LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

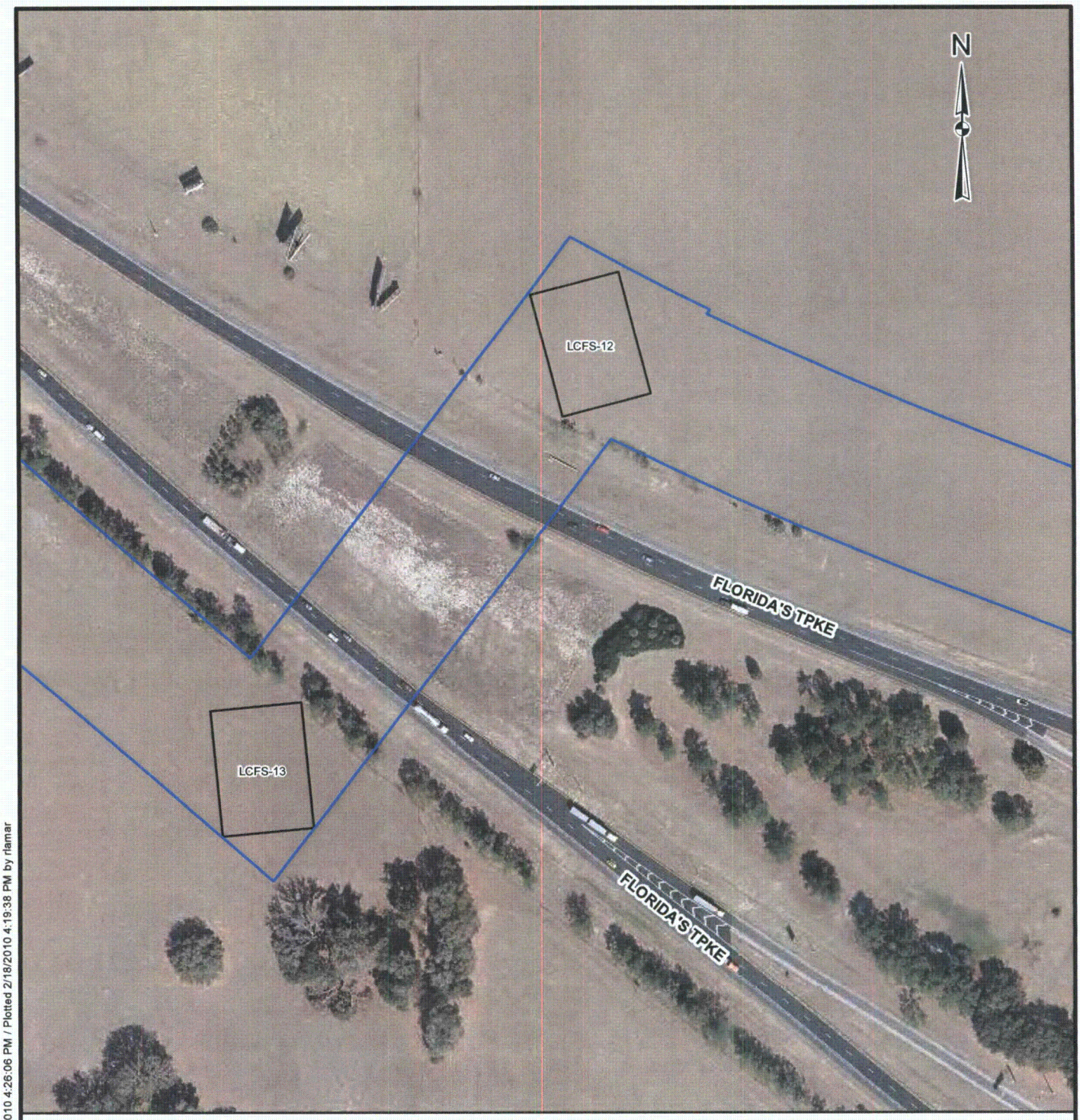
SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB
FILE No.	09389547Z002
PROJECT No.	093-89547
REV.	1

LEVY - CENTRAL FLORIDA SOUTH (LCFS) TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 171 of 180

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar



LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

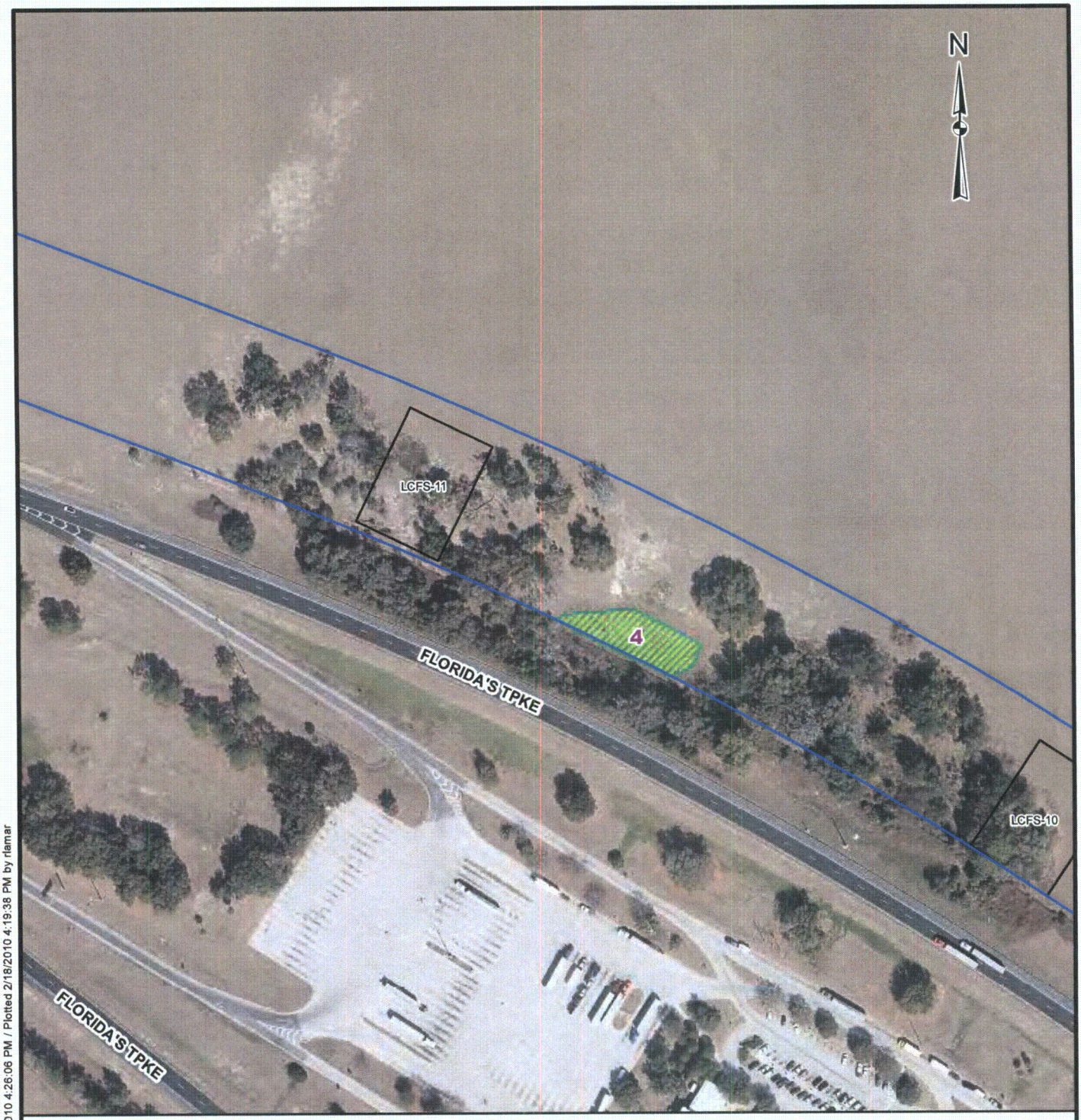
SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB
FILE No.	09389547Z002
PROJECT No.	093-89547
REV.	1

LEVY - CENTRAL FLORIDA SOUTH (LCFS)
TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 172 of 180

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar



LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

FILE No.	09389547Z002	SCALE	AS SHOWN
PROJECT No.	093-89547	REV. 1	DATE 2/18/2010
			DESIGN KAB
			GIS NRL
			CHECK SR
			REVIEW KAB

LEVY - CENTRAL FLORIDA SOUTH (LCFS)
TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 173 of 180

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar

LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB
FILE No.	09389547Z002
PROJECT No.	093-89547
REV.	1

LEVY - CENTRAL FLORIDA SOUTH (LCFS) TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar

LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

FILE No.	09389547Z002		
PROJECT No.	093-89547	REV.	1

SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB

LEVY - CENTRAL FLORIDA SOUTH (LCFS)
TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 175 of 180

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar

LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB
FILE No.	09389547Z002
PROJECT No.	093-89547
REV.	1

LEVY - CENTRAL FLORIDA SOUTH (LCFS)
TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 176 of 180

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar

LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB
FILE No.	09389547Z002
PROJECT No.	093-89547
REV.	1

LEVY - CENTRAL FLORIDA SOUTH (LCFS)
TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 177 of 180

Map Document: 09389547Z002_ Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar

LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB
FILE No.	09389547Z002
PROJECT No.	093-89547
REV.	1

LEVY - CENTRAL FLORIDA SOUTH (LCFS) TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 178 of 180

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar

LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

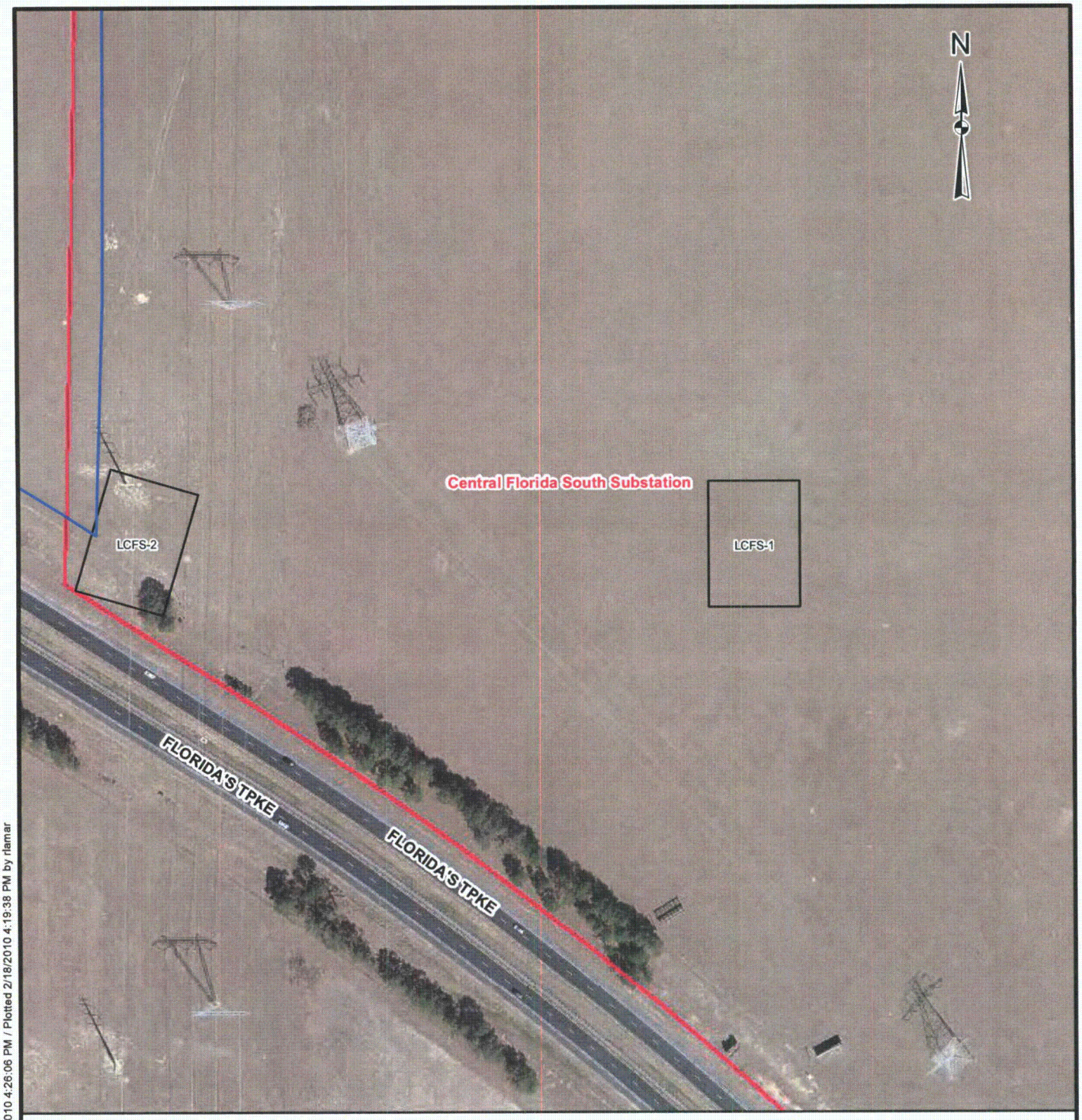
SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB
FILE No.	09389547Z002
PROJECT No.	093-89547
REV.	1

LEVY - CENTRAL FLORIDA SOUTH (LCFS)
TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 179 of 180

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar



LEGEND

- LCFS Right-of-Way
- LCFS Pad Locations
- Structure Pad Wetland Fill Impacts
- Access Roads Wetland Impact Areas
- LCFS Access Roads
- Substation Property
- Forested Wetland Clearing Impacts
- Surveyed Wetland Boundaries

0 100 200 400 Feet

REFERENCES

1. Wetland boundaries, MACTEC, 2010.
2. Wetland impacts, Golder Associates Inc., 2010.
3. Pad Locations, Access Roads, Patrick Engineering, 2010.

NOTES

See wetland survey for acreage of wetlands.
For impact acreages see attached tables.

Golder Associates
Gainesville, Florida

SCALE	AS SHOWN
DATE	2/18/2010
DESIGN	KAB
GIS	NRL
CHECK	SR
REVIEW	KAB

FILE No. 09389547Z002
PROJECT No. 093-89547 REV. 1

LEVY - CENTRAL FLORIDA SOUTH (LCFS) TRANSMISSION LINE WETLAND IMPACT ANALYSIS

PROGRESS ENERGY FLORIDA
LEVY BASELOAD PROJECT

FIGURE 180 of 180

Map Document: 09389547Z002_Rev1_LCFS.mxd / Modified 2/17/2010 4:26:06 PM / Plotted 2/18/2010 4:19:38 PM by rlamar

LEVY – CENTRAL FLORIDA SOUTH (LCFS)
TRANSMISSION LINE WETLAND IMPACT ANALYSIS
TABLES

Progress Energy Florida
Levy Baseload Project
LCFS Pads Wetland Impacts

Structure ID	Wetland ID	FLUCFCS Code	FLUCFCS Definition	Impact Acreage	Total Impact Acreage	UMAM	Mitigation Credits	Total Mitigation Credits
LCFS-32	17	630	Wetland Forested Mixed	0.08	0.50	0.73	0.06	0.37
	17	641	Freshwater Marshes	0.42		0.73	0.31	
LCFS-34	19	643	Wet Prairies	0.00*	0.00*	0.73	0.00*	0.00*
LCFS-36	28	641	Freshwater Marshes	0.06	0.06	0.60	0.04	0.04
	28	511	Ditches	0.00*		0.50	0.00*	
LCFS-38	36	630	Wetland Forested Mixed	0.41	0.43	0.73	0.30	0.31
	36	641	Freshwater Marshes	0.02		0.73	0.01	
LCFS-40	38	641	Freshwater Marshes	0.12	0.53	0.67	0.08	0.38
	38	630	Wetland Forested Mixed	0.41		0.73	0.30	
LCFS-41	38	641	Freshwater Marshes	0.25	0.53	0.67	0.17	0.37
	38	630	Wetland Forested Mixed	0.28		0.73	0.20	
LCFS-42	38	641	Freshwater Marshes	0.18	0.54	0.67	0.12	0.38
	38	630	Wetland Forested Mixed	0.36		0.73	0.26	
LCFS-43	45	630	Wetland Forested Mixed	0.12	0.21	0.73	0.09	0.15
	45	641	Freshwater Marshes	0.09		0.67	0.06	
LCFS-44	50	641	Freshwater Marshes	0.00*	0.01	0.57	0.00*	0.01
	48	641	Freshwater Marshes	0.01		0.57	0.01	
LCFS-45	51	641	Freshwater Marshes	0.47	0.47	0.67	0.31	0.31
LCFS-47	54	643	Wet Prairies	0.53	0.53	0.63	0.33	0.33

Golder Associates

Progress Energy Florida
Levy Baseload Project
LCFS Pads Wetland Impacts

Structure ID	Wetland ID	FLUCFCS Code	FLUCFCS Definition	Impact Acreage	Total Impact Acreage	UMAM	Mitigation Credits	Total Mitigation Credits
LCFS-54	55	641	Freshwater Marshes	0.07	0.07	0.60	0.04	0.04
LCFS-55	58	641	Freshwater Marshes	0.08	0.11	0.73	0.06	0.08
	58	511	Ditches	0.03		0.60	0.02	
LCFS-110	X	643	Wet Prairies	0.00*	0.11	0.63	0.00*	0.07
	Y	511	Ditches	0.07		0.57	0.04	
	Y	625	Hydric Pine Flatwoods	0.04		0.67	0.03	
LCFS-111	W	643	Wet Prairies	0.05	0.05	0.63	0.03	0.03
LCFS-140	K	641	Freshwater Marshes	0.47	0.47	0.80	0.38	0.38
LCFS-141	K	641	Freshwater Marshes	0.33	0.33	0.80	0.26	0.26
LCFS-151	I	641	Freshwater Marshes	0.01	0.01	0.60	0.01	0.01
LCFS-198	D	643	Wet Prairies	0.14	0.14	0.63	0.09	0.09
LCFS-199	B	643	Wet Prairies	0.02	0.02	0.53	0.01	0.01
			Totals		5.12			3.62

* Impact Acreage or Mitigation Credits < 0.005

Golder Associates

Progress Energy Florida
Levy Baseload Project
LCFS Access Roads Wetland Impacts

Access Road ID	Wetland ID	FLUCFCS Code	FLUCFCS Definition	Impact Acreage	Total Impact Acreage	UMAM	Mitigation Credits	Total Mitigation Credits
Rd-1	5/6	511	Ditches	0.02	0.18	0.50	0.01	0.09
	5/6	643	Wet Prairies	0.16		0.53	0.08	
Rd-2	7	630	Wetland Forested Mixed	0.16	0.16	0.73	0.12	0.12
Rd-3	16	641	Freshwater Marshes	0.00*	0.00*	0.73	0.00*	0.00*
	16	643	Wet Prairies	0.00*		0.73	0.00*	
Rd-4	38	641	Freshwater Marshes	0.10	0.10	0.67	0.07	0.07
Rd-5	38	641	Freshwater Marshes	0.08	0.08	0.67	0.05	0.05
Rd-6	38	641	Freshwater Marshes	0.03	0.03	0.67	0.02	0.02
Rd-7	51	641	Freshwater Marshes	0.03	0.03	0.67	0.02	0.02
Rd-9	54	643	Wet Prairies	0.03	0.03	0.63	0.02	0.02
Rd-10	K	641	Freshwater Marshes	0.20	0.20	0.80	0.16	0.16
Rd-11	K	641	Freshwater Marshes	0.70	0.70	0.80	0.56	0.56
Rd-12	K	641	Freshwater Marshes	0.32	0.32	0.80	0.26	0.26
Rd-9A	54	643	Wet Prairies	0.01	0.03	0.63	0.01	0.02
	54	511	Ditches	0.02		0.60	0.01	
	54	641	Freshwater Marshes	0.00*		0.67	0.00*	
			Totals		1.86			1.39

* Impact Acreage or Mitigation Credits < 0.005

Golder Associates

Progress Energy Florida
Levy Baseload Project
LCFS Forested Wetland Clearing Impacts

Wetland ID	FLUCFCS Code	FLUCFCS Definition	Clearing Impact Acreage	Total Clearing Impact Acreage	UMAM	Functional Loss / Acre (UMAM)	Mitigation Credits	Total Mitigation Credits
7	630	Wetland Forested Mixed	1.26	1.26	0.73	0.30	0.38	0.38
16	630	Wetland Forested Mixed	1.35	1.35	0.73	0.30	0.41	0.41
17	630	Wetland Forested Mixed	1.12	1.12	0.73	0.30	0.34	0.34
27	630	Wetland Forested Mixed	0.91	0.91	0.73	0.30	0.27	0.27
36	630	Wetland Forested Mixed	3.15	3.15	0.73	0.30	0.95	0.95
38	630	Wetland Forested Mixed	12.74	12.74	0.73	0.30	3.82	3.82
45	630	Wetland Forested Mixed	1.22	1.22	0.73	0.30	0.37	0.37
66	630	Wetland Forested Mixed	0.92	0.92	0.73	0.30	0.28	0.28
M	630	Wetland Forested Mixed	1.61	1.61	0.83	0.40	0.64	0.64
U	617	Mixed Wetland Hardwoods	0.81	0.81	0.73	0.30	0.24	0.24
Y	625	Hydric Pine Flatwoods	0.18	0.18	0.67	0.30	0.05	0.05
		Totals		25.27				7.75

Progress Energy Florida
Levy Baseload Project
LCFS Wetland Impact Summary

	Acreage (Fill)	Acreage (Clearing)	Mitigation Credits
Pads	5.12	-	3.62
Roads	1.86	-	1.39
Right-of-Way Clearing	-	25.27	7.75
Total	6.98	25.27	12.76

Golder Associates