOKALEE SAND	LAKE
26-L	KENDRICK SAND/0 TO 5 PERCENT SLOPES	LAKE
35-L	MYAKKA SAND	LAKE
41-L	ORSINO SAND	LAKE
47-L	PLACID AND MYAKKA SANDS/DEPRESSIONAL	LAKE
50-L	POMPANO SAND	LAKE
55-L	SPARR SAND/0 TO 5 PERCENT SLOPES	LAKE
57-L	TAVARES SAND/0 TO 5 PERCENT SLOPES	LAKE
99-L	WATER	LAKE

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**LEGEND**

- Project Area
- County Boundary
- Soil Boundary

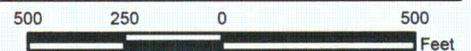
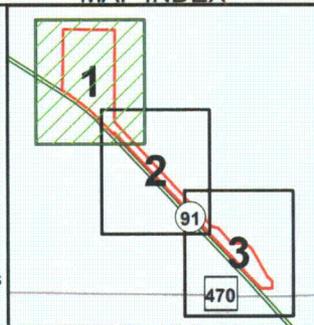
**NOTE**

See Figure 4 Soil Identification Table for Soil Definitions

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; Soils: U.S. Department of Agriculture, Natural Resources Conservation Service, 2006; Aerials: ESRI, 2009

**MAP INDEX**

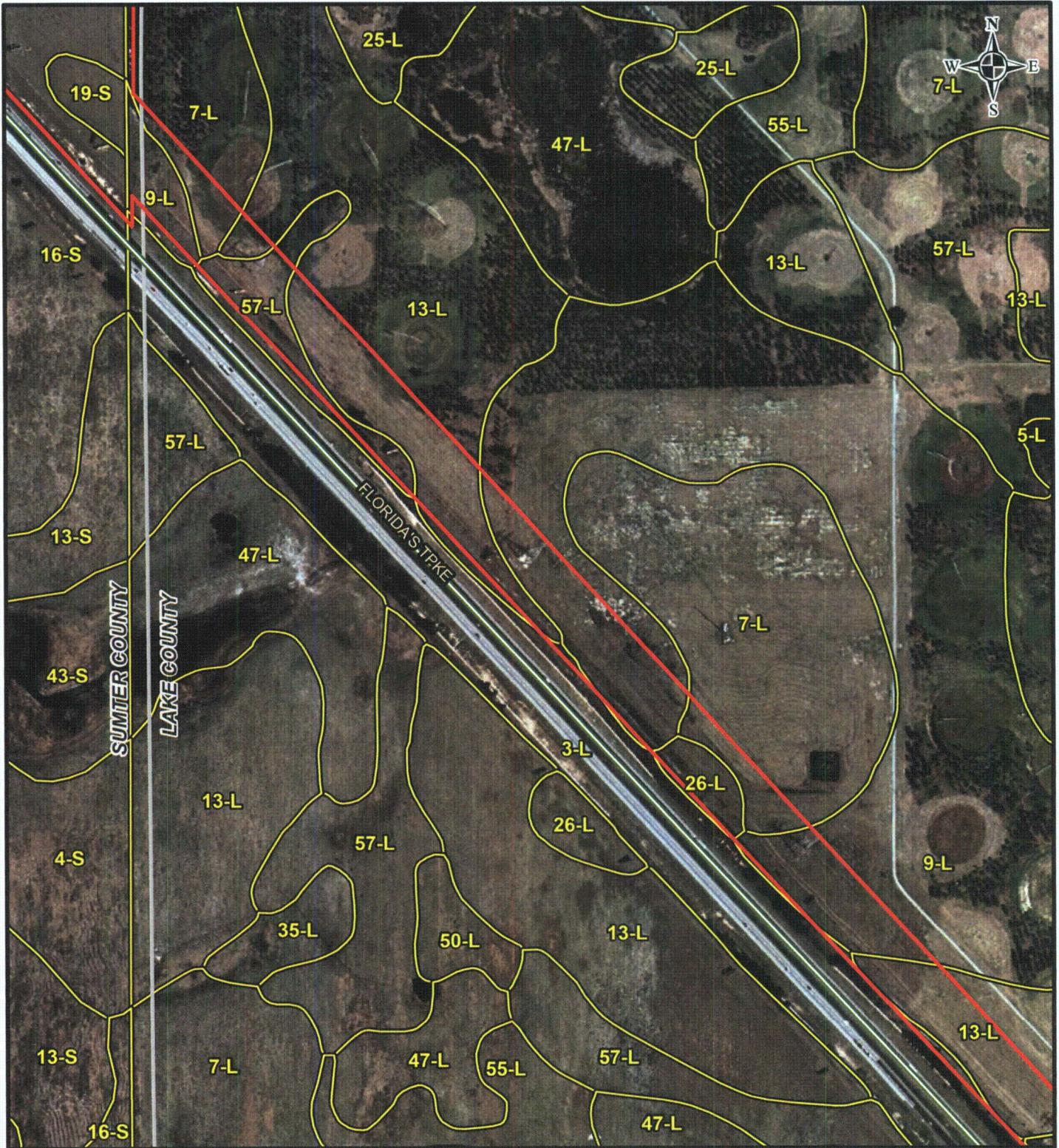


PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
SOILS MAP**

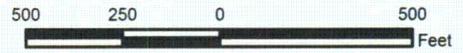


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SUMTER COUNTY  
LAKE COUNTY

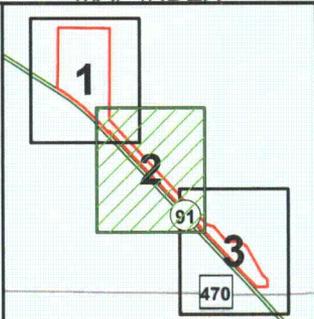
FLORIDA'S TPKE



**LEGEND**

- Project Area
- County Boundary
- Soil Boundary

**MAP INDEX**



**NOTE**

See Figure 4 Soil Identification Table for Soil Definitions

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; Soils: U.S. Department of Agriculture, Natural Resources Conservation Service, 2006; Aerials: ESRI, 2009

PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
SOILS MAP**



MXD File No. 093-89547A004		SCALE AS SHOWN	REV. 0
DESIGN	DLH	22 Sept 2009	
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REVIEW	KB	10 Feb 2010	

**FIGURE 4  
PAGE 2 OF 3**

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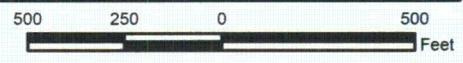
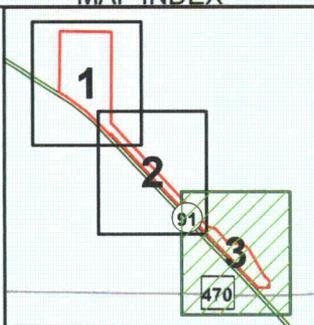
**LEGEND**

- Project Area
- County Boundary
- Soil Boundary

**NOTE**  
See Figure 4 Soil Identification Table for Soil Definitions

**REFERENCE**  
Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; Soils: U.S. Department of Agriculture, Natural Resources Conservation Service, 2006; Aerials: ESRI, 2009

**MAP INDEX**



PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
SOILS MAP**



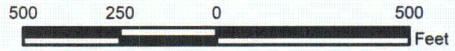
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DESIGN DLH 22 Sept 2009	<b>FIGURE 4 PAGE 3 OF 3</b>	
GIS DLH 10 Feb 2010		
CHECK SAR 10 Feb 2010		
REVIEW KB 10 Feb 2010		

**FIGURE 5  
CENTRAL FLORIDA SOUTH SUBSTATION  
HABITAT CLASSIFICATION MAP**

**HABITAT CLASSIFICATION TABLE**

<b>LAND USE CODE</b>	<b>DESCRIPTION</b>
150	INDUSTRIAL
166	HOLDING PONDS
211	IMPROVED PASTURES
212	UNIMPROVED PASTURES
214	ROW CROPS
215	FIELD CROPS
260	OTHER OPEN LANDS <RURAL>
434	HARDWOOD - CONIFER MIXED
440	TREE PLANTATIONS
441	CONIFEROUS PLANTATIONS
520	LAKES
530	RESERVOIRS
617	MIXED WETLAND HARDWOODS
630	WETLAND FORESTED MIXED
641	FRESHWATER MARSHES
643	WET PRAIRIES
644	EMERGENT AQUATIC VEGETATION
814	ROADS AND HIGHWAYS

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**LEGEND**

- Project Area
- County Boundary
- Land Use Boundary

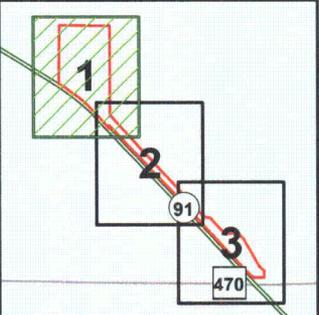
**NOTE**

See Figure 5 Habitat Classification Table for Land Use Definitions

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; FLUCCS Data: SWFWMD, 2007, Golder edited 2009; Aerials: ESRI, 2009

**MAP INDEX**



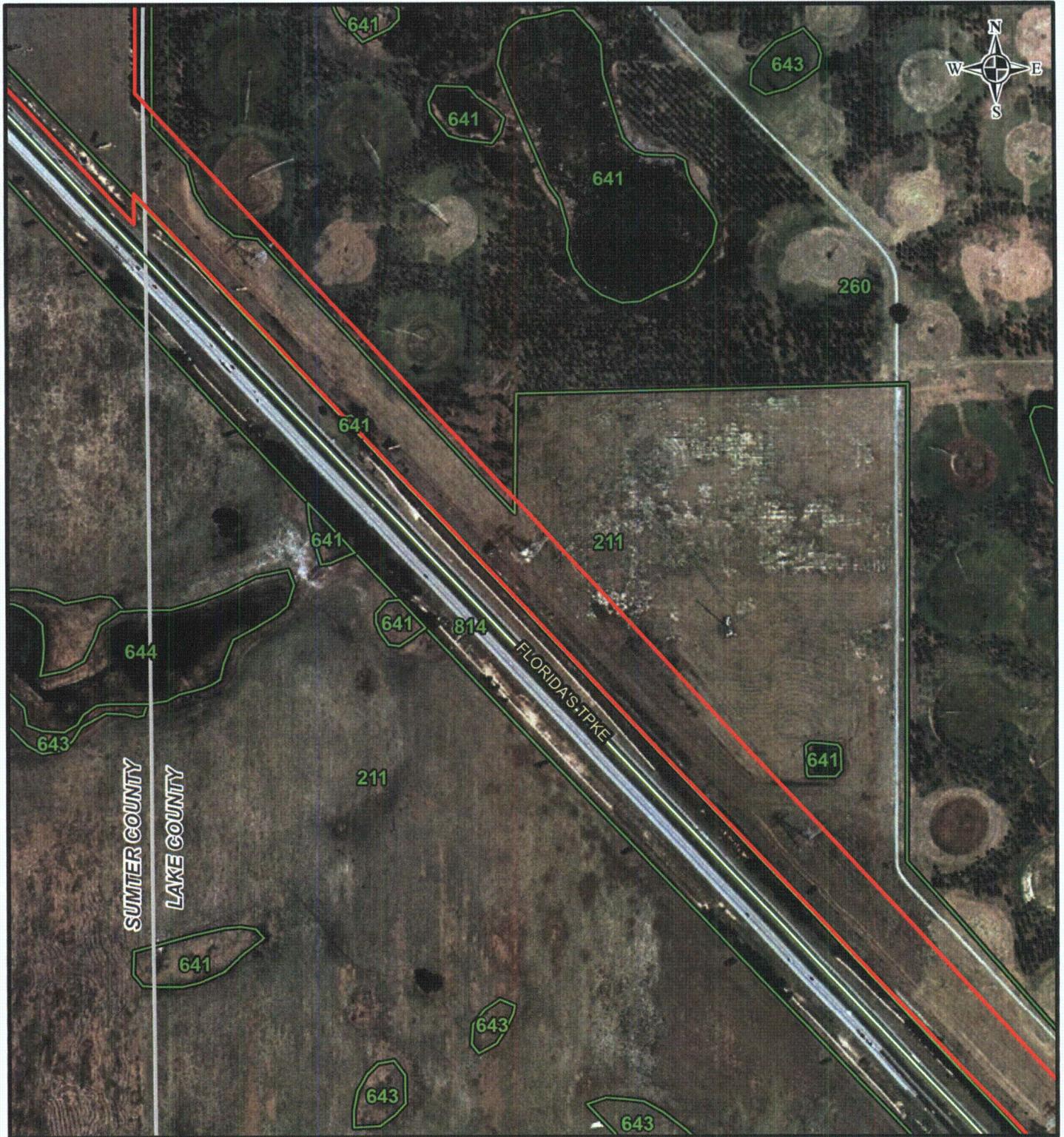
PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
HABITAT CLASSIFICATION MAP**



MXD File No. 093-89547A005	SCALE AS SHOWN	REV. 0
DESIGN DLH 24 Sept 2009	<b>FIGURE 5 PAGE 1 OF 3</b>	
GIS DLH 10 Feb 2010		
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REVIEW KB 10 Feb 2010		

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**LEGEND**

- Project Area
- County Boundary
- Land Use Boundary

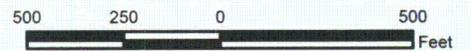
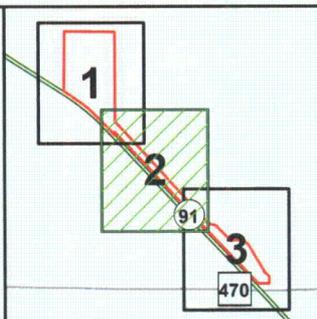
**NOTE**

See Figure 5 Habitat Classification Table for Land Use Definitions

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; FLUCCS Data: SWFWMD, 2007, Golder edited 2009; Aerials: ESRI, 2009

**MAP INDEX**



PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
HABITAT CLASSIFICATION MAP**



MXD File No. 093-89547A005	SCALE AS SHOWN	REV. 0
DESIGN DLH 24 Sept 2009	<b>FIGURE 5 PAGE 2 OF 3</b>	
GIS DLH 10 Feb 2010		
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**LEGEND**

- Project Area
- County Boundary
- Land Use Boundary

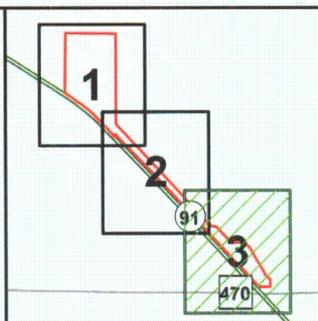
**NOTE**

See Figure 5 Habitat Classification Table for Land Use Definitions

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; FLUCCS Data: SWFWMD, 2007, Golder edited 2009; Aerials: ESRI, 2009

**MAP INDEX**

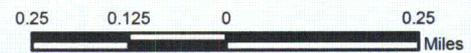
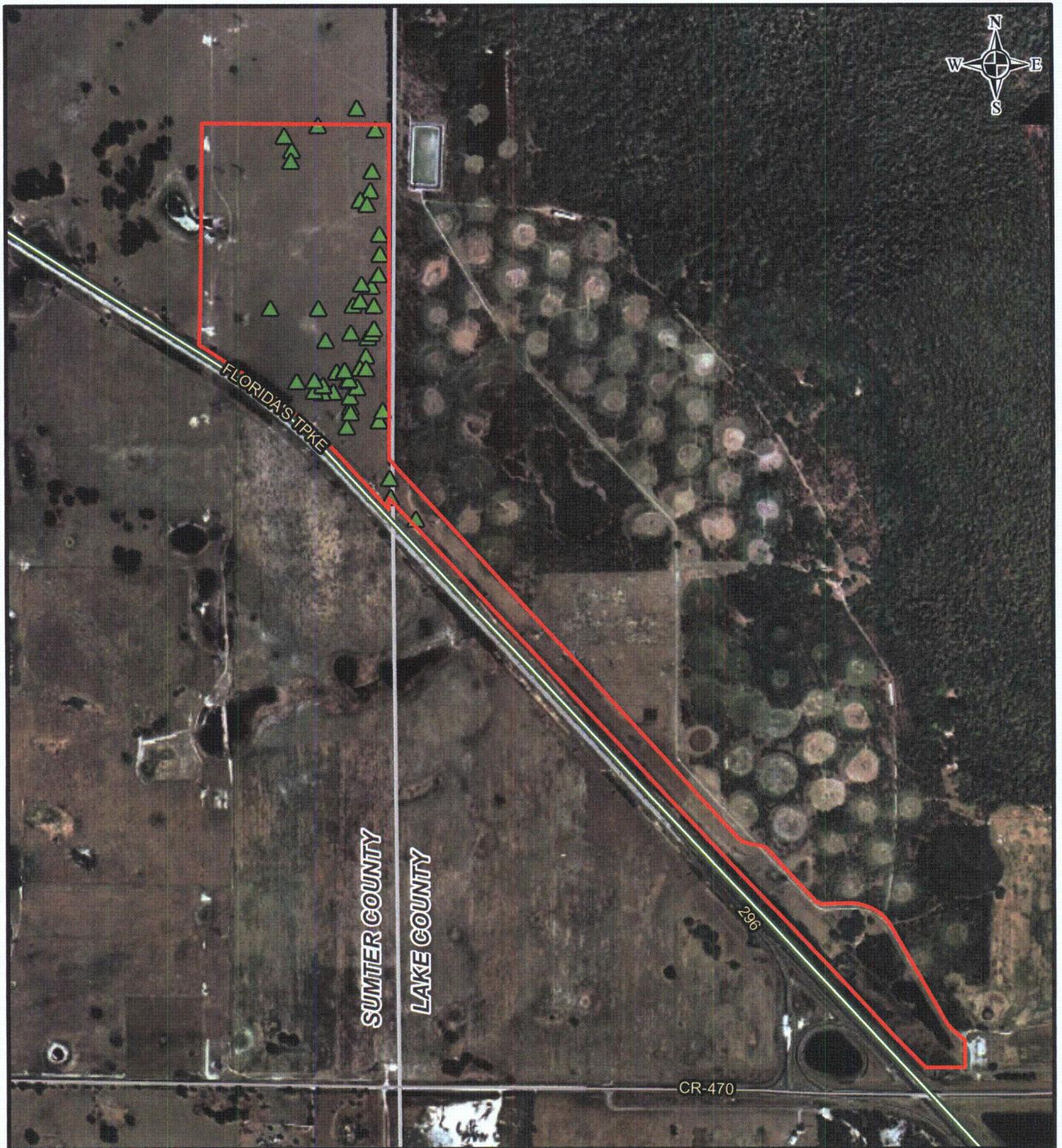


PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
HABITAT CLASSIFICATION MAP**



MXD File No. 093-89547A005	SCALE AS SHOWN	REV. 0
DESIGN DLH 24 Sept 2009	<b>FIGURE 5 PAGE 3 OF 3</b>	
GIS DLH 10 Feb 2010		
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**LEGEND**

- Project Area
- County Boundary

**GOLDER OBSERVED SPECIES**

- ▲ Gopher Tortoise

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; Golder Observed Species, 2009; Wood Stork Colony Data: U.S. Fish & Wildlife Service, 2009; Aerials: ESRI, 2009

**NOTE: No portion of the Central Florida South Substation lies within Wood Stork Core Foraging Areas.**

PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
LISTED SPECIES MAP**



MXD File No. 093-89547A006	SCALE AS SHOWN	REV. 0
DESIGN DLH 24 Sept 2009	<b>FIGURE 6</b>	
GIS DLH 10 Feb 2010		
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**LEGEND**

- Project Area
- County Boundary

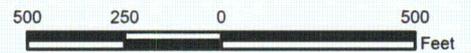
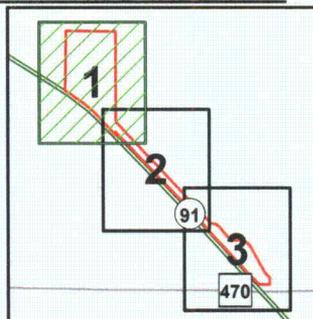
**FEMA FLOOD ZONE**

- A 100-yr Floodplain (No Base Flood Elevations have been determined)

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; Flood Zones: FEMA, 1996; Aerials: ESRI, 2009

**MAP INDEX**



PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

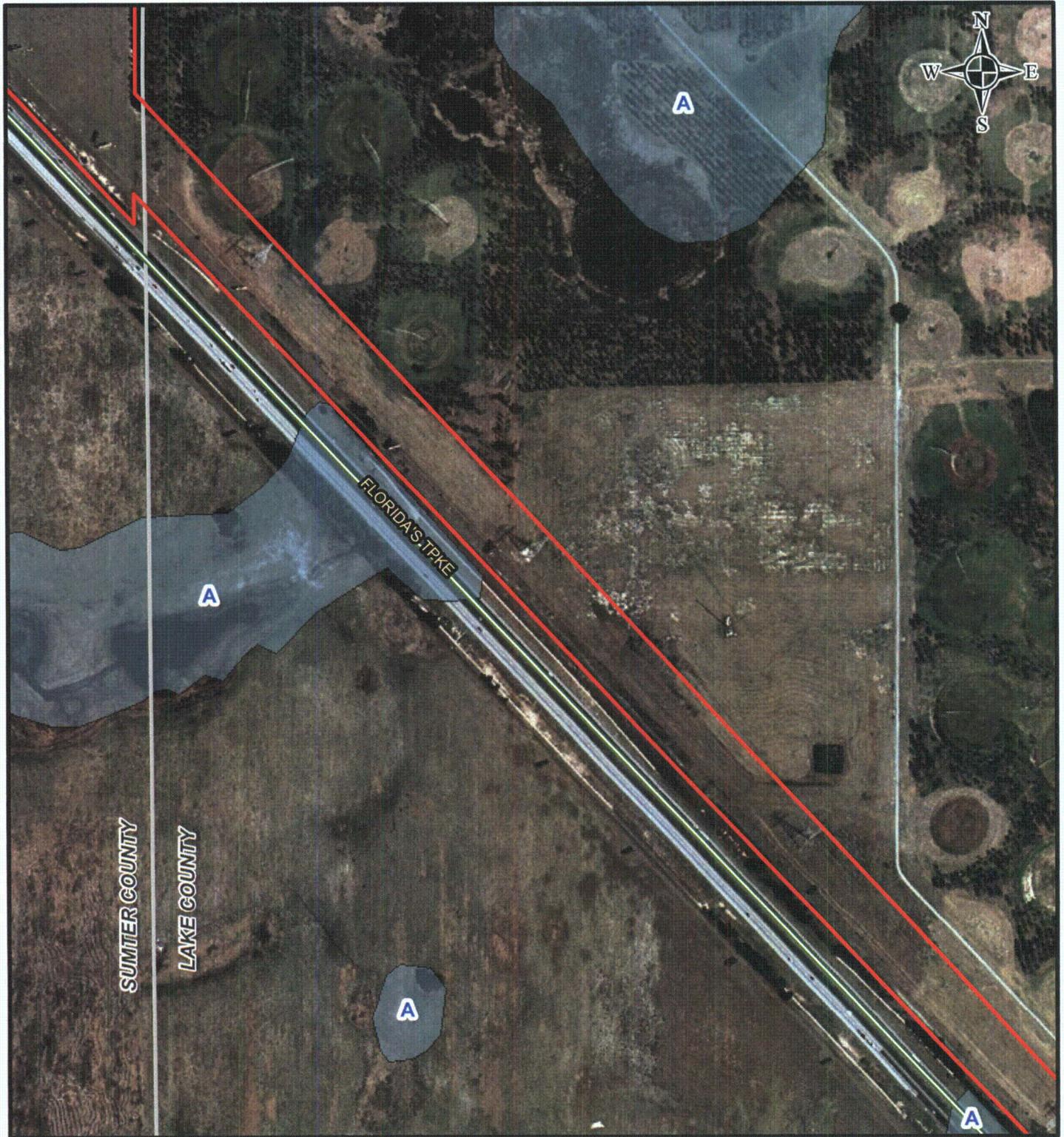
**CENTRAL FLORIDA SOUTH SUBSTATION  
FEMA 100 YEAR FLOODPLAIN MAP**



MXD File No. 093-89547A007		SCALE AS SHOWN	REV. 0
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GIS	DLH	10 Feb 2010	
CHECK	SAR	10 Feb 2010	
REVIEW	KB	10 Feb 2010	

**FIGURE 7  
PAGE 1 OF 3**

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**LEGEND**

- Project Area
- County Boundary

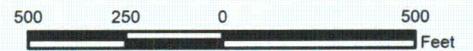
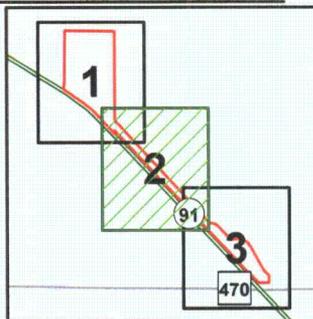
**FEMA FLOOD ZONE**

- 100-yr Floodplain  
A (No Base Flood Elevations have been determined)

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; Flood Zones: FEMA, 1996; Aerials: ESRI, 2009

**MAP INDEX**



PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
FEMA 100 YEAR FLOODPLAIN MAP**



MXD File No. 093-89547A007	SCALE AS SHOWN	REV. 0
DESIGN DLH 28 Sept 2009		
GIS DLH 10 Feb 2010		
CHECK SAR 10 Feb 2010		
REVIEW KB 10 Feb 2010		

**FIGURE 7  
PAGE 2 OF 3**



**LEGEND**

Project Area     County Boundary

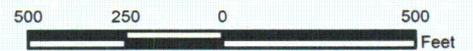
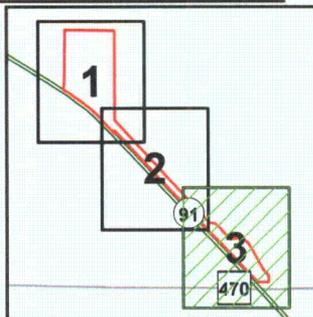
**FEMA FLOOD ZONE**

A 100-yr Floodplain  
(No Base Flood Elevations have been determined)

**REFERENCE**

Project Area: Progress Energy Florida, Golder Associates Inc. and PBS&J, 2009; Roads: Florida Department of Transportation, 2010; Flood Zones: FEMA, 1996; Aerials: ESRI, 2009

**MAP INDEX**



PROGRESS ENERGY FLORIDA  
LEVY NUCLEAR PLANT

**CENTRAL FLORIDA SOUTH SUBSTATION  
FEMA 100 YEAR FLOODPLAIN MAP**



MXD File No. 093-89547A007	SCALE AS SHOWN	REV. 0
DESIGN DLH 28 Sept 2009		
GIS DLH 10 Feb 2010		
CHECK SAR 10 Feb 2010		
REVIEW KB 10 Feb 2010		

**FIGURE 7  
PAGE 3 OF 3**

## Wetland Descriptions

Florida Power Corporation d/b/a Progress Energy Florida, Inc.

Proposed Central Florida South Substation  
Sumter and Lake Counties, Florida

Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland A	641	0.3	0.50	Water	No	No	This wetland is a cattle pond with fringing marsh vegetation. It is trampled by cattle and has been heavily grazed. There is significant coverage of bare sand. Dominant species include <i>Nuphar lutea</i> and <i>Nymphoides cordata</i> .
Wetland 1	631	0.02	0.43	Tavares sand, 0 to 5 percent slopes	No	No	This is a shrub wetland adjacent to the Florida Turnpike. Hydrology is altered by a roadside ditch. <i>Ludwigia peruviana</i> is the dominant species, with transitional species encroaching.
Wetland 2	641	0.12	0.60	Placid and Myakka sands, depressional	Yes	No	Wetland 2 is a freshwater marsh adjacent to the Florida Turnpike. <i>Salix caroliniana</i> is the dominant species.
Wetland 3	641	0.99	0.60	Placid and Myakka sands, depressional	No	No	This wetland is an isolated freshwater marsh adjacent to the Florida Turnpike. <i>Panicum hemitomon</i> is the dominant species.
Wetland 4	641	0.08	0.53	Immokalee sand	No	No	This wetland is a freshwater marsh adjacent to the Florida Turnpike that appears to be drained by a larger wetland system to the south. <i>Panicum hemitomon</i> is the dominant species.
Wetland 5	641	0.35	0.57	Immokalee sand	Yes	No	Wetland 5 is a freshwater marsh adjacent to the Florida Turnpike that appears to be drained by a larger wetland system to the south. Dominant species include <i>Panicum hemitomon</i> and <i>Amphicarpum muhlenbergiano</i> .

## Wetland Descriptions

Florida Power Corporation d/b/a Progress Energy Florida, Inc.

Proposed Central Florida South Substation  
Sumter and Lake Counties, Florida

Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland 6	641	0.24	0.50	Sparr sand, 0 to 5 percent slopes	Yes	No	This wetland is a freshwater marsh that appears to be connected to a ditch that parallels the Florida Turnpike right-of-way. Dominant species include <i>Panicum hemitomon</i> and <i>Amphicarpum muhlenbergiano</i> .
Wetland 7	641	2.73	0.67	Water	Yes	No	This wetland is a freshwater marsh that is connected to a ditch that flows under the Florida Turnpike. There is a diversity of wetland species in this wetland, such as <i>Panicum hemitomon</i> , and <i>Ludwigia peruviana</i> , however, none individually exceed five percent coverage.
Wetland 8	641	0.21	0.57	Sparr sand, 0 to 5 percent slopes	Yes	No	Wetland 8 is a freshwater marsh that has been disturbed by a dirt road constructed to the south and east. The area was holding water at the time of review. Dominant species include <i>Panicum hemitomon</i> and <i>Amphicarpum muhlenbergiano</i> .

Florida Power Corporation d/b/a Progress Energy Florida, Inc.  
Proposed Central Florida South Substation

Protected Plants and Animals Potentially Occurring at the Central Florida South Substation  
Sumter and Lake Counties, Florida

Species	Habitat of Occurrence	Likelihood of Occurrence on Property	Status		Observed
			USEFWS	FWC	
<b>AMPHIBIANS</b>					
<i>Rana capito</i> Gopher frog	Sandhill and scrub with isolated wetlands or large ponds; commensal with gopher tortoises	High	N	SSC	No
<b>BIRDS</b>					
<i>Aramus guarana</i> Limpkin	Freshwater marshes, swamps, springs, spring runs, pond, river, and lake margins	Medium	N	SSC	No
<i>Athene cunicularia floridana</i> Florida burrowing owl	Dry prairie, sandhill, pastures	Low	N	SSC	No
<i>Egretta caerulea</i> Little blue heron	Freshwater lakes, marshes, swamps, and streams, cypress	High	N	SSC	No
<i>Egretta thula</i> Snowy egret	Wetlands, streams, lakes, and swamps, manmade impoundments, ditches	High	N	SSC	No
<i>Egretta tricolor</i> Tricolored heron	Wetlands, ditches, pond and lake edges, coastal areas	High	N	SSC	No
<i>Eudocimus albus</i> White ibis	Freshwater and brackish marshes, salt flats, forested wetlands, wet prairies, swales, man-made ditches	High	N	SSC	No
<i>Falco sparverius paulus</i> Southeastern American kestrel	Open pine habitats, woodland edges, prairies, pastures	Medium	N	T	No
<i>Grus canadensis pratensis</i> Florida sandhill crane	Prairies, freshwater marshes, and pastures	High	N	T	No
<i>Mycteria americana</i> Wood stork	Cypress strands and domes, mixed hardwood swamps, freshwater marshes	Medium	E	E	No
<b>MAMMALS</b>					
<i>Podomys floridanus</i> Florida mouse	Xeric upland communities with sandy soils, including scrub, sandhill, and ruderal sites	Low	N	SSC	No
<i>Sciurus niger shermani</i> Sherman's fox squirrel	Sandhills, pine flatwoods, pastures and other open, ruderal habitats with scattered pines and oaks	Low	N	SSC	No
<b>REPTILES</b>					
<i>Alligator mississippiensis</i> American alligator	Most permanent bodies of fresh water, including marshes, swamps, lakes, and rivers	Low	T (SA)	SSC	No

**Florida Power Corporation d/b/a Progress Energy Florida, Inc.  
Proposed Central Florida South Substation**

**Protected Plants and Animals Potentially Occurring at the Central Florida South Substation  
Sumter and Lake Counties, Florida**

Species	Habitat of Occurrence	Likelihood of Occurrence on Property	Status		Observed
			USEFWS	FWC	
<i>Drymarchon couperi</i> Eastern indigo snake	Broad range of habitats, from scrub and sandhill to wet prairies and mangrove swamps; often commensal with gopher tortoises	High	T	T	No
<i>Gopherus polyphemus</i> Gopher tortoise	Dry upland habitats, including sandhills, scrub, xeric oak hammock, and dry pine flatwoods; also pastures, old fields	High	N	T	Yes
<i>Pituophis melanoleucus mugitus</i> Florida pine snake	Sandhill, old fields and pastures, sand pine scrub, scrubby flatwoods; often commensal with gopher tortoises and pocket gophers	High	N	SSC	No
<b>PLANTS</b>					
None					

## Notes:

N = Not Listed

T = Threatened

E = Endangered

SSC = Species of Special Concern

T(SA) = Threatened due to similarity in appearance to a federally listed species

**SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION  
AND THREATENED AND ENDANGERED SPECIES**

OF  
**PROGRESS ENERGY FLORIDA  
CENTRAL FLORIDA SOUTH SUBSTATION**

LOCATED IN  
**SECTION 1  
TOWNSHIP 20 SOUTH, RANGE 23 EAST  
SUMTER COUNTY, FLORIDA**

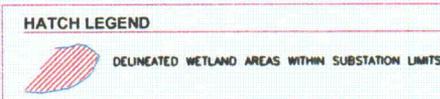
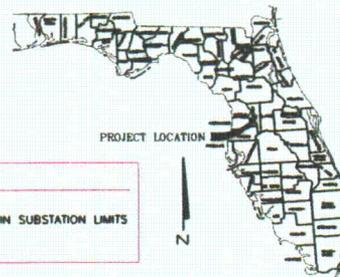
WETLAND DESIGNATION	AREA WITHIN SUBSTATION	
	square feet	ACRES ±
A	12,680	0.3

**WETLAND FLAG LOCATIONS**

Desc	Northing	Easting
A1	1615303	669191
A2	1615293	669277
A3	1615305	669317
A4	1615330	669318
A5	1615397	669317
A6	1615417	669247
A7	1615425	669155

**GOPHER TORTOISE BURROWS LOCATIONS**

Desc	Northing	Easting
GT-1A	1612971	670941
GT-2 PO	1612793	670947
GT-3	1612594	671182
GT-4 PO	1613504	670845
GT NO-ID	1613448	670546
GT NO-ID	1613577	670580
GT NO-ID	1613594	670880
GT NO-ID	1613632	670581
GT NO-ID	1613722	670579
GT NO-ID	1613764	670321
GT NO-ID	1613810	670640
GT NO-ID	1613765	670422
GT NO-ID	1613776	670244
GT NO-ID	1613822	670327
GT NO-ID	1613871	670553
GT NO-ID	1613877	670566
GT NO-ID	1613827	670326
GT NO-ID	1613872	670246
GT NO-ID	1613949	670452
GT NO-ID	1613967	670526
GT NO-ID	1613987	670667
GT NO-ID	1613982	670727
GT NO-ID	1614104	670724
GT-8 PO	1614352	670801
GT-7 PO	1614314	670776
GT-6 PO	1614273	670743
GT-30A	1614247	670352
GT NO-ID	1614319	670588
GT NO-ID	1614617	670670
GT NO-ID	1614577	670611
GT NO-ID	1614572	670804
GT NO-ID	1614616	670669
GT-36 PO	1614545	670287
GT-41 PO	1614551	669840
GT-17 PO	1614778	670684
GT-9 PO	1614750	670778
GT-10 PO	1614859	670841
GT-11 PO	1615050	670857
GT NO-ID	1615235	670853
GT NO-ID	1615516	670735
GT-13 PO	1615641	670769
GT-14 PO	1615556	670676
GT NO-ID	1615823	670786
GT-40 PO	1616015	670041
GT NO-ID	1616202	670817
GT NO-ID	1616404	670647
GT-3 PO	1616248	670289
GT NO-ID	1616148	669973
GT-40 PO	1616013	670043
GT NO-ID	1615919	670034
GT NO-ID	1613865	670081



**LEGEND:**

- = WETLANDS JURISDICTIONAL DELINEATION LINE WITHIN SUBSTATION LIMITS
- PEF = PROGRESS ENERGY FLORIDA
- WLA1, WLB2, WLC3, etc. = WETLAND FLAG DELINEATOR
- DGPS = DIFFERENTIAL GLOBAL POSITIONING SYSTEM
- N. = NORTHING (coordinate)
- E. = EASTING (coordinate)
- R = PROPERTY LINE
- GIS = GEOGRAPHIC INFORMATION SYSTEM
- = GOPHER TORTOISE BURROWS

**SURVEYOR'S NOTES:**

- 1) THIS SPECIFIC PURPOSE SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF THE SIGNING FLORIDA LICENSED SURVEYOR AND MAPPER.
- 2) THE SPECIFIC PURPOSE OF THIS SURVEY WAS TO LOCATE AND MAP WETLAND JURISDICTIONAL DELINEATIONS AND LOCATION OF THREATENED AND ENDANGERED SPECIES (AS DETERMINED BY OTHERS) IN RELATION TO THE APPROXIMATE SUBSTATION LIMITS, IN CONFORMANCE WITH U.S. ARMY CORPS OF ENGINEERS REQUIREMENTS.
- 3) LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR OWNERSHIP, RIGHTS-OF-WAY, EASEMENTS OR OTHER MATTERS OF TITLE BY THIS FIRM, NOR WERE ANY SUCH DOCUMENTS PROVIDED BY CLIENT.
- 4) THE BOUNDARY DELINEATION OF THE PEF CENTRAL FLORIDA SOUTH SUBSTATION SHOWN HEREON IS BASED ON GIS SHAPE FILES PROVIDED BY GOLDER ASSOCIATES. THIS SPECIFIC PURPOSE SURVEY IS NOT A BOUNDARY SURVEY OF THE SUBSTATION PROPERTY.
- 5) THIS SURVEY WAS PERFORMED USING A COMBINATION OF GLOBAL POSITIONING SYSTEM AND CONVENTIONAL SURVEY METHODOLOGY. HORIZONTAL ACCURACY IS AT THE SUBMETER LEVEL.
- 6) COORDINATES OF WETLAND FLAGS SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE (902), NORTH AMERICAN DATUM OF 1983/2007 ADJUSTMENT.
- 7) WETLAND JURISDICTIONAL DELINEATIONS AND THREATENED AND ENDANGERED SPECIES LOCATIONS WERE DETERMINED AND FLAGGED BY GOLDER ASSOCIATES, GAINESVILLE, FLORIDA.
- 8) THE WETLAND FLAG DESCRIPTIONS AND THREATENED AND ENDANGERED SPECIES LOCATIONS SHOWN HEREON CORRESPOND TO THE NUMBERS SHOWN ON EACH FLAG LOCATED IN THE FIELD.
- 9) THIS SURVEY IS CERTIFIED TO PROGRESS ENERGY FLORIDA AND GOLDER ASSOCIATES, INC..
- 10) EXCEPT AS SHOWN HEREON, INTERIOR IMPROVEMENTS WERE NOT LOCATED.
- 11) THE GEOREFERENCED AERIAL PHOTOGRAPHY DEPICTED HEREON WAS FLOWN IN 2008. SOURCE OF DATA: SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.

**THIS IS NOT A BOUNDARY SURVEY**

**SHEET INDEX:**

COUNTY: SUMTER	SHEET	DESCRIPTION
.	1	COVER SHEET
.	2	LOCATION MAP WITH PHOTO

LAST DATE IN FIELD: 11/19/2009

*Robert M. Jones*  
**ROBERT M. JONES**  
FLORIDA PROFESSIONAL SURVEYOR AND MAPPER  
LICENSE NO. LS 4281

**PROJECT TITLE:**  
SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION  
AND THREATENED AND ENDANGERED SPECIES

**PROGRESS ENERGY FLORIDA  
CENTRAL FLORIDA SOUTH SUBSTATION  
Sumter County, Florida**

DATE	BY	DESCRIPTION	DRAWN BY: P.E.W. DATE: 11/20/09	CHKD. BY: R.M.J. DATE: 11/20/09
REVISION			JOB No. 6374090435	SCALE: n/a
			SHT. 1 OF 2	DRAWING NAME: PHP Transmission Line.dwg

PREPARED BY:



**MACTEC Engineering & Consulting, Inc.**  
4150 North John Young Parkway Orlando, Florida 32804-2620  
Phone: 407.522.7570 Fax: 407.522.7576  
CERTIFICATE OF AUTHORIZATION: LB 6989



**GOLDER ASSOCIATES**  
6026 NW 1st Place  
GAINESVILLE, FLORIDA 32607



**SPECIFIC PURPOSE SURVEY  
CENTRAL FLORIDA SOUTH ACCESS DRIVEWAY  
PROGRESS ENERGY  
SECTION 7, TOWNSHIP 20 SOUTH, RANGE 24 EAST  
LAKE COUNTY, FLORIDA  
WETLAND LOCATIONS**

**NOTE :**

1. The specific purpose of this survey is to locate the limits of wetlands within and adjacent to the 170-foot Progress Energy Easement (Formerly Florida Power) that parallels the Florida Turnpike in Section 7, Township 20 South, Range 24 East, Lake County, Florida.
2. The wetland limits shown hereon were delimited by PBS & J Environmental and located by PBS & J Survey & Mapping. Field work was completed on December 3, 2009.
3. Bearings are based upon the South line of the Southeast 1/4 of Section 7, Township 20 South, Range 24 East, Lake County, Florida.  
BEARING S89°24'50"E.
4. Stationing along the Florida Turnpike and along County Road No. 470 is based upon the FDOT "Right-of-Way Monumentation Map" F.P. No. 404214-1 Dated 8/17/01

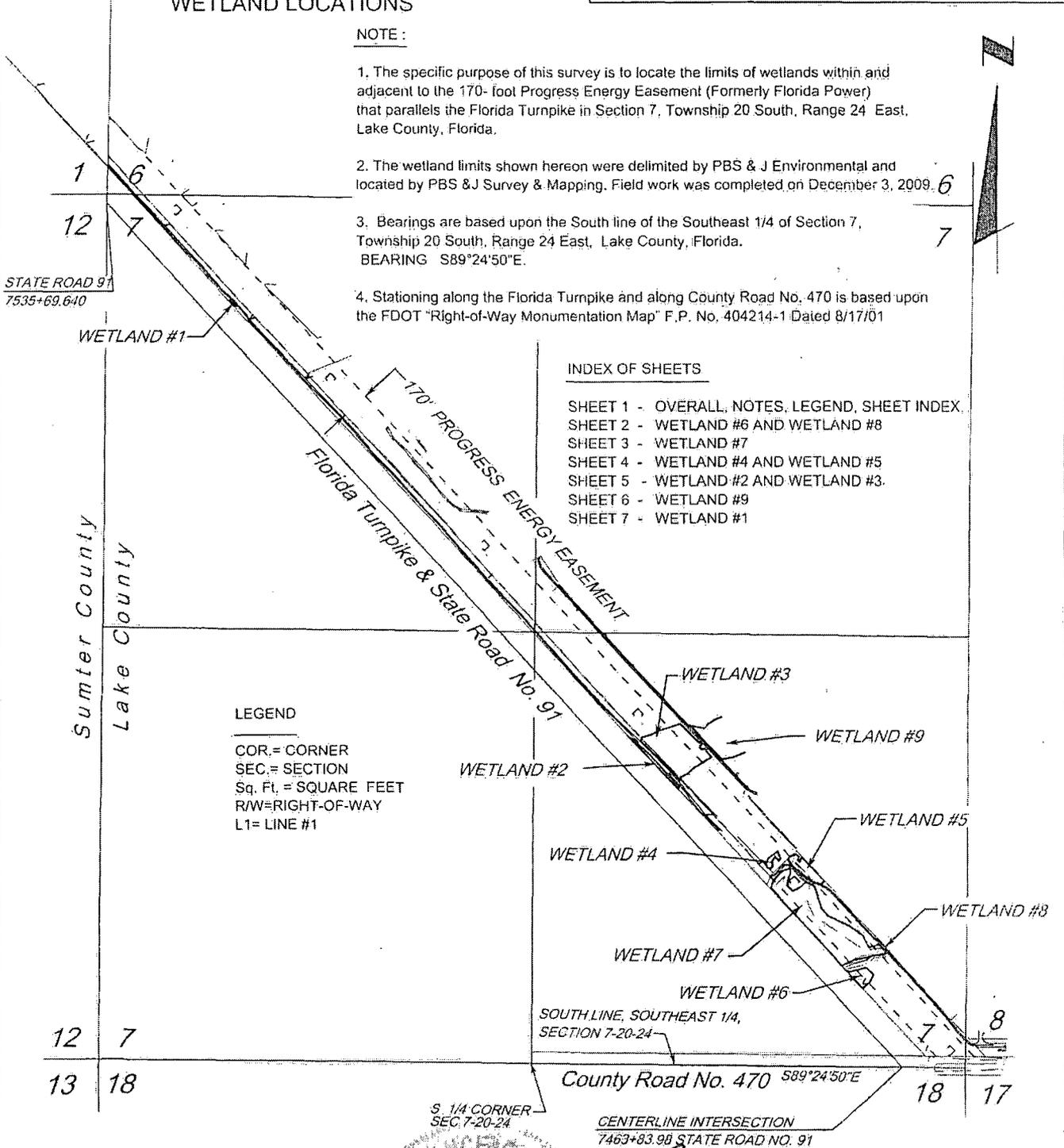
STATE ROAD 91  
7535+69.640

**INDEX OF SHEETS**

- SHEET 1 - OVERALL, NOTES, LEGEND, SHEET INDEX.
- SHEET 2 - WETLAND #6 AND WETLAND #8
- SHEET 3 - WETLAND #7
- SHEET 4 - WETLAND #4 AND WETLAND #5
- SHEET 5 - WETLAND #2 AND WETLAND #3.
- SHEET 6 - WETLAND #9
- SHEET 7 - WETLAND #1

**LEGEND**

- COR. = CORNER
- SEC. = SECTION
- Sq. Ft. = SQUARE FEET
- R/W = RIGHT-OF-WAY
- L1 = LINE #1



12 7  
13 18

S 1/4 CORNER  
SEC. 7-20-24

CENTERLINE INTERSECTION  
7463+83.98 STATE ROAD NO. 91  
400+82.78 COUNTY ROAD NO. 470

*This survey meets the Minimum Technical Standards adopted by the Florida Board of Professional Surveyors and Mappers, Chapter 61G17-6, Florida Administrative Code.*



482 South Keller Road  
Orlando, Florida 32810-6101  
Tel: 407/647-7275 Certificate No. LB 24

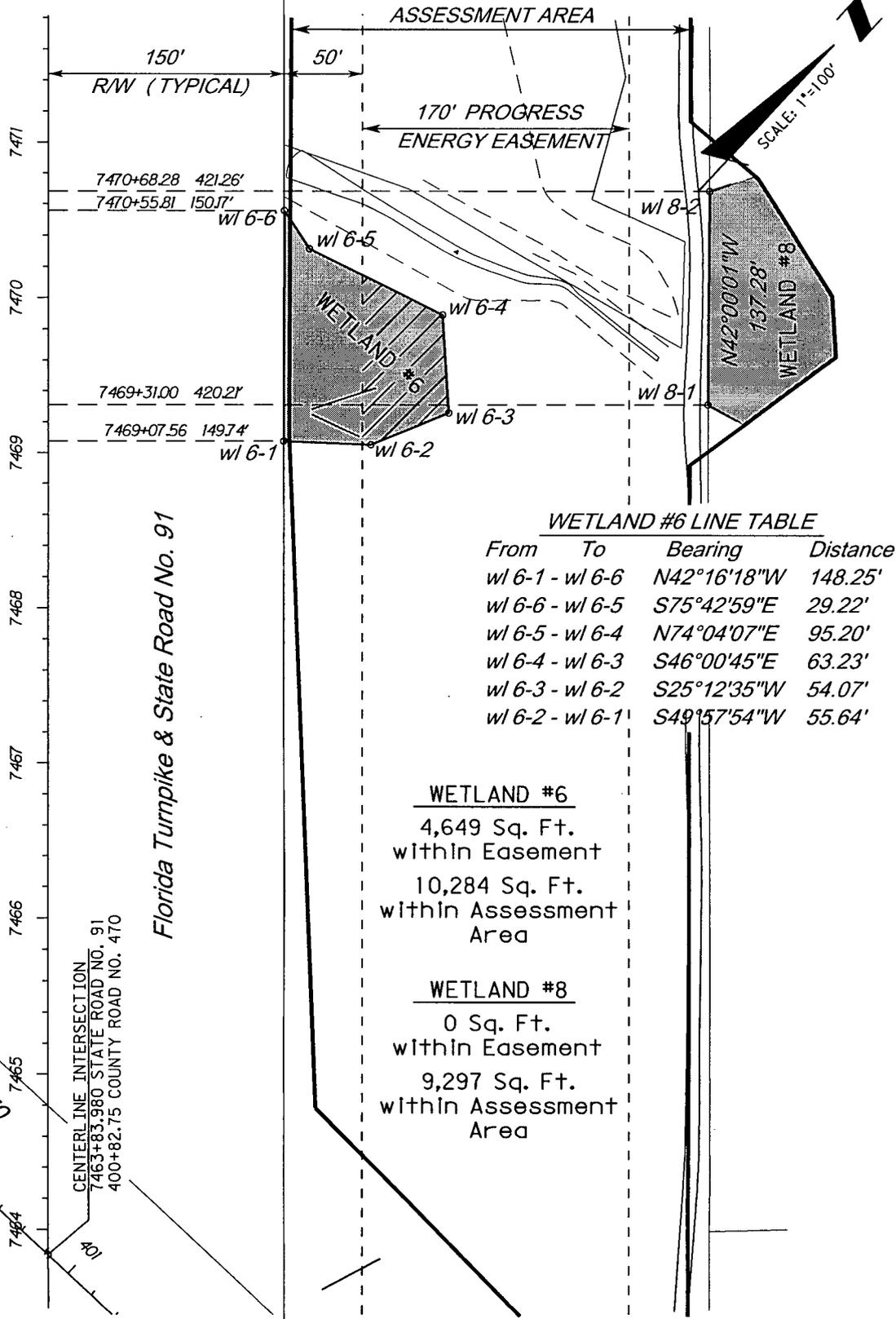
*James W. Carter, Jr.*  
James W. Carter, Jr., PSM  
Professional Surveyor and Mapper  
Florida Certificate No. 3598  
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

Date: 2/10/10  
Scale: 1" = 900'  
Job No.: 100010861 01.05  
F.B.: 1148  
Drawn By: DKK  
Ckd. By: JVC  
Sheet 1 of 7

CENTRAL FLORIDA SOUTH ACCESS DRIVEWAY  
 PROGRESS ENERGY  
 WETLAND #6 AND #8

LEGEND

-  WETLAND WITHIN EASEMENT
-  WETLAND WITHIN ASSESSMENT AREA



WETLAND #6 LINE TABLE

From	To	Bearing	Distance
wl 6-1	wl 6-6	N42°16'18"W	148.25'
wl 6-6	wl 6-5	S75°42'59"E	29.22'
wl 6-5	wl 6-4	N74°04'07"E	95.20'
wl 6-4	wl 6-3	S46°00'45"E	63.23'
wl 6-3	wl 6-2	S25°12'35"W	54.07'
wl 6-2	wl 6-1	S49°57'54"W	55.64'

WETLAND #6

4,649 Sq. Ft.  
 within Easement  
 10,284 Sq. Ft.  
 within Assessment Area

WETLAND #8

0 Sq. Ft.  
 within Easement  
 9,297 Sq. Ft.  
 within Assessment Area

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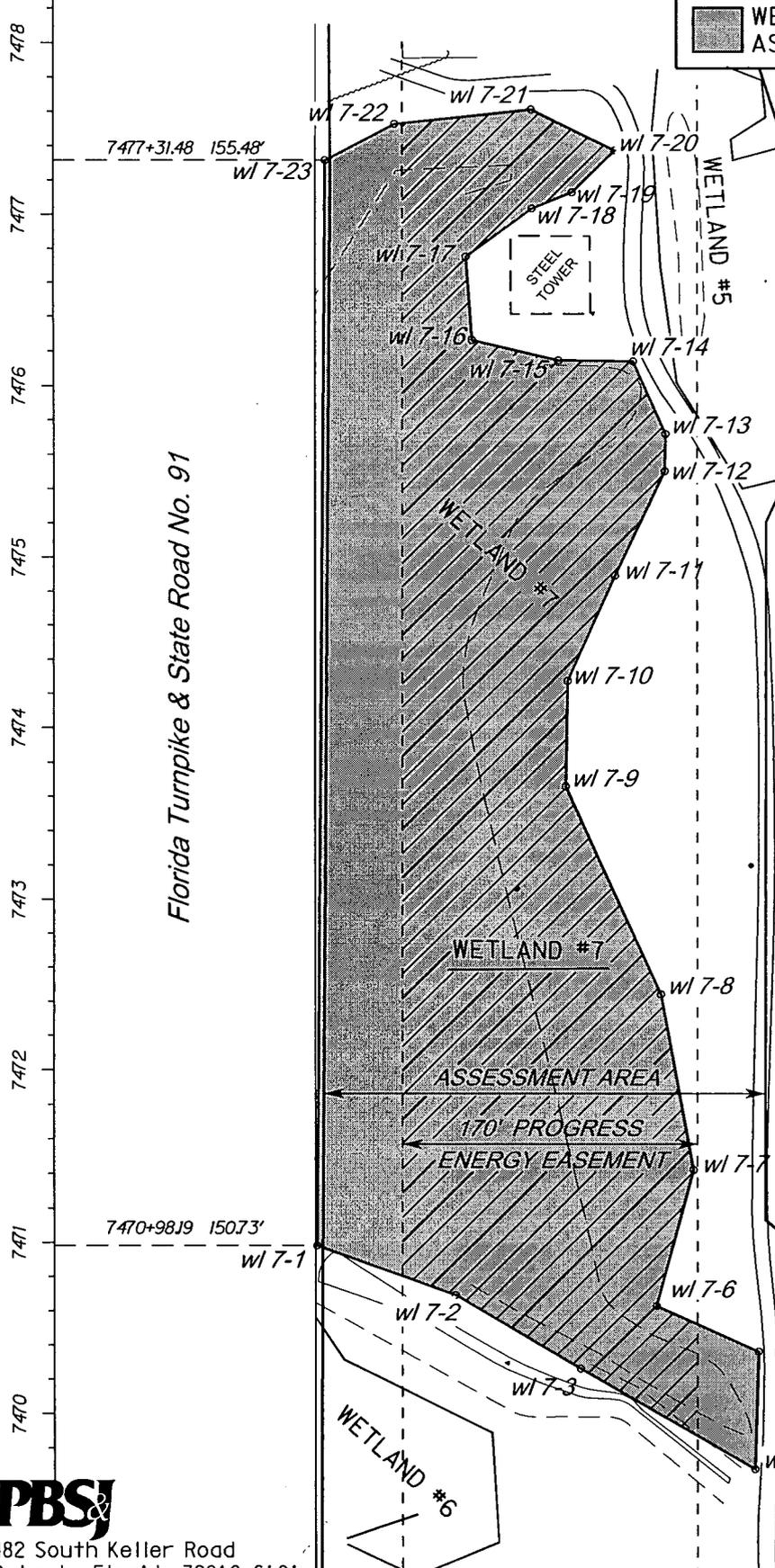
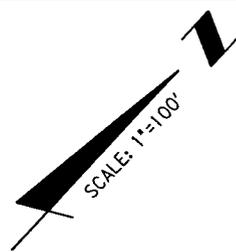


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CENTRAL FLORIDA SOUTH ACCESS DRIVEWAY  
 PROGRESS ENERGY  
 WETLAND #7

LEGEND

-  WETLAND WITHIN EASEMENT
-  WETLAND WITHIN ASSESSMENT AREA



WETLAND #7 LINE TABLE

From - To	Bearing	Distance
wl 7-1 - wl 7-23	N42°00'31"W	633.31'
wl 7-23 - wl 7-22	N19°37'45"E	45.37'
wl 7-22 - wl 7-21	N41°32'01"E	79.06'
wl 7-21 - wl 7-20	N73°45'55"E	53.87'
wl 7-20 - wl 7-19	S02°44'51"W	34.84'
wl 7-19 - wl 7-18	S25°33'00"W	24.99'
wl 7-18 - wl 7-17	S11°05'04"W	47.33'
wl 7-17 - wl 7-16	S46°31'28"E	49.17'
wl 7-16 - wl 7-15	N60°34'27"E	51.25'
wl 7-15 - wl 7-14	N48°22'03"E	43.09'
wl 7-14 - wl 7-13	S66°12'25"E	46.33'
wl 7-13 - wl 7-12	S41°10'06"E	21.48'
wl 7-12 - wl 7-11	S17°17'23"E	67.40'
wl 7-11 - wl 7-10	S18°36'23"E	67.64'
wl 7-10 - wl 7-9	S41°22'31"E	61.51'
wl 7-9 - wl 7-8	S66°40'51"E	133.48'
wl 7-8 - wl 7-7	S52°49'51"E	103.75'
wl 7-7 - wl 7-6	S27°21'08"E	82.03'
wl 7-6 - wl 7-5	N71°58'25"E	64.76'
wl 7-5 - wl 7-4	S40°44'06"E	68.36'
wl 7-4 - wl 7-3	S77°41'47"W	116.24'
wl 7-3 - wl 7-2	S78°25'42"W	84.15'
wl 7-2 - wl 7-1	S67°30'47"W	84.89'

WETLAND #7

87,822 Sq. Ft.  
 within Easement  
 118,804 Sq. Ft.  
 within Assessment Area



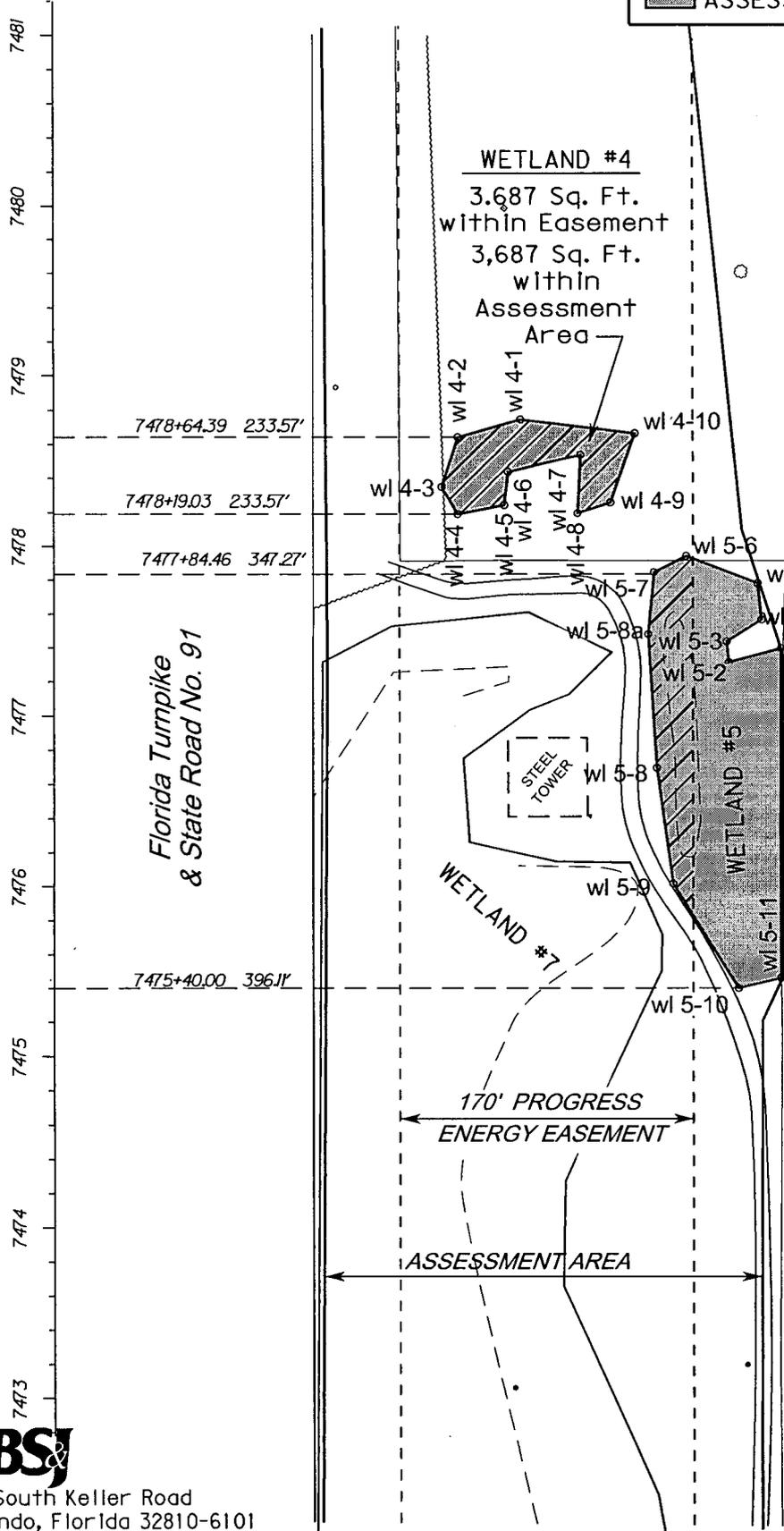
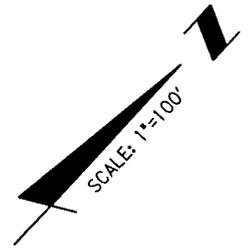
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**CENTRAL FLORIDA SOUTH ACCESS DRIVEWAY  
PROGRESS ENERGY  
WETLAND #4 AND #5**

**LEGEND**

-  WETLAND WITHIN EASEMENT
-  WETLAND WITHIN ASSESSMENT AREA



**WETLAND #4 LINE TABLE**

From - To	Bearing	Distance
wl 4-4 - wl 4-3	N72°33'19"W	18.48'
wl 4-3 - wl 4-2	N24°55'05"W	30.81'
wl 4-2 - wl 4-1	N31°38'04"E	37.66'
wl 4-1 - wl 4-10	N54°35'45"E	66.85'
wl 4-10 - wl 4-9	S23°12'26"E	42.99'
wl 4-9 - wl 4-8	S29°11'43"W	20.17'
wl 4-8 - wl 4-7	N39°37'17"W	34.25'
wl 4-7 - wl 4-6	S33°57'33"W	43.09'
wl 4-6 - wl 4-5	S35°41'19"E	19.40'
wl 4-5 - wl 4-4	S36°13'40"W	27.31'

**WETLAND #5**

4,111 Sq. Ft.  
withIn Easement  
15,052 Sq. Ft.  
withIn Assessment  
Area

**WETLAND #5 LINE TABLE**

From - To	Bearing	Distance
wl 5-10 - wl 5-9	N74°01'58"W	72.34'
wl 5-9 - wl 5-8	N50°21'14"W	68.51'
wl 5-8 - wl 5-8a	N46°03'02"W	78.67'
wl 5-8a - wl 5-7	N37°02'08"W	36.64'
wl 5-7 - wl 5-6	N20°24'59"E	21.13'
wl 5-6 - wl 5-5	N68°48'06"E	44.28'
wl 5-5 - wl 5-4	S48°21'28"E	21.61'
wl 5-2 - wl 5-3	S14°50'02"W	23.87'
wl 5-3 - wl 5-2	S47°55'11"E	12.36'
wl 5-2 - wl 5-1	N32°08'14"E	31.32'
wl 5-1 - wl 5-11	S42°23'39"E	193.64'
wl 5-11 - wl 5-10	S33°44'02"W	25.34'

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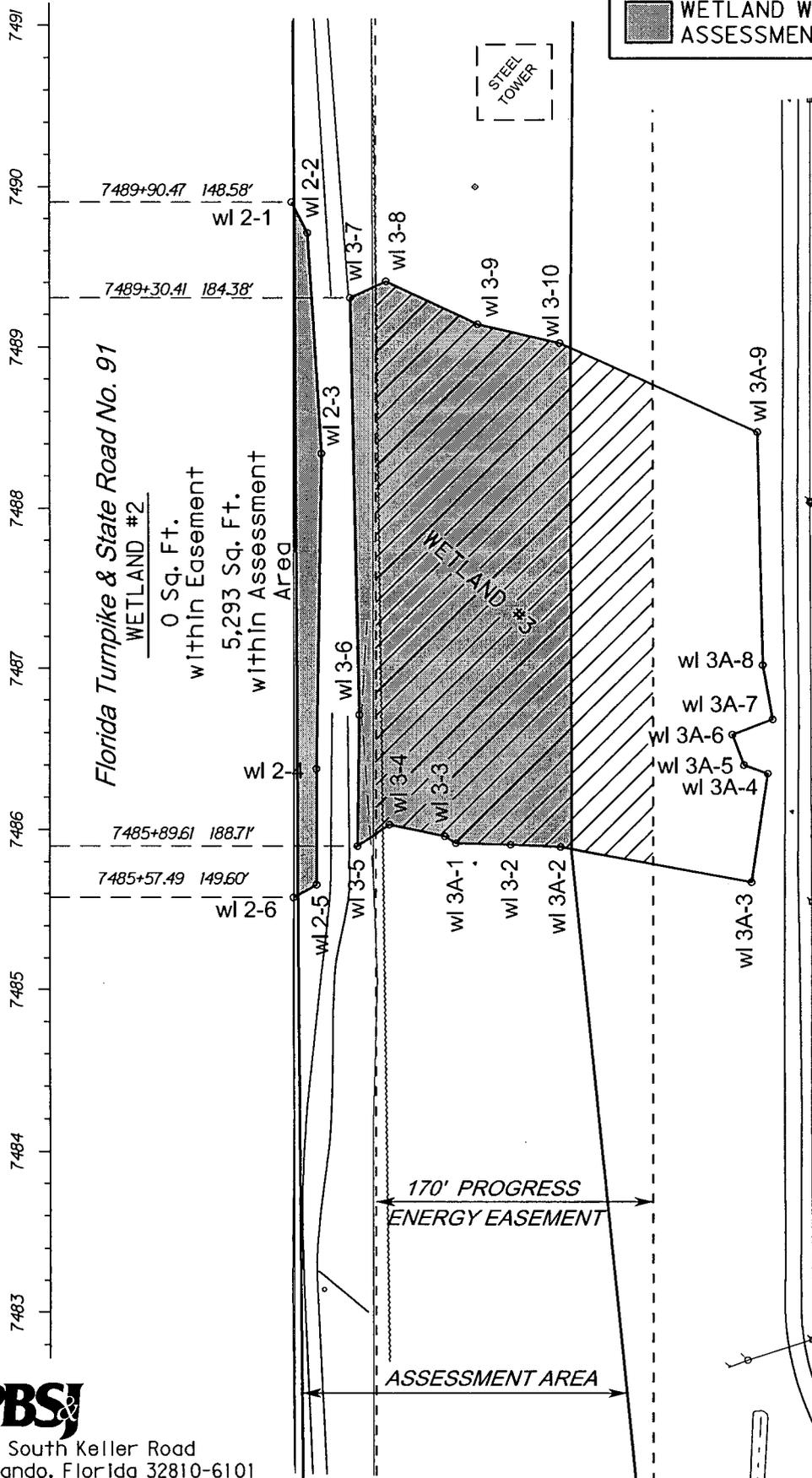
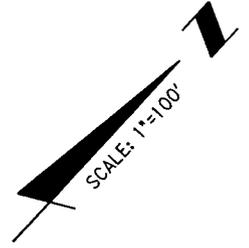


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CENTRAL FLORIDA SOUTH ACCESS DRIVEWAY  
 PROGRESS ENERGY  
 WETLAND #2 AND #3

LEGEND

-  WETLAND WITHIN EASEMENT
-  WETLAND WITHIN ASSESSMENT AREA



Florida Turnpike & State Road No. 91  
 WETLAND #2  
 0 Sq. Ft.  
 within Easement  
 5,293 Sq. Ft.  
 within Assessment Area

WETLAND #2 LINE TABLE

From - To	Bearing	Distance
wl 2-6 - wl 2-1	N42°34'29"W	432.97'
wl 2-1 - wl 2-2	S69°11'30"E	21.53'
wl 2-2 - wl 2-3	S46°03'00"E	137.39'
wl 2-3 - wl 2-4	S41°28'16"E	196.56'
wl 2-4 - wl 2-5	S42°34'42"E	72.13'
wl 2-5 - wl 2-6	S18°12'04"W	16.26'

WETLAND #3 LINE TABLE

From - To	Bearing	Distance
wl 3-5 - wl 3-6	N41°39'29"W	81.39'
wl 3-6 - wl 3-7	N43°38'24"W	259.48'
wl 3-7 - wl 3-8	N22°23'26"E	24.20'
wl 3-8 - wl 3-9	N72°48'41"E	62.23'
wl 3-9 - wl 3-10	N60°31'06"E	51.59'
wl 3-10 - wl 3A-9	N72°01'02"E	133.00'
wl 3A-9 - wl 3A-8	S43°43'13"E	145.63'
wl 3A-8 - wl 3A-7	S52°28'13"E	34.21'
wl 3A-7 - wl 3A-6	S26°25'07"W	26.23'
wl 3A-6 - wl 3A-5	S63°02'21"E	20.07'
wl 3A-5 - wl 3A-4	N67°35'30"E	15.42'
wl 3A-4 - wl 3A-3	S34°02'29"E	68.29'
wl 3A-3 - wl 3A-2	S58°11'05"W	119.11'
wl 3A-2 - wl 3A-1	S50°11'23"W	30.64'
wl 3-2 - wl 3A-1	S49°07'37"W	33.60'
wl 3A-1 - wl 3-3	S81°04'06"W	7.99'
wl 3-3 - wl 3-4	S59°22'28"W	34.86'
wl 3-4 - wl 3-5	S13°05'01"W	23.63'

WETLAND #3

54,214 Sq. Ft.  
 within Easement  
 43,111 Sq. Ft.  
 within Assessment Area



482 South Keller Road  
 Orlando, Florida 32810-6101  
 Tel: 407/647-7275 Certificate No. LB 24

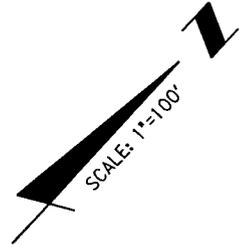
CENTRAL FLORIDA SOUTH ACCESS DRIVEWAY  
 PROGRESS ENERGY  
 WETLAND #9

LEGEND

-  WETLAND WITHIN EASEMENT
-  WETLAND WITHIN ASSESSMENT AREA

7491  
7490  
7489  
7488  
7487  
7486  
7485  
7484  
7483

Florida Turnpike  
& State Road No. 91



**WETLAND #9**  
 0 Sq. Ft.  
 within Easement  
 0 Sq. Ft.  
 within Assessment Area

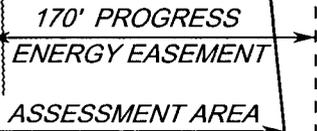
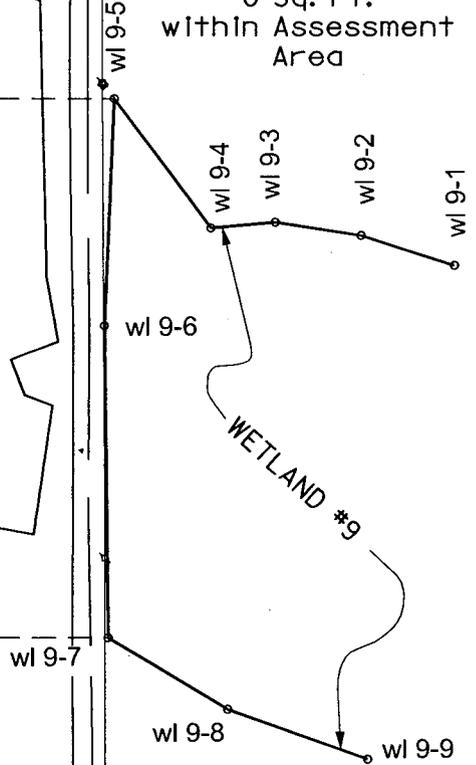
7487+96.27 472.30'

7485+13.02 468.82'

WETLAND #2

WETLAND #3

WETLAND #9



**WETLAND #9 LINE TABLE**

From	To	Bearing	Distance
wl 9-9	wl 9-8	S67°44'04"W	77.25'
wl 9-8	wl 9-7	S78°54'56"W	72.25'
wl 9-7	wl 9-6	N43°03'02"W	163.60'
wl 9-6	wl 9-5	N39°56'12"W	119.78'
wl 9-5	wl 9-4	S78°41'10"E	84.21'
wl 9-4	wl 9-3	N42°28'04"E	33.77'
wl 9-3	wl 9-2	N56°26'00"E	45.09'
wl 9-2	wl 9-1	N65°52'44"E	50.65'



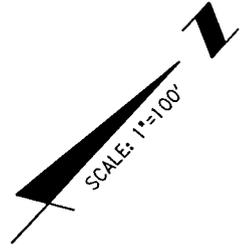
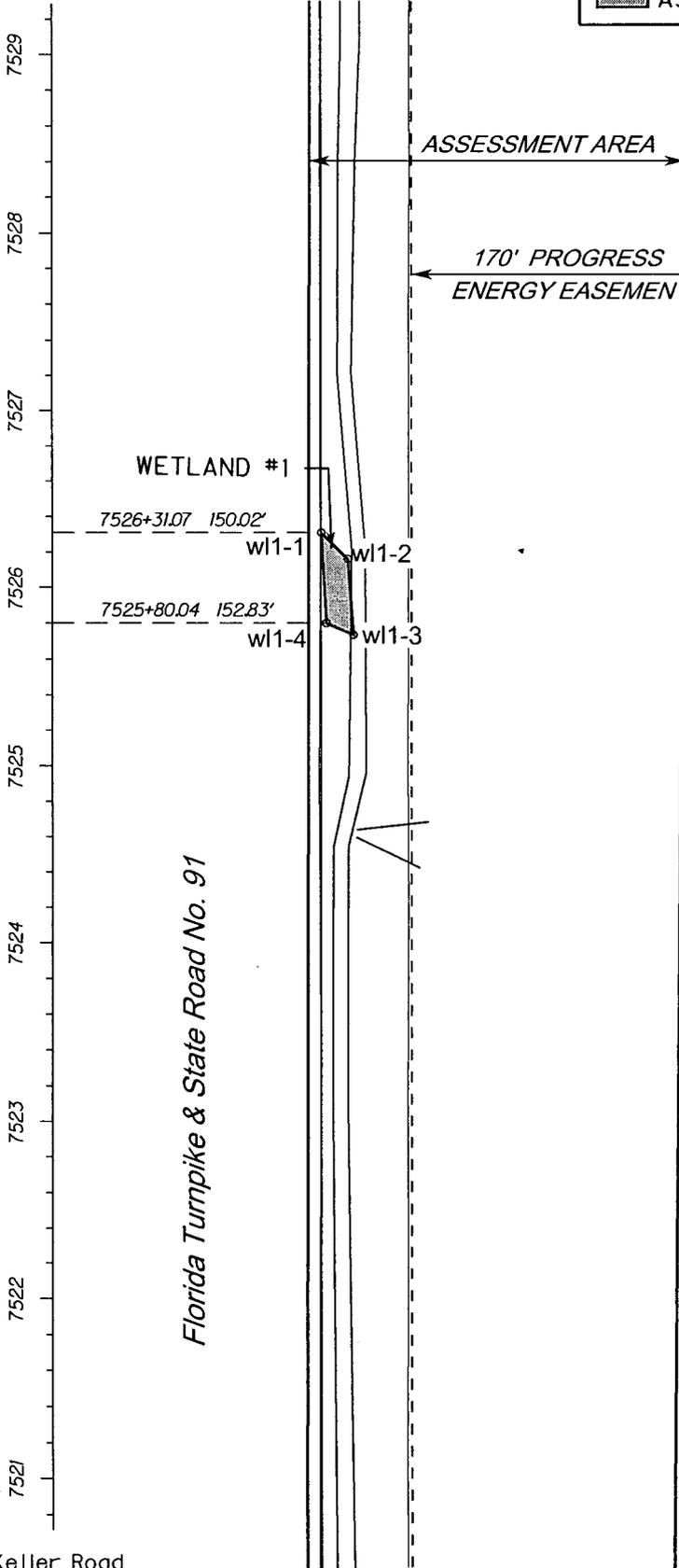
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 Tel: 407/647-7275 Certificate No. LB 24

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CENTRAL FLORIDA SOUTH ACCESS DRIVEWAY  
 PROGRESS ENERGY  
 WETLAND #1

LEGEND

-  WETLAND WITHIN EASEMENT
-  WETLAND WITHIN ASSESSMENT AREA



WETLAND #1 LINE TABLE

From	To	Bearing	Distance
w1-4	w1-1	N45°35'40"W	51.11'
w1-1	w1-2	S87°30'42"E	20.96'
w1-2	w1-3	S46°35'24"E	42.81'
w1-3	w1-4	S70°43'41"W	16.45'

WETLAND #1

0 Sq. Ft.  
 within Easement  
 671 Sq. Ft.  
 within Assessment  
 Area

Florida Turnpike & State Road No. 91



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