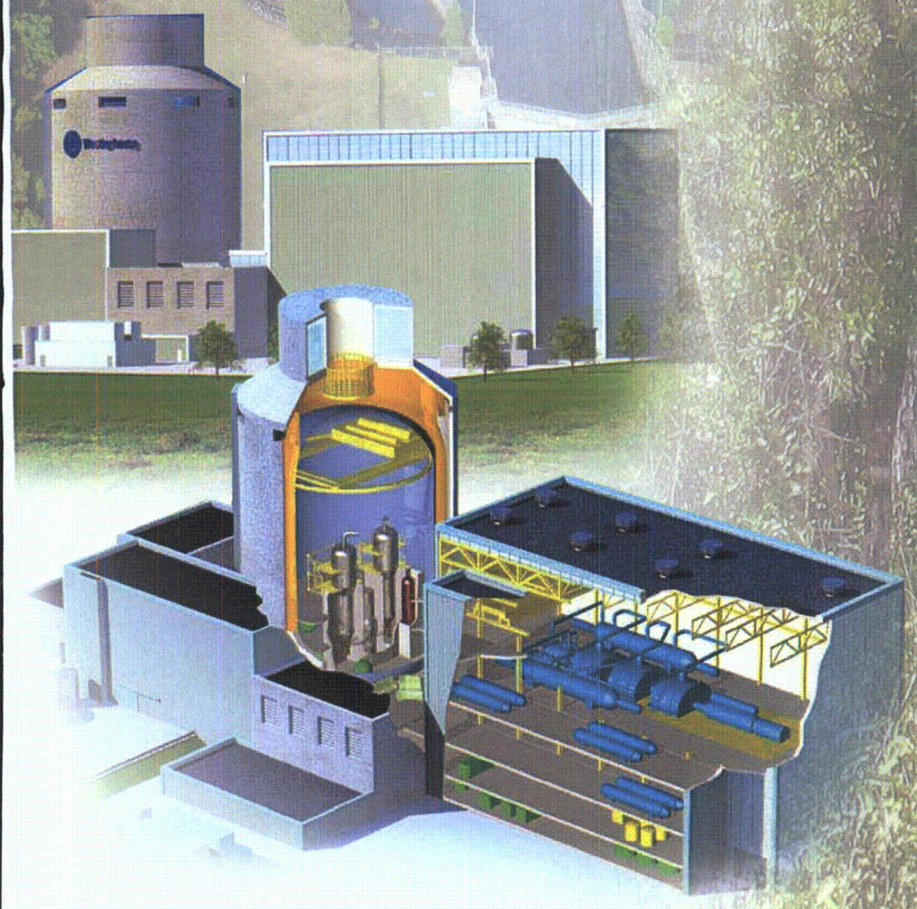
Progress Energy

Levy Nuclear Plant – Transmission Lines

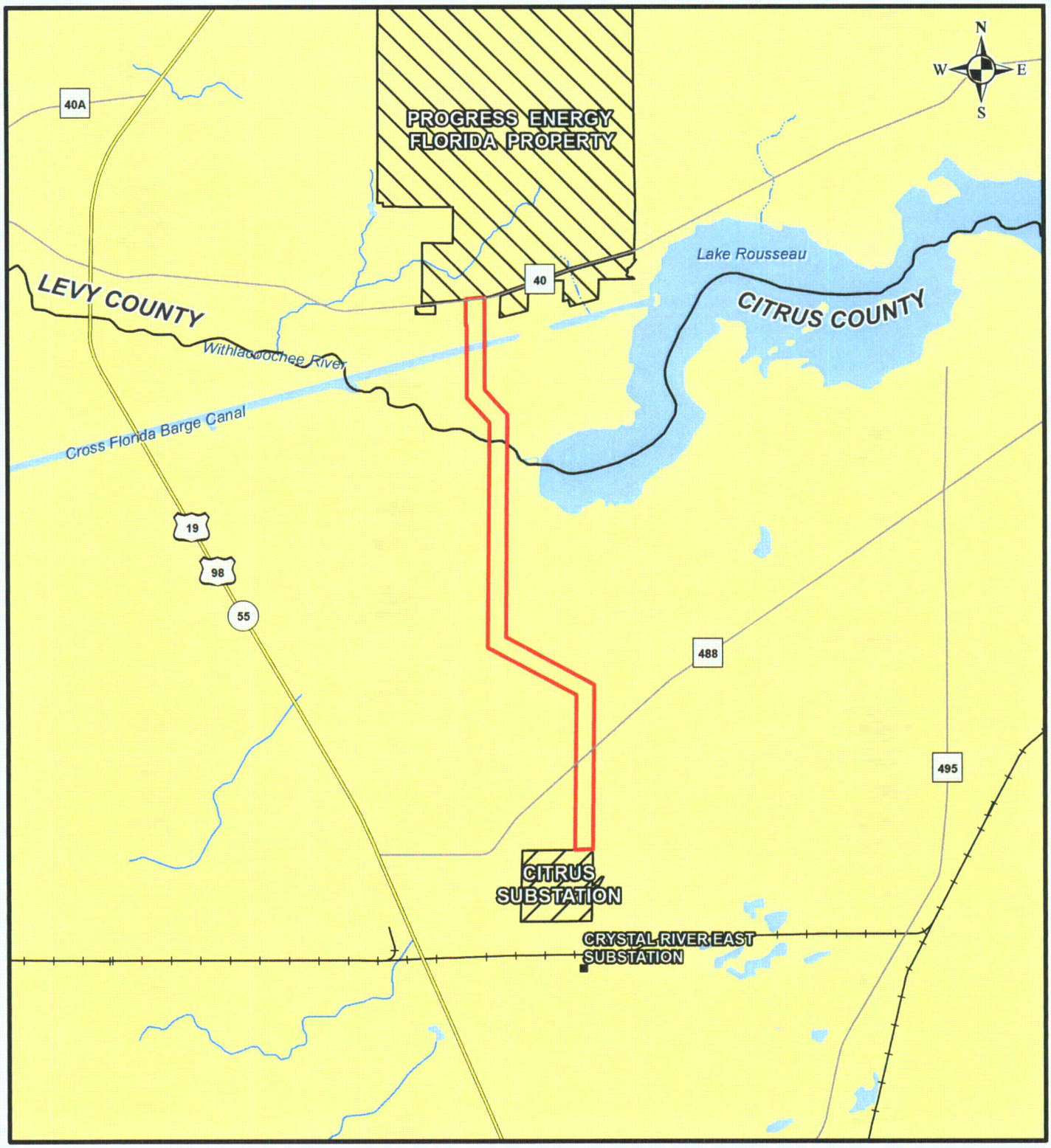
Wetland Delineation / Threatened & Endangered Species Assessment

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



Common Route
Transmission Line

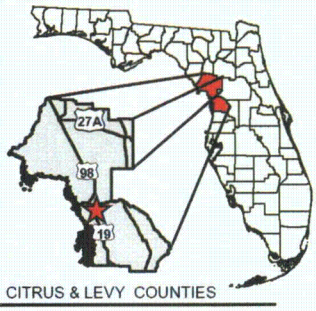
April 2010



1 0.5 0 1 Miles

LEGEND

- US Road
- State Road
- County Road
- Railroad
- Common Right-of-Way
- County Boundary



CITRUS & LEVY COUNTIES

REFERENCE

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

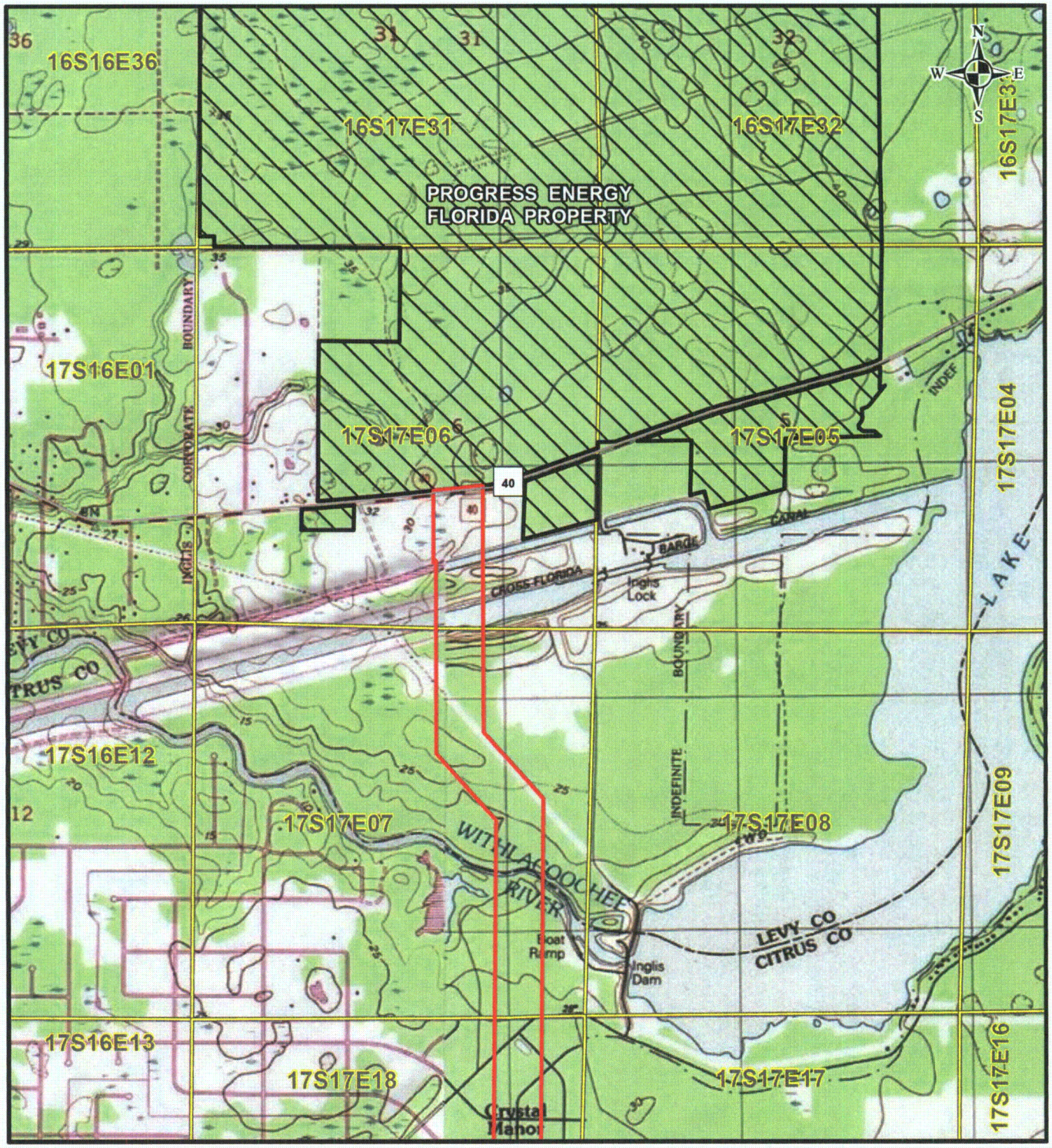
PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE
GENERAL LOCATION MAP

Progress Energy

MXD File No. 093-89547F001			SCALE AS SHOWN	REV. 0
DESIGN	DLH	11 Dec 2009	**FIGURE 1**	
GIS	DLH	12 Mar 2010		
CHECK	SAR	12 Mar 2010		
REVIEW	KB	12 Mar 2010		

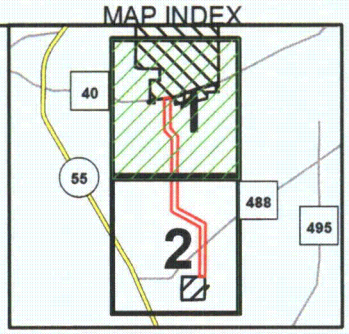
F:\PROJECTS\2009 PR 547 PEFCF Wetland Delineation T&E Surveys\F - ERP Common Route\GIS\MXD\093-89547F001 Site Location.mx



LEGEND

- Common Right-of-Way
- Township-Range-Section

MAP INDEX



2,000 1,000 0 2,000 Feet

REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; USGS Topographic Map: National Geographic Society, 2009; Township-Range-Section: Florida Department of Environmental Protection, 1994

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE
USGS TOPOGRAPHIC MAP

Progress Energy

MXD File No. 093-89547F002			SCALE AS SHOWN	REV. 0
DESIGN	JDG	12/11/2009		
GIS	DLH	12 Mar 2010		
CHECK	SAR	12 Mar 2010		
REVIEW	KB	12 Mar 2010		

FIGURE 2
PAGE 1 OF 2

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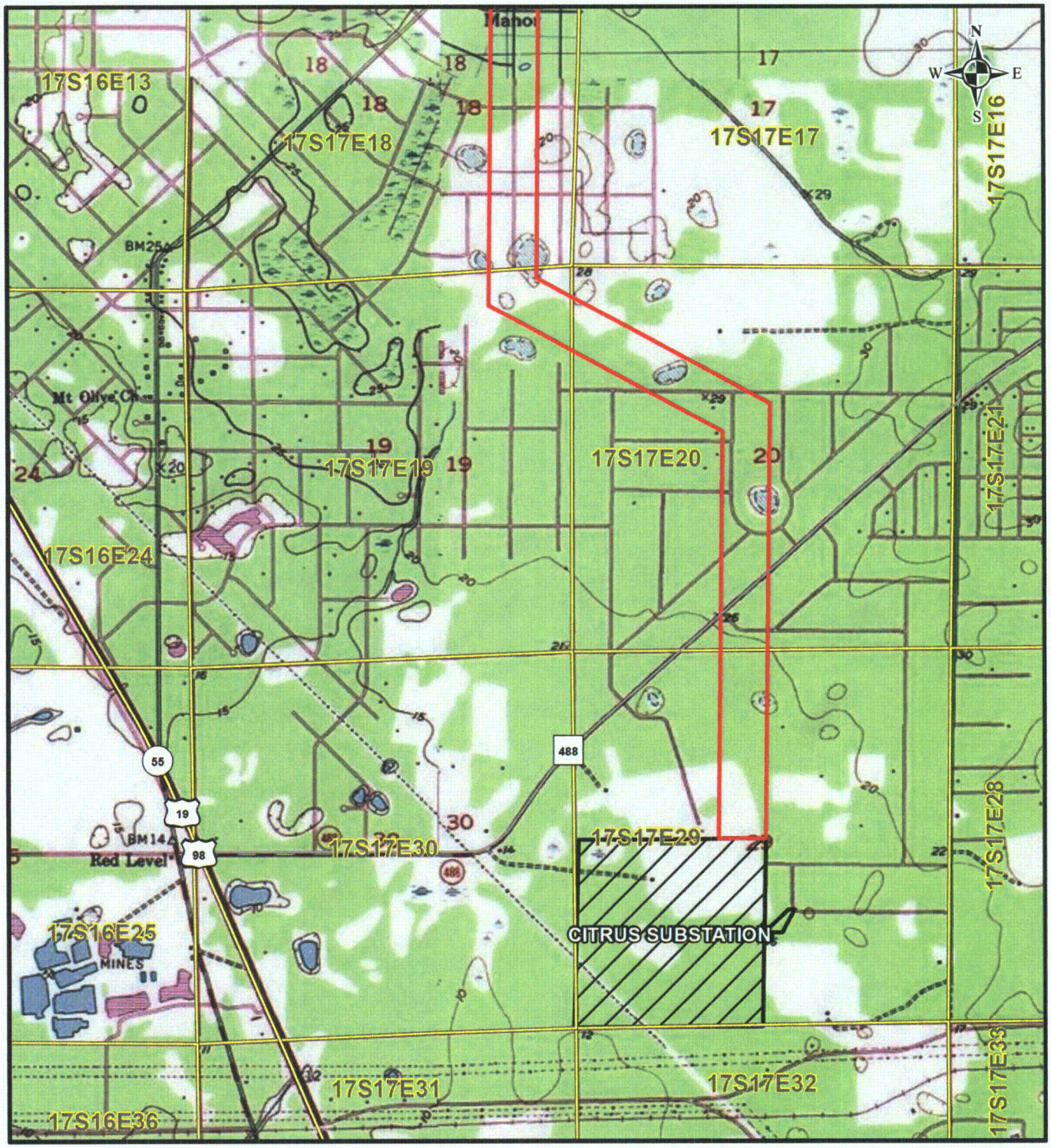
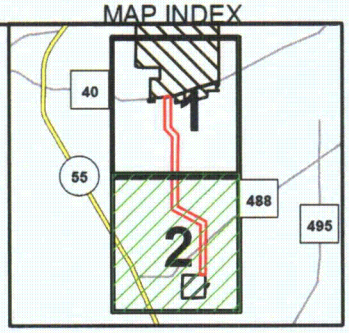


LEGEND

- Common Right-of-Way
- Township-Range-Section

MAP INDEX



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REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; USGS Topographic Map: National Geographic Society, 2009; Township-Range-Section: Florida Department of Environmental Protection, 1994

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE
USGS TOPOGRAPHIC MAP

Progress Energy

MXD File No. 093-89547F002			SCALE AS SHOWN	REV. 0
DESIGN	JDG	12/11/2009	**FIGURE 2**	
GIS	DLH	12 Mar 2010	**PAGE 2 OF 2**	
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REVIEW	KB	12 Mar 2010		

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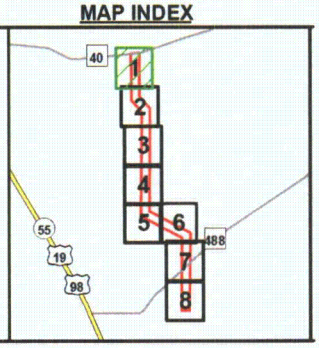
LEGEND

Common Right-of-Way

MAP INDEX



400 200 0 400 Feet

REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; Aerials: Progress Energy, 2009

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE AERIAL MAP

Progress Energy

MXD File No. 093-89547F003			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 3	
GIS	DLH	12 Mar 2010		
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REVIEW	KB	12 Mar 2010		

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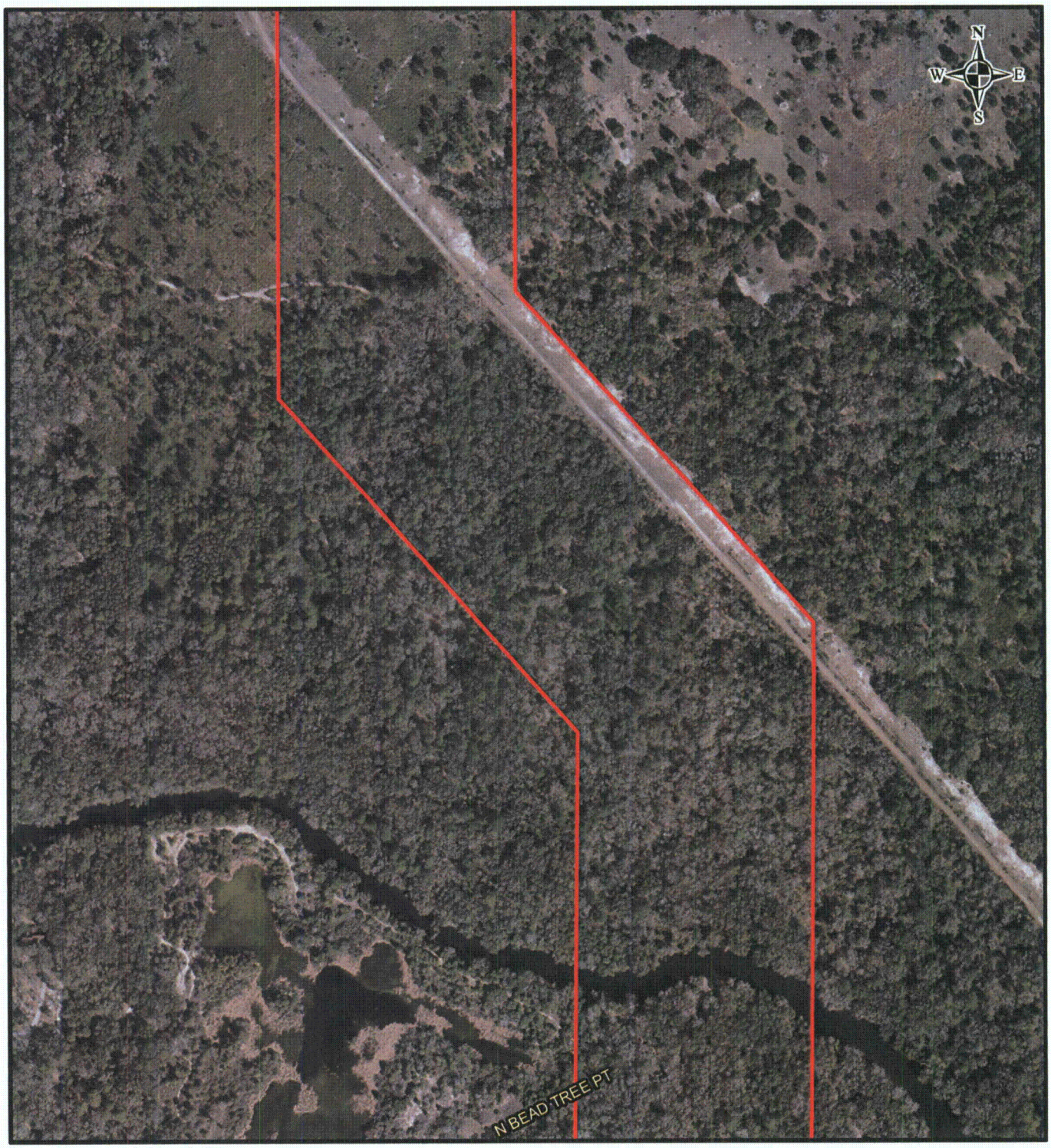
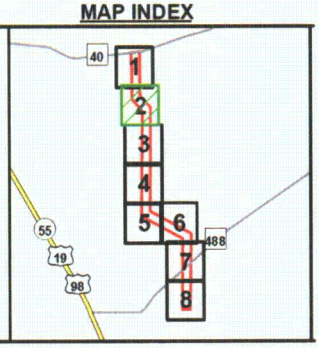


LEGEND

Common Right-of-Way

MAP INDEX



400 200 0 400 Feet

REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; Aerials: Progress Energy, 2009

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE
AERIAL MAP

Progress Energy

MXD File No. 093-89547F003			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	**FIGURE 3**	
GIS	DLH	12 Mar 2010	**PAGE 2 OF 8**	
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REVIEW	KB	12 Mar 2010		

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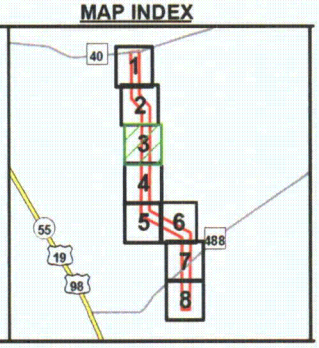
LEGEND

Common Right-of-Way

MAP INDEX



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REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; Aerials: Progress Energy, 2009

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE AERIAL MAP

Progress Energy

MXD File No. 093-89547F003			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 3	
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REVIEW	KB	12 Mar 2010		

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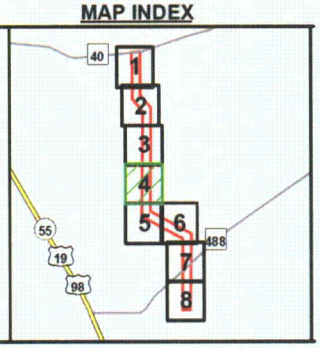
LEGEND

Common Right-of-Way

MAP INDEX



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REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; Aerials: Progress Energy, 2009

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE AERIAL MAP

Progress Energy

MXD File No. 093-89547F003			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 3	
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REVIEW	KB	12 Mar 2010		

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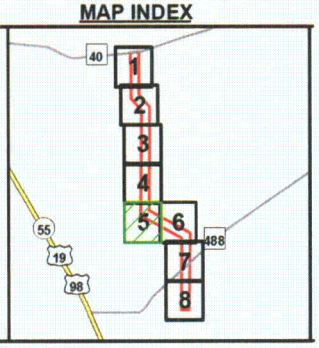
LEGEND

Common Right-of-Way

MAP INDEX



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REFERENCE

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PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE AERIAL MAP

Progress Energy

MXD File No. 093-89547F003			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 3	
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REVIEW	KB	12 Mar 2010		

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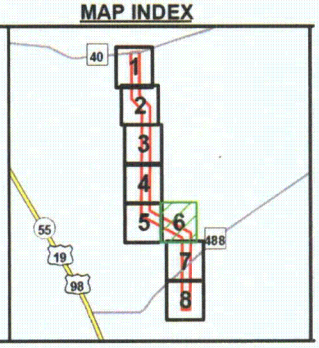
LEGEND

Common Right-of-Way

MAP INDEX



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PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE AERIAL MAP

Progress Energy

MXD File No. 093-89547F003			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 3	
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REVIEW	KB	12 Mar 2010		

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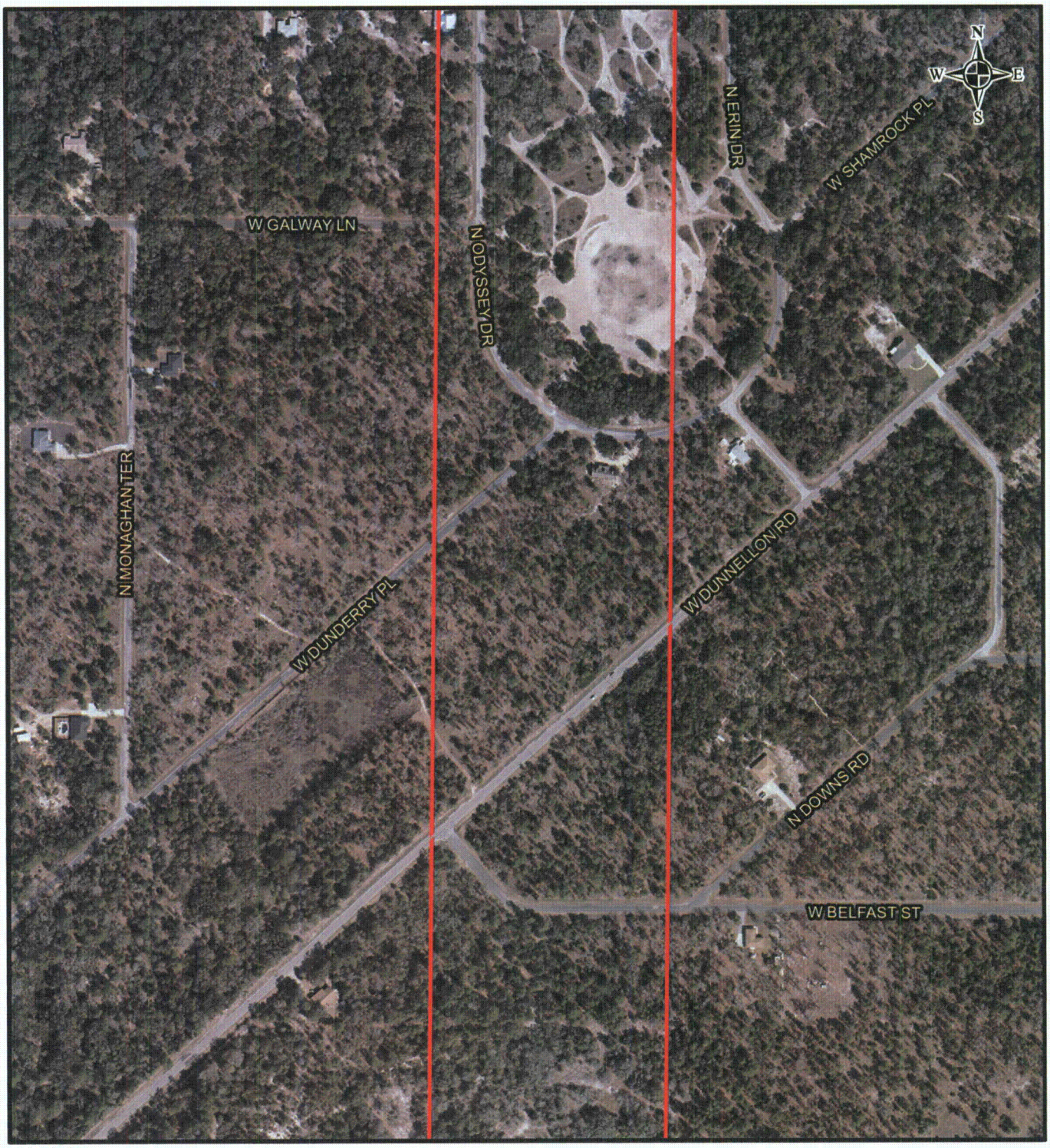
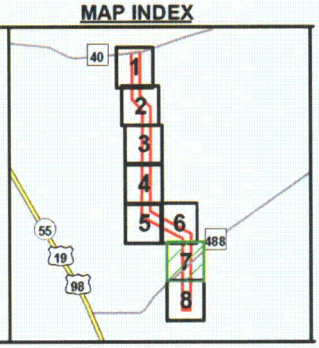


LEGEND

Common Right-of-Way

MAP INDEX



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PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE AERIAL MAP

Progress Energy

MXD File No. 093-89547F003			SCALE AS SHOWN	REV. 0
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REVIEW	KB	12 Mar 2010		

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W DUNNELLON RD

W DIAMOND T LN

CITRUS SUBSTATION

W KILLARNEY LN

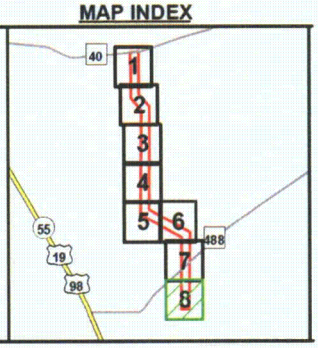
N KILDARE TER

N W E S

LEGEND

Common Right-of-Way

MAP INDEX



400 200 0 400 Feet

REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; Aerials: Progress Energy, 2009

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE AERIAL MAP

Progress Energy

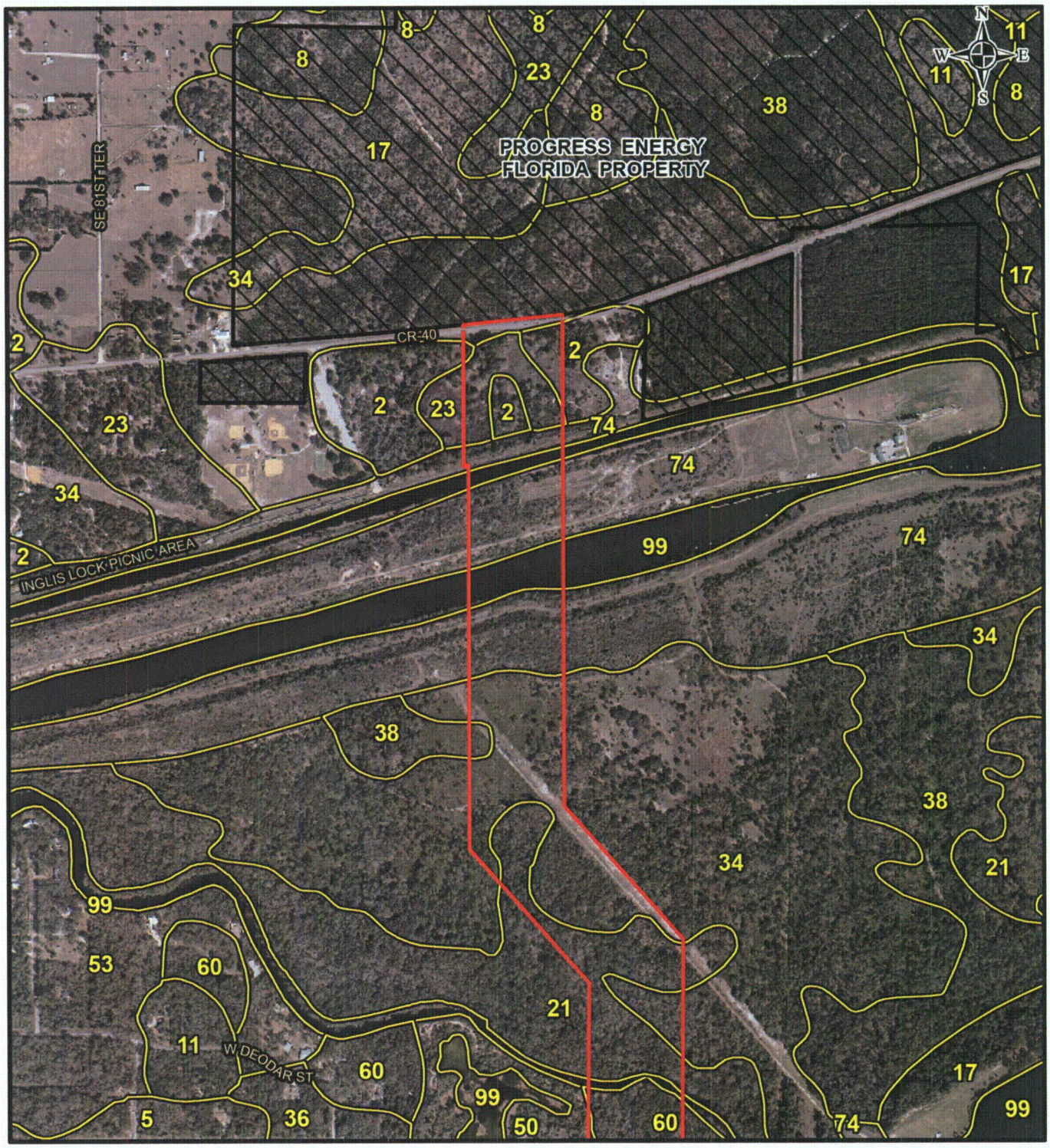
MXD File No. 093-89547F003			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 3	
GIS	DLH	12 Mar 2010		
CHECK	SAR	12 Mar 2010	PAGE 8 OF 8	
REVIEW	KB	12 Mar 2010		

F:\PROJECTS\2009\093-89547 PEFCF Wetland Delineation T&E Surveys\F - ERP Common Route\GIS\MXD\093-89547F003 Aerial.mxd

FIGURE 4
COMMON ROUTE
SOILS MAP

SOIL IDENTIFICATION TABLE

SOIL ID	DESCRIPTION	COUNTY
2	Tavares fine sand, 1 to 5 percent slopes	Levy
8	Smyrna fine sand	Levy
11	Placid and Samsula soils, depressional	Levy
17	Adamsville fine sand, 0 to 5 percent slopes	Levy
21	Pompano fine sand	Levy
23	Zolfo sand	Levy
34	Cassia-Pomello complex	Levy
38	Myakka sand	Levy
74	Arents, 0 to 5 percent slopes	Levy
99	Water	Levy
2	Adamsville fine sand	Citrus
5	Basinger fine sand	Citrus
6	Basinger fine sand, depressional	Citrus
7	Myakka fine sand	Citrus
9	Pompano fine sand	Citrus
10	Pompano fine sand, depressional	Citrus
11	Tavares fine sand, 0 to 5 percent slopes	Citrus
12	Immokalee fine sand	Citrus
20	Pits	Citrus
22	Quartzipsaments, 0 to 5 percent slopes	Citrus
28	Redlevel fine sand	Citrus
29	Astatula fine sand, 0 to 5 percent slopes	Citrus
36	EauGallie fine sand	Citrus
50	Kanapaha fine sand, 0 to 5 percent slopes	Citrus
51	Boca-Pineda, limestone substratum complex	Citrus
53	Boca fine sand	Citrus
57	Ona fine sand	Citrus
59	Boca fine sand, depressional	Citrus
60	Broward fine sand	Citrus
99	Water	Citrus

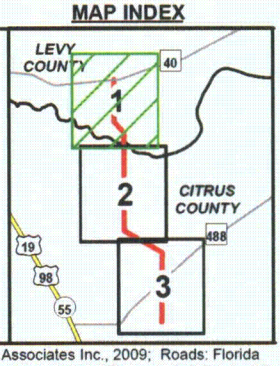


LEGEND

Common Right-of-Way

Soil Boundary

MAP INDEX



1,000 500 0 1,000 Feet

NOTE

See Figure 4 Soil Identification Table for Soil Definitions

REFERENCE

Substations and Right-of-Way: Progress Energy Florida and Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; Soils: U.S. Department of Agriculture, Natural Resources Conservation Service, 2006; Aerials: Progress Energy, 2009

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE SOILS MAP

Progress Energy

MXD File No. 093-89547F004			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 4	
GIS	DLH	12 Mar 2010	PAGE 1 OF 3	
CHECK	SAR	12 Mar 2010		
REVIEW	KB	12 Mar 2010		

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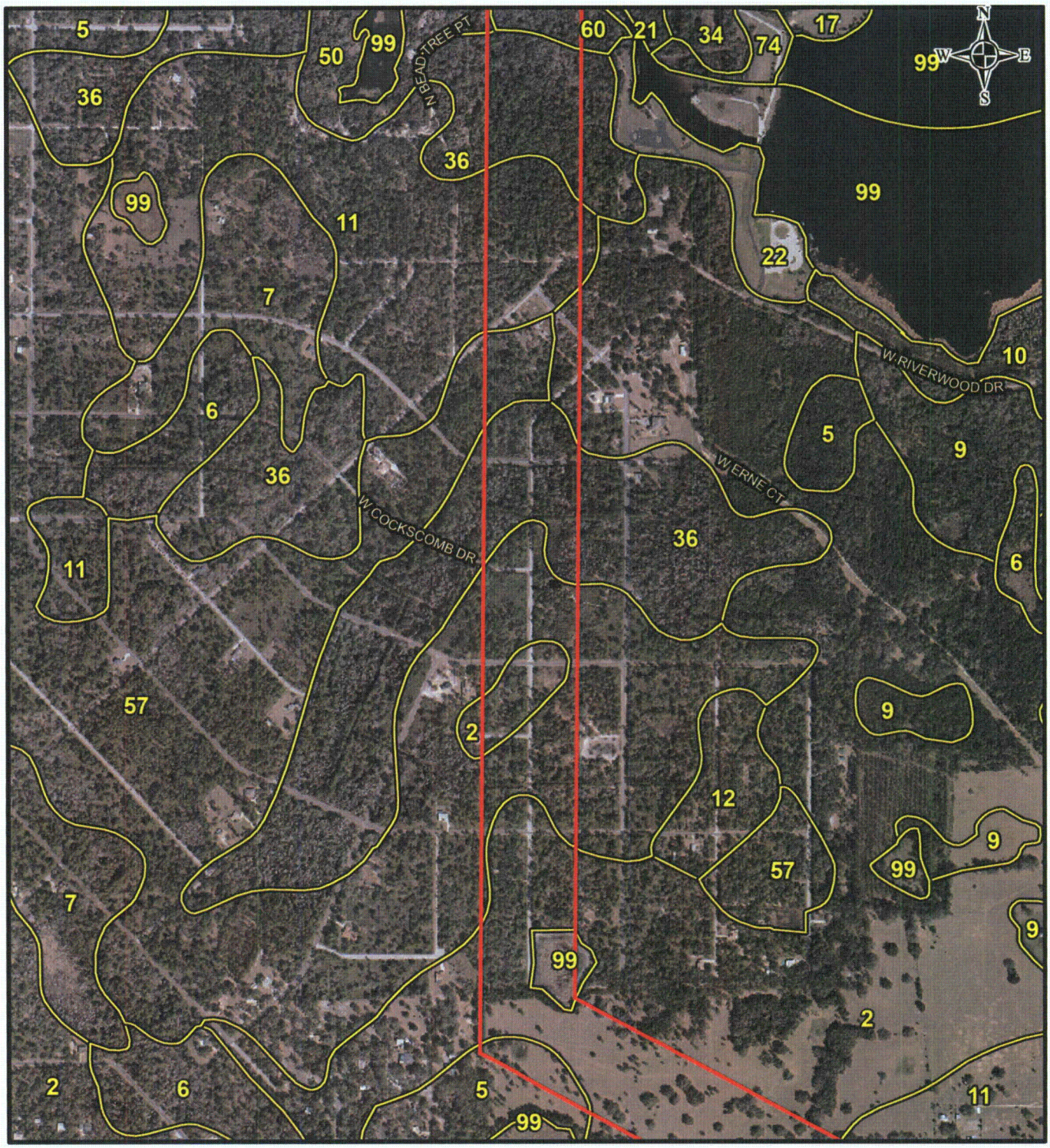
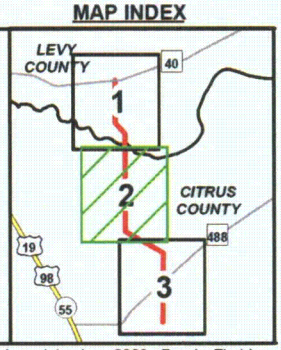


LEGEND

Common Right-of-Way

Soil Boundary

MAP INDEX



1,000 500 0 1,000 Feet

NOTE

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PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE SOILS MAP

Progress Energy

MXD File No. 093-89547F004			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 4	
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REVIEW	KB	12 Mar 2010		

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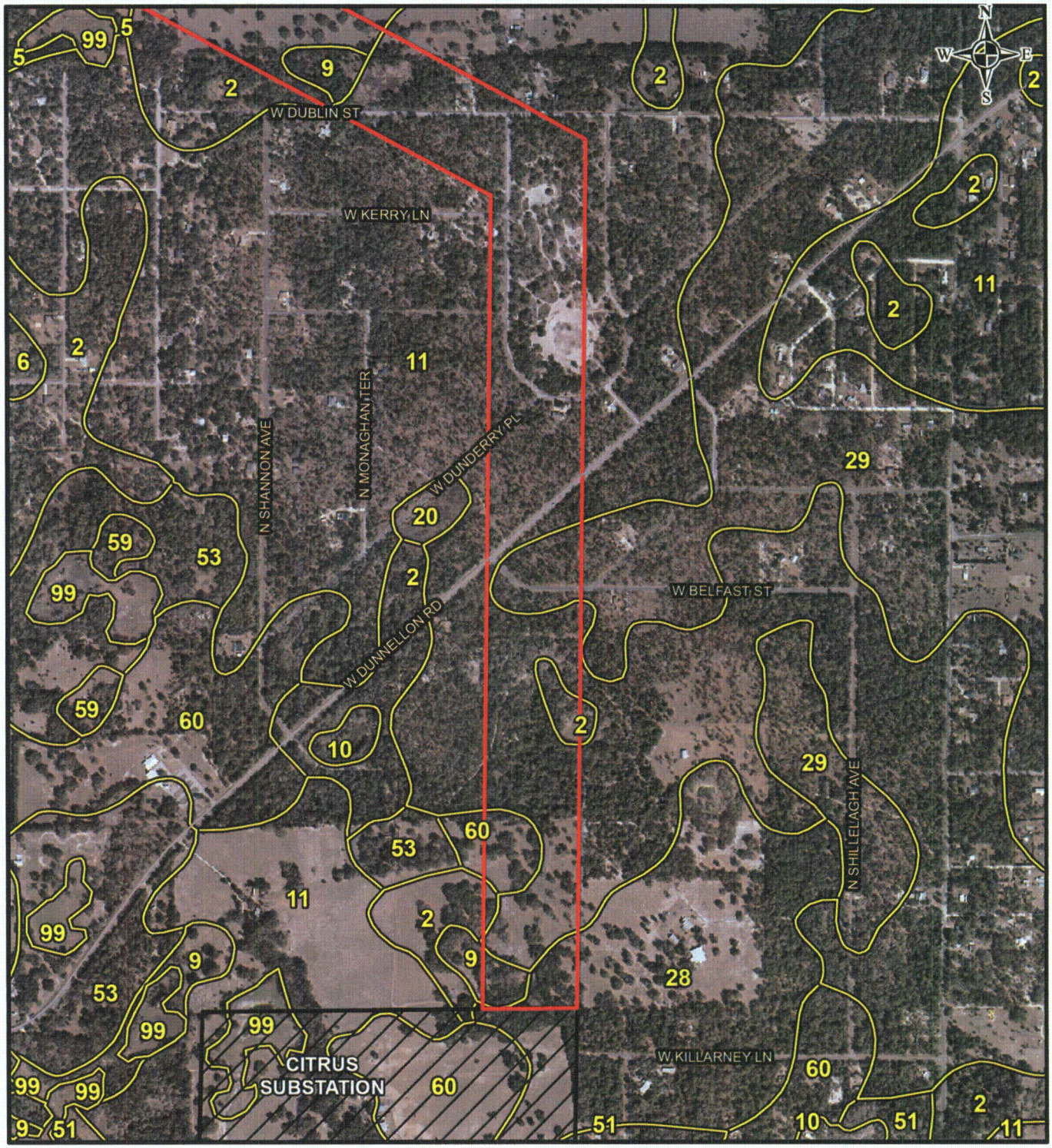
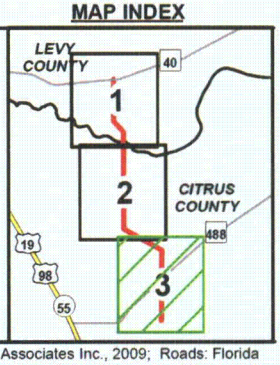


LEGEND

Common Right-of-Way

Soil Boundary

MAP INDEX



1,000 500 0 1,000 Feet

NOTE

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PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE SOILS MAP

Progress Energy

MXD File No. 093-89547F004			SCALE AS SHOWN	REV. 0
DESIGN	JDG	11 Dec 2009	FIGURE 4	
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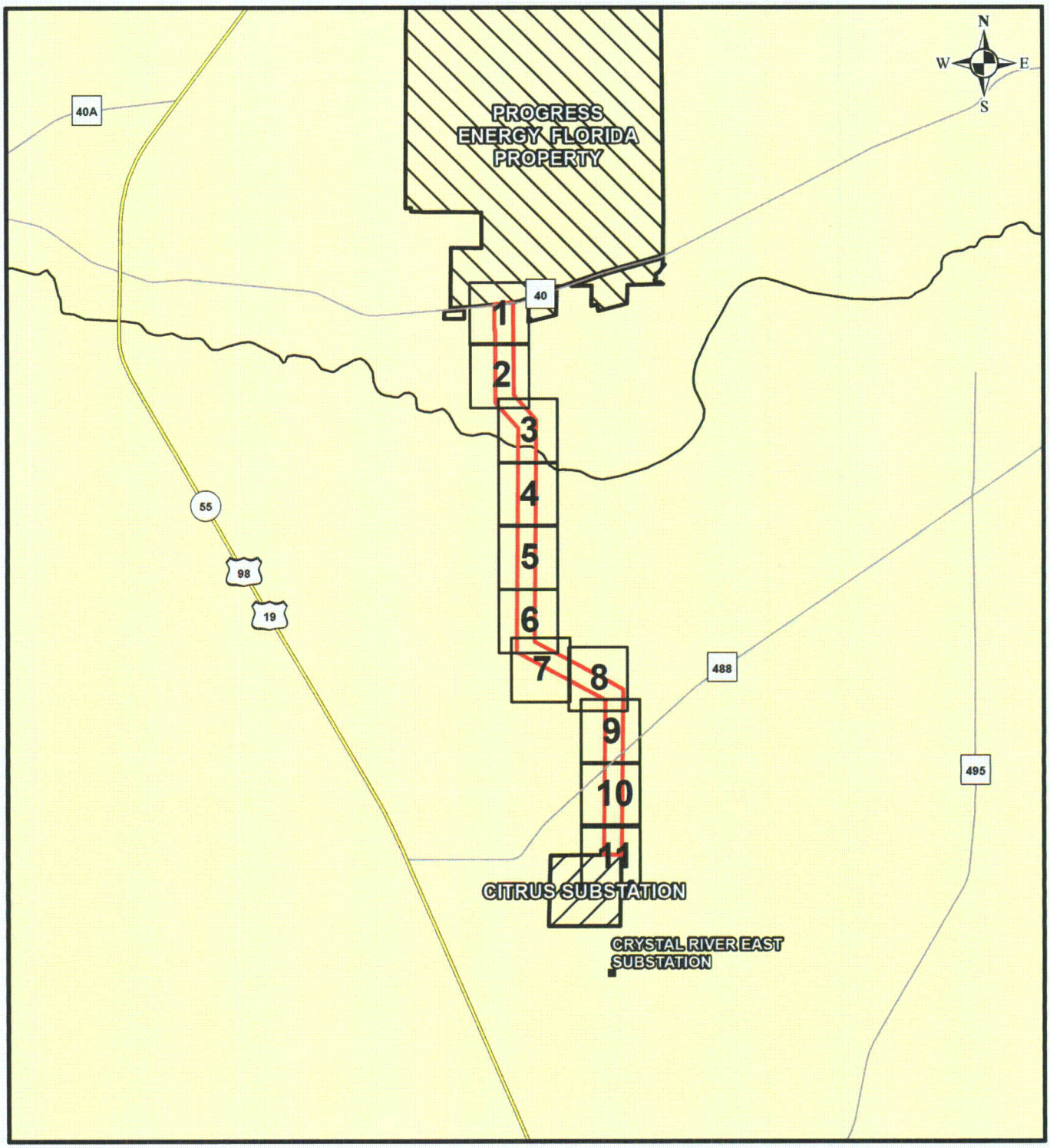

1 0.5 0 1 Miles

LEGEND

- US Road
- State Road
- County Road
- Common Right-of-Way
- County Boundary

REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009
Roads: Florida Department of Transportation, 2010; County Boundary: U.S. Census Bureau, 2000

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE
HABITAT CLASSIFICATION MAP

Progress Energy

MXD File No. 093-89547F005			SCALE AS SHOWN	REV. 0
DESIGN	DLH	24 Sept 2009	**FIGURE 5**	
GIS	DLH	12 Mar 2010	**INDEX**	
CHECK	SAR	12 Mar 2010		
REVIEW	KB	12 Mar 2010		

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LEGEND

300 150 0 300 Feet

LAND USE / LAND COVER CODES

- 110, RESIDENTIAL, LOW DENSITY
- 180, RECREATIONAL
- 190, OPEN LAND
- 211, IMPROVED PASTURES
- 260, OTHER OPEN LANDS <RURAL>
- 320, SHRUB AND BRUSHLAND
- 330, MIXED RANGELAND
- 412, LONGLEAF PINE - XERIC OAK
- 427, LIVE OAK
- 434, HARDWOOD - CONIFER MIXED
- 438, MIXED HARDWOODS
- 441, CONIFEROUS PLANTATIONS
- 510, STREAMS AND WATERWAYS
- 511, DITCHES
- 520, LAKES
- 615, STREAM AND LAKE SWAMPS (BOTTOMLAND)
- 621, CYPRESS
- 630, WETLAND FORESTED MIXED
- 641, FRESHWATER MARSHES
- 643, WET PRAIRIES
- 814, ROADS AND HIGHWAYS
- 832, ELECTRICAL POWER TRANSMISSION LINES

Common Right-of-Way

REFERENCE

Substations and Right-of-Way: Progress Energy Florida & Golder Associates Inc., 2009; Roads: Florida Department of Transportation, 2010; FLUCCS Data: SWFWMD, 2007, Golder edited 2009; Aerials: Progress Energy, 2009

PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE
HABITAT CLASSIFICATION MAP

Progress Energy

MXD File No. 093-89547F005			SCALE AS SHOWN	REV. 0
DESIGN	DLH	24 Sept 2009	FIGURE 5	
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LEGEND

300 150 0 300 Feet

LAND USE / LAND COVER CODES

- 110, RESIDENTIAL, LOW DENSITY
- 180, RECREATIONAL
- 190, OPEN LAND
- 211, IMPROVED PASTURES
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PROGRESS ENERGY FLORIDA
LEVY NUCLEAR PLANT

COMMON ROUTE
HABITAT CLASSIFICATION MAP

Progress Energy

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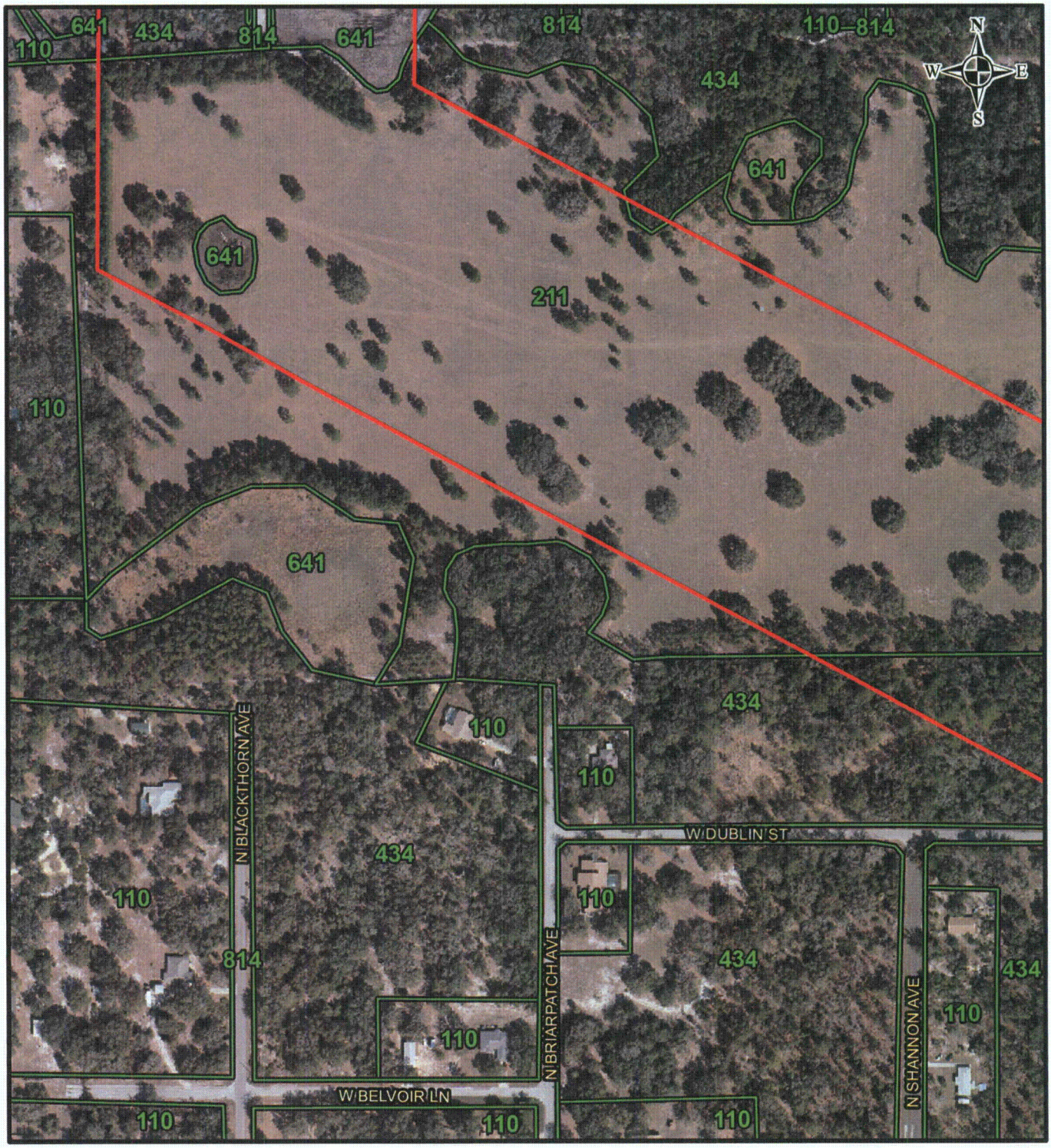

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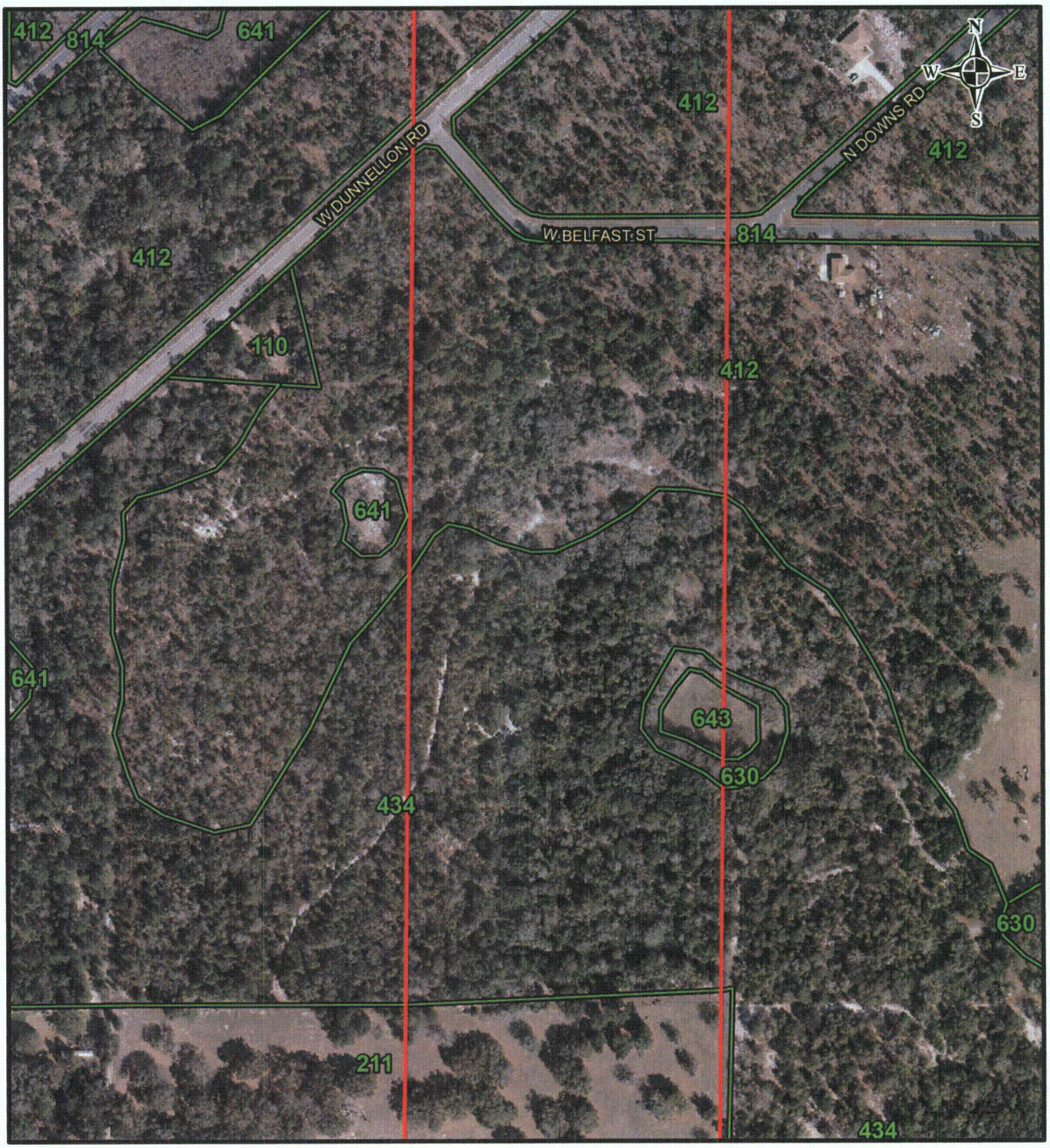

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