

South Florida Water Management District Study Specific Survey
for the
St. Lucie Estuary and Indian River Lagoon
Groundwater/Surface Water Interaction Study
Survey Compilation Date: July 23, 2003

Created for

Cynthia Gefvert
561-682-923
cgefvert@sfwmd.gov

Steve Krupa
561-682-6923
skrupa@sfwmd.gov

Additional Maps and Plates added by Steve Krupa

South Florida Water Management District
Hydrogeology Group
3301 Gun Club Road
West Palm Beach, Florida 33406

Important Note on Drawings Scales

Survey Work is Plotted
12 inches by 18 inches

If you would like the plots larger you must scale them.

Divider pages are 8.5 inches by 11 inches

Generalized Site Map of Station Names and Survey Locations

St. Lucie Estuary and Indian River Lagoon



Steve Krupa/Cynthia Gefvert
2/22/2005

Cover Sheet of Survey



SURVEYOR'S NOTES

- THE ELEVATIONS SHOWN HEREON REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, (NGVD29) AND ARE BASED ON THE FOLLOWING BENCHMARK.
 - BENCHMARK "C-401" IS STAINLESS STEEL ROAD WITH OUT SLEEVE, TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 1 AND SAVANNAH ROAD, 31.0 M (101.7 FT) EAST OF AND LEVEL WITH THE CENTERLINE OF THE NORTHBOUND LANES OF THE HIGHWAY, 18.6 M (61.0 FT) WEST OF THE SOUTH END OF A CULVERT HEADWALL, 16.6 M (54.5 FT) SOUTH OF THE ROAD CENTERLINE, AND 0.8 M (2.6 FT) WEST OF A UTILITY POLE NUMBER 565. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP. STAMPED "C 401 1991" ELEVATION = 18.04'
 - BENCHMARK "B.M.", STATION IS A S.F.W.M.D. BRASS DISC SET ON THE SOUTHERLY SEOL AT THE SNUG HARBOR YACHT BASIN. STATION IS STAMPED "S.F.W.M.D. MARKER SURVEY" ELEVATION = 3.38'
 - BENCHMARK "M.C. BENCHMARK", STATION IS A PK NAIL WITH A BLUE TIN TAB, TO REACH FROM THE INTERSECTION OF MARTIN DOWNS BOULEVARD (STATE ROAD 714) AND MAPP ROAD, GO NORTH ON MAPP ROAD 0.8 MILE TO THE INTERSECTION OF CHAPMAN WAY. THEN GO EAST, NORTHEAST ON CHAPMAN WAY 0.6 MILE TO THE BOAT RAMP IN PENDARVIS PARK. STATION IS LOCATED ON THE NORTHERLY SIDE OF THE SIDEWALK THAT GOES TO THE WOOD DOCK AT THE BOAT RAMP. STATION IS STAMPED "M.C. BENCHMARK" ELEVATION = 3.74'
 - BENCHMARK "TIDAL 5" STATION IS DISK SET FLUSH IN CONCRETE DOCK OF THE ST. LUCIE HILTON COUNTRY CLUB MARINA, 51.2 FEET EAST OF THE NORTHEAST CORNER OF THE DOCK, 9.5 FEET NORTH OF THE SOUTH EDGE OF THE DOCK, AND 0.4 FOOT SOUTH OF THE NORTH EDGE OF THE DOCK. STATION STAMPED "NO 5 1972" ELEVATION = 4.05'
- THE BEARINGS AND DISTANCE REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM TRANSVERSE MERCATOR PROJECTION, EAST ZONE, NORTH AMERICA DATUM 1983 (NAD83), AND ARE BASED ON SOUTH FLORIDA WATER MANAGEMENT GPS CONTROL POINTS ESTABLISHED FOR EACH INDIVIDUAL SITE USING THE TRIMBLE PATHFINDER PRO-XR REAL TIME GPS UNIT, THE EXPECTED HORIZONTAL ACCURACY IS (±) 5.0 FEET. CAUTION SHOULD BE TAKEN IF COORDINATES ARE USED FOR ANYTHING OTHER THAN THESE SPECIFIC SITES.
- NO RIGHT OF WAY OR BOUNDARY SURVEY WAS PERFORMED AS A PART OF THIS SURVEY.
- THE PICTORIAL REPRESENTATION SHOWN HEREON IS A DIGITAL AERIAL PHOTOGRAPH OBTAINED FROM USGS NATIONAL AERIAL PHOTOGRAPHY PROJECT (NAPP), SCANNED AT 100 DOTS PER INCH; DATE 2000 AND IS NOT A PART OF THIS SURVEY.
- THERE WAS NO CLOSED TRAVERSE ESTABLISHED AS PART OF THIS SURVEY.
- THE GROUND ELEVATIONS AND LOCATIONS FOR THIS SURVEY WERE ESTABLISHED BY TRIGONOMETRIC MEANS USING THE TOPCON GTS 610 & 700 TOTAL STATIONS AND MCS DATA COLLECTOR WITH C & G FIELD AND OFFICE SOFTWARE.
- UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, THIS DRAWING, SKETCH, PLAT, OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

THIS CERTIFICATION IS MADE TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT FOR THE SPECIFIC PURPOSE OF GATHERING ELEVATIONS TO SUPPORT THE INSTALLATION OF WATER MONITORING AND GAUGING EQUIPMENT, AS REQUESTED BY STEVE KRUPA, SENIOR HYDRO GEOLOGIST WATER RESOURCE EVALUATION DEPARTMENT, SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

NO RESPONSIBILITY OR LIABILITY IS ASSUMED BY THE UNDERSIGNED SURVEYOR AND MAPPER FOR USE OF THIS SURVEY FOR ANY PURPOSE OTHER THAN STATED ABOVE OR FOR ANY USE BY ANY PERSON OR ENTITY OTHER THAN THE SOUTH FLORIDA MANAGEMENT DISTRICT.

CERTIFICATION

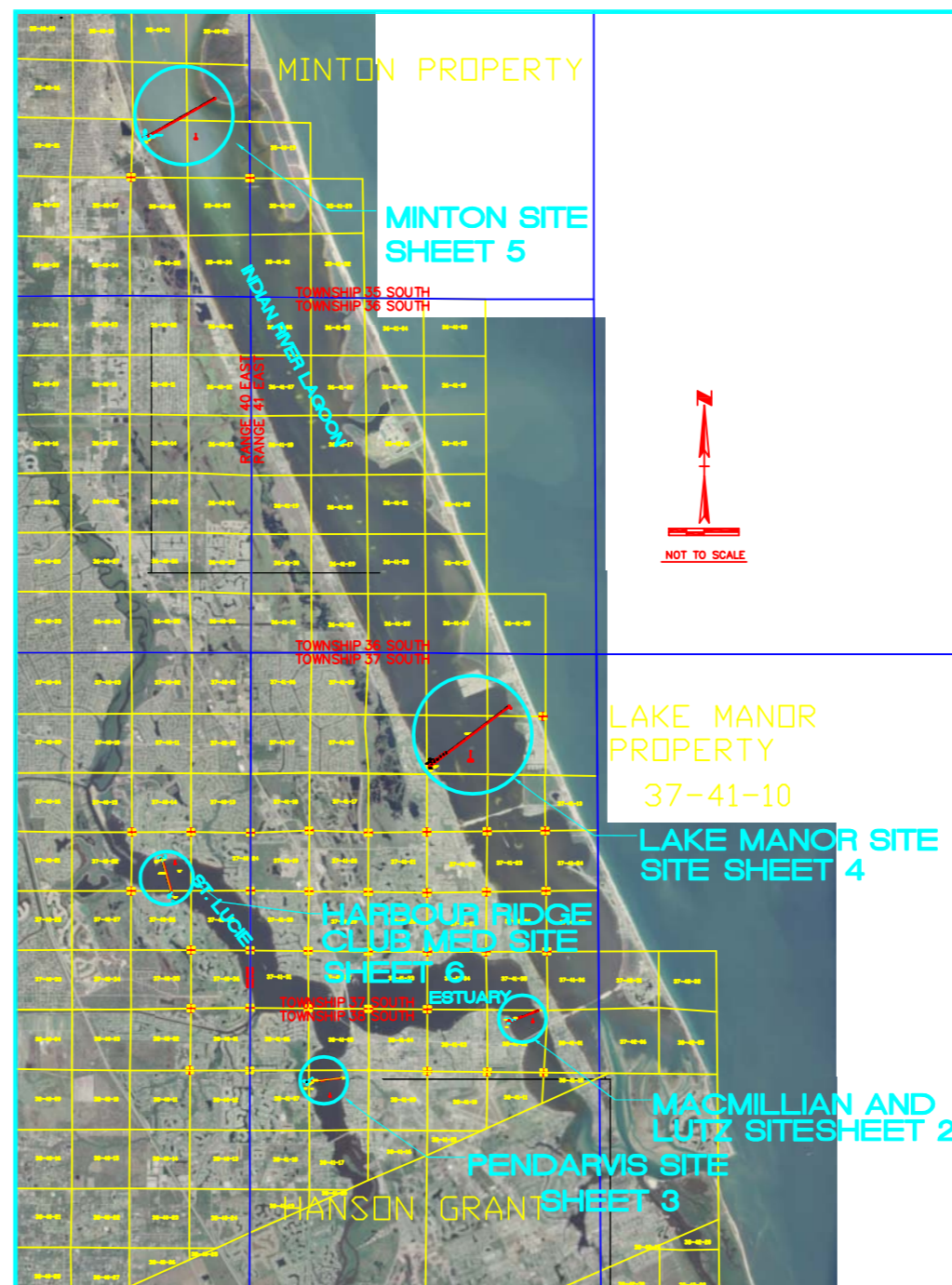
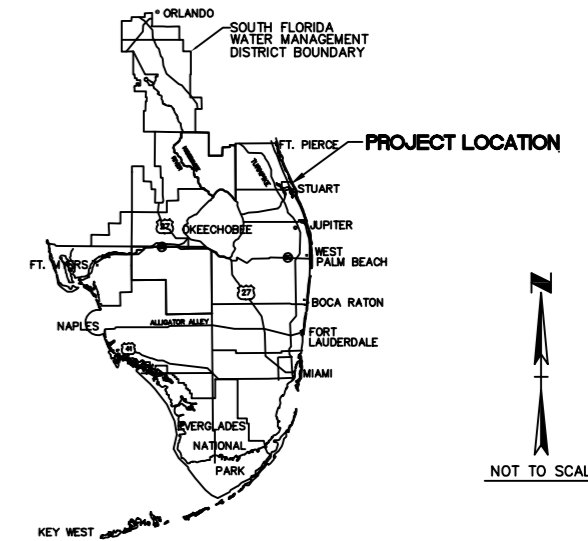
I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE APPLICABLE MINIMUM TECHNICAL STANDARDS FOR SURVEYS AS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATE STATUES

RICHARD E. BARNES Jr.
PROFESSIONAL LAND SURVEYOR
FLORIDA CERTIFICATION NUMBER 5173

INDEX OF SHEETS

- COVER SHEET AND LOCATION MAP
- 6. PLAN VIEW
- 8. CROSS SECTIONS

SOUTH FLORIDA WATER MANAGEMENT DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT SURVEY SECTION SPECIFIC PURPOSE SURVEY ST. LUCIE STUDY WELLS



LEGEND

- DIA. = DIAMETER
- BM = BENCHMARK
- CMP = CORRUGATED METAL PIPE
- ELEV. = ELEVATION
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- = ENCODER

SOUTH FLORIDA WATER MANAGEMENT DISTRICT 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680		SPECIFIC PURPOSE SURVEY STUDY WELLS AND CROSS SECTIONS COVER SHEET	DRAWING NO. 0000 CAD FILE NO. 0000.dwg SHEET	1 of 8	S:\proj\stlucie_river\INDIANRIVER.dwg\YS.dwg 10/2/2003 2:16:53 PM EDT
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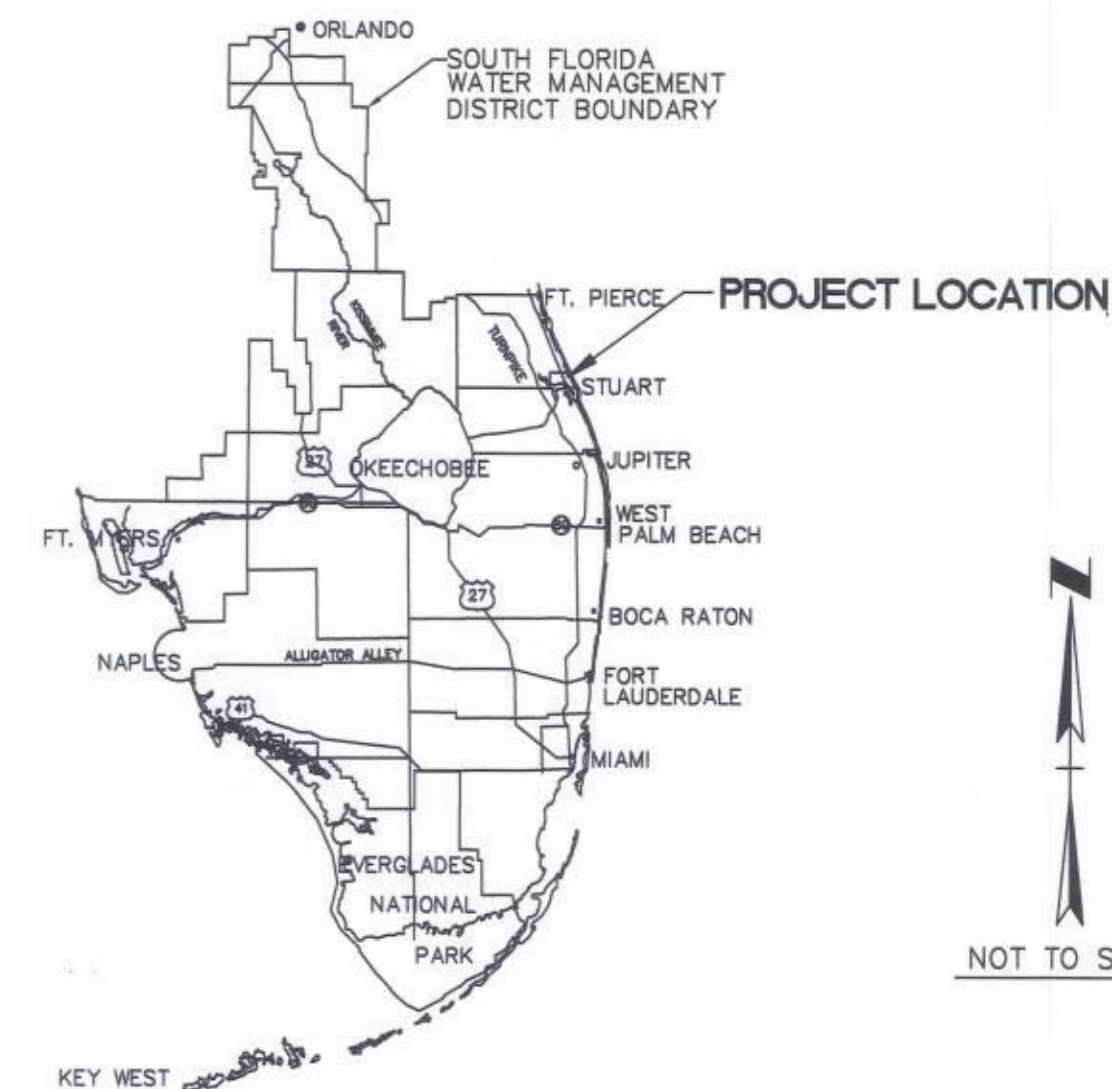
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

ENGINEERING AND CONSTRUCTION DEPARTMENT

SURVEY SECTION

SPECIFIC PURPOSE SURVEY

ST. LUCIE STUDY WELLS



SURVEYOR'S NOTES

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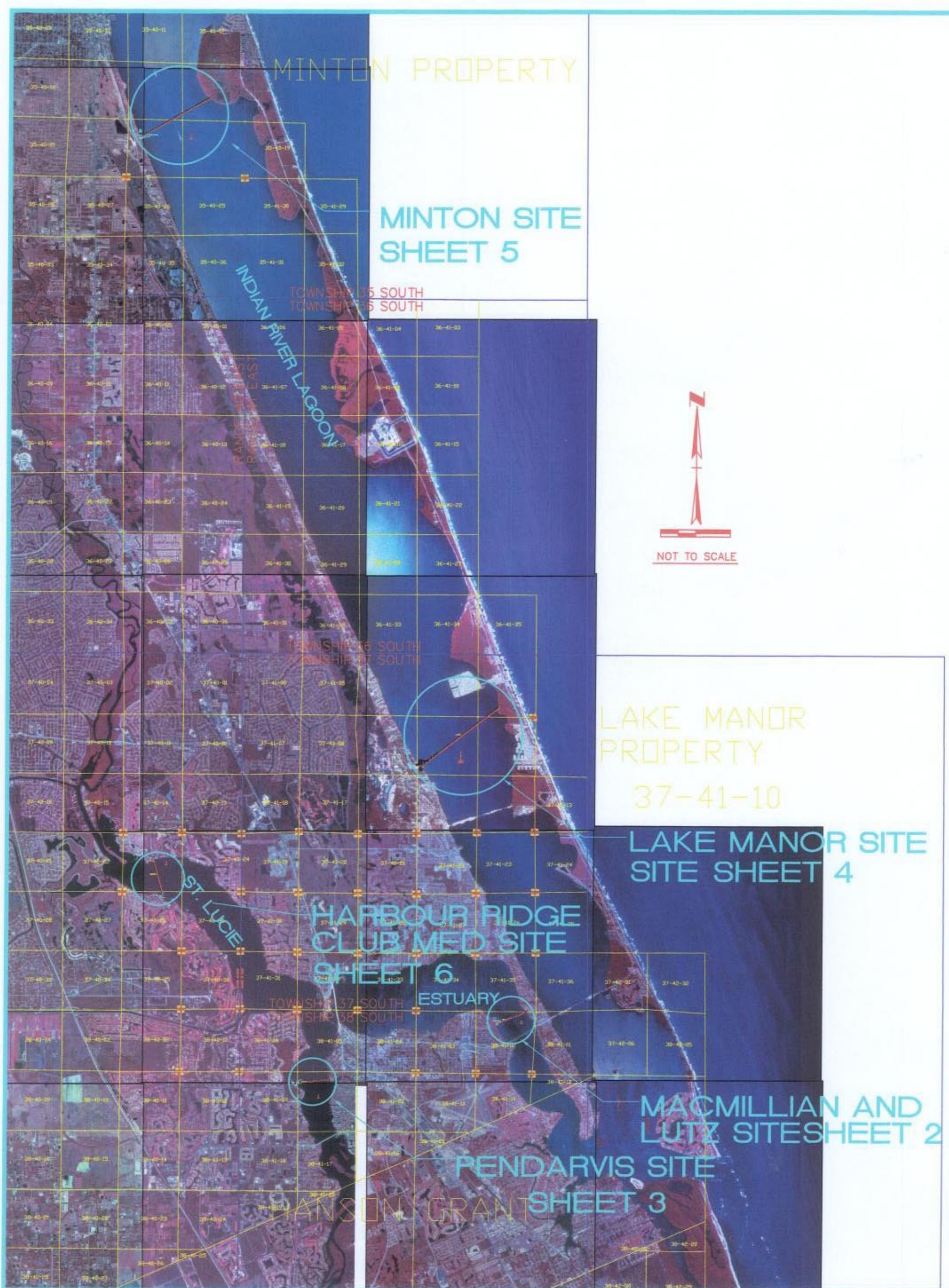
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INDEX OF SHEETS

1. COVER SHEET AND LOCATION MAP
2. - 6. PLAN VIEW
7. - 8. CROSS SECTIONS

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SCALE AS SHOWN DATE: 23 JUL 03
FIELD BOOK(S): ST. LUCIE WELLS
FB #38 PAGES 22 - 49 &
FB #39 PAGES 1 - 2

SOUTH FLORIDA
WATER MANAGEMENT DISTRICT
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680



SPECIFIC PURPOSE SURVEY
STUDY WELLS AND CROSS
SECTIONS
COVER SHEET

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SHEET

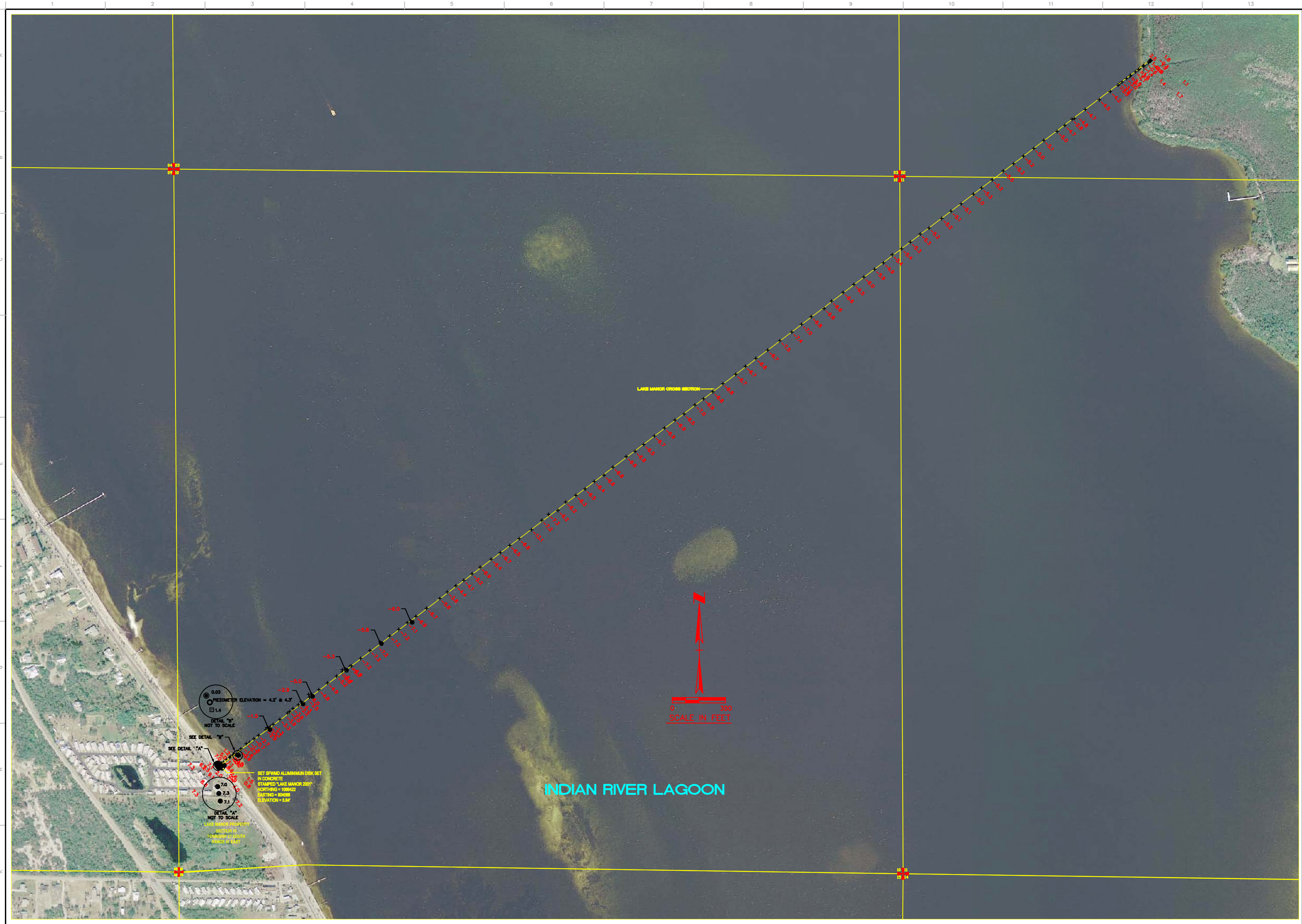
Surveying Transect for
Club Med (North Side) to Harbour Ridge (South Side)

Surveying Transect for
Pendarvis Park (West Side) to West Side of Stuart (East Side of Transect)

Surveying Transect for
MacMillian/Lutz (West Side) to Sewall's Point (East Side of Transect)

Surveying Transect for
Lake Manor (West Side) to Hutchinson Island (East Side of Transect)

Surveying Transect for
Minton (West Side) to Hutchinson Island (East Side of Transect)



0.03
PIEZOMETER ELEVATION = 4.2' & 4.3'
1.4
DETAIL "B"
NOT TO SCALE

SEE DETAIL "B"

SEE DETAIL "A"

7.0
7.3
7.1
DETAIL "A"
NOT TO SCALE

LAKE MANOR PROPERTY
SECTION 14
TOWNSHIP 11 S RANGE 31 W
WEEKS IN 2001

SET SPWMD ALLIUMMAN DIRK SET
IN CONCRETE
STAMPED LAKE MANOR 2001
NORTHING = 1029422
EASTING = 804986
ELEVATION = 5.84'

INDIAN RIVER LAGOON

LAKE MANOR CROSS SECTION



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SCALE AS SHOWN DATE 23 JUL 03			
FIELD BOOK(S) ST. LUCIE WELLS			
FB #38 PAGES 22 - 48			
FB #39 PAGES 1 - 2			
DATE DRAWN	REV #	DATE	REVISION DESCRIPTION
10/3/2003			

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SOUTH FLORIDA WATER MANAGEMENT DISTRICT
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680

SPECIFIC PURPOSE SURVEY STUDY WELLS AND CROSS SECTIONS
LAKE MANOR PROPERTY

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CAD FILE NO. 0000.dwg
SHEET 4 OF 8

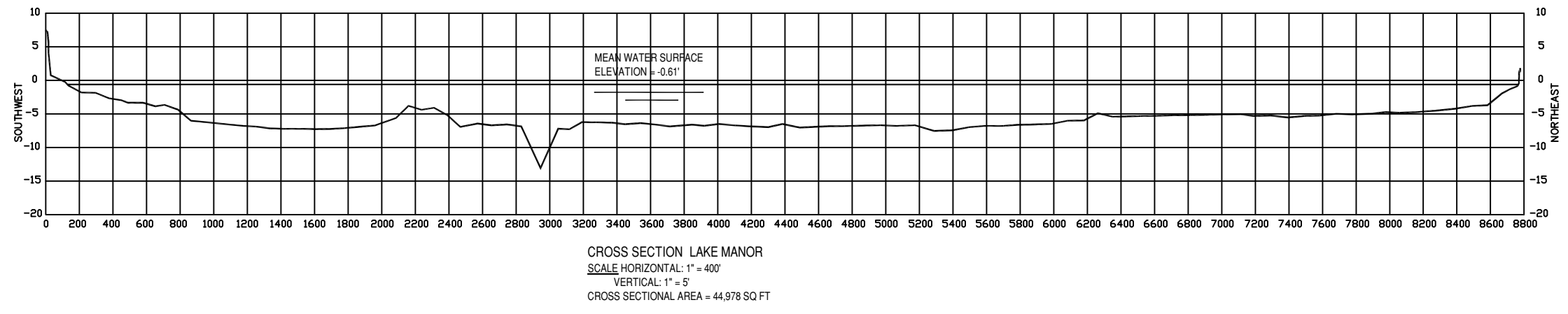
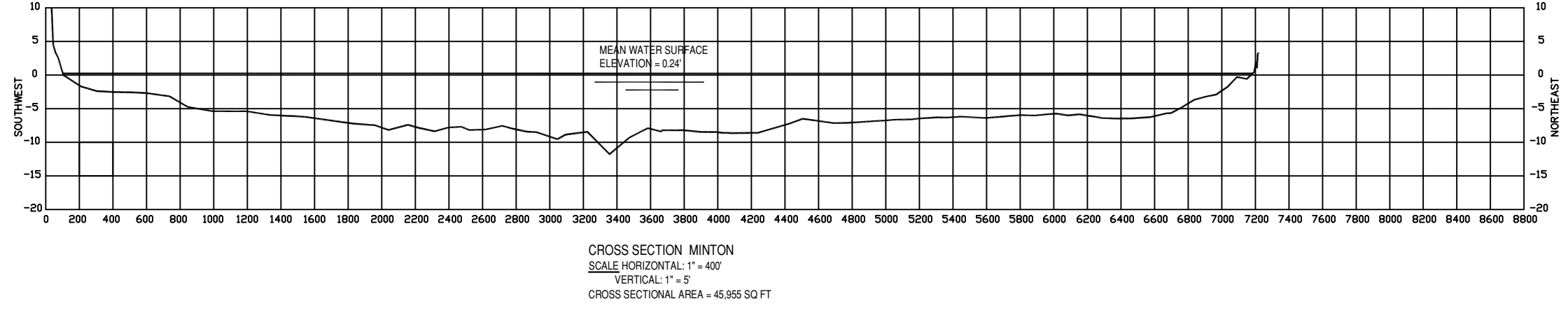
PLOT SCALE: 1" = 1" (PAPER SPACE)

Cross Sections from Survey Transects for
St. Lucie Estuary Sites

Harbour Ridge to Club Med
Pendarvis Park
MacMillian/Lutz

Cross Sections from Survey Transects for
Indian River Lagoon Sites

Minton
Lake Manor



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 FIELD BOOK(S): ST. LUCIE WELLS
 FIELD #38 PAGES 22 - 42
 DITCHES: MINTON CGR - 42
 LAKE MANOR CGR & LAKE MANOR CGR

SOUTH FLORIDA
WATER MANAGEMENT DISTRICT
 3301 GUN CLUB ROAD
 WEST PALM BEACH, FL 33416-4680

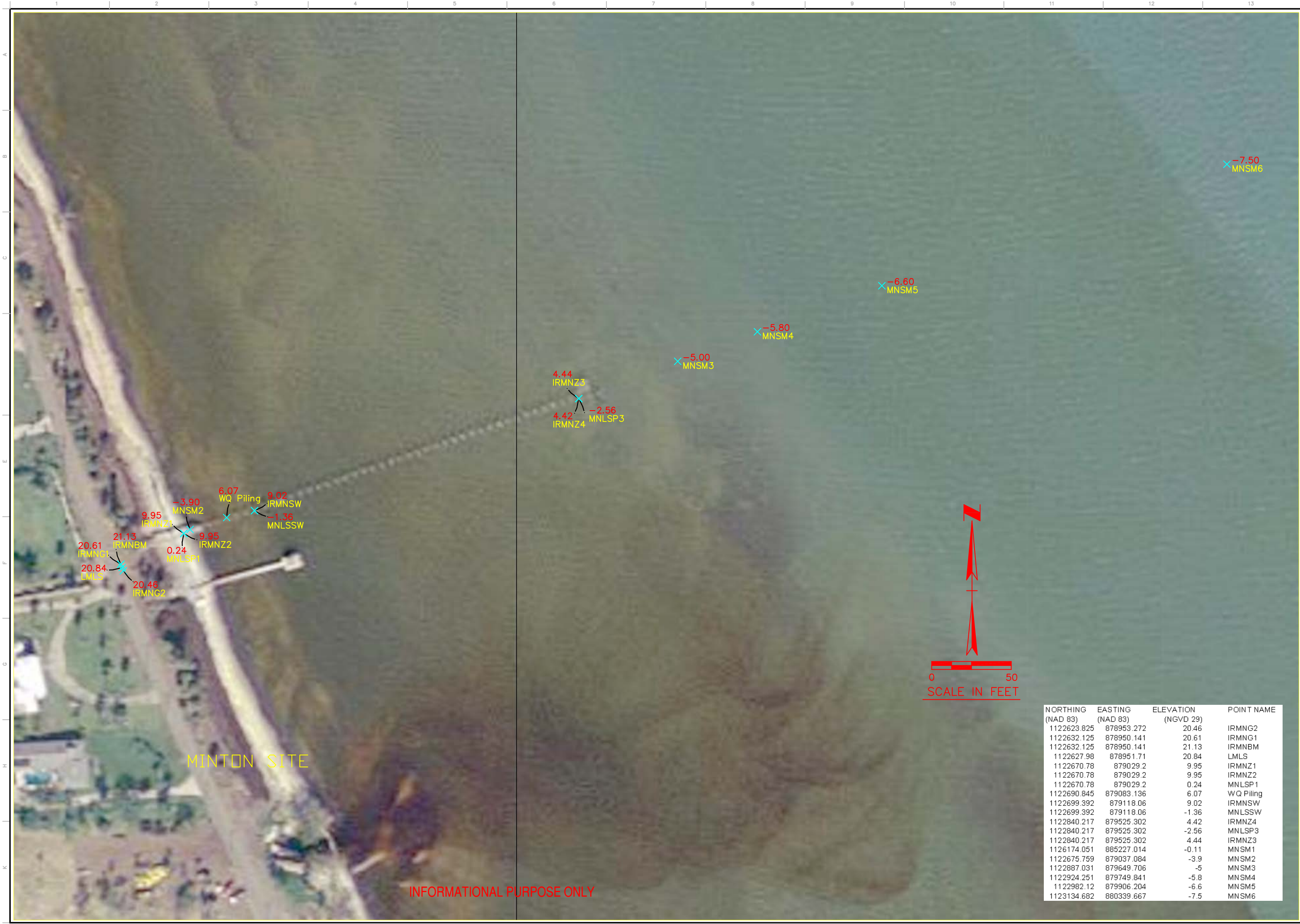


SPECIFIC PURPOSE SURVEY
 STUDY WELLS AND CROSS
 SECTIONS
 COVER SHEET

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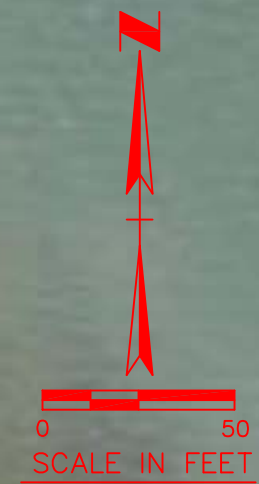
Surveyed Locations of All Groundwater Wells, Offshore Piezometers, Surface
Water Encoders, Water Quality Sites and Belanger Seepage Meters

Minton Site




MINTON SITE

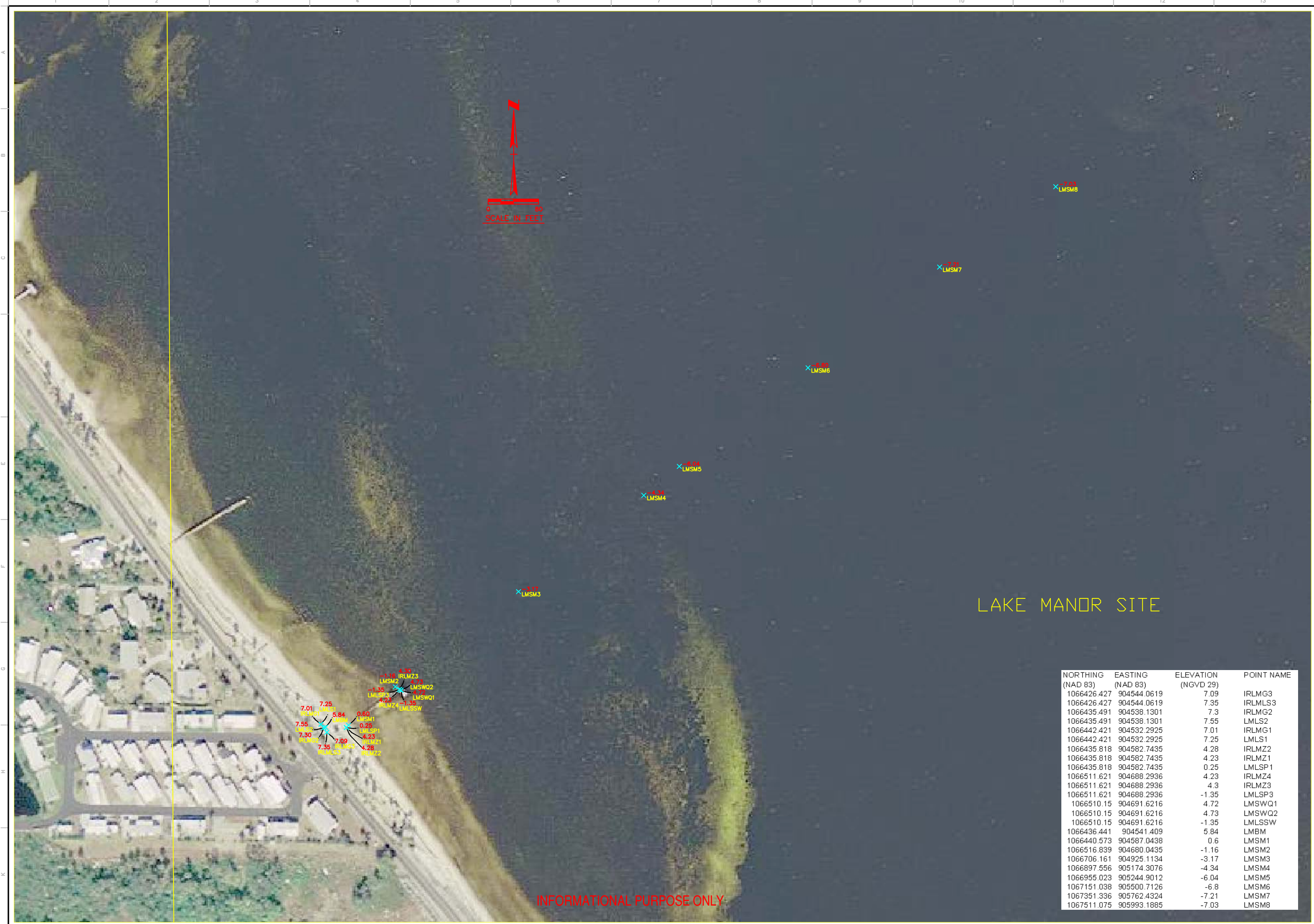
INFORMATIONAL PURPOSE ONLY



NORTHING (NAD 83)	EASTING (NAD 83)	ELEVATION (NGVD 29)	POINT NAME
1122623.825	878953.272	20.46	IRMNG2
1122632.125	878950.141	20.61	IRMNG1
1122632.125	878950.141	21.13	IRMNB1
1122627.98	878951.71	20.84	LMLS
1122670.78	879029.2	9.95	IRMNZ1
1122670.78	879029.2	9.95	IRMNZ2
1122670.78	879029.2	0.24	MNLS1
1122690.845	879083.136	6.07	WQ Piling
1122699.392	879118.06	9.02	IRMNSW
1122699.392	879118.06	-1.36	MNLSW
1122840.217	879525.302	4.42	IRMNZ4
1122840.217	879525.302	-2.56	MNLS3
1122840.217	879525.302	4.44	IRMNZ3
1126174.051	885227.014	-0.11	MNSM1
1122675.759	879037.084	-3.9	MNSM2
1122887.031	879649.706	-5	MNSM3
1122924.251	879749.841	-5.8	MNSM4
1122982.12	879906.204	-6.6	MNSM5
1123134.682	880339.667	-7.5	MNSM6

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			MINTON SITE
DRAWING NO. 0000 CAD FILE NO. 0000.dwg SHEET 4 OF 5			REVISION DESCRIPTION S:\pro\st\lucie_river\WELLS\NAME.DWG\WELLS.dwg 12/4/03 12:49:49 PM EDT

Lake Manor Site



LAKE MANOR SITE

NORTHING (NAD 83)	EASTING (NAD 83)	ELEVATION (NGVD 29)	POINT NAME
1066426.427	904544.0619	7.09	IRLMG3
1066426.427	904544.0619	7.35	IRLMLS3
1066435.491	904538.1301	7.3	IRLMG2
1066435.491	904538.1301	7.55	LMLS2
1066442.421	904532.2925	7.01	IRLMG1
1066442.421	904532.2925	7.25	LMLS1
1066435.818	904582.7435	4.28	IRLMZ2
1066435.818	904582.7435	4.23	IRLMZ1
1066435.818	904582.7435	0.25	LMLSP1
1066511.621	904688.2936	4.23	IRLMZ4
1066511.621	904688.2936	4.3	IRLMZ3
1066511.621	904688.2936	-1.35	LMLSP3
1066510.15	904691.6216	4.72	LMSWQ1
1066510.15	904691.6216	4.73	LMSWQ2
1066510.15	904691.6216	-1.35	LMLSSW
1066436.441	904541.409	5.84	LMBM
1066440.573	904587.0438	0.6	LMSM1
1066516.839	904680.0435	-1.16	LMSM2
1066706.161	904925.1134	-3.17	LMSM3
1066897.556	905174.3076	-4.34	LMSM4
1066955.023	905244.9012	-6.04	LMSM5
1067151.038	905500.7126	-6.8	LMSM6
1067351.336	905762.4324	-7.21	LMSM7
1067511.075	905993.1865	-7.03	LMSM8

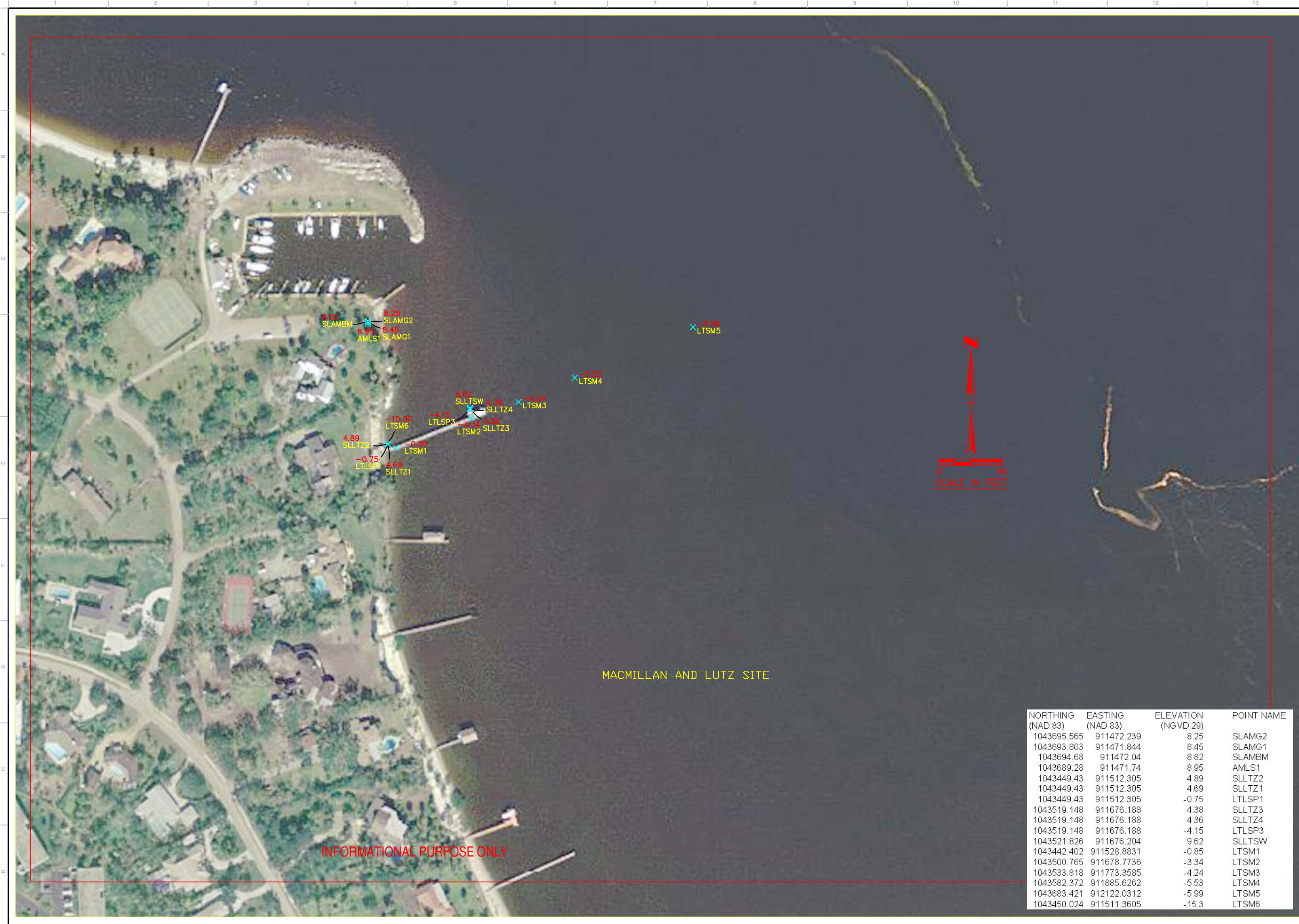
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<p>SOUTH FLORIDA WATER MANAGEMENT DISTRICT 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680</p>				
<p>LAKE MANOR SITE</p>				
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3 OF 5			DATE: 12/4/94	

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PLOT SCALE: 1" = 1" (PAPER SPACE)

MacMillian/Lutz Site



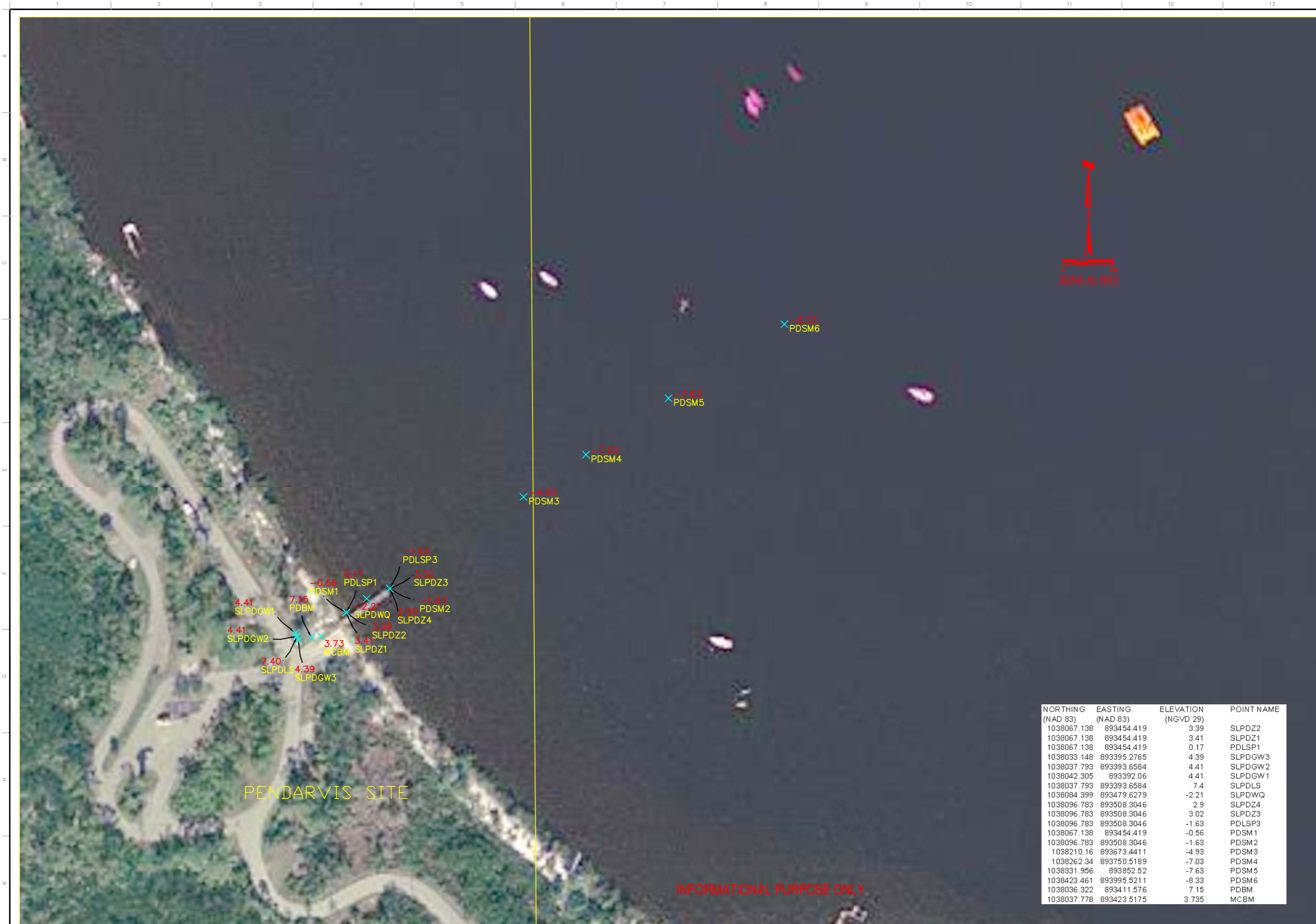
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MACMILLAN AND LUTZ SITE

NORTHING (NAD 83)	EASTING (NAD 83)	ELEVATION (NGVD 29)	POINT NAME
1043695.565	911472.239	8.25	SLAMG2
1043693.803	911471.844	8.45	SLAMG1
1043694.68	911472.04	8.82	SLAMB1
1043689.28	911471.74	8.95	AMLS1
1043449.43	911512.305	4.89	SLLTZ2
1043449.43	911512.305	4.69	SLLTZ1
1043449.43	911512.305	-0.75	LTLSP1
1043519.148	911676.188	4.38	SLLTZ3
1043519.148	911676.188	4.36	SLLTZ4
1043519.148	911676.188	-4.15	LTLSP3
1043521.826	911676.204	9.62	SLLTSW
1043442.402	911528.8831	-0.85	LTSM1
1043500.765	911678.7736	-3.34	LTSM2
1043533.818	911773.3585	-4.24	LTSM3
1043582.372	911885.6262	-5.53	LTSM4
1043683.421	912122.0312	-5.99	LTSM5
1043450.024	911511.3605	-15.3	LTSM6

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MACMILLAN AND LUTZ SITE			
DRAWING NO. 0000 CAD FILE NO. 0000.dwg SHEET 1 OF 5			

Pendarvis Park Site



4.41 SLPDGW1
 4.41 SLPDGW2
 7.40 SLPDLS
 4.39 SLPDGW3
 7.15 PDBM
 -0.66 PDSM1
 0.17 PDLSP1
 -2.21 SLPDWQ
 3.73 MCBM
 3.4 SLPDZ1
 3.73 SLPDZ2
 2.99 SLPDZ4
 -1.63 PDLSP3
 -1.63 SLPDZ3
 -1.63 SLPDZ4

-4.93 PDSM3
 -7.03 PDSM4
 -7.63 PDSM5

-8.33 PDSM6

NORTHING (NAD 83)	EASTING (NAD 83)	ELEVATION (NGVD 29)	POINT NAME
1038067.138	893454.419	3.39	SLPDZ2
1038067.138	893454.419	3.41	SLPDZ1
1038067.138	893454.419	0.17	PDLSP1
1038033.148	893395.2765	4.39	SLPDGW3
1038037.793	893393.6584	4.41	SLPDGW2
1038042.305	893392.06	4.41	SLPDGW1
1038037.793	893393.6584	7.4	SLPDLS
1038084.399	893479.6279	-2.21	SLPDWQ
1038096.783	893508.3046	2.9	SLPDZ4
1038096.783	893508.3046	3.02	SLPDZ3
1038096.783	893508.3046	-1.63	PDLSP3
1038067.138	893454.419	-0.66	PDSM1
1038096.783	893508.3046	-1.63	PDSM2
1038210.16	893673.4411	-4.93	PDSM3
1038262.34	893750.5189	-7.03	PDSM4
1038331.956	893852.52	-7.63	PDSM5
1038423.461	893995.5211	-8.33	PDSM6
1038036.322	893411.576	7.15	PDBM
1038037.778	893423.5175	3.735	MCBM

DRAWN: _____ CHECKED: _____ SCALE AS SHOWN: DATE 23 JUL 03 FIELD BOOK(S): _____ DATACOLL: _____	DATE: _____ DRAWN: _____ REV.#: _____ REVISION DESCRIPTION: _____	SOUTH FLORIDA WATER MANAGEMENT DISTRICT 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680
		PENDARVIS SITE
DRAWING NO. 0000 CAD FILE NO. 0000.dwg SHEET 2 OF 5		S:\pro\stlucie_river\WELLS\NAME1.dwg\WELLS.dwg 12:49:49 PM EDT

Club Med and Harbour Ridge Sites



NORTHING (NAD 83)	EASTING (NAD 83)	ELEVATION (NGVD 29)	PONT NAME
1054249.321	881512.891	13.51	SLHRBM
1054245.988	881512.502	13.42	SLHRG1
1055000.93	881382.499	13.63	SLHRLS
1054243.462	881519.084	13.61	SLHRG2
1055005.897	881377.444	4.97	SLHRSW
1057852.364	880566.8885	5.66	HRDOCK
1055002.927	881376.5658	-7.11	HLSP3
1054700.697	881342.2407	1.73	SLHRZ2
1054700.697	881342.2407	1.73	SLHRZ1
1054700.697	881342.2407	-1.65	SLHRLS2
1055003.976	881377.7033	4.96	SLHRZ4
1055003.976	881377.7033	4.97	SLHRZ3
1055003.976	881377.7033	-7.11	SLHRLS3
1058052.579	880460.4501	4.56	SLCMG1
1058048.744	880457.4229	4.63	SLCMG2
1058044.873	880454.7083	4.66	SLCMG3
1058048.362	880456.3213	5.17	SLCMBM
1058048.362	880457.3213	4.97	SLCMLS1
1057851.01	880566.8885	9.62	SLCMSW
1057851.01	880566.8885	-0.58	SLCMLS2
1058024.878	880526.207	2.3	SLCMZ2
1058024.878	880526.207	2.36	SLCMZ1
1058024.878	880526.207	-1.42	SLCMLS3
1057850.878	880567.4238	4.34	SLCMZ4
1057850.892	880567.7619	5.33	SLCMZ3
1057850.892	880567.7619	-1.42	SLCMLS4
1054700.697	881342.2407	-1.65	HRCMSM1
1055002.927	881376.5658	-7.11	HRCMSM2
1055235.066	881308.8452	-9.9099	HRCMSM3
1055539.082	881219.2512	-9.9918	HRCMSM4
0	0	0	HRCMSM5
1056626.203	880909.7856	-8.0007	HRCMSM6
1057075.3	880793.6618	-8.3038	HRCMSM7
1057268.57	880739.0886	-6.7238	HRCMSM8
1057557.68	880655.9108	-4.0222	HRCMSM9
1057802.894	880585.8818	-2.4898	HRCMSM10
1057857.813	880566.575	-0.02	HRCMSM11

INFORMATIONAL PURPOSE ONLY

<p>SOUTH FLORIDA WATER MANAGEMENT DISTRICT 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680</p> <p>HARBOUR RIDGE/CLUB MED SITE</p> <p>DRAWING NO. 0000 CAD FILE NO. 0000.dwg SHEET 5 OF 5</p>	<p>DRAWN: DMW CHECKED: [] SCALE AS SHOWN DATE: 23 JUL 03 FIELD BOOK(S): [] DATE: 28 FEB 04 REV.# []</p> <p>MOVED WELLS G1 AND G2</p> <p style="font-size: small;">S:\proj\stlucile_river\WELLS\NAME1.dwg WELLS.dwg 10/6/2003 12:49:49 PM EDT</p>
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