BROWARD COUNTY NATURAL RESOURCE MAP SERIES - SOILS

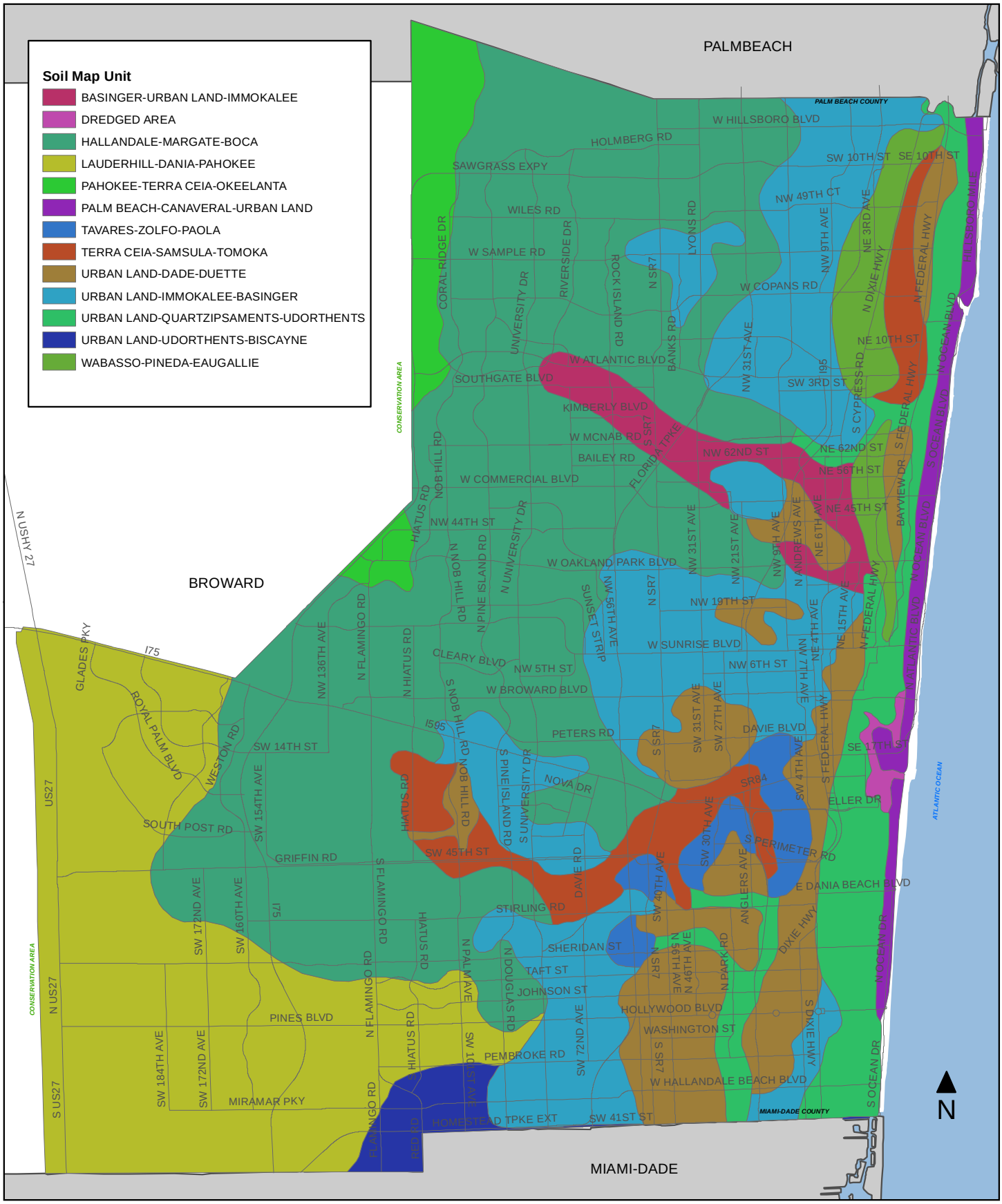
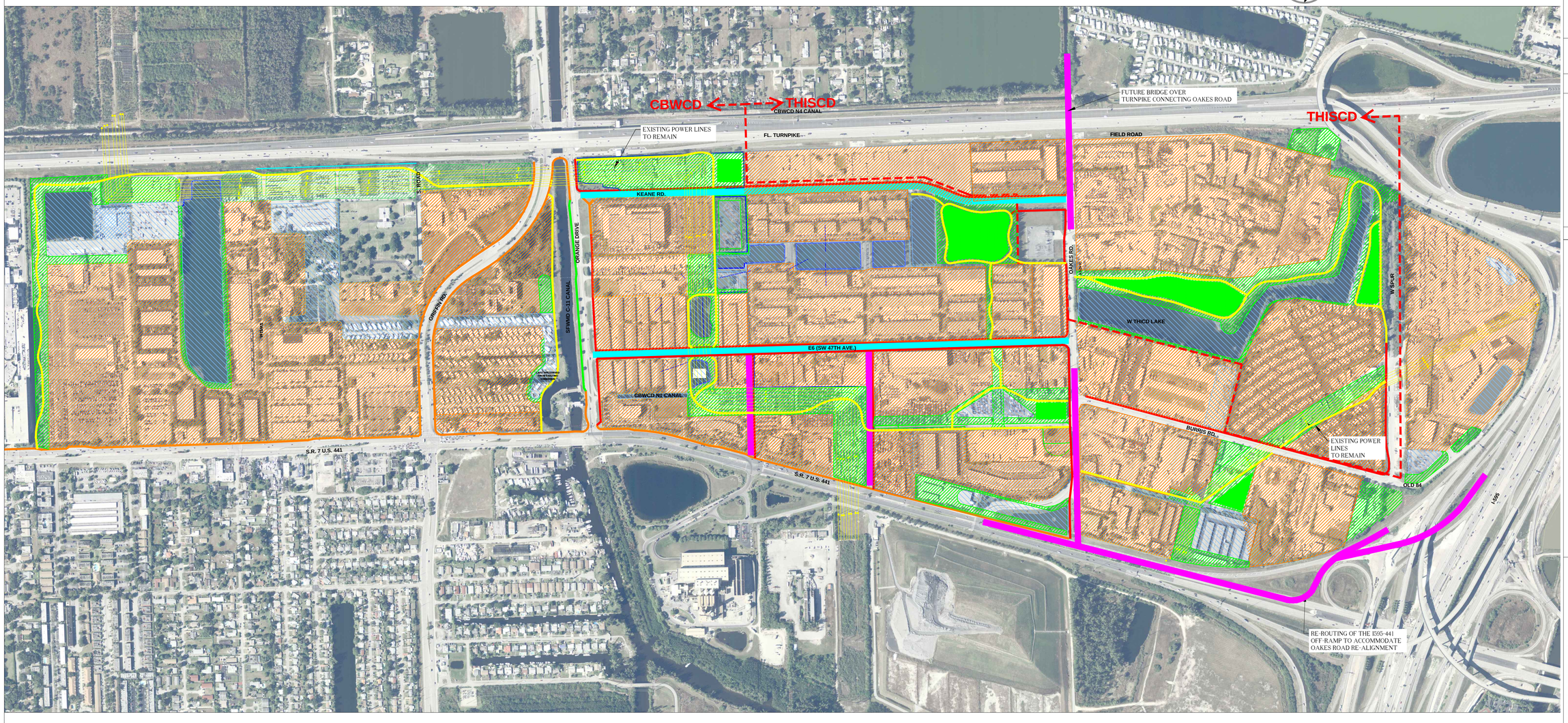


EXHIBIT 5

Division Name: Natural Resources Planning and Management
Department Name: Environmental Protection and Growth Management

This map is for conceptual purposes only and should not be used for legal boundary determinations.



LEGEND

- EXISTING POWER LINES
- FUTURE ROADWAY
- EXISTING ROADWAY TO BE RECONSTRUCTED ABOVE THE 10-YEAR 1-DAY PEAK STAGE
- PROPOSED LAKE
- EXISTING LAKE TO REMAIN
- PROPOSED GREEN AREAS (ELEVATION BETWEEN 4.0' TO 6' NGVD)
- PROPOSED LANDUSE (35% BUILDING, 45% PAVEMENT AND 20% PREVIOUS)
- EXISTING CONCRETE SIDEWALK
- EXISTING ASPHALT PATH
- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT PATH
- PROPOSED PARK

DATE:	05-09-12
SCALE:	1:400
DESIGN BY:	RVP
DRAWN BY:	RCP
CHECKED BY:	WCL
APPROVED BY:	

DESCRIPTION:	BY:	DATE:

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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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DRAFT ALTERNATE #1
STORMWATER MANAGEMENT SYSTEM

PREPARED FOR:
TOWN OF DAVIE

EXHIBIT 6

PROJECT NO.
11-0009

EXHIBIT # 6

SHEET 1 OF 1

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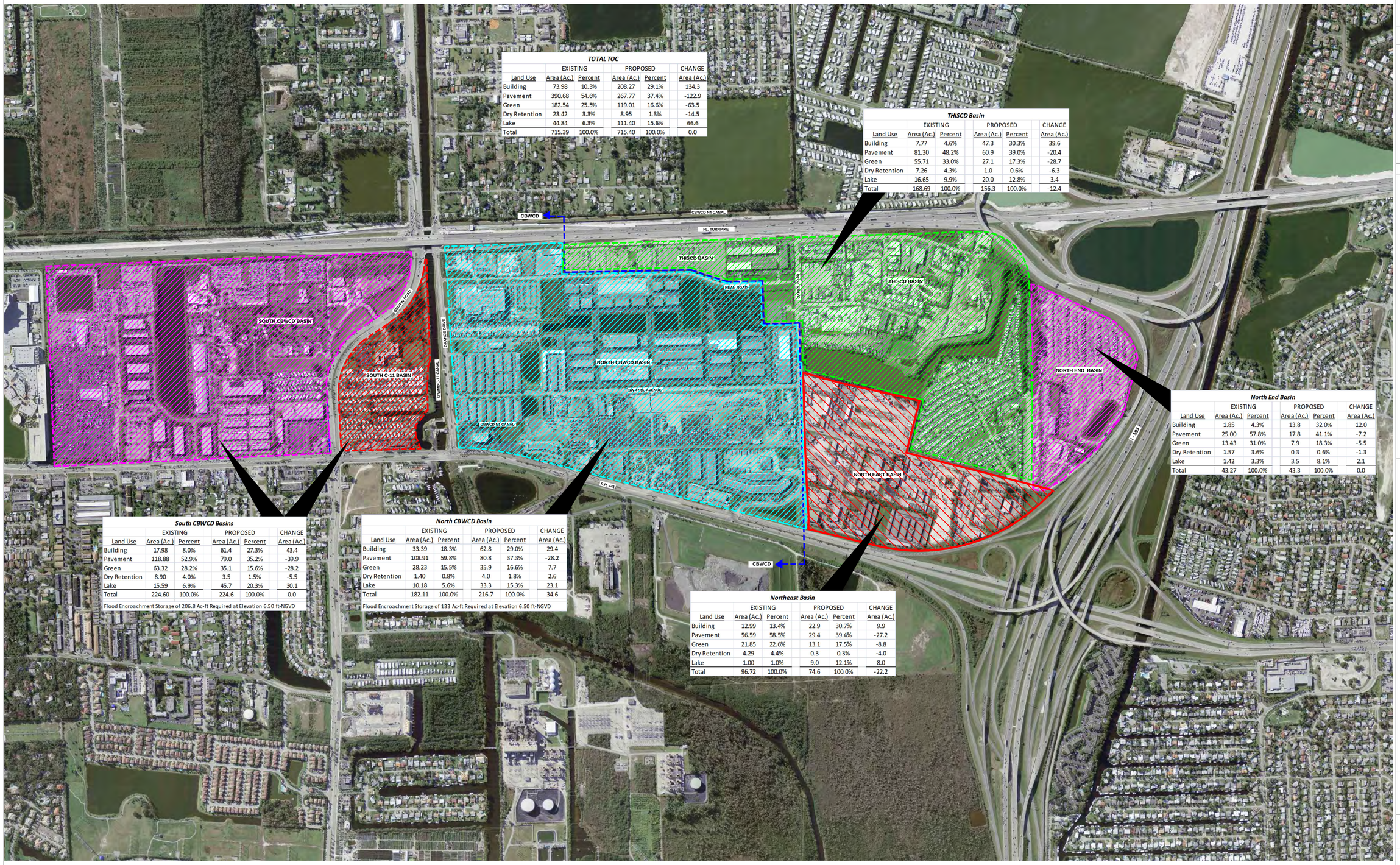
GRAPHIC SCALE IN FEET



TOTAL TOC

	EXISTING		PROPOSED		CHANGE
Land Use	Area (Ac.)	Percent	Area (Ac.)	Percent	Area (Ac.)
Building	73.98	10.3%	208.27	29.1%	134.3
Pavement	390.68	54.6%	267.77	37.4%	-122.9
Green	182.54	25.5%	119.01	16.6%	-63.5
Dry Retention	23.42	3.3%	8.95	1.3%	-14.5
Lake	44.84	6.3%	111.40	15.6%	66.6
Total	715.39	100.0%	715.40	100.0%	0.0

THISCD Basin

	EXISTING		PROPOSED		CHANGE
Land Use	Area (Ac.)	Percent	Area (Ac.)	Percent	Area (Ac.)
Building	7.77	4.6%	47.3	30.3%	39.6
Pavement	81.30	48.2%	60.9	39.0%	-20.4
Green	55.71	33.0%	27.1	17.3%	-28.7
Dry Retention	7.26	4.3%	1.0	0.6%	-6.3
Lake	16.65	9.9%	20.0	12.8%	3.4
Total	168.69	100.0%	156.3	100.0%	-12.4

North End Basin

	EXISTING		PROPOSED		CHANGE
Land Use	Area (Ac.)	Percent	Area (Ac.)	Percent	Area (Ac.)
Building	1.85	4.3%	13.8	32.0%	12.0
Pavement	25.00	57.8%	17.8	41.1%	-7.2
Green	13.43	31.0%	7.9	18.3%	-5.5
Dry Retention	1.57	3.6%	0.3	0.6%	-1.3
Lake	1.42	3.3%	3.5	8.1%	2.1
Total	43.27	100.0%	43.3	100.0%	0.0

South CBWCD Basins

	EXISTING		PROPOSED		CHANGE
Land Use	Area (Ac.)	Percent	Area (Ac.)	Percent	Area (Ac.)
Building	17.98	8.0%	61.4	27.3%	43.4
Pavement	118.88	52.9%	79.0	35.2%	-39.9
Green	63.32	28.2%	35.1	15.6%	-28.2
Dry Retention	8.90	4.0%	3.5	1.5%	-5.5
Lake	15.59	6.9%	45.7	20.3%	30.1
Total	224.60	100.0%	224.6	100.0%	0.0

Flood Encroachment Storage of 206.8 Ac-ft Required at Elevation 6.50 ft-NGVD

North CBWCD Basin

	EXISTING		PROPOSED		CHANGE
Land Use	Area (Ac.)	Percent	Area (Ac.)	Percent	Area (Ac.)
Building	33.39	18.3%	62.8	29.0%	29.4
Pavement	108.91	59.8%	80.8	37.3%	-28.2
Green	28.23	15.5%	35.9	16.6%	7.7
Dry Retention	1.40	0.8%	4.0	1.8%	2.6
Lake	10.18	5.6%	33.3	15.3%	23.1
Total	182.11	100.0%	216.7	100.0%	34.6

Flood Encroachment Storage of 133 Ac-ft Required at Elevation 6.50 ft-NGVD

Northeast Basin

	EXISTING		PROPOSED		CHANGE
Land Use	Area (Ac.)	Percent	Area (Ac.)	Percent	Area (Ac.)
Building	12.99	13.4%	22.9	30.7%	9.9
Pavement	56.59	58.5%	29.4	39.4%	-27.2
Green	21.85	22.6%	13.1	17.5%	-8.8
Dry Retention	4.29	4.4%	0.3	0.3%	-4.0
Lake	1.00	1.0%	9.0	12.1%	8.0
Total	96.72	100.0%	74.6	100.0%	-22.2

DATE:	05/02/12
SCALE:	500:1
DESIGN BY:	FC
DRAWN BY:	FC
CHECKED BY:	FC
APPROVED BY:	

BY:	DATE:	DESCRIPTION:

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DRAFT ALTERNATE # 2 STORMWATER MASTER PLAN

PREPARED FOR:
TOWN OF DAVIE

EXHIBIT # 7

PROJECT NO.
11-0009

EXHIBIT # 7

SHEET 1 OF 1

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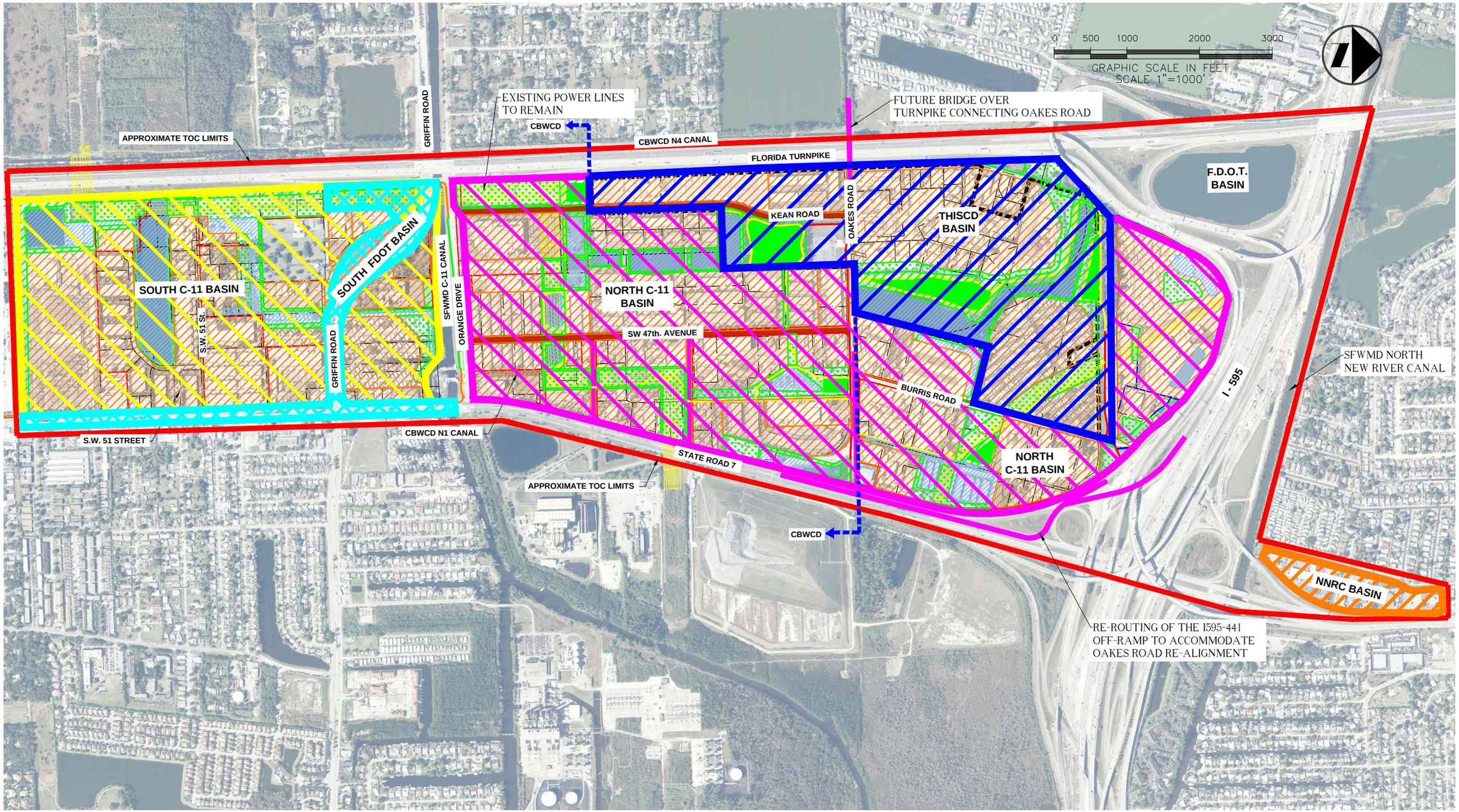

LEGEND

- EXISTING POWER LINES
- FUTURE ROADWAY
- EXISTING CONCRETE SIDEWALK
- EXISTING ASPHALT PATH
- PROPOSED CONCRETE SIDEWALK
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- PROPOSED LANDUSE (35% BUILDING, 45% PAVEMENT AND 20% PREVIOUS)
- PROPOSED PARK
- PROPOSED LAKE
- EXISTING LAKE TO REMAIN
- SOUTH C-11 BASIN
- NORTH C-11 BASIN
- THISCD BASIN
- NORTH NEW RIVER CANAL BASIN

DATE:	11/29/12
SCALE:	NTS
DESIGN BY:	C.L.
DRAWN BY:	E.H.M.
CHECKED BY:	C.L.
APPROVED BY:	

DESCRIPTION:	BY:	DATE:

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DRAINAGE BASINS WITHIN THE PREFERRED STORMWATER MASTER PLAN

PREPARED FOR:
TOWN OF DAVIE

EXHIBIT 8

PROJECT NO.
11-0009

EXHIBIT # 8

SHEET 1 OF 1

EXHIBIT 9 : FINAL TOC LAND USE BREAKDOWN AND MAXIMUM DISCHARGE CALCULATIONS

COMBINED TOC BASINS NORTH OF C-11 POST DEVELOPMENT										
Basin / Sub-Basin ID	SITE AREAS (acres)						Flood Encroach-ment Vol @ EL. 6.50' NGVD	Maximum Discharge (cfs)		
	Total	Build-ing	Pave-ment	Green	Dry Reten-tion	Lake		Water Quality[1] (1/2"/day)	Water Quantity[2] (40 CSM)	Tributary Quantity[3]
CBWCD N-1	208.83	49.76	78.71	44.34	21.08	14.94	185.55	4.39	13.05	22.88
Northeast	74.32	18.34	27.10	13.56	6.70	8.62	74.13	1.56	4.65	9.83
North End	46.08	12.35	17.84	7.51	4.14	4.24	27.32	0.97	2.88	
Offsite FDOT									***2.3***	
THISCD	173.44	34.55	54.09	53.13	15.14	16.53	244.28	3.64	10.84	10.84
Total:	**502.67**	115.00	177.74	118.54	47.06	44.33	**531.28**			
Total post-development storage below 6.50' NGVD :							**531.28**			

COMBINED TOC BASINS SOUTH OF C-11 POST DEVELOPMENT										
Basin / Sub-Basin ID	SITE AREAS (acres)						Flood Encroach-ment Vol @ EL. 6.50' NGVD	Maximum Discharge (cfs)		
	Total	Build-ing	Pave-ment	Green	Dry Reten-tion	Lake		Water Quality[1] (1/2"/day)	Water Quantity[2] (40 CSM)	Tributary Quantity[3]
South C-11	29.99	8.73	11.22	6.44	2.18	1.42	20.53	0.63	1.87	13.04
South	178.57	40.88	54.90	46.75	11.86	24.18	188.95	3.75	11.16	
Total:	**208.56**	49.61	66.12	53.19	14.04	25.60	**209.48**			
Total post-development storage below 6.50' NGVD :							**209.48**			

COMBINED NORTH AND SOUTH TOC BASINS TRIBUTARY TO THE C-11 POST DEVELOPMENT										
Basin ID	SITE AREAS (acres)						Flood Encroach-ment Vol @ EL. 6.50' NGVD	Maximum Discharge (cfs)		
	Total	Build-ing	Pave-ment	Green	Dry Reten-tion	Lake		Water Quality[1] (1/2"/day)	Water Quantity[2] (40 CSM)	Tributary Quantity[3]
North C-11 Basins	502.67	115.00	177.74	118.54	47.06	44.33	531.28	10.56	31.42	33.72
South C-11 Basins	208.56	49.61	66.12	53.19	14.04	25.60	209.48	4.38	13.04	13.04
Total:	**711.23**	164.61	243.86	171.73	61.10	69.93	**740.76**			
Total post-development storage below 6.50' NGVD :							**740.76**			

Total Open Areas (Lake and Dry Retention) = 131.0 Acres

1. Water quality discharge rate is based on 1/2" per day.
2. FDOT discharges into the TOC. The modeled FDOT drainage calculations indicate a discharge of 2.3 cfs into the Northend Basin from runoff generated from the Southwest Interestion of I-595 & S.R. 7.
3. The allowable discharge from the North C-11 basin consists of upstream tributary areas including NorthEnd, NorthEast, FDOT I-595/S.R.7 & North C-11.