
Surveyor's Report

Specific Purpose Survey L-8 Reservoir Project

SFWMD Work Order Number: 4600003709

Contractors Project No. 07050.33-01

Report Date: August 12, 2018
(updated September 28, 2018)

Submittal: Final

Prepared for:

**South Florida Water Management
District**

301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
Ph. (954) 788-3400
Fax (954) 788-3500
Licensed Business (L.B.) 6860

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OVERVIEW OF THE PROJECT

PURPOSE

The South Florida Water Management District’s (District) L-8 Reservoir Project is an in-ground storage reservoir converted rock mine in Western Palm Beach County. This in-ground water storage reservoir will be able to capture excess water in the wet season to improve year-round flows to the Grassy Waters Preserve, the Loxahatchee Slough, and the Loxahatchee River. This reservoir adds capacity to help manage regional water supply through seasonal fluctuations and improve the hydroperiods of regionally significant wetland systems. The site falls within a wildlife corridor that is being established to connect the J.W. Corbett Wildlife Management Area to the north with the storm-water treatment areas and National Wildlife Refuge to the south.

Current ground water levels are being monitored by forty-four (44) monitoring wells at 17 sites around the reservoir site.

The objectives of this work order are:

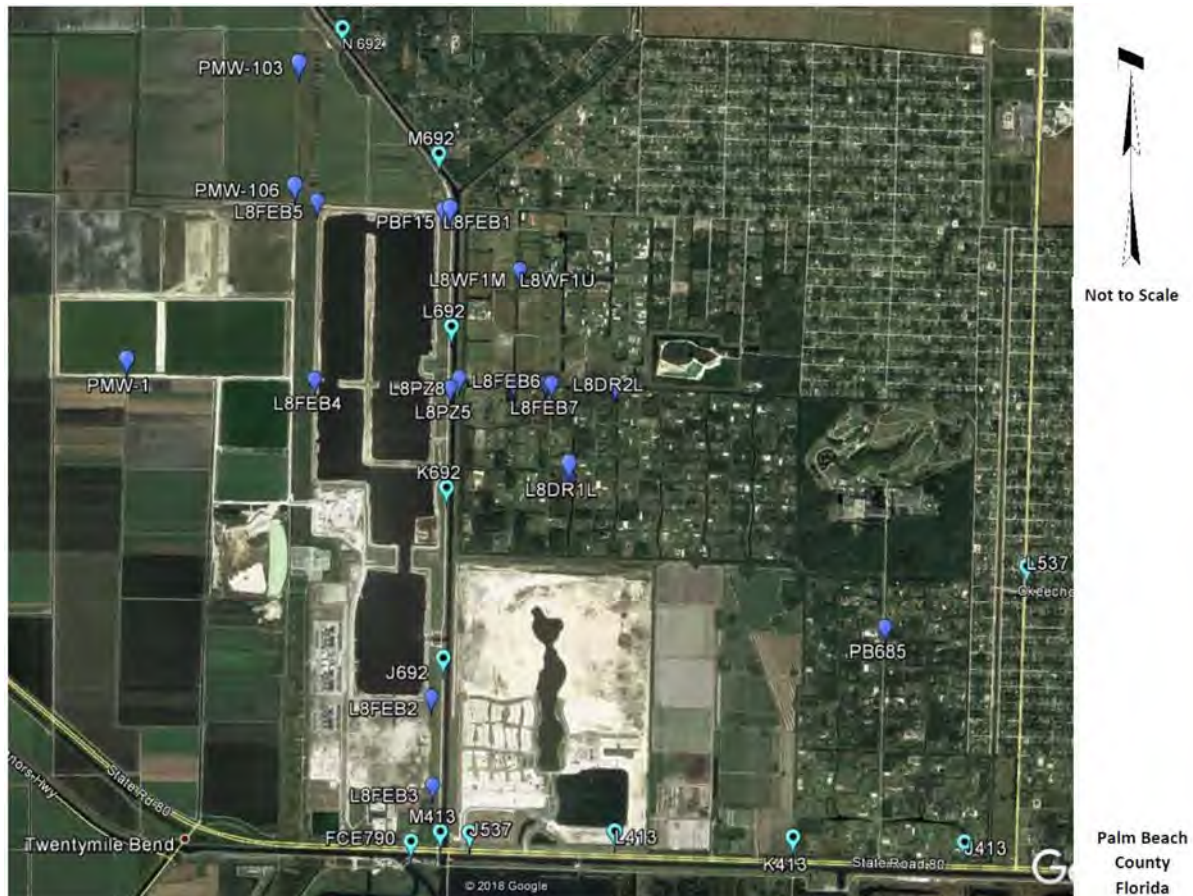
- Run a level line(s) from the National Geodetic Survey level lines along State Road 80 and along SFWMD’s Levee 8, that connects all the forty-four (44) wells and their associated benchmarks.
- Establish new elevations at each of the forty-four (44) wells reference points and their associated benchmarks
- Prepare a chart showing the comparison of the new elevation values to the current elevation values at each well and benchmark.
- Take pictures of each of the well reference point and associated benchmarks.

- Prepare a Surveyor's Report in accordance with Florida's Standards of Practice (SOP) and District requirements as specified in the work breakdown of this Statement of Work.

The services listed in this report were performed under the direction of a Professional Surveyor and Mapper (PSM) licensed in the State of Florida, in accordance with Chapter 472 of the Florida Statutes and 5J-17 of the Florida Administrative Code (FAC).

LOCATION OF PROJECT

The project is located in Palm Beach County near Twentymile Bend north of State Road 80 and west of Seminole Pratt Whitney Road.



ITEMS DELIVERED TO THE DISTRICT

The following items were delivered to the District with this report.

Two signed and sealed paper copies of the surveyor's report.

Two CD's/DVD's containing the following:

- The survey report in Microsoft Word format.
- The survey report in PDF format with electronic signature.
- Digital photos.
- Scanned copies of field notes.
- Any other digital files associated with the survey.
- Completed District benchmark description sheet for all set marks.
- Completed Excel benchmark spread sheet

VERTICAL DATUM FOR THE PROJECT

The vertical datum for the project is the North American Vertical Datum of 1988. The horizontal and vertical units for all measurements are in U.S. survey feet unless otherwise stated.

LEVELING METHODS

CONFIGURATION OF LEVEL RUN

Third-Order leveling procedures were used to establish elevations on the L-8 Reservoir benchmarks.

Level loops were ran between the following NGS Benchmarks:

- J 692 to M 413
 - L8FEB2
 - L8FEB3
- K 692 to L 692
 - L8FEB6
 - L8DR1
 - L8DR2
 - L8WF1
- M 692 to L 692
 - L8FEB1
 - L8RES6
 - L8FEB4
 - PBF15 (site removed from scope, but was on path of level loop)
- L 692 to N 692
 - PMW1
 - PMW106
 - PMW 103
- J 413 to K 413
 - PB685

The SFWMD maximum allowable misclosure for this type of run is 0.02' multiplied by the square root of the length of the level line in miles. All level runs closed less than the allowable misclosure.

EQUIPMENT USED

All leveling during the project was performed with a Wild (Leica) NA2 conventional level (Leica Art. No. 352036) and a three-section, fiberglass level rod.

GPS METHODS

A GPS horizontal value for the site benchmarks was required as part of this contract. The benchmarks were occupied for a minimum of 180 epochs with redundant, Real-Time Kinematic GPS receiving Florida Permanent Reference Network (FPRN) corrections to obtain sub-meter accuracy. All horizontal coordinates are referenced to the North American Vertical Datum of 1983 with the 2011 adjustment (NAD83/11).

The following instrumentation was used for the GPS observation:

- (1) Trimble R8 GPS Unit

PROJECT RESULTS

Site Names	Well Designation	Ref. El. (NAVD88) 2014	Report Jan-2015	2018 Tags	2018 KEITH SURVEY (NAVD 88)	KEITH Measured Diff.	Site Benchmark	Benchmark Elevation (NAVD 88)	2018 KEITH SURVEY (NAVD 88)
L8FEB1	L8FEB1L	33.94	34.30		34.28	($\Delta = -0.02'$)	L8FEB1	29.821	29.82
	L8FEB1M	33.81	34.17		34.16	($\Delta = -0.01'$)			($\Delta = -0.00'$)
	L8FEB1U	33.72	34.08		34.07	($\Delta = -0.01'$)			
L8FEB2	L8FEB2L	32.99	33.34		33.29	($\Delta = -0.05'$)	L8FEB2	28.75	28.71
	L8FEB2M	33.09	33.457		33.42	($\Delta = -0.04'$)			($\Delta = -0.04'$)
	L8FEB2U	32.77	33.13		33.10	($\Delta = -0.03'$)			
L8FEB3	L8FEB3L	36.02	36.377		36.34	($\Delta = -0.04'$)	L8FEB3	31.592	31.56
	L8FEBM	35.71	36.096		36.06	($\Delta = -0.04'$)			($\Delta = -0.03'$)
	L8FEB3U	35.75	36.11		36.06	($\Delta = -0.05'$)			
L8FEB4	L8FEB4L	18.70	19.07		19.06	($\Delta = -0.01'$)	L8FEB4	18.053	18.05
	L8FEB4M	18.70	19.08		19.06	($\Delta = -0.02'$)			($\Delta = -0.00'$)
	L8FEB4U	18.66	19.065		19.06	($\Delta = -0.01'$)			
	L8FEB5L	18.95	19.32		19.31	($\Delta = -0.01'$)	L8 RES Site	15.74	15.74
L8FEB5	L8FEB5M	18.46	18.93		18.83	($\Delta = -0.10'$)			($\Delta = 0.00'$)
	L8FEB5U	18.57	18.83		18.93	($\Delta = +0.01'$)			
L8FEB6	L8FEB6E	15.86		15.86	16.15	($\Delta = +0.29'$)	L8FEB6	16.071	16.07
	L8FEB6W	16.16		16.16	15.86	($\Delta = -0.30'$)			($\Delta = 0.00'$)
L8FEB7	L8FEB7E	14.79		14.79	14.95	($\Delta = -0.16'$)	TUNA	16.26	16.26
	L8FEB7W	14.95		14.95	14.80	($\Delta = -0.15'$)			($\Delta = 0.00'$)
PZ5	PZ5A	22.97	23.08		23.99	($\Delta = +0.91'$)	L8 Divide	15.20	BM not recovered
	PZ5B	23.06	24.02		24.03	($\Delta = +0.01'$)			
	PZ5C	23.14	24.10		24.11	($\Delta = +0.01'$)			
	PZ5D	23.02	24.21		24.21	($\Delta = -0.00'$)			
PZ8	PZ8A	26.83	27.81		27.83	($\Delta = +0.02'$)	MACKREL	23.849	BM not recovered
	PZ8B	26.71	27.71		27.73	($\Delta = +0.02'$)			
PMW-1	PMW-1-DG	14.41		14.41	14.44	($\Delta = +0.03'$)	PMW-1	11.41	10.98
	PMW-1-SG	14.67		14.67	14.76	($\Delta = +0.09'$)			($\Delta = -0.43'$)
PMW-103	PMW-103-D	20.58		20.58	20.60	($\Delta = +0.02'$)	PMW-103	17.58	BM not recovered
	PMW-103-S	20.76		20.76	20.77	($\Delta = +0.01'$)			
PMW-106	PMW-106-D	17.82		17.82	17.83	($\Delta = +0.01'$)	PMW-106	14.54	BM under 4+ ft of new fill
	PMW-106-S	17.51		17.51	17.51	($\Delta = -0.00'$)			
	L8DR1L	14.44		14.44	14.88	($\Delta = +0.44'$)	L8DR1	14.864	14.80
L8DR1	L8DR1M	14.72		14.72	14.70	($\Delta = -0.02'$)			($\Delta = -0.06'$)
	L8DR1U	14.90		14.90	14.41	($\Delta = -0.49'$)			
L8DR2	L8DR2L	15.67		15.67	15.66	($\Delta = -0.01'$)	L8DR2	16.200	16.18
	L8DR2M	16.05		16.05	16.04	($\Delta = -0.01'$)			($\Delta = -0.02'$)
	L8DR2U	16.68		16.68	16.67	($\Delta = -0.01'$)			
L8WF1	L8WF1L	16.48		16.48	16.47	($\Delta = -0.01'$)	L8WF1	17.082	17.07
	L8WF1M	16.92		16.92	16.88	($\Delta = -0.04'$)			($\Delta = -0.01'$)
	L8WF1U	16.93		16.93	16.91	($\Delta = -0.02'$)			
PB-685	PB-685				18.46	(N/A)	PB685	15.8135	BM not recovered

Comments

Party Chief: D. Ferels

Field Book: 458 Pages 67-77

Field Book: 836 Pages 1-55

BM - Benchmark

NAVD 88 - North American Vertical Datum of 1988

NGS - National Geodetic Survey

SFWMD - South Florida Water Management District

L.B. - Licensed Business

RTK – Real Time Kinematic

K&A – Keith and Associates

PSM – Professional Surveyor & Mapper

USGS – United States Geological Survey

QUAD – Quadrangle Map

PID - Permanent Identifier

Δ – Difference between Keith Survey and Record

SURVEYOR'S CERTIFICATION

I hereby certify that this Specific Purpose Survey meets applicable portions of the Standards of Practice set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

Keith and Associates, Inc.

L.B. number 6860

By:

Date of Last Fieldwork

August 7, 2018

Lee Powers, PSM

Professional Surveyor and Mapper

State of Florida

Certificate No. 6805

BM		BS	DIST	HI		FS	DIST	ELEV (FT.)	BM ELEV (FT)	DIST	DIST*ERR/FT	CORRECTION	ADJ. ELEV
	3.580												
BM1	3.210	3.210		21.257				18.047	18.047			0.000	18.047
L8FEB4	2.840												
			74.000										
	4.810					6.990							
TP1	4.560	4.560		19.137	6.680	6.680		14.577		136.000	-0.0000637	-0.0000637	14.577
	4.310				6.370								
			50.000					62.000					
	6.530				5.850								
TP2	6.395	6.395		20.042	5.490	5.490		13.647		122.000	-0.0000572	-0.0001209	13.647
	6.260				5.130								
			27.000					72.000					
	6.130				5.300								
TP3	5.370	5.370		20.282	5.130	5.130		14.912		61.000	-0.0000286	-0.0001495	14.912
	4.610				4.960								
			152.000					34.000					
	5.790				7.650								
TP4	4.880	4.880		18.642	6.520	6.520		13.762		378.000	-0.0001771	-0.0003266	13.762
	3.970				5.390								
			182.000					226.000					
	6.330				9.630								
TP5	5.165	5.165		15.112	8.695	8.695		9.947		369.000	-0.0001729	-0.0004995	9.947
	4.000				7.760								
			233.000					187.000					
	6.160				6.940								
TP6	4.855	4.855		14.187	5.780	5.780		9.332		465.000	-0.0002179	-0.0007174	9.331
	3.550				4.620								
			261.000					232.000					
	6.240				6.470								
TP7	5.010	5.010		14.052	5.145	5.145		9.042		526.000	-0.0002465	-0.0009639	9.041
	3.780				3.820								
			246.000					265.000					
	6.315				6.740								
TP8	5.075	5.075		13.622	5.505	5.505		8.547		493.000	-0.0002310	-0.0011949	8.546
	3.835				4.270								
			248.000					247.000					
	7.250				6.190								
TP9	5.935	5.935		14.592	4.965	4.965		8.657		493.000	-0.0002310	-0.0014259	8.656
	4.620				3.740								
			263.000					245.000					
	6.720				6.030								
TP10	5.450	5.450		15.332	4.710	4.710		9.882		527.000	-0.0002469	-0.0016728	9.880
	4.180				3.390								
			254.000					264.000					
	6.650				6.590								
TP11	5.380	5.380		15.382	5.330	5.330		10.002		506.000	-0.0002371	-0.0019099	10.000
	4.110				4.070								
			254.000					252.000					
	6.800				6.630								
TP12	5.540	5.540		15.562	5.360	5.360		10.022		508.000	-0.0002380	-0.0021480	10.020

	4.280				4.090								
			252.000				254.000						
	6.285				6.710								
TP13	5.035	5.035		15.137	5.460	5.460		10.102	502.000	-0.0002352	-0.0023832	10.100	
	3.785				4.210								
			250.000				250.000						
	5.860				7.510								
TP14	4.935	4.935		13.812	6.260	6.260		8.877	500.000	-0.0002343	-0.0026175	8.874	
	4.010				5.010								
			185.000				250.000						
	10.780				7.390								
TP15	10.555	10.555		17.867	6.500	6.500		7.312	363.000	-0.0001701	-0.0027876	7.309	
	10.330				5.610								
			45.000				178.000						
	6.950				7.180								
TP16	6.650	6.650		17.637	6.880	6.880		10.987	105.000	-0.0000492	-0.0028368	10.984	
PMW-1	6.350				6.580								
			60.000				60.000						
	7.610				10.530								
TP17	6.375	6.375		13.702	10.310	10.310		7.327	104.000	-0.0000487	-0.0028855	7.324	
	5.140				10.090								
			247.000				44.000						
	6.980				5.570								
TP18	5.710	5.710		15.092	4.320	4.320		9.382	497.000	-0.0002329	-0.0031184	9.379	
	4.440				3.070								
			254.000				250.000						
	6.140				6.145								
TP19	4.855	4.855		15.082	4.865	4.865		10.227	510.000	-0.0002390	-0.0033574	10.224	
	3.570				3.585								
			257.000				256.000						
	5.770				5.950								
TP20	4.550	4.550		14.962	4.670	4.670		10.412	513.000	-0.0002404	-0.0035978	10.408	
	3.330				3.390								
			244.000				256.000						
	5.805				5.940								
TP21	4.595	4.595		14.827	4.730	4.730		10.232	486.000	-0.0002277	-0.0038255	10.228	
	3.385				3.520								
			242.000				242.000						
	5.450				6.370								
TP22	4.180	4.180		13.837	5.170	5.170		9.657	482.000	-0.0002259	-0.0040514	9.653	
	2.910				3.970								
			254.000				240.000						
	6.140				6.590								
TP23	4.990	4.990		13.497	5.330	5.330		8.507	506.000	-0.0002371	-0.0042885	8.503	
	3.840				4.070								
			230.000				252.000						
	6.670				6.120								
TP24	5.435	5.435		13.962	4.970	4.970		8.527	460.000	-0.0002155	-0.0045040	8.522	
	4.200				3.820								
			247.000				230.000						

			236.000				252.000					
	4.600				4.080							
TP38	4.110	4.110		22.607	2.860	2.860		18.497	480.000	-0.0002249	-0.0077855	18.489
	3.620				1.640							
			98.000				244.000					
	6.800				6.650							
TP39	5.510	5.510		21.957	6.160	6.160		16.447	196.000	-0.0000918	-0.0078774	16.439
	4.220				5.670							
			258.000				98.000					
	6.490				6.220							
TP40	5.220	5.220		22.247	4.930	4.930		17.027	516.000	-0.0002418	-0.0081191	17.019
	3.950				3.640							
			254.000				258.000					
	6.670				6.535							
TP41	5.445	5.445		22.442	5.250	5.250		16.997	511.000	-0.0002394	-0.0083586	16.989
	4.220				3.965							
			245.000				257.000					
	6.100				6.390							
TP42	4.845	4.845		22.117	5.170	5.170		17.272	489.000	-0.0002291	-0.0085877	17.263
	3.590				3.950							
			251.000				244.000					
	6.720				6.390							
TP43	5.480	5.480		22.442	5.155	5.155		16.962	498.000	-0.0002334	-0.0088211	16.953
	4.240				3.920							
			248.000				247.000					
	7.090				6.155							
TP44	5.825	5.825		23.342	4.925	4.925		17.517	494.000	-0.0002315	-0.0090526	17.508
	4.560				3.695							
			253.000				246.000					
	6.420				7.155							
TP45	5.150	5.150		22.602	5.890	5.890		17.452	506.000	-0.0002371	-0.0092897	17.443
	3.880				4.625							
			254.000				253.000					
	6.335				5.965							
TP46	5.070	5.070		22.977	4.695	4.695		17.907	508.000	-0.0002380	-0.0095277	17.897
PMW103	3.805				3.425							
			253.000				254.000					
	6.730				6.360							
TP47	5.510	5.510		23.387	5.100	5.100		17.877	505.000	-0.0002366	-0.0097643	17.867
	4.290				3.840							
			244.000				252.000					
	6.455				6.110							
TP48	5.245	5.245		23.742	4.890	4.890		18.497	488.000	-0.0002287	-0.0099930	18.487
	4.035				3.670							
			242.000				244.000					
	7.180				6.950							
TP49	6.020	6.020		24.012	5.750	5.750		17.992	482.000	-0.0002259	-0.0102189	17.982
	4.860				4.550							
			232.000				240.000					
	6.000				5.985							

6-11-18

SFWMD

FIPES

18 FEB 2 @ 18 FEB 23

McKIDDER

NAIDBB

	+	HI	ELEV.
BM	6.735		21.745
	5.545		
	4.355		
	5.545	27.29	

TP 1		
	6.00	
	1.95	4.785
	1.215	3.57
	0.48	4.785 22.505
	1.215	23.72

TP 2		
	4.36	
	11.21	3.62
*	10.91	2.88
	10.61	3.62 20.10
	10.91	31.01

TP 3		
	2.58	
	3.12	2.30
	2.73	2.02
	2.34	2.30 28.71
	2.73	31.44

TP 4		
	10.95	
	8.11	10.52
	6.83	10.09
	5.55	10.52 20.92
	6.83	27.75

OTPSO.33

458-67

5692 - S.S. ROD ENCASED IN PVC w/ LOGO CAP
STAMPED 5692 2007

SET LOGO CAP

SET LOGO CAP

FIND Z'ALUM DISK IN C. MON STAMPED 18 FEB 2014
ELEV. 28.75

SET LOGO CAP

6-11-18

SFWMD

FEDERS

LB FEB 2 ; LB FEB 3

McKINNEY

DAVIES

SLY

TP5

	6.27	
6.54	5.01	
5.33	3.75	
4.12	5.01	22.14
5.33	28.07	

TP6

	5.86	
5.66	4.65	
4.42	3.44	
3.18	4.65	23.42
4.42	27.84	

TP7

	6.29	
6.03	5.08	
4.76	3.87	
3.49	5.08	22.76
4.76	21.52	

TP8

	6.315	
6.765	5.255	
5.54	3.995	
4.315	5.255	22.165
5.54	27.805	

TP9

	6.91	
14.89	5.695	
14.21	4.48	
13.53	5.695	22.11
14.21	36.32	

07050.33

458-68

SET 60 d NL

SET 60 d NL

SET 60 d NL

SET 60 d NL

SET 60 d NL

6-11-18

SFWMD

FEDERS

LB FEB 2³ LB FEB 3

McKinney

NUMBER

+

HI

-

ELEV

TP10

5.83

2.64

4.755

2.39

3.68

2.14

4.755 31.565

2.39 33.955

TP11

10.865

5.65

10.34

4.55

10.115

3.45

10.34 23.615

4.55 28.165

TP12

6.44

6.655

5.335

5.440

4.23

4.225

5.335 22.83

5.44 28.21

TP13

6.06

7.01

4.855

5.785

3.65

4.56

4.855 13.415

5.785 29.20

TP14

6.47

5.425

5.24

4.535

4.01

3.645

5.24 13.96

4.535 28.495

07050.83

458-69

FIND 2" ALUM DISK IN C. HOP

LB FEB 3 2014

ELEV. = 31.592

SEE LOG NL

SEE LOG NL

SEE LOG NL

SEE LOG NL

6-11-18

SFWMD

FEBELS

18 FEB 2 @ 18 FEB 3

MCKINNEY

DAVD 88

+

41

-

ELEV

BM

6.555

5.525

4.495

5.525 22.97

07050.33

458-70

FIND 3" BRASS DISK IN FACE OF BRIDGE
MAY 13 1992 ELEV. 22.960

6.13.18

SFWMD

FEEDS

MCDONNELL

INDEX

+ 41 -

ELEV

BM 7.83

21.575

6.325

5.50

6.465 28.24

TP1

6.085

6.05

4.92

4.78

3.755

3.51

4.92 23.32

4.78 28.10

TP2

6.51

6.89

5.22

5.63

3.93

4.37

5.22 22.88

5.63 28.51

TP3

6.04

6.14

4.84

4.88

3.64

3.62

4.84 28.47 4.88 23.63

TP4

7.09

7.06

5.875

5.84

4.66

4.62

5.875 22.595

5.84 28.435

07050.33

458-71

SIS. 2007 (INCREASED) IN PVC W/ LOGO CAP

K692 2007

SET LOGO NL

SET LOGO NL

SET LOGO NL

SET LOGO NL

6-13-18

SFWMD

FIELDS

McKIMMERY

DNV025

+ HI - ELEV

TP5	6.41	
6.75	5.24	
5.525	4.02	
4.30	5.24	23.195
5.525	28.72	

TP6	6.36	
4.95	5.135	
3.74	3.91	
2.50	5.135	23.585
3.74	27.325	

TP7	6.88	
6.41	5.64	
5.78	4.40	
5.15	5.64	21.685
5.78	27.465	

8	6.73	
7.92	6.08	
7.43	5.43	
6.94	6.08	21.385 SET MAG-DISK
7.43	28.815	

TP9	7.77	
4.48	7.23	
3.75	6.69	
3.02	7.23	21.585 SET MAG-DISK
3.75	25.335	

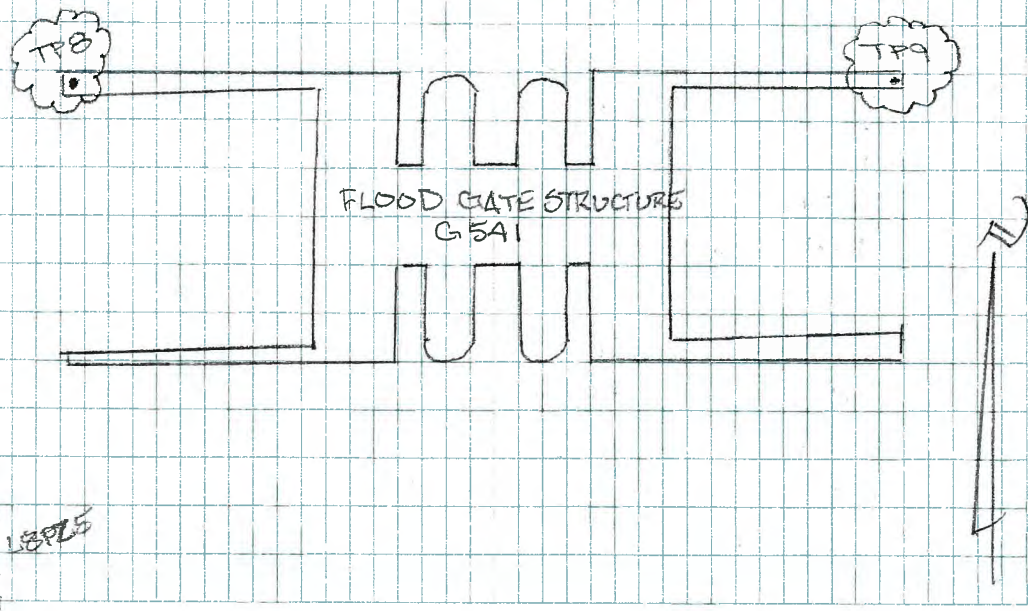
07050.33

458-72

SET 60 d. NL

SET 60 d. NL

SET 5' RC 23' 6" D



6-14-18

SFWMD

FIRELS

MCKINNEY/

NUMBER

+

HI

ELEV

TP30

5.545

5.92

4.83

4.345

3.74

3.145

4.83

14.93

4.345 19.215

TP31

6.155

6.025

4.815

5.01

3.605

3.865

4.815

14.46

5.01 19.47

TP32

7.61

6.48

5.335

6.32

4.19

5.03

5.335

14.135

6.32 20.455

TP33

5.84

7.095

5.795

4.66

4.495

3.48

5.795

14.66

4.66 19.32

BM

3.60

3.13

2.66

3.13

16.19

07055.33

458-77

GUY ANCHOR

SET 60 d NL

SET 60 d NL

SET 60 d NL

IND 2" ALUM DISK IN C MON
LBDR2 ELEV. = 16.20

7-18-18

SFWMD

PERELS

MCKINNEY

MUNDERS

+ HI - ELEV

TP40		6.22	
	6.49	4.93	
	5.22	3.64	
	3.95	4.93	17.031
	5.22	22.251	

TP41		6.535	
	6.67	5.25	
	5.445	3.965	
	4.22	5.25	17.001
	5.445	22.446	

TP42		6.39	
	6.10	5.17	
	4.845	3.95	
	3.59	5.17	17.276
	4.845	22.121	

TP43		6.39	
	6.72	5.155	
	5.48	3.92	
	4.24	5.155	16.966
	5.48	22.446	

TP44		6.155	
	7.09	4.925	
	5.825	3.695	
	4.56	4.925	17.521
	5.825	23.346	

07050.33

826-28

SET 60d NL

SET IRC

SET 60d NL

SET 60d NL

SET 60d NL

7-18-18

FERELS

MCKINLEY

SFWMD

NAVD88

+ HI - ELEV

TP45		7.155	
	6.42	5.89	
	5.15	4.625	
	3.88	5.89	17.486
	5.15	22.606	

TP46		5.965	
	6.335	4.695	
	5.07	3.425	
	3.805	4.695	17.911
	5.07	22.981	

TP47		6.36	
	6.73	5.10	
	5.51	3.84	
	4.29	5.10	17.881
	5.51	23.391	

TP48		6.11	
	6.455	4.89	
	5.245	3.67	
	4.035	4.89	18.501
	5.245	23.746	

TP49		6.95	
	7.18	5.75	
	6.02	4.55	
	4.86	5.75	17.996
	6.02	24.016	

07050.33

820-29

SET 60 d NL

SET IRC @ WELL SITE PMW-103

SET 60 d NL

SET 60 d NL

SET 60 d NL

7-19-18
FERRELLS
MCKINNEY
LEAK

SFWMD

	+	HI	-	NWDBB ELEV
TP50				5.985
	6.00			4.84
	5.18			3.695
	4.36			4.84 19.176
	5.18	24.350		

TP51				5.46
	6.82			4.64
	5.625			3.82
	4.43			4.64 19.716
	5.625	25.341		

TP52				2.89
	5.86			1.725
	4.885			0.56
	3.91			1.725 23.616
	4.885	28.501		

BM				5.565
				4.51
				3.455
				4.51 23.991

DT050.33

820-30

SET 600 NL

SET 600 NL

SET 600 NL

FIND SS. ROD INCREASED IN PVC W/ LOGO CAP
N 692 ELEV. 23.976

7-19-18

SFWMD

FEZELS
MCKINNEY
LEAK

NUMBERS

	+	HI	-	ELEV
BM	6.84			15.39
	5.62			
	4.40			
	5.62	21.01		

TP1				
			6.835	
	6.51		5.63	
	5.28		4.425	
	4.05		5.63	15.38
	5.28	20.66		

TP2				
			6.615	
	6.17		5.39	
	4.93		4.165	
	3.69		5.39	15.27
	4.93	20.20		

TP3				
			6.58	
	5.25		5.32	
	4.00		4.06	
	2.75		5.32	14.88
	4.00	18.88		

TPA				
			4.68	
	6.595		3.415	
	5.355		2.15	
	4.115		3.415	15.465
	5.355	20.82		

07050.33

826-31

FWD SS ROD INCREASED IN PVC W/ LOGO CAP
J413

SET GOOD NL

SET GOOD NL

SET GOOD NL

SET GOOD NL

7-19-18

SFWMD

PERELS

MCKINNEY

LEAK

NAVD 83

+ HI - ELEV

TP5

		7.29	
6.98		6.06	
6.13		4.83	
5.28		6.06	14.76
6.13	20.89		

TP6

		5.43	
6.48		4.59	
5.23		3.75	
3.98		4.59	16.30
5.23	21.53		

TP7

		6.79	
6.14		5.54	
4.95		4.29	
3.76		5.54	15.99
4.95	20.94		

TP8

		6.02	
6.53		4.84	
5.32		3.66	
4.11		4.84	16.10
5.32	21.42		

TP9

		6.48	
6.535		5.275	
5.34		4.07	
4.145		5.275	16.145
5.34	21.485		

DTOS0.33

826-32

SET 60 Q NL

SET 60 Q NL

SET NL

SET NL

SET NL

7-19-18

SFWMD

PERELS
MCKINNEY
LEAK

NUMBERS

	+	HI	-	ELEV
TP10			6.285	
	6.595		5.04	
	5.405		3.845	
	4.215	5.04		16.445
	5.405	21.85		

TP11			6.53	
	6.445		5.33	
	5.255		4.13	
	4.065	5.33		16.52
	5.255	21.775		

TP12			6.445	
	6.56		5.255	
	5.345		4.065	
	4.13	5.255		16.52
	5.345	21.865		

TP13			6.095	
	6.41		4.88	
	5.195		3.665	
	3.98	4.88		16.985
	5.195	22.18		

TP14			6.54	
	6.365		5.33	
	5.155		4.12	
	3.945	5.33		16.85
	5.155	22.005		

07050.33

826-33

SET NL

SET NL

SET NL

SET NL

SET NL

7-19-18

SFWMD

FEELS
MCKINLEY
LEAK

NAVESB

	+	HI	-	ELEV
TP15				6.235
	6.36			5.025
	5.12			3.815
	3.88			5.025 16.98
	5.12	22.10		

TP16				6.42
	6.59			5.18
	5.395			3.94
	4.20			5.18 16.92
	5.395	22.35		

TP17				6.295
	6.41			5.105
	5.225			3.915
	4.04			5.105 17.21
	5.225	22.35		

TP18				6.86
	7.18			5.68
	5.88			4.50
	4.58			5.68 16.755
	5.88	22.635		

TP19				6.445
	6.40			5.33
	5.38			4.015
	4.36			5.33 17.305
	5.38	22.685		

07050.33

826.34

SET NL

SET NL

SET NL

SET NL

SET NL

7-20-18

FERELS

MCKINNEY

SFWMD

NAVD83

ELEV

+	HI	-	ELEV
TP20		6.47	
6.68		5.33	
5.37		4.26	
4.06		5.33	17.355
5.37	22.725		

TP21		6.905	
6.74		5.60	
5.445		4.295	
4.15		5.60	17.125
5.445	22.57		

TP22		6.76	
6.49		5.47	
5.175		4.18	
3.86		5.47	17.10
5.175	22.275		

TP23		6.505	
6.66		5.175	
5.27		3.815	
3.98		5.175	17.10
5.27	22.37		

TP24		6.80	
6.36		5.52	
5.06		4.24	
3.76		5.52	16.85
5.06	21.91		

07650.83

826-35

FWD MAG-DISK (USGS SURVEY MARKER)
@ WELL SITE PB 685

SET NL

SET NL

SET NL

SET NL

7-20-18

FERRIS

MCKINNEY

SFWMD

NADES

ELEV

TP25

+	H'	-	ELEV
		6.44	
6.64		5.15	
5.32		3.86	
4.00		5.15	16.76
5.32	22.08		

TP26

+	H'	-	ELEV
		6.45	
6.645		5.14	
5.365		3.83	
4.085		5.14	16.94
5.365	22.305		

TP27

+	H'	-	ELEV
		6.96	
6.40		5.70	
5.13		4.44	
3.86		5.70	16.605
5.13	21.735		

TP28

+	H'	-	ELEV
		6.48	
6.64		5.22	
5.33		3.96	
4.02		5.22	16.515
5.33	21.845		

TP29

+	H'	-	ELEV
		6.47	
6.265		5.16	
4.975		3.85	
3.685		5.16	16.685
4.975	21.66		

47050.33

B26-36

SET NL

SET NL

SET NL

SET NL

SET NL

7-20-18
FERRELLS
MCKINNEY

SFWMD

NAVD83
ELEV

TP30

+	HI	-	
		6.72	
6.005		5.43	
5.325		4.14	
4.045		5.43	16.23
5.325	21.555		

TP31

+	HI	-	
		7.10	
6.69		5.83	
5.41		4.56	
4.13		5.83	15.725
5.41	21.135		

TP32

+	HI	-	
		6.435	
6.62		5.155	
5.355		3.875	
4.09		5.155	15.98
5.355	21.335		

TP33

+	HI	-	
		7.17	
6.895		5.90	
5.65		4.63	
4.405		5.90	15.435
5.65	21.085		

TP34

+	HI	-	
		5.78	
5.92		4.575	
4.61		3.37	
3.30		4.575	16.51
4.61	21.12		

07050.33

826-37

SET NL

SET NL

SET NL

SET 600 NL

SET 600 NL

7-20-18
FERELS
MCKINDEY

SFWMD

NAWDBB

+ H1 - REV

TP35 6.395
6.92 5.065
5.63 3.735
4.34 5.065 16.055
5.63 21.685

TP36 7.215
6.96 5.975
5.67 4.675
4.38 5.975 15.71
5.67 21.38

TP37 5.92
6.555 4.625
5.275 3.33
3.995 4.625 16.755
5.275 22.03

TP38 5.96
5.55 4.675
4.86 3.39
4.17 4.675 17.355
4.86 22.215

TP39 5.26
5.27 4.485
5.18 3.71
5.09 4.485 17.73
5.18 22.91

07050.33

826-38

SET 60 d NL

SET 60 d NL

SET 60 d NL

SET 60 d NL

SET 60 d NL

7-20-18

SFWMD

FIELDS

MCKINNEY

NADEB

+

HI

ELEV

BM

7.955

7.865

7.775

7.865 15.045

07050.33

826-39

FWD S.S. ROD INCREASED IN PVC W/ LOGO CAP
K413 ELEV. 15.036

7-30-18

SFWMD

FERELS

PB685

MCKINNEY

RTK FILE 0705033DFT3018

	+	HI	-	NAVD88 ELEV	UNIT 12	
BM	3.83			17.351		MAG. AL. DISK USGS SURVEY MARKER
	3.77					
	3.71					
	3.77	21.121				

TP1					
	2.58	2.71			
	2.535	2.66			
	2.49	2.61			
	2.535	2.66	18.461		MARKER MARK ATOP WELL
	20.9910				

TP2				
	5.32	5.195	15.801	
	21.121			NG@ WELL

BM				
	3.82			
	3.77			
	3.72			
	3.77	17.351		MAG. AL. DISK USGS

07050 33

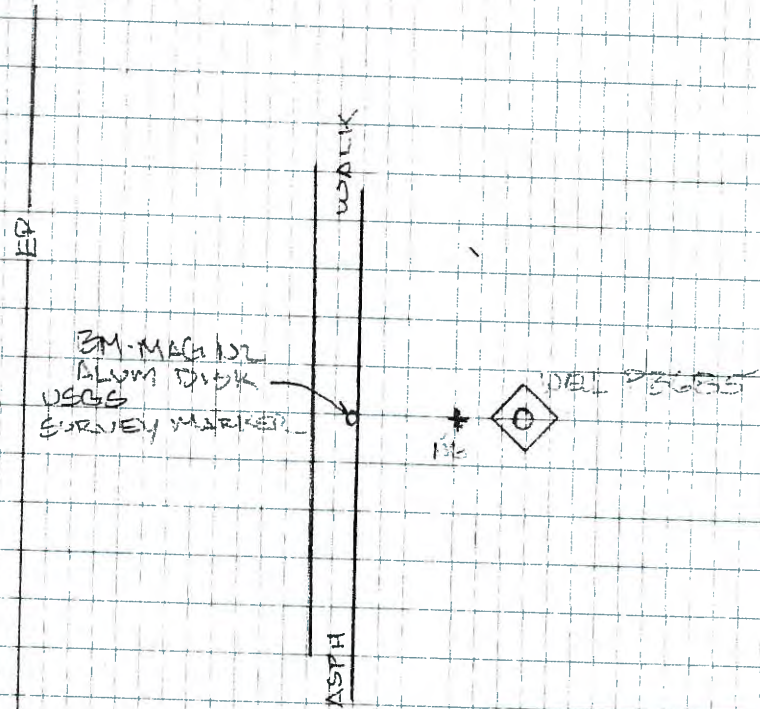
BZ6-40

RTK PT #s 1-3

PICTURE #'s ~~1-10~~

P1020133 - P1020142

LOID COUNTRY SPACIALIZED



7.30.18 SFWMD
 FERELS LBWFI
 MCKINNEY/ ZTR FILE 0105033DF13018

NAVD 88

	+	HI	-	ELEV	
BM	4.96	22.03	17.07		2" ALUM DISK STAMPED LBWFI

TP 1	5.12	16.91			MARKER MARK AT OP WELL LBWFI
	5.27	22.18			

TP 2	5.01	17.17			NG @ LBWFI
	4.90	22.07			

TP 3	5.19	16.88			MARKER MARK AT OP WELL LBWFI
	5.00	21.88			

TP 4	4.72	17.16			NG @ LBWFI
	4.96	22.12			

TP 5	5.65	16.47			MARKER MARK AT OP WELL LBWFI
	5.44	21.91			

TP 6	5.25	16.66			NG @ LBWFI
	5.46	22.12			

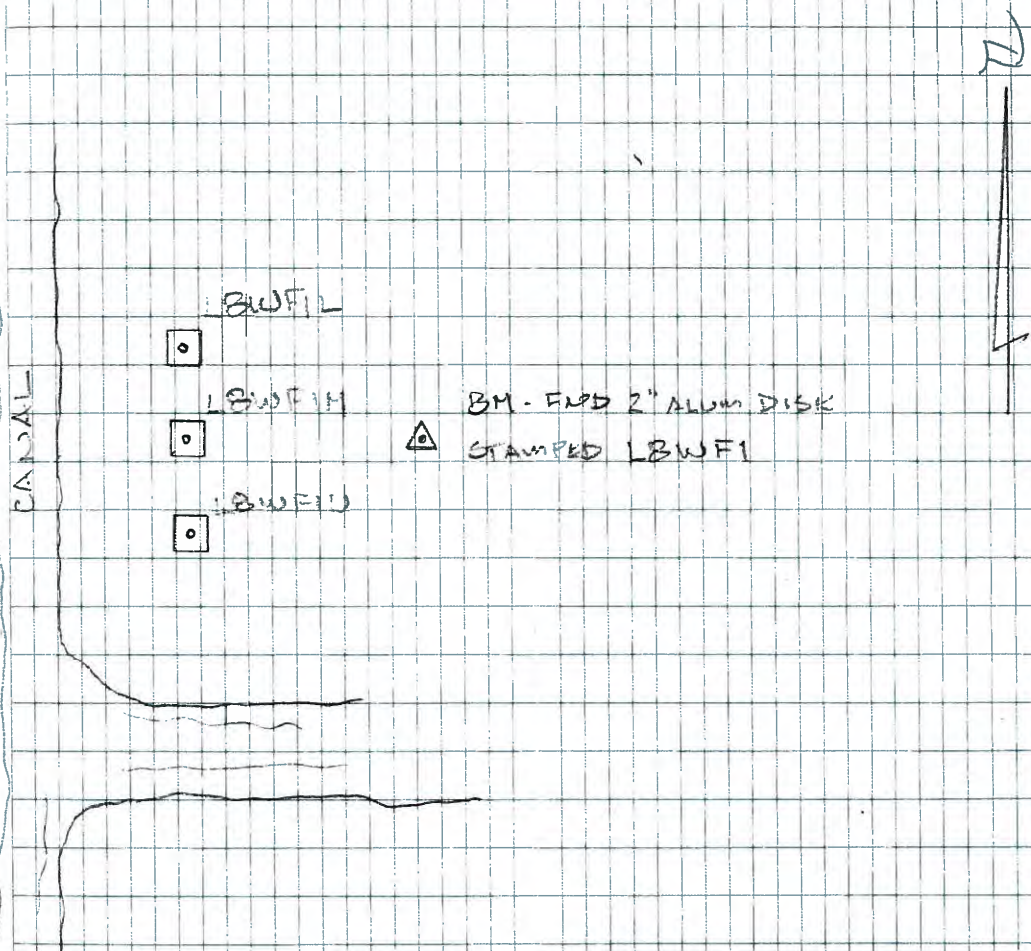
BM	5.05	17.07			LBWFI
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01050.33

B26-41

RTK PT #'S
4-10

PICTURE #'S ~~12-30~~
P1020144 - P1020162



7-30-18

SFWMD

FEBEL6

LB FEB6

MCKINNEY

RTK FILE 0705033DP13018

NAVD88

	+	HI	-	ELEV	
BM	5.76	21.827		16.067	2" ALUM DISK IN CONC MON LB FEB6

TP1		5.97		15.857	MARKER MARK ATOP WELL LB FEB6 W
	6.15	22.007			

TP2		5.19		16.817	
	21.827	5.19		15.817	NG @ LB FEB6 W
	5.06	20.817			

TP3		6.47			
	21.987	5.73		15.747	MARKER MARK ATOP WELL LB FEB6 E
	5.84	20.987			

TP4		16.717			
	21.827	5.27		15.717	NG @ LB FEB6 E
	5.11	20.827			

BM		5.76		16.067	LB FEB6
----	--	------	--	--------	---------

07050.33

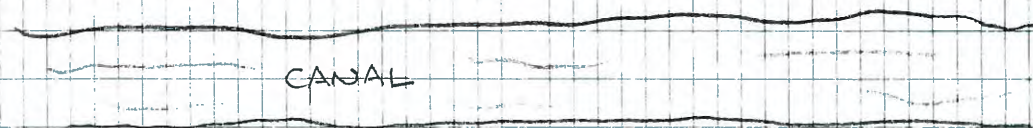
826-42

RTK PT #'s

11-15

PICTURE #'S ~~82-45~~

P1020164 - P1020177



LB FEB6 W

LB FEB6 E

BM FND 2" ALUM DISK IN CONC MON.
STAMPED LB FEB6

7-30-18

SFWMD

FERRIS

L8FEB7

MCKINNEY

RTK FILE 0105033DF13018

NAVD88

+ HI - ELEV

BM	5.83	22.087	16.257	FND 3" BRASS DISK IN CONC. W/D PALM BCH CO TUNA
----	------	--------	--------	---

TP1	7.14	14.947	MARKER MARK ATOP WELL L8FEB7E
	6.93	21.877	

TP2	6.35	15.527	NG @ L8FEB7E
	6.51	22.037	

TP3	7.24	14.797	MARKER MARK ATOP WELL L8FEB7W
	7.08	21.877	

TP4	6.32	15.557	NG @ L8FEB7W
	6.49	22.047	

BM	5.79	16.257	TUNA
----	------	--------	------

01050.33

826-43

RTK PT #'S

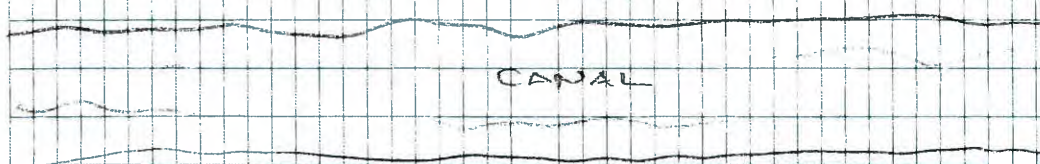
16-20

P1020179 - P1020189

PICTURE #'S ~~17-57~~

PICTURE #'S ~~17-170~~

P1020249 - P1020252



L8FEB7W



L8FEB7E



175' ±

BM
3" BRASS DISK
IN CONC W/D
PALM BCH CO.
"TUNA"

T-30-18

SFWMD

FEDS

LBDR1

MCKINNEY

RTK FILE 0705033DF13018

POINT 12

NAVD88

+ HI - ELEV

BM 4.83 19.625 4.795 FND 2" ALUM DISK
IN CONC MON
STAMP LBDR1

TP1 4.75 14.85 MARKER MARK ATOP
WELL LBDRIL
4.89 19.765

TP2 4.79 14.975 NGE LBDRIL
4.67 19.645

TP3 4.95 14.695 MARKER MARK ATOP
WELL LBDRIM
5.12 19.815

TP4 4.80 15.05 NGE LBDRIM
4.60 19.645

TP5 5.21 14.405 MARKER MARK ATOP
WELL LBDRIL
5.40 19.805

TP6 5.00 14.805 NGE LBDRIL
4.77 19.575

3M 4.78 14.795 LBDR1

07050.33

826-44

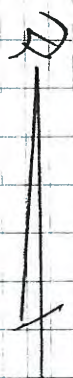
OK PT #'S

21-27

PICTURE #'S

~~59-77~~

P1020191 - P1020209



DEER RUN BLVD



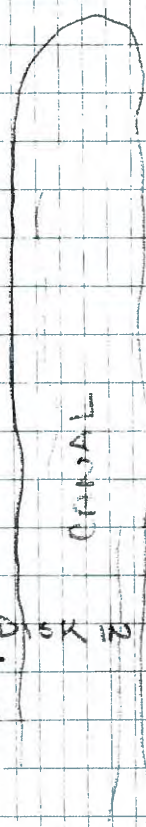
LBDR10



LBDR1M



LBDRIL



▲
2" ALUM DISK IN CONCRETE
STAMP
LBDR1

7.31.18

SFWMD

FEDS

LBDRZ

MCKINNEY

RTK FILE 0705033 DF13118

UNIT 12

NAVD88

+ HI -

ELEV

BM 5.36 21.544

16.184

FWD 2" ALUM DISK
IN CONC MON
STAMPED LBDRZ

TP1

4.87

16.674

MARKER MARK AT TOP
WELL LBDRZU

5.02 21.694

TP2

4.64

17.054

NG @ LBDRZU

4.72 21.774

TP3

5.73

16.544

MARKER MARK AT TOP
WELL LBDRZM

5.47 21.514

TP4

5.05

16.464

NG @ LBDRZM

5.17 21.634

TP5

5.97

15.664

MARKER MARK AT TOP
WELL LBDRZL

6.08 21.744

TP6

5.55

16.194

NG @ LBDRZL

5.40 21.594

BM

5.41

16.184

LBDRZ

07050.33

826-45

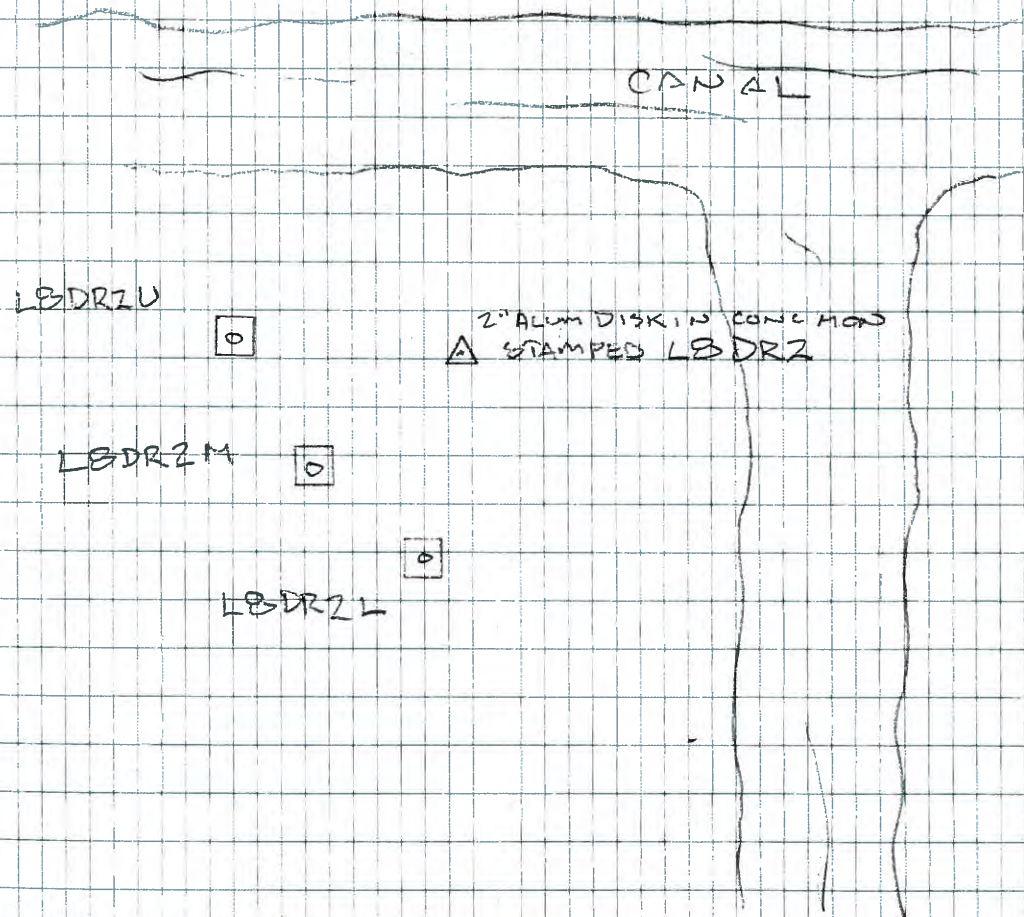
RTK PT #'S

28-34

PICTURE #'S

~~79-97~~

P1020211 - P1020229



7-31-18

SFWMD

FERELS

PHW-1

MCKINLEY

RTK FILE 07050330FT3118

UNIT 12

NAVD83

	+	HI	-	ELEV	
BM	5.36	16.344		10.984	3" BRASS DISK W/ CONCP MON PALM BCH CO. GEODTIC 42

TP1		1.58	14.764		MARKER MARK ATOP WE LB PHW-1S
	1.45	16.244			

TP2		4.62	11.594		NG @ LB PHW-1S
	4.89	16.484			

TP3		2.04	14.444		MARKER MARK ATOP WELL LB PHW-1D
	1.80	16.244			

TP4		4.51	11.734		
	4.62	16.354			

BM		5.37	10.984		PALM BCH CO GEODTIC 42
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07050.33

826.46

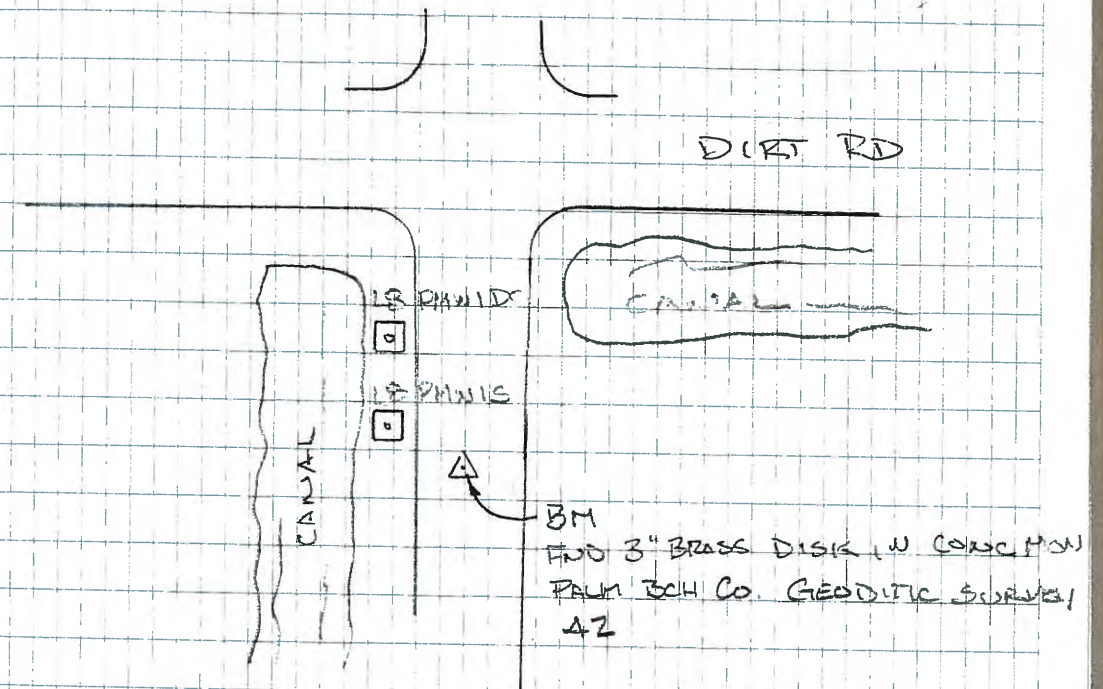
RTK PT #'S

35-39

PICTURE #'S

~~99-115~~

P1020231 - P1020247



8-6-18

CEWMD

FERELS

LB FEB 3

McKINNEY

RTK E 070503301 7-23 011712

NAUD

+ HI - ELEV.

BM 5.58 37.142 31.562 LB FEB 3

TP1 4.44 32.702 116@ LB FEB 3L

4.31 37.012

TP2 4.61 32.402 116@ LB FEB 3M

4.82 37.202

TP3 5.02 32.202 116@ LB FEB 3U

5.12 37.392

BM 5.76 31.562 LB FEB 3

5.40 36.962

TP4 0.90 36.062 MARKER MARK ATOP WELL
LB FEB 3U

1.09 37.152

TP5 1.09 36.062 MARKER MARK ATOP WELL
LB FEB 3M

1.23 37.292

TP6 0.95 36.342 MARKER MARK ATOP WELL
LB FEB 3L

0.79 37.132

BM 5.57 31.562 LB FEB 3

07050.33

836-47

RTK #'S

40-46

PICTURE #'S

P1020389-P1020394

~~126-133 & 253-259~~

P1020262-P1020274

LB FEB 3 L



LB FEB 3 M



LB FEB 3 U



ISM 2' ALUM DISK
IN CONC MARK
LB FEB 3

8-6-18

SFWMD

FEBELS

LB FEBZ

MCKINNEY RTK FILE 0705033DFB618 12/21/12

NADESS

+ HI - ELEV

BM 6.24 34.949 28.709 LB FEBZ

TP1 5.35 29.599 NG@ LB FEBZ L
5.20 34.799

TP2 5.14 29.699 NG@ LB FEBZ M
5.26 34.919

TP3 5.29 29.429 NG@ LB FEBZ U
5.33 34.759

BM 6.05 28.709 LB FEBZ
5.80 34.509

TP4 1.41 33.099 MARKER MARK STOPWELL
LB FEBZ U
1.42 34.519

TP5 1.10 33.419 MARKER MARK STOPWELL
LB FEBZ M
0.95 34.369

TP6 1.08 33.289 MARKER MARK STOPWELL
LB FEBZ L
1.19 34.479

BM 5.78 28.199

07050.33

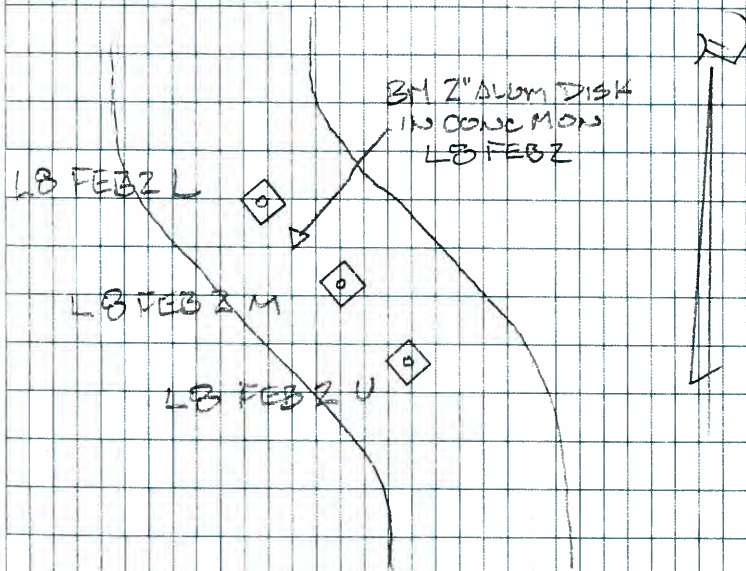
836.48

RTK #'S
47-53

PICTURE #'S P1020396-P1020401

~~140-182~~ ; ~~261-266~~

P1020276 - P1020288



8-6-18

SFWMD

FERRIS

LBPZ5

MCKINNEY

RTK FILE 0705033DFB6B UNIT 12

NAVD83

+ HI - ELEV

BM 5.40 26.783 21.383 MAG-DISK LBPZ5D
SET IN CONC W/NGA
WALL REF 458-72
(TPB)

TP1 2.57 24.213 MARKER MARK ATOP WELL
LBPZ5D
2.81 27.023

TP2 6.16 20.813 NG@ LBPZ5D
6.06 26.923

TP3 2.81 24.113 MARKER MARK ATOP WELL
LBPZ5C
2.96 27.073

TP4 6.20 20.873 NG@ LBPZ5C
6.11 26.983

TP5 2.95 24.033 MARKER MARK ATOP WELL
LBPZ5B
2.89 26.923

TP6 6.13 20.793 NG@ LBPZ5B
6.26 27.053

TP7 3.06 23.913 MARKER MARK ATOP WELL
LBPZ5A
2.96 26.953

TP8 6.15 20.803 NG@ LBPZ5B
6.25 27.053

BM 5.67 21.383 MAG-DISK LBPZ5D
REF. 458-72
(TPB)

07050.33

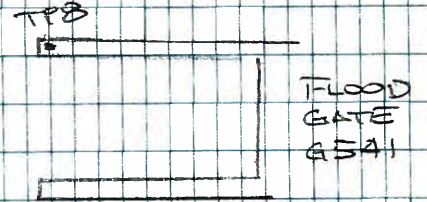
836-49

RTK #'S
54-62

PICTURE #'S

~~154-177~~

P1020290 - P1020313



ROCK RD

□ LBPZ5D

□ LBPZ5C

□ LBPZ5B

□ LBPZ5A

LBPZ5A

B-6-18 SFWMD
 FEZELS LB PZB
 MCKINNEY RTK FILE 0705033DFB618

+ 41 - ELEV
 3M 7.79 29.373 21.583 MAG-DISK LB6860
 SET IN CONC WINDY WALL
 REF 458-72 (TP9)

TP1 1.64 21.733 MARKER MARK AT SPWELL
 LB PZB B
 1.78 29.513

TP2 5.10 24.413 NGA@ LB PZB B
 5.21 29.623

TP3 1.79 27.333 MARKER MARK AT SPWELL
 LB PZB A
 1.70 29.533

TP4 5.07 24.463 NGA@ LB PZB A
 4.85 29.313

BM 7.73 21.583 MAG-DISK (TP9)

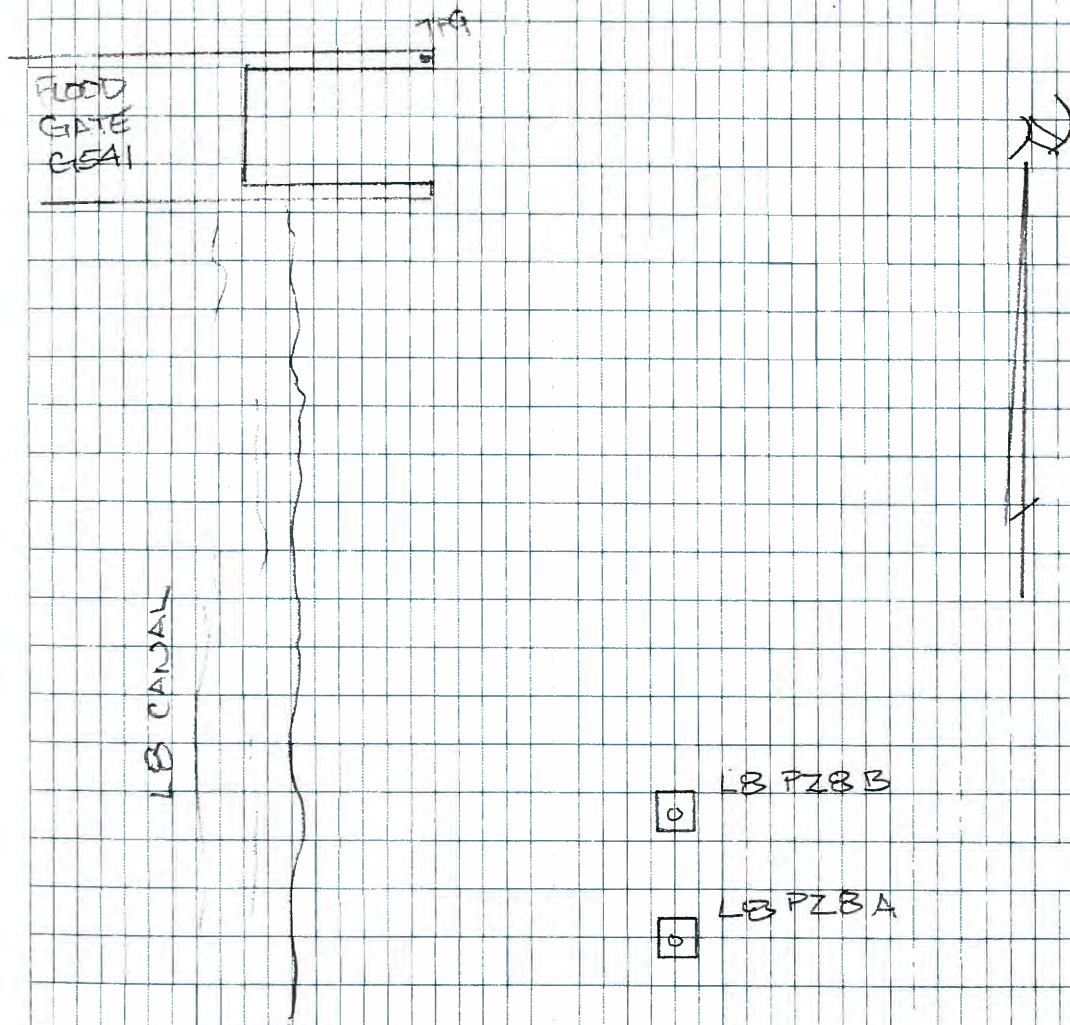
07050.33

836.50

RTK #15
 63-67

PICTURE #'S

~~179-192~~ P1020315 - P1020328



8.6.18

SFWMD

FEBELS

LB FEB1

McKinney

RTK FILE 0705033DFEB618 UNIT 12

NAVD88

+ HI - ELEV

BM 4.73 34.545 29.815 LB FEB1

TP1 4.20 30.345 NG@ LB FEB1 U
3.87 34.215

TP2 3.74 30.415 NG@ LB FEB1 M
3.94 34.415

TP3 3.81 30.605 NG@ LB FEB1 L
3.92 34.525

BM 4.71 29.815 LB FEB1
5.18 34.995

TP4 0.93 34.005 MARKER MARK ATOP WELL
0.85 34.915 LB FEB1 U

TP5 0.70 34.155 MARKER MARK ATOP WELL
0.82 34.935 LB FEB1 M

TP6 0.70 34.775 MARKER MARK ATOP WELL
0.48 34.755 LB FEB1 L

BM 4.94 29.815 LB FEB1

0705033

836-51

RTK #15

68-74

PICTURE #'S P1020403 - P1020408

~~194-206 & 268-273~~

P1020330 - P1020342

LB FEB1 L

o

LB FEB1 M

o

LB FEB1 U

o

BM
2" ALUM DISK IN CONC MON
LB FEB1



8-6-18

SFWMD

FEBELS

LB RES SITE 6

MCKINNEY

RTK FILE 0705033DF8618

DATE 12

NAVD88

	+	HI	-	ELEV	
BM	4.16	19.904		15.744	2" ALUM DISK IN CONC MON. LB RES SITE 6

TP1	4.33	15.574	NG@	LB FEB 5 L
	4.58	20.154		

TP2	4.88	15.324	NG@	LB FEB 5 U
	4.95	20.224		

TP3	5.08	15.144	NG@	LB FEB 5 11
	4.99	20.134		

BM	4.39	15.744		LB RES SITE 6
	4.34	20.084		

TP4	0.77	19.314	MARKER MARK ATOP WELL	LB FEB 5 L
	0.88	20.194		

TP5	1.26	18.934	MARKER MARK ATOP WELL	LB FEB 5 U
	1.13	20.064		

TP6	1.23	18.834	MARKER MARK ATOP WELL	LB FEB 5 M
	1.36	20.194		

BM	4.45	15.744		LB RES SITE 6
----	------	--------	--	---------------

07050.33

836.52

RTK #'S

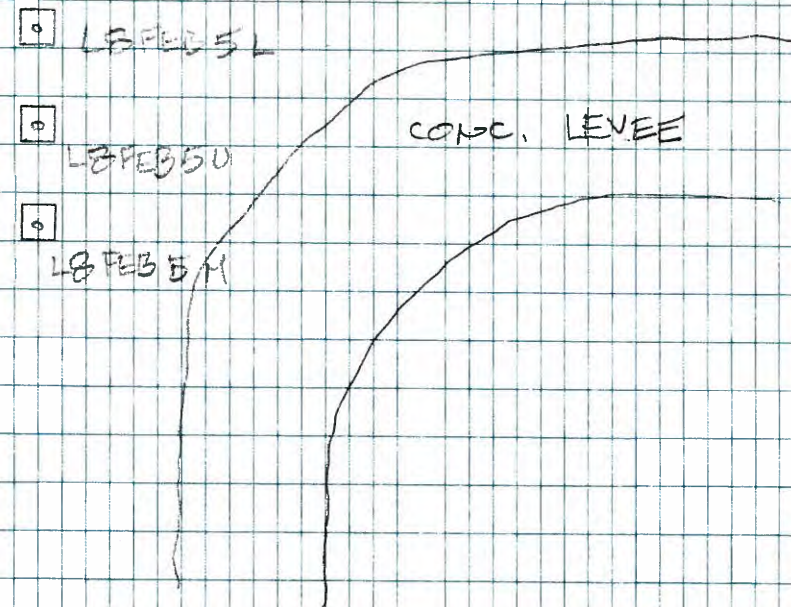
75-81

PICTURE #'S P1020410 - P1020415

~~108-222 & 215-280~~

P1020344-P1020358

▲ 2" ALUM DISK IN CONC MON
LB RES SITE 6



8-6-18

SFWMD

FEELS

LB FEB4

McKINNEY

RTK FILE 0705033D08618

NAVD 88

+ HI - ELEV

BM 2.35 20.397 18.047 LB FEB4

TP1 5.06 15.337 NGC LB FEB4 U
5.15 20.487

TP2 4.92 15.567 NGC LB FEB4 L
4.81 20.377

TP3 5.01 15.367 NGC LB FEB4 M
5.10 20.467

BM 2.42 18.047 LB FEB4
2.24 20.287

PA 1.23 19.057 MARKER MARK ATOP
WELL LB FEB4 U

TP5 1.34 19.057 MARKER MARK ATOP
WELL LB FEB4 L

TP6 1.34 19.057 MARKER MARK ATOP
WELL LB FEB4 M

BM 2.35 18.047 LB FEB4

07050.33

836-53

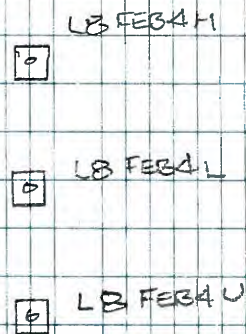
RTK #'S

82-88

PICTURE #'S P1020417 - P1020422

~~224 230 282 287~~

P1020360 - P1020372



CONC. LEV. EE

BM
2" ALUM DISK
IN CONC
STRUCTURE
LB FEB4

6.15.18

SFWMD

FERELS

McRINNEY

~~WINDS~~

4 41 -

ELEV

BM 7.07

23.711

5.90

4.73

5.90 29.611

TP1

6.09

8.14

4.93

6.86

3.77

5.58

4.93 24.631

6.86 31.51

TP2

8.17

4.56

6.885

3.38

5.60

2.20

6.885 24.156

3.38 28.036

TP3

6.14

7.97

4.85

7.77

3.56

7.57

4.85 23.186

7.77 30.956

TP4

1.38

2.65

1.14

2.39

0.90

2.13

1.14 29.816

2.39 32.206

07050.33

836-01

FIND S.S. ROD LOCATED IN PVC W/ LOGO CAP
M69Z 2007

SET LOG D NL

SET LOG d NL

SET LOG d NL

FIND 2" ALUM DISK IN CMON
LB FEBI ELEV. 29.821

6.15.18

SFWMD

FERELS

McKinney

NAVD88

+

HI

-

ELEV

TP5

7.92

5.57 7.85

4.35 7.78

3.13 7.85 24.356

4.35 28.706

TP6

6.93

6.72 5.72

5.46 4.51

4.20 5.72 22.986

5.46 28.446

TP7

6.56

6.46 5.295

5.22 4.03

3.98 5.295 23.151

5.22 28.371

TP8

6.61

6.56 5.375

5.31 4.14

4.06 5.375 22.996

5.31 28.306

TP9

6.74

6.74 5.475

5.48 4.21

4.22 5.475 22.831

5.48 28.311

07050.33

836-02

SET LOD NL

SET LOD NL

SET I.R.C

SET LOD NL

SET LOD NL

6-18-18

SFWMD

FERRIS

MCKINNEY

LAUDER

↓

H'

ELEV

TP10

6.58

6.62

5.345

5.36

4.11

4.10

5.345 22.966

5.36 28.326

TP11

6.56

6.645

5.305

5.415

4.05

4.185

5.305 23.021

5.415 28.436

TP12

6.855

4.86

5.163

3.865

4.405

2.87

5.13 22.806

3.865 26.671

TP13

12.005

7.56

10.925

6.31

9.845

5.06

10.925 15.746

6.31 22.056

TP14

6.24

3.49

4.98

3.28

3.72

3.07

4.98 17.076

3.28 20.356

07.050.33

836.03

SET LOG 12L

SET LOG 12L

SET LOG 12L

FOUND 2" ALUM DISK IN CHOW LB RES SITE 6
ELEV. = 15.74

SET LOG

6-18-18

SFWMD

FERRIS

McKINNEY

NAVD83

+ HI - ELEV

TP15	6.385	
7.65	6.15	
6.41	5.915	
5.17	6.15	14.206
6.41	20.616	

TP16	6.725	
6.41	5.465	
5.21	4.205	
4.01	5.465	15.151
5.21	20.361	

TP17	6.595	
6.865	5.395	
5.625	4.195	
4.385	5.395	14.916
5.625	20.591	

TP18	6.64	
6.52	5.38	
5.275	4.12	
4.03	5.38	15.211
5.275	20.486	

TP19	6.51	
6.60	5.26	
5.40	4.01	
4.20	5.26	15.226
5.40	20.626	

07050.33

836-04

FIND 5/8" IRC LB T232 (LB SITE G IRC)
ELEV. 14.20

SET NL

SET NL

SET NL

SET NL

6-18-18

SFWMD

FEZELS

Mckinney

NAVD83

+ HI - ELEV

TP20

6.795

6.885

5.59

5.635

4.385

4.385

5.59

15.036

5.635 20.671

TP21

6.80

6.83

5.555

5.585

4.31

4.34

5.555

15.116

5.585 20.701

TP22

6.57

6.49

5.33

5.28

4.09

4.07

5.33

15.371

5.28 20.651

TP23

6.58

6.58

5.36

5.29

4.14

4.00

5.36

15.291

5.29 20.581

TP24

5.195

8.055

3.88

6.745

2.565

5.435

3.88

16.701

6.745 23.446

07050.33

836-05

SET NL

SET NL

SET NL

SET NL

SET NL

6-18-18

SFWMD

FERELS

MCKINNEY

LAUDSB

+ MI - ELEV

TP25 6.73

5.91 5.395

4.685 4.06

3.46 5.395 18.051

4.685 22.736

TP26 6.595

7.25 5.375

6.02 4.155

4.79 5.375 17.361

6.02 23.381

TP27 6.905

6.91 5.665

5.66 4.425

4.41 5.665 17.716

5.66 23.376

TP28 7.163

7.59 6.38

6.33 5.13

5.07 6.38 16.996

6.33 23.376

TP29 7.13

7.16 5.86

5.89 4.59

4.62 5.86 17.446

5.89 23.356

07050.33

836-06

FIND 2" ALUM DISK IN CONC STRUCTURE
LB FEB 6 ELEV. 18.053

SET NL

FIND 1. R.

SET NL

SET NL

6.20.18

SFWMD

FEEDS

MCKINNEY

NUMBER

+ HI - ELEV

TP30

7.24

7.29

5.985

6.035

4.73

4.78

5.985 17.371

6.035 23.406

TP31

6.64

6.42

5.375

5.215

4.11

3.95

5.375 18.031

5.215 23.246

TP32

6.49

6.76

5.235

5.44

3.98

4.18

5.235 18.011

5.44 23.451

TP33

6.745

6.82

5.47

5.495

4.195

4.17

5.47 17.981

5.495 23.476

TP34

6.875

6.68

5.52

5.395

4.165

4.11

5.52 17.956

5.395 23.351

07050.33

836-07

SET NL

SET NL

SET NL

SET NL

SET NL

6-20-18

SFWMD

FERELS

McKinney

NAID 88

+ HI - ELEV

TP35

6.68

6.435

5.295

5.155

3.91

3.875

5.295 18.056

5.155 23.211

TP36

2.53

7.57

1.29

6.80

0.05

5.03

1.29 21.921

6.30 28.221

TP37

6.60

6.725

5.31

5.37

4.02

4.015

5.31 22.911

5.37 28.281

TP38

6.49

6.255

5.13

4.92

3.77

3.585

5.13 23.151

4.92 28.071

TP39

6.23

6.09

4.88

4.84

3.53

3.59

4.88 23.191

4.84 28.031

07050.33

834-08

SET MAG-DISK

SET MAG-DISK

SET LOG NL

SET LOG NL

SET LOG NL

6-21-18

SFWMD

FERELS

MCKINLEY

NAVD83

+

HI

-

ELEV

TP40

6.26

6.57

5.01

5.32

3.76

4.07

5.01 23.021

5.32 28.341

TP41

6.44

6.26

5.18

5.01

3.92

3.76

5.18 23.161

5.01 28.171

TP42

6.34

6.375

5.11

5.20

3.88

4.025

5.11 23.061

5.20 28.261

TP43

7.49

3.32

6.31

2.82

5.13

2.32

6.31 21.951

2.82 24.771

TP44

7.04

8.28

6.55

7.20

6.06

6.12

6.55 18.221

7.20 25.421

67050.33

836.09

SET LOD NL

SET LOD NL

SET LOD NL

SET LOD NL

SET LOD NL

6-21-18

SFWMD

FEBELS

MCKINZIE

UNDERS

+ NI - ELEV

TP45

4.24

4.84

3.145

4.50

2.05

4.16

3.145 22.276

4.50 20.776

TP46

4.45

5.06

4.03

4.68

3.61

4.30

4.03 22.746

4.68 27.426

TP47

5.565

7.70

5.19

6.47

4.815

5.24

5.19 22.736

6.47 28.706

TP48

6.69

6.14

5.455

4.89

4.22

3.64

5.455 23.251

4.89 28.141

TP49

6.64

7.215

5.37

5.92

4.10

4.625

5.37 22.771

5.92 28.691

07050.33

836-10

SET 60 d NL

FND 3" BRASS DISK PBF 15 2001
ELEV. = 22.752

SET 60 d NL

SET 60 d NL

SET 60 d NL

6-21-18

SFWMD

FERTS

MCWADSEY

INVD 88

+ HI - ELEV

TP50	7.06		
6.73	5.77		
5.45	4.48		
4.17	5.77	22.921	
5.45	28.371		

TP51	6.675		
6.59	5.395		
5.315	4.115		
4.04	5.395	22.976	
5.315	28.791		

TP52	6.60		
6.37	5.32		
5.05	4.04		
3.73	5.32	22.971	
5.05	28.021		

TP53	6.81		
4.26	5.50		
2.91	4.19		
1.56	5.50	22.521	
2.91	25.431		

BM	11.12		
	9.72		
	8.32		
	9.72	15.711	

07050.33

836-11

SET LOGO NL

SET LOGO NL

SET LOGO NL

SET LOGO NL

FWD SS ROD INCREASED IN PVC W/ LOGO CAP
L692 2007 ELEV = 15.702

U-22-18

SFWMD

FEZELS

CONT. FROM FB 458 Pg. 77

McILWANEY

NAVD 88

+

MI

-

ELEV

TP34 7.085 16.19
 5.595
 4.165
 5.595 21.785

TP35 7.40
 6.655 5.955
 5.415 4.51
 4.175 5.955 15.83
 5.415 21.245

TP36 6.02
 6.955 4.79
 5.695 3.56
 4.435 4.79 16.455
 5.695 22.15

TP37 6.535
 5.82 5.26
 4.56 3.985
 3.30 5.26 16.89
 4.56 21.45

TP38 6.88
 6.85 5.60
 5.11 4.32
 3.87 5.60 15.85
 5.11 20.96

07050.33

836-12

FIND 2" ALUM DISK IN C-MON. LBDR2

SET 60 & NL

SET 60 & NL

SET 60 & NL

SET 60 & NL

6-22-18

SFWMD

FERELS

MCKINNEY

NAUDEB

+

41

-

ELEV.

TP39

6.11

6.00

4.865

4.965

3.62

3.93

4.365 16.095

4.965 21.06

TP40

6.355

5.33

5.31

4.89

4.265

3.85

5.31 15.75

4.59 20.34

TP41

5.71

6.695

4.93

5.405

4.15

4.115

4.93 15.41

5.405 20.815

TP42

6.155

8.03

4.845

6.84

3.535

5.65

4.845 15.97

6.84 22.81

TP43

5.83

4.995

4.64

3.81

3.45

2.625

4.64 15.17

3.81 21.98

07050.33

836-13

SET 60d NL

SET 60d NL

SET 60d NL

SET 60d NL

SET 60d NL

6-25-18

SFWMD

FERELS

MCKINLEY

OREEVE

NADES

	+	HI	-	ELEV
TP50			5.15	
	5.955		4.20	
	4.885		3.25	
	3.815		4.20	17.955
	4.885	22.84		

TP51			5.24	
	4.755		4.165	
	3.54		3.09	
	2.325		4.165	18.675
	3.54	22.25		

TP52			6.54	
	5.785		5.33	
	5.305		4.12	
	4.825		5.33	16.885
	5.305	22.19		

TP53			5.61	
	6.13		5.11	
	4.95		4.61	
	3.77		5.11	17.08
	4.95	22.03		

TP54			6.22	
	7.30		5.03	
	6.20		3.84	
	5.10		5.03	17.00
	10.10	23.20		

07050.33

836-15

SET LOD NL

SET NL

SET LOD NL

FIND 2" ALUM DISK IN C MON
LBWF1 ELEV. 17.082

SET LOD NL

6.25.18

SFWMD

FERES

MCKINNEY

CREEPE

NUMBER

+

HI

-

ELEV

TP60

6.37

6.44

5.21

5.225

4.05

4.01

5.21

18.005

5.225 23.23

TP61

6.166

6.03

5.45

4.845

4.24

3.66

5.45

17.78

4.845 22.625

TP62

6.36

6.54

5.17

5.345

3.98

4.15

5.17

17.455

5.345 22.80

TP63

6.57

6.53

5.39

5.31

4.21

4.09

5.39

17.41

5.31 22.72

TP64

8.40

6.29

7.19

5.05

5.98

3.81

7.19

15.53

5.05 20.58

01050.33

836-17

SET NL

SET NL

SET NL

SET NL

SET 60 & NL

628-18

SFWMD

FARZLS

MCKINNEY

NAUDSB

+ HI - REV.

TP65		7.285	
	7.415	5.97	
	6.21	4.655	
	5.005	5.97	14.61
	6.21	20.82	

TP66		6.82	
	7.36	5.63	
	6.16	4.44	
	4.96	5.63	15.19
	6.16	21.35	

TP67		5.235	
	9.80	4.18	
	8.79	3.125	
	7.78	4.18	17.17
	8.79	25.96	

TP68		4.06	
	5.13	3.055	
	4.01	2.05	
	2.89	3.055	22.905
	4.01	26.915	

TP69		5.47	
	6.285	4.35	
	5.035	3.23	
	3.785	4.35	22.565
	5.035	27.60	

07050.33

836-18

SET IRC

SET LOD NL

SET LOD NL

SET LOD NL

6-28-18

SFWMD

FERELS

MckINNEY

	+	HI	-	ELEV.
TP70				10.33
	4.275			9.07
	3.205			7.81
	2.135		9.07	18.53
	3.205	21.735		

BM

7.16
 6.02
 4.88
 6.02 15.715

07050.33

836-19

SET 60 Q NL

FIND S.S. ROD INCREASED IN PVC w/ LOGO CAP
 LL92 ELEV. = 15.702

7-16-18

SFWMD

FEDERS

MCKINNEY

HANDS

	+	MI	-	ELEV
BIM	3.58			18.051
	3.21			
	2.84			
	3.21	21.26		

TP1			
	4.81	6.99	
	4.56	6.68	
	4.31	6.37	
	4.56	6.68	14.58
		19.14	

-02			
	6.53	5.85	
	6.395	5.49	
	6.26	5.13	
	6.26	5.49	13.651
	6.395	20.046	

-03			
	6.13	5.30	
	5.37	5.13	
	4.61	4.96	
	5.37	5.13	14.916
		20.286	

194			
	5.79	7.65	
	4.88	6.52	
	3.97	5.39	
	4.88	6.52	13.746
		18.646	

07050.33

836-20

FIND 2" ALUM DISK IN CONC STRUCTURE
18 FEB 84 ELEV. 18.051 (REF TP25 PG. 06)

SET NL

SET NL

SET NL

SET NL

7-16-18

SFWMD

FERELS

MCKINNEY

HANDSB

+ HI - ELEV

TP5	9.63
6.33	8.695
5.165	7.76
4.00	8.695 9.951
5.165	15.116

TP6	6.94
6.16	5.78
4.855	4.62
3.55	5.78 9.336
4.855	14.191

TP7	6.47
6.24	5.145
5.01	3.82
3.78	5.145 9.046
5.01	14.056

TP8	6.74
6.815	5.505
5.075	4.27
3.835	5.505 8.551
5.075	13.626

TP9	6.19
7.25	4.965
5.935	3.74
4.62	4.965 8.661
5.935	14.596

01050.33

836-21

SET GOOD NL

SET GOOD NL

SET GOOD NL

SET GOOD NL

SET GOOD NL

7-16-18

SFWMD

FERELS

MCKINLEY

NUMBERS

+ HI - ELEV

TP10		6.03	
	6.72	4.71	
	5.45	3.39	
	4.18	4.71	9.886
	5.45	15.336	

TP11		6.59	
	6.65	5.33	
	5.38	4.07	
	4.11	5.33	10.006
	5.38	15.386	

TP12		6.63	
	6.80	5.36	
	5.54	4.09	
	4.28	5.36	10.026
	5.54	15.966	

TP13		6.71	
	6.285	5.46	
	5.035	4.21	
	3.785	5.46	10.166
	5.035	15.11	

TP14		7.51	
	5.86	6.26	
	4.935	5.01	
	4.01	6.26	8.881
	4.935	13.816	

07050.33

B30-22

SET LOD NL

SET LOD NL

SET LOD NL

SET LOD NL

SET LOD NL

7-16-18

CFWMD

PERELS

MCKINNEY

NAUDS

↓

ELEV

TP15

7.39

10.78

6.50

10.555

5.61

10.33

6.50

7.316

10.555 17.871

TP16

7.18

6.95

6.88

6.65

6.58

6.35

6.88

10.991

6.65 17.641

TP17

10.53

7.65

10.31

6.375

10.09

5.14

10.31

7.331

6.375 13.706

TP18

5.57

6.98

4.32

5.71

3.07

4.44

4.82

9.386

5.71 15.096

TP19

6.145

6.14

4.865

4.855

3.585

3.57

4.865

10.231

4.855 15.086

07050.33

836.73

SET WOOD NL

FIND BRASS DICKIN COMMON (PALM BEACH CO. (42))
@ WELL SITE PMW-1 (GEODITIC SURVEY)

SET WOOD NL

SET WOOD NL

SET WOOD NL

7-17-18

SFWMD

FERELS

MCKIDNEY

NAVD83

+ HI - ELEV

TP20		5.95	
	5.77	4.67	
	4.55	3.39	
	3.33	4.67	10.416
	4.55	14.966	

TP21		5.94	
	5.805	4.73	
	4.595	3.52	
	3.385	4.73	10.236
	4.595	14.831	

TP22		6.37	
	5.45	5.17	
	4.18	3.97	
	2.91	5.17	9.666
	4.18	13.841	

TP23		6.59	
	6.14	5.33	
	4.99	4.07	
	3.84	5.33	8.511
	4.99	13.501	

TP24		6.12	
	6.67	4.97	
	5.435	3.82	
	4.20	4.97	8.531
	5.435	13.966	

07050.33

836-24

SET LOD NL

SET LOD NL

SET LOD NL

SET LOD NL

SET LOD NL

7-17-18

SFWMD

FERELS

MCKINNEY

NAVD88

+ HI - ELEV

TP25		6.49	
	6.42	5.26	
	5.10	4.03	
	3.78	5.26	8.706
	5.10	13.806	

TP26		5.48	
	6.53	4.17	
	5.32	2.86	
	4.11	4.17	9.636
	5.32	14.956	

TP27		5.72	
	8.12	4.51	
	6.87	3.30	
	5.62	4.51	10.446
	2.87	17.316	

TP28		6.39	
	7.10	5.15	
	5.85	3.91	
	4.60	5.15	12.166
	5.85	18.016	

TP29		6.375	
	6.35	5.125	
	5.115	3.875	
	3.88	5.125	12.891
	5.115	18.006	

07050.33

836-25

SET 60 d NL

SET 60 d NL

SET 60 d NL

SET 60 d NL

SET 60 d NL

7-17-18

SFWMD

FEDERS

McKINNEY

MAJORS

+ HI - ELEV

TP30

6.23

6.435

5.01

5.155

3.79

3.875

5.01

12.996

5.155 18.151

TP31

6.52

7.475

5.255

6.17

3.99

4.865

5.255

12.896

6.17 19.006

TP32

5.86

9.435

4.56

8.185

3.26

6.935

4.56

14.506

8.185 22.691

TP33

5.48

6.91

4.22

5.69

2.96

4.47

4.22

18.471

5.69 24.161

TP34

6.68

6.30

5.46

5.05

4.24

3.80

5.46

18.701

5.05 23.751

07050.33

836-26

SET 60d NL

SET IRC

SET 60d NL

SET 60d NL

SET 60d NL

7-18-18

SFWMD

FERELS

MCKINLEY

NUMBERS

+ HI - ELEV

TP35		5.895	
	6.785	4.65	
	5.51	3.405	
	4.235	4.65	19.101
	5.51	24.611	

TP36		6.07	
	5.945	4.78	
	4.71	3.49	
	3.475	4.75	19.831
	4.71	21.511	

TP37		6.83	
	3.51	5.57	
	2.39	4.31	
	1.21	5.57	18.971
	2.39	21.361	

TP38		4.08	
	4.60	2.86	
	4.11	1.64	
	3.62	2.86	18.501
	4.11	22.611	

TP39		6.65	
	6.80	6.16	
	5.51	5.67	
	4.22	6.16	16.451
	5.51	21.961	

07050.33

836-27

SET 60 @ NL

SET 60 @ NL

SET IRC @ WELL SITE PMW 106
(YELLOW CAP)

SET IRC @ WELL SITE PMW 106
(BLUE CAP)

SET 1/2" IR

8-6-18

SFUMD

FEDLS

PMW-103

MCKINNEY

RTK FILE 0705033DF8618

UNIT 12

NAVD88

+ HI -

ELEV

BM 4.72 22.617 17.897 5/8" IRC LB6860

TP1 1.85 20.767 MARKER MARK ATOP WELL PMW103S
1.94 22.707

TP2 4.34 18.367 NG@ PMW103S
1.24 22.607

TP3 2.01 20.597 MARKER MARK ATOP WELL PMW103D
2.13 22.727

TP4 4.19 18.537 NG@ PMW103D
4.10 22.637

BM 4.74 17.897 5/8" IRC LB6860

07050.33

836-54

RTK #'S

89-93

PICTURE #'S

~~238-251~~

P1020374 - P1020387



8-7-18

SFWMD

FERRIS

PMW 106

McKINLEY RTK FILE 07050331+8718 UNIT 12

UNDBS

	+	HI	-	ELEV	
BM	2.11	21.069		18.959	5/8" IRC LB6260

TP1		3.56	17.509	MARKER MARK ATOP WELL PMW106S	
	4.06	21.569			

TP2		6.18	15.389	NGC PMW106S	
	6.27	21.659			

TP3		3.83	17.829	MARKER MARK ATOP WELL PMW106D	
	3.75	21.579			

TP4		5.83	15.749	NGC PMW106D	
	5.92	21.669			

BM		2.71	18.959	5/8" IRC LB6260	
----	--	------	--------	-----------------	--


07050.33

836-55

RTK #15
94-98

PICTURE #'S

~~289 301~~ P1020424 - P1020436

PMW106D 

Δ BM 106 FOD

PMW106S 

DIRT RD.

Δ BM
5/8" IRC LB6260
AKA TP37
REF. PG. 27

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12.5
1      National Geodetic Survey, Retrieval Date = AUGUST 15, 2018
AD8198 *****
AD8198 DESIGNATION - J 413
AD8198 PID - AD8198
AD8198 STATE/COUNTY- FL/PALM BEACH
AD8198 COUNTRY - US
AD8198 USGS QUAD - LOXAHATCHEE (1984)
AD8198
AD8198 *CURRENT SURVEY CONTROL
AD8198
AD8198* NAD 83(2011) POSITION- 26 41 02.71032(N) 080 18 53.34767(W) ADJUSTED
AD8198* NAD 83(2011) ELLIP HT- -21.016 (meters) (06/27/12) ADJUSTED
AD8198* NAD 83(2011) EPOCH - 2010.00
AD8198* NAVD 88 ORTHO HEIGHT - 4.691 (meters) 15.39 (feet) ADJUSTED
AD8198
AD8198 GEOID HEIGHT - -25.683 (meters) GEOID12B
AD8198 NAD 83(2011) X - 959,385.928 (meters) COMP
AD8198 NAD 83(2011) Y - -5,621,392.641 (meters) COMP
AD8198 NAD 83(2011) Z - 2,846,974.071 (meters) COMP
AD8198 LAPLACE CORR - -2.02 (seconds) DEFLEC12B
AD8198 DYNAMIC HEIGHT - 4.683 (meters) 15.36 (feet) COMP
AD8198 MODELED GRAVITY - 979,111.5 (mgal) NAVD 88
AD8198
AD8198 VERT ORDER - FIRST CLASS II
AD8198
AD8198 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AD8198 Standards:
AD8198 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AD8198 Horiz Ellip SD_N SD_E SD_h (unitless)
AD8198 -----
AD8198 NETWORK 1.71 2.53 0.71 0.69 1.29 -0.06933359
AD8198 -----
AD8198 Click here for local accuracies and other accuracy information.
AD8198
AD8198
AD8198.The horizontal coordinates were established by GPS observations
AD8198.and adjusted by the National Geodetic Survey in June 2012.
AD8198
AD8198.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AD8198.been affixed to the stable North American tectonic plate. See
AD8198.NA2011 for more information.
AD8198
AD8198.The horizontal coordinates are valid at the epoch date displayed above
AD8198.which is a decimal equivalence of Year/Month/Day.
AD8198
AD8198.The orthometric height was determined by differential leveling and
AD8198.adjusted by the NATIONAL GEODETIC SURVEY
AD8198.in September 1992.
AD8198
AD8198.Significant digits in the geoid height do not necessarily reflect accuracy.
AD8198.GEOID12B height accuracy estimate available here.
AD8198
```


AD8198. [Photographs](#) are available for this station.

AD8198

AD8198. The X, Y, and Z were computed from the position and the ellipsoidal ht.

AD8198

AD8198. The Laplace correction was computed from DEFLECL2B derived deflections.

AD8198

AD8198. The ellipsoidal height was determined by GPS observations

AD8198. and is referenced to NAD 83.

AD8198

AD8198. The dynamic height is computed by dividing the NAVD 88

AD8198. geopotential number by the normal gravity value computed on the

AD8198. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AD8198. degrees latitude (g = 980.6199 gals.).

AD8198

AD8198. The modeled gravity was interpolated from observed gravity values.

AD8198

AD8198. The following values were computed from the NAD 83(2011) position.

AD8198

AD8198;		North	East	Units	Scale Factor	Converg.
AD8198;SPC FL E	-	260,585.648	268,193.560	MT	0.99999857	+0 18 27.7
AD8198;SPC FL E	-	854,938.08	879,898.37	sFT	0.99999857	+0 18 27.7
AD8198;UTM 17	-	2,951,628.719	568,170.292	MT	0.99965737	+0 18 27.7

AD8198

AD8198! - Elev Factor x Scale Factor = Combined Factor

AD8198!SPC FL E - 1.00000330 x 0.99999857 = 1.00000187

AD8198!UTM 17 - 1.00000330 x 0.99965737 = 0.99966067

AD8198

AD8198_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6817051628(NAD 83)

AD8198

AD8198 SUPERSEDED SURVEY CONTROL

AD8198

AD8198	NAD 83(2007)-	26 41 02.71048(N)	080 18 53.34826(W)	AD(2002.00)	0
AD8198	ELLIP H (02/10/07)	-21.000 (m)		GP(2002.00)	
AD8198	NAD 83(1999)-	26 41 02.71075(N)	080 18 53.34845(W)	AD()	1
AD8198	ELLIP H (12/12/02)	-21.023 (m)		GP()	3 1
AD8198	NAVD 88	4.69 (m)	15.4 (f)	LEVELING	3
AD8198	NGVD 29 (09/01/92)	5.143 (m)	16.87 (f)	ADJUSTED	1 2

AD8198

AD8198. Superseded values are not recommended for survey control.

AD8198

AD8198. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AD8198. See file [dsdata.pdf](#) to determine how the superseded data were derived.

AD8198

AD8198_MARKER: F = FLANGE-ENCASED ROD

AD8198_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

AD8198_STAMPING: J 413 1992

AD8198_MARK LOGO: NGS

AD8198_PROJECTION: FLUSH

AD8198_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

AD8198_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AD8198_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AD8198+SATELLITE: SATELLITE OBSERVATIONS - August 11, 2016

AD8198_ROD/PIPE-DEPTH: 7.4 meters

AD8198

AD8198	HISTORY	- Date	Condition	Report By
AD8198	HISTORY	- 1992	MONUMENTED	NGS
AD8198	HISTORY	- 20010926	GOOD	MOREKL
AD8198	HISTORY	- 20020421	GOOD	MAPTEC
AD8198	HISTORY	- 20021204	GOOD	USPSQD
AD8198	HISTORY	- 20040114	GOOD	USPSQD
AD8198	HISTORY	- 20040204	GOOD	FLDEP
AD8198	HISTORY	- 20050202	GOOD	USPSQD

AD8198 HISTORY - 20070722 GOOD FLDEP
AD8198 HISTORY - 20070905 GOOD WEIDEN
AD8198 HISTORY - 20160811 GOOD USPSQD

AD8198

AD8198 STATION DESCRIPTION

AD8198

AD8198'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992

AD8198'24.4 KM (15.15 MI) WESTERLY ALONG U.S. HIGHWAY 98 FROM THE JUNCTION
AD8198'OF INTERSTATE HIGHWAY 95 IN WEST PALM BEACH, ON THE EXTENDED CENTER
AD8198'OF A CANAL LEADING NORTH, 21.6 M (70.9 FT) NORTH OF THE CENTERLINE OF
AD8198'THE WESTBOUND LANES OF THE HIGHWAY, 0.9 M (3.0 FT) BELOW THE LEVEL OF
AD8198'THE HIGHWAY, 0.6 M (2.0 FT) EAST OF A CHAIN-LINK FENCE CORNER, 0.4 M
AD8198'(1.3 FT) SOUTH OF A WITNESS POST AND FENCE.

AD8198

AD8198 STATION RECOVERY (2001)

AD8198

AD8198'RECOVERY NOTE BY MORGAN AND EKLUND INC 2001 (MAB)

AD8198'RECOVERED AS DESCRIBED

AD8198

AD8198 STATION RECOVERY (2002)

AD8198

AD8198'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CP)

AD8198'RECOVERED AS DESCRIBED

AD8198'

AD8198'STATION RECOVERY (2002)

AD8198'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP)

AD8198'RECOVERED AS DESCRIBED.

AD8198

AD8198 STATION RECOVERY (2002)

AD8198

AD8198'RECOVERY NOTE BY US POWER SQUADRON 2002 (AAS)

AD8198'RECOVERED IN GOOD CONDITION.

AD8198

AD8198 STATION RECOVERY (2004)

AD8198

AD8198'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS)

AD8198'RECOVERED IN GOOD CONDITION.

AD8198

AD8198 STATION RECOVERY (2004)

AD8198

AD8198'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (JLM)

AD8198'THE MARK IS ABOUT 24.0 MI EAST OF BELLE GLADE, 15.0 MI WEST OF WEST
AD8198'PALM BEACH, 3.0 MI WEST OF LOXAHATCHEE, IN SECTION 35, TOWNSHIP 43
AD8198'SOUTH, RANGE 40 EAST.

AD8198'

AD8198'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 98, STATE ROAD
AD8198'80, (SOUTHERN BOULEVARD) AND U.S. HIGHWAY 441, STATE ROAD 7 ON THE
AD8198'SOUTHWEST SIDE OF WEST PALM BEACH, GO WEST ON U.S. HIGHWAY 441, 98,
AD8198'STATE ROAD 80 (SOUTHERN BOULEVARD) FOR 6.9 MI TO THE MARK ON THE
AD8198'RIGHT, ON THE EXTENDED CENTER OF A CANAL LEADING NORTH, A STAINLESS
AD8198'STEEL ROD DRIVEN INTO THE GROUND WITH A NGS LOGO CAP FLUSH WITH THE
AD8198'GROUND AND ABOUT 3.0 FT BELOW THE LEVEL OF THE WESTBOUND LANES OF THE
AD8198'U.S. HIGHWAY 441, 98, THE DATUM POINT IS RECESSED 0.2 FT BELOW THE
AD8198'LEVEL OF THE NGS LOGO CAP.

AD8198'

AD8198'LOCATED 156.7 FT EAST OF A POWER POLE, 99.0 FT WEST OF POWER POLE

AD8198'NUMBER 87, 70.9 FT NORTH OF THE CENTERLINE OF THE WESTBOUND LANES OF

AD8198'THE HIGHWAY, 29.0 FT SOUTHEAST OF A 20-INCH PALM TREE, 2.0 FT

AD8198'SOUTHEAST OF A METAL POST AND 1.3 FT SOUTH OF A CARSONITE WITNESS

AD8198'POST.

AD8198'

AD8198'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO CAP.

AD8198'
AD8198'NOTE A MAGNET WAS PLACED INSIDE OF THE NGS LOGO CAP.
AD8198
AD8198 STATION RECOVERY (2005)
AD8198
AD8198'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS)
AD8198'RECOVERED IN GOOD CONDITION.
AD8198
AD8198 STATION RECOVERY (2007)
AD8198
AD8198'RECOVERY NOTE BY FL DEPT OF ENV PRO 2007 (BPJ)
AD8198'RECOVERED AS DESCRIBED.
AD8198
AD8198 STATION RECOVERY (2007)
AD8198
AD8198'RECOVERY NOTE BY WEIDENER SURVEYING AND MAPPING 2007 (JF)
AD8198'RECOVERED IN GOOD CONDITION.
AD8198
AD8198 STATION RECOVERY (2016)
AD8198
AD8198'RECOVERY NOTE BY US POWER SQUADRON 2016 (PB)
AD8198'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:05

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5
1 National Geodetic Survey, Retrieval Date = AUGUST 15, 2018
DL7815 *****
DL7815 DESIGNATION - J 692
DL7815 PID - DL7815
DL7815 STATE/COUNTY- FL/PALM BEACH
DL7815 COUNTRY - US
DL7815 USGS QUAD - LOXAHATCHEE (1984)
DL7815
DL7815 *CURRENT SURVEY CONTROL
DL7815
DL7815* NAD 83(1986) POSITION- 26 41 58.7 (N) 080 21 51.0 (W) HD_HELD2
DL7815* [NAVD 88](#) ORTHO HEIGHT - 6.628 (meters) 21.75 (feet) ADJUSTED
DL7815
DL7815 GEOID HEIGHT - -25.630 (meters) GEOID12B
DL7815 DYNAMIC HEIGHT - 6.618 (meters) 21.71 (feet) COMP
DL7815 MODELED GRAVITY - 979,110.1 (mgal) NAVD 88
DL7815
DL7815 VERT ORDER - FIRST CLASS II
DL7815
DL7815.The horizontal coordinates were established by autonomous hand held GPS
DL7815.observations and have an estimated accuracy of +/- 10 meters.
DL7815.
DL7815.The orthometric height was determined by differential leveling and
DL7815.adjusted by the NATIONAL GEODETIC SURVEY
DL7815.in June 2010.
DL7815
DL7815.Significant digits in the geoid height do not necessarily reflect accuracy.
DL7815.GEOID12B height accuracy estimate available [here](#).
DL7815
DL7815.[Photographs](#) are available for this station.
DL7815
DL7815.The dynamic height is computed by dividing the NAVD 88
DL7815.geopotential number by the normal gravity value computed on the
DL7815.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL7815.degrees latitude (g = 980.6199 gals.).
DL7815
DL7815.The modeled gravity was interpolated from observed gravity values.
DL7815
DL7815;
DL7815;SPC FL E - North East Units Estimated Accuracy
DL7815; 262,283. 263,273. MT (+/- 10 meters HH2 GPS)
DL7815
DL7815_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6325153325(NAD 83)
DL7815
DL7815 SUPERSEDED SURVEY CONTROL
DL7815
DL7815.No superseded survey control is available for this station.
DL7815
DL7815_MARKER: F = FLANGE-ENCASED ROD
DL7815_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+))
DL7815_STAMPING: J 692 2007
DL7815_MARK LOGO: NGS
DL7815_PROJECTION: FLUSH

DL7815_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DL7815_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DL7815_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DL7815+SATELLITE: SATELLITE OBSERVATIONS - June 09, 2007
DL7815_ROD/PIPE-DEPTH: 5.5 meters

DL7815

HISTORY	- Date	Condition	Report By
HISTORY	- 20070609	MONUMENTED	FLDEP

DL7815

DL7815 STATION DESCRIPTION

DL7815

DL7815'DESCRIBED BY FL DEPT OF ENV PRO 2007

DL7815'THE MARK IS ABOUT 18.0 MI (29.0 KM) WEST OF WEST PALM BEACH, IN
DL7815'SECTION 29, TOWNSHIP 43 SOUTH, RANGE 40 EAST.

DL7815'

DL7815'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 7, STATE ROAD 80
DL7815'AND U.S. HIGHWAY 98 AND U.S. HIGHWAY 441 ON THE SOUTHWEST SIDE OF WEST
DL7815'PALM BEACH, GO WEST ON STATE ROAD 80 AND U.S. HIGHWAYS 98, 441
DL7815'(SOUTHERN BOULEVARD) FOR 10.1 MI (16.3 KM) TO THE WEST SIDE OF THE L-8
DL7815'CANAL BRIDGE AND A LEVEE ROAD ON THE RIGHT. TURN RIGHT ON L-8 LEVEE
DL7815'ROAD AND GO NORTH FOR 1.0 MI (1.6 KM) TO THE MARK ON THE RIGHT, A
DL7815'STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 18.0 FT (5.5 M)
DL7815'WITH AN NATIONAL GEODETIC SURVEY LOGO CAP FLUSH WITH THE GROUND AND
DL7815'ABOUT 1.0 FT (0.3 M) BELOW THE LEVEL OF L-8 LEVEE ROAD, THE DATUM
DL7815'POINT IS RECESSED 0.2 FT (0.1 M) BELOW THE LEVEL OF THE NATIONAL
DL7815'GEODETIC SURVEY LOGO CAP.

DL7815'

DL7815'LOCATED 15.0 FT (4.6 M) EAST OF THE APPROXIMATE CENTERLINE OF L-8
DL7815'LEVEE ROAD, 2.0 FT (0.6 M) EAST OF THE EAST EDGE OF THE L-8 LEVEE ROAD
DL7815'AND 1.7 FT (0.5 M) WEST OF A CARSONITE WITNESS POST.

DL7815'

DL7815'NOTE A MAGNET WAS PLACED INSIDE OF THE NATIONAL GEODETIC SURVEY LOGO
DL7815'CAP.

DL7815'

DL7815'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH (13 CM)
DL7815'NATIONAL GEODETIC SURVEY LOGO CAP.

*** retrieval complete.

Elapsed Time = 00:00:03

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12.5
1      National Geodetic Survey,  Retrieval Date = AUGUST 15, 2018
AD8199 *****
AD8199 DESIGNATION - K 413
AD8199 PID - AD8199
AD8199 STATE/COUNTY- FL/PALM BEACH
AD8199 COUNTRY - US
AD8199 USGS QUAD - LOXAHATCHEE (1984)
AD8199
AD8199 *CURRENT SURVEY CONTROL
AD8199
AD8199* NAD 83(2011) POSITION- 26 41 04.28189(N) 080 19 51.83135(W) ADJUSTED
AD8199* NAD 83(2011) ELLIP HT- -21.066 (meters) (06/27/12) ADJUSTED
AD8199* NAD 83(2011) EPOCH - 2010.00
AD8199* NAVD 88 ORTHO HEIGHT - 4.583 (meters) 15.04 (feet) ADJUSTED
AD8199
AD8199 GEOID HEIGHT - -25.654 (meters) GEOID12B
AD8199 NAD 83(2011) X - 957,788.362 (meters) COMP
AD8199 NAD 83(2011) Y - -5,621,642.980 (meters) COMP
AD8199 NAD 83(2011) Z - 2,847,017.265 (meters) COMP
AD8199 LAPLACE CORR - -1.99 (seconds) DEFLEC12B
AD8199 DYNAMIC HEIGHT - 4.576 (meters) 15.01 (feet) COMP
AD8199 MODELED GRAVITY - 979,110.8 (mgal) NAVD 88
AD8199
AD8199 VERT ORDER - FIRST CLASS II
AD8199
AD8199 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AD8199 Standards:
AD8199 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AD8199 Horiz Ellip SD_N SD_E SD_h (unitless)
AD8199 -----
AD8199 NETWORK 0.64 1.08 0.26 0.26 0.55 -0.02805078
AD8199 -----
AD8199 Click here for local accuracies and other accuracy information.
AD8199
AD8199
AD8199.The horizontal coordinates were established by GPS observations
AD8199.and adjusted by the National Geodetic Survey in June 2012.
AD8199
AD8199.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AD8199.been affixed to the stable North American tectonic plate. See
AD8199.NA2011 for more information.
AD8199
AD8199.The horizontal coordinates are valid at the epoch date displayed above
AD8199.which is a decimal equivalence of Year/Month/Day.
AD8199
AD8199.The orthometric height was determined by differential leveling and
AD8199.adjusted by the NATIONAL GEODETIC SURVEY
AD8199.in September 1992.
AD8199
AD8199.Significant digits in the geoid height do not necessarily reflect accuracy.
AD8199.GEOID12B height accuracy estimate available here.
AD8199
```


AD8199. [Photographs](#) are available for this station.

AD8199

AD8199. The X, Y, and Z were computed from the position and the ellipsoidal ht.

AD8199

AD8199. The Laplace correction was computed from DEFLEC12B derived deflections.

AD8199

AD8199. The ellipsoidal height was determined by GPS observations

AD8199. and is referenced to NAD 83.

AD8199

AD8199. The dynamic height is computed by dividing the NAVD 88

AD8199. geopotential number by the normal gravity value computed on the

AD8199. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AD8199. degrees latitude ($g = 980.6199$ gals.).

AD8199

AD8199. The modeled gravity was interpolated from observed gravity values.

AD8199

AD8199. The following values were computed from the NAD 83(2011) position.

AD8199

AD8199;		North	East	Units	Scale	Factor	Converg.
AD8199;SPC FL E	-	260,625.435	266,576.410	MT	0.99999588	+0 18	01.5
AD8199;SPC FL E	-	855,068.61	874,592.77	sFT	0.99999588	+0 18	01.5
AD8199;UTM 17	-	2,951,668.492	566,553.694	MT	0.99965468	+0 18	01.5
AD8199!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
AD8199!SPC FL E	-	1.00000331	x	0.99999588	=	0.99999919	
AD8199!UTM 17	-	1.00000331	x	0.99965468	=	0.99965799	

AD8199

AD8199_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6655351668(NAD 83)

AD8199

AD8199 SUPERSEDED SURVEY CONTROL

AD8199

AD8199	NAD 83(2007)-	26 41 04.28205(N)	080 19 51.83193(W)	AD(2002.00)	0
AD8199	ELLIP H (02/10/07)	-21.049 (m)		GP(2002.00)	
AD8199	NAD 83(1999)-	26 41 04.28231(N)	080 19 51.83212(W)	AD()	A
AD8199	ELLIP H (12/09/02)	-21.072 (m)		GP()	4 1
AD8199	NAVD 88	4.58 (m)	15.0 (f)	LEVELING	3
AD8199	NGVD 29 (09/01/92)	5.035 (m)	16.52 (f)	ADJUSTED	1 2

AD8199

AD8199. Superseded values are not recommended for survey control.

AD8199

AD8199. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AD8199. See file [dsdata.pdf](#) to determine how the superseded data were derived.

AD8199

AD8199_MARKER: F = FLANGE-ENCASED ROD

AD8199_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

AD8199_STAMPING: K 413 1992

AD8199_MARK LOGO: NGS

AD8199_PROJECTION: RECESSED 5 CENTIMETERS

AD8199_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

AD8199_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AD8199_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AD8199+SATELLITE: SATELLITE OBSERVATIONS - August 11, 2016

AD8199_ROD/PIPE-DEPTH: 5.7 meters

AD8199

AD8199	HISTORY	-	Date	Condition	Report By
AD8199	HISTORY	-	1992	MONUMENTED	NGS
AD8199	HISTORY	-	19950328	GOOD	SFLWMD
AD8199	HISTORY	-	20010926	GOOD	MOREKL
AD8199	HISTORY	-	20020226	GOOD	MAPTEC
AD8199	HISTORY	-	20020517	GOOD	MAPTEC
AD8199	HISTORY	-	20021204	GOOD	USPSQD
AD8199	HISTORY	-	20021207	GOOD	FLDEP

AD8199 HISTORY - 20040114 GOOD USPSQD
AD8199 HISTORY - 20040204 GOOD FLDEP
AD8199 HISTORY - 20050202 GOOD USPSQD
AD8199 HISTORY - 20070722 GOOD FLDEP
AD8199 HISTORY - 20071101 GOOD GCT
AD8199 HISTORY - 20160811 GOOD USPSQD

AD8199

AD8199 STATION DESCRIPTION

AD8199

AD8199'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992

AD8199'26.0 KM (16.15 MI) WESTERLY ALONG U.S. HIGHWAY 98 FROM THE JUNCTION
AD8199'OF INTERSTATE HIGHWAY 95 IN WEST PALM BEACH, 21.2 M (69.6 FT) NORTH
AD8199'OF THE CENTERLINE OF THE WESTBOUND LANES OF THE HIGHWAY, 1.5 M (4.9
AD8199'FT) WEST OF UTILITY POLE NUMBER 66320659802 WITH 2 GUY CABLES, 0.9 M
AD8199'(3.0 FT) BELOW THE LEVEL OF THE HIGHWAY, AND 0.4 M (1.3 FT) SOUTH OF
AD8199'A WITNESS POST. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH
AD8199'LOGO CAP.

AD8199

AD8199 STATION RECOVERY (1995)

AD8199

AD8199'RECOVERY NOTE BY S FL WATER MGMT DIST 1995 (PLH)

AD8199'RECOVERED AS DESCRIBED.

AD8199

AD8199 STATION RECOVERY (2001)

AD8199

AD8199'RECOVERY NOTE BY MORGAN AND EKLUND INC 2001 (MAB)

AD8199'RECOVERED AS DESCRIBED

AD8199

AD8199 STATION RECOVERY (2002)

AD8199

AD8199'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (RLT)

AD8199'RECOVERED AS DESCRIBED

AD8199

AD8199 STATION RECOVERY (2002)

AD8199

AD8199'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AD8199'STATION RECOVERY (2002)

AD8199'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)

AD8199'RECOVERED AS DESCRIBED.

AD8199

AD8199 STATION RECOVERY (2002)

AD8199

AD8199'RECOVERY NOTE BY US POWER SQUADRON 2002 (AAS)

AD8199'RECOVERED IN GOOD CONDITION.

AD8199

AD8199 STATION RECOVERY (2002)

AD8199

AD8199'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (BPJ)

AD8199'THE MARK IS ABOUT 16.5 MI WEST-SOUTHWEST OF WEST PALM BEACH, IN

AD8199'SECTION 35, TOWNSHIP 43

AD8199'SOUTH, RANGE 40 EAST.

AD8199'

AD8199'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441, U.S.

AD8199'HIGHWAY 98 AND STATE

AD8199'ROAD 7, ABOUT 8.8 MI WEST OF WEST PALM BEACH, GO WEST ON U.S. HIGHWAY

AD8199'441 AND U.S.

AD8199'HIGHWAY 98 FOR 3.5 MI TO THE INTERSECTION OF BIG BLUE TRACE ON THE

AD8199'LEFT AND F ROAD ON THE

AD8199'RIGHT, CONTINUE WEST ON U.S. HIGHWAY 441 AND U.S. HIGHWAY 98 FOR 4.45

AD8199'MI TO THE MARK ON

AD8199'THE RIGHT, A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 18.7

AD8199'FT WITH AN NGS LOGO

AD8199'CAP FLUSH WITH THE GROUND AND ABOUT 4.0 FT BELOW THE LEVEL OF U.S.
AD8199'HIGHWAY 441 AND U.S.
AD8199'HIGHWAY 98, THE DATUM POINT IS RECESSED 0.2 FT BELOW THE LEVEL OF THE
AD8199'NGS LOGO CAP.
AD8199'
AD8199'LOCATED 69.6 FT NORTH OF THE APPROXIMATE CENTERLINE OF U.S. HIGHWAY
AD8199'441 AND U.S. HIGHWAY
AD8199'98, 4.9 FT WEST OF POWER POLE NUMBER 66320-59802, 4.9 FT WEST OF A
AD8199'METAL WITNESS POST AND
AD8199'1.3 FT SOUTH-SOUTHWEST OF A CARSONITE WITNESS POST.
AD8199'
AD8199'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO CAP.
AD8199
AD8199 STATION RECOVERY (2004)
AD8199
AD8199'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS)
AD8199'RECOVERED IN GOOD CONDITION.
AD8199
AD8199 STATION RECOVERY (2004)
AD8199
AD8199'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (JLM)
AD8199'RECOVERED IN GOOD CONDITION.
AD8199
AD8199 STATION RECOVERY (2005)
AD8199
AD8199'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS)
AD8199'RECOVERED IN GOOD CONDITION.
AD8199
AD8199 STATION RECOVERY (2007)
AD8199
AD8199'RECOVERY NOTE BY FL DEPT OF ENV PRO 2007 (BPJ)
AD8199'RECOVERED AS DESCRIBED.
AD8199
AD8199 STATION RECOVERY (2007)
AD8199
AD8199'RECOVERY NOTE BY GUSTIN, COTHERN, AND TUCKER, I 2007 (HWW)
AD8199'RECOVERED IN GOOD CONDITION.
AD8199
AD8199 STATION RECOVERY (2016)
AD8199
AD8199'RECOVERY NOTE BY US POWER SQUADRON 2016 (PB)
AD8199'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12.5
1      National Geodetic Survey, Retrieval Date = AUGUST 15, 2018
DL7816 *****
DL7816 DESIGNATION - K 692
DL7816 PID - DL7816
DL7816 STATE/COUNTY- FL/PALM BEACH
DL7816 COUNTRY - US
DL7816 USGS QUAD - LOXAHATCHEE (1984)
DL7816
DL7816 *CURRENT SURVEY CONTROL
DL7816
DL7816* NAD 83(1986) POSITION- 26 42 50.7 (N) 080 21 49.9 (W) HD_HELD2
DL7816* NAVD 88 ORTHO HEIGHT - 6.576 (meters) 21.57 (feet) ADJUSTED
DL7816
DL7816 GEOID HEIGHT - -25.670 (meters) GEOID12B
DL7816 DYNAMIC HEIGHT - 6.566 (meters) 21.54 (feet) COMP
DL7816 MODELED GRAVITY - 979,110.2 (mgal) NAVD 88
DL7816
DL7816 VERT ORDER - FIRST CLASS II
DL7816
DL7816.The horizontal coordinates were established by autonomous hand held GPS
DL7816.observations and have an estimated accuracy of +/- 10 meters.
DL7816.
DL7816.The orthometric height was determined by differential leveling and
DL7816.adjusted by the NATIONAL GEODETIC SURVEY
DL7816.in June 2010.
DL7816
DL7816.Significant digits in the geoid height do not necessarily reflect accuracy.
DL7816.GEOID12B height accuracy estimate available here.
DL7816
DL7816.Photographs are available for this station.
DL7816
DL7816.The dynamic height is computed by dividing the NAVD 88
DL7816.geopotential number by the normal gravity value computed on the
DL7816.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL7816.degrees latitude (g = 980.6199 gals.).
DL7816
DL7816.The modeled gravity was interpolated from observed gravity values.
DL7816
DL7816; North East Units Estimated Accuracy
DL7816;SPC FL E - 263,884. 263,296. MT (+/- 10 meters HH2 GPS)
DL7816
DL7816_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6327454925(NAD 83)
DL7816
DL7816 SUPERSEDED SURVEY CONTROL
DL7816
DL7816.No superseded survey control is available for this station.
DL7816
DL7816_MARKER: F = FLANGE-ENCASED ROD
DL7816_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DL7816_STAMPING: K 692 2007
DL7816_MARK LOGO: NGS
DL7816_PROJECTION: FLUSH
```


DL7816_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DL7816_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DL7816_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DL7816+SATELLITE: SATELLITE OBSERVATIONS - June 09, 2007
DL7816_ROD/PIPE-DEPTH: 7.3 meters

DL7816

HISTORY	- Date	Condition	Report By
HISTORY	- 20070609	MONUMENTED	FLDEP

DL7816

DL7816 STATION DESCRIPTION

DL7816

DL7816'DESCRIBED BY FL DEPT OF ENV PRO 2007

DL7816'THE MARK IS ABOUT 18.0 MI (29.0 KM) WEST OF WEST PALM BEACH, IN
DL7816'SECTION 20, TOWNSHIP 43 SOUTH, RANGE 40 EAST.

DL7816'

DL7816'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 7, STATE ROAD 80
DL7816'AND U.S. HIGHWAY 98 AND U.S. HIGHWAY 441 ON THE SOUTHWEST SIDE OF WEST
DL7816'PALM BEACH, GO WEST ON STATE ROAD 80 AND U.S. HIGHWAYS 98, 441
DL7816'(SOUTHERN BOULEVARD) FOR 10.1 MI (16.3 KM) TO THE WEST SIDE OF THE L-8
DL7816'CANAL BRIDGE AND A LEVEE ROAD ON THE RIGHT. TURN RIGHT ON L-8 LEVEE
DL7816'ROAD AND GO NORTH FOR 2.0 MI (3.2 KM) TO THE MARK ON THE RIGHT, A
DL7816'STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 24.0 FT (7.3 M)
DL7816'WITH AN NATIONAL GEODETIC SURVEY LOGO CAP FLUSH WITH THE GROUND AND
DL7816'ABOUT 0.5 FT (0.2 M) BELOW THE LEVEL OF L-8 LEVEE ROAD, THE DATUM
DL7816'POINT IS RECESSED 0.3 FT (0.1 M) BELOW THE LEVEL OF THE NATIONAL
DL7816'GEODETIC SURVEY LOGO CAP.

DL7816'

DL7816'LOCATED 20.5 FT (6.2 M) EAST OF THE APPROXIMATE CENTERLINE OF L-8
DL7816'LEVEE ROAD, 2.5 FT (0.8 M) EAST OF THE EAST EDGE OF THE L-8 LEVEE ROAD
DL7816'AND 1.0 FT (0.3 M) WEST OF A CARSONITE WITNESS POST.

DL7816'

DL7816'NOTE A MAGNET WAS PLACED INSIDE OF THE NATIONAL GEODETIC SURVEY LOGO
DL7816'CAP.

DL7816'

DL7816'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH (13 CM)
DL7816'NATIONAL GEODETIC SURVEY LOGO CAP.

*** retrieval complete.

Elapsed Time = 00:00:03

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5
1 National Geodetic Survey, Retrieval Date = AUGUST 15, 2018
DL7817 *****
DL7817 DESIGNATION - L 692
DL7817 PID - DL7817
DL7817 STATE/COUNTY- FL/PALM BEACH
DL7817 COUNTRY - US
DL7817 USGS QUAD - LOXAHATCHEE (1984)
DL7817
DL7817 *CURRENT SURVEY CONTROL
DL7817
DL7817* NAD 83(1986) POSITION- 26 43 39.6 (N) 080 21 48.2 (W) HD_HELD2
DL7817* [NAVD 88](#) ORTHO HEIGHT - 4.786 (meters) 15.70 (feet) ADJUSTED
DL7817
DL7817 GEOID HEIGHT - -25.711 (meters) GEOID12B
DL7817 DYNAMIC HEIGHT - 4.779 (meters) 15.68 (feet) COMP
DL7817 MODELED GRAVITY - 979,110.3 (mgal) NAVD 88
DL7817
DL7817 VERT ORDER - FIRST CLASS II
DL7817
DL7817.The horizontal coordinates were established by autonomous hand held GPS
DL7817.observations and have an estimated accuracy of +/- 10 meters.
DL7817.
DL7817.The orthometric height was determined by differential leveling and
DL7817.adjusted by the NATIONAL GEODETIC SURVEY
DL7817.in June 2010.
DL7817
DL7817.Significant digits in the geoid height do not necessarily reflect accuracy.
DL7817.GEOID12B height accuracy estimate available [here](#).
DL7817
DL7817.[Photographs](#) are available for this station.
DL7817
DL7817.The dynamic height is computed by dividing the NAVD 88
DL7817.geopotential number by the normal gravity value computed on the
DL7817.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL7817.degrees latitude (g = 980.6199 gals.).
DL7817
DL7817.The modeled gravity was interpolated from observed gravity values.
DL7817
DL7817;
DL7817;SPC FL E - North East Units Estimated Accuracy
DL7817; 265,389. 263,335. MT (+/- 10 meters HH2 GPS)
DL7817
DL7817_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6331356430(NAD 83)
DL7817
DL7817 SUPERSEDED SURVEY CONTROL
DL7817
DL7817.No superseded survey control is available for this station.
DL7817
DL7817_MARKER: F = FLANGE-ENCASED ROD
DL7817_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DL7817_STAMPING: L 692 2007
DL7817_MARK LOGO: NGS
DL7817_PROJECTION: FLUSH

DL7817_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DL7817_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DL7817_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DL7817+SATELLITE: SATELLITE OBSERVATIONS - June 09, 2007
DL7817_ROD/PIPE-DEPTH: 3.0 meters

DL7817

HISTORY	- Date	Condition	Report By
HISTORY	- 20070609	MONUMENTED	FLDEP

DL7817

DL7817 STATION DESCRIPTION

DL7817

DL7817'DESCRIBED BY FL DEPT OF ENV PRO 2007

DL7817'THE MARK IS ABOUT 18.0 MI (29.0 KM) WEST OF WEST PALM BEACH, IN
DL7817'SECTION 17, TOWNSHIP 43 SOUTH, RANGE 40 EAST.

DL7817'

DL7817'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 7, STATE ROAD 80
DL7817'AND U.S. HIGHWAY 98 AND U.S. HIGHWAY 441 ON THE SOUTHWEST SIDE OF WEST
DL7817'PALM BEACH, GO WEST ON STATE ROAD 80 AND U.S. HIGHWAYS 98, 441
DL7817'(SOUTHERN BOULEVARD) FOR 10.1 MI (16.3 KM) TO THE WEST SIDE OF THE L-8
DL7817'CANAL BRIDGE AND A LEVEE ROAD ON THE RIGHT. TURN RIGHT ON L-8 LEVEE
DL7817'ROAD AND GO NORTH FOR 2.9 MI (4.7 KM) TO THE MARK ON THE RIGHT, A
DL7817'STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 10.0 FT (3.0 M)
DL7817'WITH AN NATIONAL GEODETIC SURVEY LOGO CAP FLUSH WITH THE GROUND AND
DL7817'ABOUT 5.0 FT (1.5 M) BELOW THE LEVEL OF L-8 LEVEE ROAD, THE DATUM
DL7817'POINT IS RECESSED 0.2 FT (0.1 M) BELOW THE LEVEL OF THE NATIONAL
DL7817'GEODETIC SURVEY LOGO CAP.

DL7817'

DL7817'LOCATED 83.0 FT (25.3 M) EAST OF THE APPROXIMATE CENTERLINE OF L-8
DL7817'LEVEE ROAD, 4.6 FT (1.4 M) SOUTH OF A CHAIN LINK FENCE CORNER POST,
DL7817'1.3 FT (0.4 M) WEST OF A CHAIN LINK FENCE AND 1.0 FT (0.3 M) WEST OF A
DL7817'CARSONITE WITNESS POST.

DL7817'

DL7817'NOTE A MAGNET WAS PLACED INSIDE OF THE NATIONAL GEODETIC SURVEY LOGO
DL7817'CAP.

DL7817'

DL7817'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH (13 CM)
DL7817'NATIONAL GEODETIC SURVEY LOGO CAP.

*** retrieval complete.

Elapsed Time = 00:00:04

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12.5
1      National Geodetic Survey, Retrieval Date = AUGUST 15, 2018
AD8201 *****
AD8201 DESIGNATION - M 413
AD8201 PID - AD8201
AD8201 STATE/COUNTY- FL/PALM BEACH
AD8201 COUNTRY - US
AD8201 USGS QUAD - LOXAHATCHEE (1984)
AD8201
AD8201 *CURRENT SURVEY CONTROL
AD8201
AD8201* NAD 83(1986) POSITION- 26 41 06.0 (N) 080 21 52.0 (W) HD_HELD2
AD8201* NAVD 88 ORTHO HEIGHT - 7.001 (meters) 22.97 (feet) ADJUSTED
AD8201
AD8201 GEOID HEIGHT - -25.592 (meters) GEOID12B
AD8201 DYNAMIC HEIGHT - 6.990 (meters) 22.93 (feet) COMP
AD8201 MODELED GRAVITY - 979,109.8 (mgal) NAVD 88
AD8201
AD8201 VERT ORDER - FIRST CLASS II
AD8201
AD8201.The horizontal coordinates were established by autonomous hand held GPS
AD8201.observations and have an estimated accuracy of +/- 10 meters.
AD8201.
AD8201.The orthometric height was determined by differential leveling and
AD8201.adjusted by the NATIONAL GEODETIC SURVEY
AD8201.in June 2010.
AD8201
AD8201.Significant digits in the geoid height do not necessarily reflect accuracy.
AD8201.GEOID12B height accuracy estimate available here.
AD8201
AD8201.Photographs are available for this station.
AD8201
AD8201.The dynamic height is computed by dividing the NAVD 88
AD8201.geopotential number by the normal gravity value computed on the
AD8201.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD8201.degrees latitude (g = 980.6199 gals.).
AD8201
AD8201.The modeled gravity was interpolated from observed gravity values.
AD8201
AD8201; North East Units Estimated Accuracy
AD8201;SPC FL E - 260,661. 263,254. MT (+/- 10 meters HH2 GPS)
AD8201
AD8201_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6323251704(NAD 83)
AD8201
AD8201 SUPERSEDED SURVEY CONTROL
AD8201
AD8201 NAVD 88 (09/04/92) 7.005 (m) 22.98 (f) SUPERSEDED 1 2
AD8201 NGVD 29 (09/01/92) 7.455 (m) 24.46 (f) ADJUSTED 1 2
AD8201
AD8201.Superseded values are not recommended for survey control.
AD8201
AD8201.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8201.See file dsdata.pdf to determine how the superseded data were derived.
```


AD8201

AD8201_MARKER: DV = VERTICAL CONTROL DISK

AD8201_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE

AD8201_SP_SET: BRIDGE ABUTMENT

AD8201_STAMPING: M 413 1992

AD8201_MARK LOGO: NGS

AD8201_MAGNETIC: N = NO MAGNETIC MATERIAL

AD8201_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AD8201_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AD8201+SATELLITE: SATELLITE OBSERVATIONS - July 22, 2007

AD8201

AD8201	HISTORY	- Date	Condition	Report By
AD8201	HISTORY	- 1992	MONUMENTED	NGS
AD8201	HISTORY	- 19950323	GOOD	SFLWMD
AD8201	HISTORY	- 20000205	GOOD	FLDEP
AD8201	HISTORY	- 20021204	GOOD	USPSQD
AD8201	HISTORY	- 20040114	GOOD	USPSQD
AD8201	HISTORY	- 20040204	GOOD	FLDEP
AD8201	HISTORY	- 20050202	GOOD	USPSQD
AD8201	HISTORY	- 20070722	GOOD	FLDEP

AD8201

AD8201

STATION DESCRIPTION

AD8201

AD8201'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992

AD8201'29.3 KM (18.20 MI) WESTERLY ALONG U.S. HIGHWAY 98 FROM THE JUNCTION
AD8201'OF INTERSTATE HIGHWAY 95 IN WEST PALM BEACH, SET VERTICALLY IN THE
AD8201'NORTH FACE OF THE WEST CONCRETE ABUTMENT OF WESTBOUND BRIDGE NUMBER
AD8201'930407 SPANNING A CANAL AND LEVEE NUMBER 8, 7.2 M (23.6 FT) NORTH OF
AD8201'THE CENTERLINE OF THE WESTBOUND LANES OF THE HIGHWAY, 1.7 M (5.6 FT)
AD8201'EAST OF THE WEST END OF THE ABUTMENT, AND 0.1 M (0.3 FT) BELOW THE
AD8201'LEVEL OF THE HIGHWAY.

AD8201

AD8201

STATION RECOVERY (1995)

AD8201

AD8201'RECOVERY NOTE BY S FL WATER MGMT DIST 1995 (PLH)

AD8201'THE MARK IS ABOUT 18.0 MI (29.0 KM) WEST OF WEST PALM BEACH IN SECTION
AD8201'32, TOWNSHIP 43 SOUTH, RANGE 40 EAST. TO REACH THE MARK FROM THE
AD8201'INTERSECTION OF STATE ROAD 80 (SOUTHERN BOULEVARD), STATE ROAD 7, U.S.
AD8201'HIGHWAY 441 AND U.S. HIGHWAY 98 ON THE SOUTHWEST SIDE OF WEST PALM
AD8201'BEACH, GO WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 2.8 MI
AD8201'(4.5 KM) TO THE JUNCTION OF FOREST HILL BOULEVARD ON THE LEFT,
AD8201'CONTINUE WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 3.95 MI
AD8201'(6.36 KM) TO THE JUNCTION OF SEMINOLE PRATT WHITNEY ROAD ON THE RIGHT,
AD8201'CONTINUE WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 3.4 MI
AD8201'(5.5 KM) TO BRIDGE NUMBER 930407 SPANNING A CANAL (LEVEE NUMBER 8) AND
AD8201'THE MARK ON THE RIGHT, SET VERTICALLY IN THE NORTH FACE OF THE WEST
AD8201'CONCRETE ABUTMENT OF THE WESTBOUND LANES. LOCATED 75.7 FT (23.1 M)
AD8201'SOUTHEAST OF AND ACROSS THE LEVEE FROM A WOOD POWER POLE, 23.0 FT (7.0
AD8201'M) NORTH OF THE CENTERLINE OF THE WESTBOUND LANE OF STATE ROAD 7, U.S.
AD8201'HIGHWAY 441, 98 AND STATE ROAD 80 AND 5.0 FT (1.5 M) EAST OF THE
AD8201'NORTHWEST CONCRETE ABUTMENT ON THE WEST END OF THE BRIDGE.

AD8201

AD8201

STATION RECOVERY (2000)

AD8201

AD8201'RECOVERY NOTE BY FL DEPT OF ENV PRO 2000 (JLM)

AD8201'THE MARK IS ABOUT 21.0 MI (33.8 KM) EAST OF BELLE GLADE, 18.0 MI (29.0
AD8201'KM) WEST OF PALM BEACH, IN SECTION 32, TOWNSHIP 43 SOUTH, RANGE 40
AD8201'EAST. TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 80,
AD8201'(SOUTHERN BOULEVARD) STATE ROAD 7, U.S. HIGHWAY 441 AND U.S. HIGHWAY
AD8201'98 ON THE SOUTHWEST SIDE OF WEST PALM BEACH, GO WEST ON U.S. HIGHWAY
AD8201'441, 98 AND STATE ROAD 80 (SOUTHERN BOULEVARD) FOR 10.1 MI (16.3 KM)
AD8201'TO THE WEST END OF BRIDGE NUMBER 930407 SPANNING A CANAL (LEVEE NUMBER

AD8201'8) AND THE MARK ON THE RIGHT, SET VERTICALLY IN THE NORTH FACE OF THE
AD8201'WEST CONCRETE BRIDGE ABUTMENT OF THE WESTBOUND LANES AND 0.3 FT (9.1
AD8201'CM) BELOW THE LEVEL OF THE HIGHWAY. LOCATED 23.0 FT (7.0 M) NORTH OF
AD8201'THE CENTERLINE OF THE WESTBOUND LANES OF THE HIGHWAY AND 5.0 FT (1.5
AD8201'M) EAST OF THE NORTHWEST CONCRETE BRIDGE ABUTMENT.

AD8201

AD8201 STATION RECOVERY (2002)

AD8201

AD8201'RECOVERY NOTE BY US POWER SQUADRON 2002 (AAS)

AD8201'RECOVERED IN GOOD CONDITION.

AD8201

AD8201 STATION RECOVERY (2004)

AD8201

AD8201'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS)

AD8201'RECOVERED IN GOOD CONDITION.

AD8201

AD8201 STATION RECOVERY (2004)

AD8201

AD8201'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (JLM)

AD8201'RECOVERED IN GOOD CONDITION, RECOVERED FOR TIE MARK.

AD8201

AD8201 STATION RECOVERY (2005)

AD8201

AD8201'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS)

AD8201'RECOVERED IN GOOD CONDITION.

AD8201

AD8201 STATION RECOVERY (2007)

AD8201

AD8201'RECOVERY NOTE BY FL DEPT OF ENV PRO 2007 (BPJ)

AD8201'RECOVERED AS DESCRIBED.

*** retrieval complete.

Elapsed Time = 00:00:04

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5
1 National Geodetic Survey, Retrieval Date = AUGUST 15, 2018
DL7818 *****
DL7818 DESIGNATION - M 692
DL7818 PID - DL7818
DL7818 STATE/COUNTY- FL/PALM BEACH
DL7818 COUNTRY - US
DL7818 USGS QUAD - LOXAHATCHEE (1984)
DL7818
DL7818 *CURRENT SURVEY CONTROL
DL7818
DL7818* NAD 83(1986) POSITION- 26 44 32.4 (N) 080 21 52.5 (W) HD_HELD2
DL7818* [NAVD 88](#) ORTHO HEIGHT - 7.227 (meters) 23.71 (feet) ADJUSTED
DL7818
DL7818 GEOID HEIGHT - -25.754 (meters) GEOID12B
DL7818 DYNAMIC HEIGHT - 7.216 (meters) 23.67 (feet) COMP
DL7818 MODELED GRAVITY - 979,110.2 (mgal) NAVD 88
DL7818
DL7818 VERT ORDER - FIRST CLASS II
DL7818
DL7818.The horizontal coordinates were established by autonomous hand held GPS
DL7818.observations and have an estimated accuracy of +/- 10 meters.
DL7818.
DL7818.The orthometric height was determined by differential leveling and
DL7818.adjusted by the NATIONAL GEODETIC SURVEY
DL7818.in June 2010.
DL7818
DL7818.Significant digits in the geoid height do not necessarily reflect accuracy.
DL7818.GEOID12B height accuracy estimate available [here](#).
DL7818
DL7818.[Photographs](#) are available for this station.
DL7818
DL7818.The dynamic height is computed by dividing the NAVD 88
DL7818.geopotential number by the normal gravity value computed on the
DL7818.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL7818.degrees latitude (g = 980.6199 gals.).
DL7818
DL7818.The modeled gravity was interpolated from observed gravity values.
DL7818
DL7818;
DL7818;SPC FL E - North East Units Estimated Accuracy
DL7818; 267,014. 263,208. MT (+/- 10 meters HH2 GPS)
DL7818
DL7818_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6318658054(NAD 83)
DL7818
DL7818 SUPERSEDED SURVEY CONTROL
DL7818
DL7818.No superseded survey control is available for this station.
DL7818
DL7818_MARKER: F = FLANGE-ENCASED ROD
DL7818_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.)
DL7818_STAMPING: M 692 2007
DL7818_MARK LOGO: NGS
DL7818_PROJECTION: FLUSH

DL7818_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DL7818_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DL7818_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DL7818+SATELLITE: SATELLITE OBSERVATIONS - June 09, 2007
DL7818_ROD/PIPE-DEPTH: 8.4 meters

DL7818

HISTORY	- Date	Condition	Report By
HISTORY	- 20070609	MONUMENTED	FLDEP

DL7818

DL7818 STATION DESCRIPTION

DL7818

DL7818'DESCRIBED BY FL DEPT OF ENV PRO 2007

DL7818'THE MARK IS ABOUT 18.1 MI (29.1 KM) WEST OF WEST PALM BEACH, IN

DL7818'SECTION 8, TOWNSHIP 43 SOUTH, RANGE 40 EAST.

DL7818'

DL7818'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 7, STATE ROAD 80

DL7818'AND U.S. HIGHWAY 98 AND U.S. HIGHWAY 441 ON THE SOUTHWEST SIDE OF WEST

DL7818'PALM BEACH, GO WEST ON STATE ROAD 80 AND U.S. HIGHWAYS 98, 441

DL7818'(SOUTHERN BOULEVARD) FOR 10.1 MI (16.3 KM) TO THE WEST SIDE OF THE L-8

DL7818'CANAL BRIDGE AND A LEVEE ROAD ON THE RIGHT. TURN RIGHT ON L-8 LEVEE

DL7818'ROAD AND GO NORTH FOR 3.8 MI (6.1 KM) TO A 45-DEGREE LEFT HAND TURN.

DL7818'TURN LEFT AND CONTINUE NORTHWEST ON L-8 LEVEE ROAD FOR 0.15 MI (0.2

DL7818'KM) TO THE MARK ON THE RIGHT, A STAINLESS STEEL ROD DRIVEN TO REFUSAL

DL7818'AT A DEPTH OF 27.7 FT (8.4 M) WITH AN NATIONAL GEODETIC SURVEY LOGO

DL7818'CAP FLUSH WITH THE GROUND AND ABOUT 0.5 FT (0.2 M) BELOW THE LEVEL OF

DL7818'L-8 LEVEE ROAD, THE DATUM POINT IS RECESSED 0.1 FT (0.0 M) BELOW THE

DL7818'LEVEL OF THE NATIONAL GEODETIC SURVEY LOGO CAP.

DL7818'

DL7818'LOCATED 12.0 FT (3.7 M) NORTHEAST OF THE APPROXIMATE CENTERLINE OF L-8

DL7818'LEVEE ROAD, 4.0 FT (1.2 M) NORTHEAST OF THE NORTHEAST EDGE OF THE L-8

DL7818'LEVEE ROAD AND 1.1 FT (0.3 M) SOUTHWEST OF A CARSONITE WITNESS POST.

DL7818'

DL7818'NOTE A MAGNET WAS PLACED INSIDE OF THE NATIONAL GEODETIC SURVEY LOGO

DL7818'CAP.

DL7818'

DL7818'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH (13 CM)

DL7818'NATIONAL GEODETIC SURVEY LOGO CAP.

*** retrieval complete.

Elapsed Time = 00:00:04

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.12.5
1      National Geodetic Survey, Retrieval Date = AUGUST 15, 2018
DL7819 *****
DL7819 DESIGNATION - N 692
DL7819 PID - DL7819
DL7819 STATE/COUNTY- FL/PALM BEACH
DL7819 COUNTRY - US
DL7819 USGS QUAD - WEST OF DELTA (1984)
DL7819
DL7819 *CURRENT SURVEY CONTROL
DL7819
DL7819* NAD 83(1986) POSITION- 26 45 10.6 (N) 080 22 25.4 (W) HD_HELD2
DL7819* NAVD 88 ORTHO HEIGHT - 7.308 (meters) 23.98 (feet) ADJUSTED
DL7819
DL7819 GEOID HEIGHT - -25.770 (meters) GEOID12B
DL7819 DYNAMIC HEIGHT - 7.297 (meters) 23.94 (feet) COMP
DL7819 MODELED GRAVITY - 979,109.9 (mgal) NAVD 88
DL7819
DL7819 VERT ORDER - FIRST CLASS II
DL7819
DL7819.The horizontal coordinates were established by autonomous hand held GPS
DL7819.observations and have an estimated accuracy of +/- 10 meters.
DL7819.
DL7819.The orthometric height was determined by differential leveling and
DL7819.adjusted by the NATIONAL GEODETIC SURVEY
DL7819.in June 2010.
DL7819
DL7819.Significant digits in the geoid height do not necessarily reflect accuracy.
DL7819.GEOID12B height accuracy estimate available here.
DL7819
DL7819.Photographs are available for this station.
DL7819
DL7819.The dynamic height is computed by dividing the NAVD 88
DL7819.geopotential number by the normal gravity value computed on the
DL7819.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL7819.degrees latitude (g = 980.6199 gals.).
DL7819
DL7819.The modeled gravity was interpolated from observed gravity values.
DL7819
DL7819; North East Units Estimated Accuracy
DL7819;SPC FL E - 268,185. 262,293. MT (+/- 10 meters HH2 GPS)
DL7819
DL7819_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6227259225(NAD 83)
DL7819
DL7819 SUPERSEDED SURVEY CONTROL
DL7819
DL7819.No superseded survey control is available for this station.
DL7819
DL7819_MARKER: F = FLANGE-ENCASED ROD
DL7819_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DL7819_STAMPING: N 692 2007
DL7819_MARK LOGO: NGS
DL7819_PROJECTION: FLUSH
```

DL7819_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DL7819_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DL7819_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
DL7819+SATELLITE: SATELLITE OBSERVATIONS - March 28, 2017
DL7819_ROD/PIPE-DEPTH: 4.9 meters

DL7819

DL7819	HISTORY	- Date	Condition	Report By
DL7819	HISTORY	- 20070607	MONUMENTED	FLDEP
DL7819	HISTORY	- 20120317	GOOD	INDIV
DL7819	HISTORY	- 20170328	GOOD	WANTGP

DL7819

DL7819 STATION DESCRIPTION

DL7819

DL7819'DESCRIBED BY FL DEPT OF ENV PRO 2007

DL7819'THE MARK IS ABOUT 18.7 MI (30.1 KM) WEST OF WEST PALM BEACH, IN
DL7819'SECTION 8, TOWNSHIP 43 SOUTH, RANGE 40 EAST.

DL7819'

DL7819'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 7, STATE ROAD 80
DL7819'AND U.S. HIGHWAY 98 AND U.S. HIGHWAY 441 ON THE SOUTHWEST SIDE OF WEST
DL7819'PALM BEACH, GO WEST ON STATE ROAD 80 AND U.S. HIGHWAYS 98, 441

DL7819'(SOUTHERN BOULEVARD) FOR 10.1 MI (16.3 KM) TO THE WEST SIDE OF THE L-8
DL7819'CANAL BRIDGE AND A LEVEE ROAD ON THE RIGHT. TURN RIGHT ON L-8 LEVEE
DL7819'ROAD AND GO NORTH FOR 3.8 MI (6.1 KM) TO A 45-DEGREE LEFT HAND TURN.

DL7819'TURN LEFT AND CONTINUE NORTHWEST ON L-8 LEVEE ROAD FOR 1.05 MI (1.7
DL7819'KM) TO THE JUNCTION OF A TRAIL NEAR A TURNOUT ON THE LEFT AND THE MARK

DL7819'ON THE LEFT, A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF
DL7819'16.0 FT (4.9 M) WITH AN NATIONAL GEODETIC SURVEY LOGO CAP FLUSH WITH
DL7819'THE GROUND AND LEVEL WITH L-8 LEVEE ROAD, THE DATUM POINT IS RECESSED
DL7819'0.1 FT (0.0 M) BELOW THE LEVEL OF THE NATIONAL GEODETIC SURVEY LOGO

DL7819'CAP.

DL7819'

DL7819'LOCATED 72.8 FT (22.2 M) NORTHEAST OF A CHAIN LINK FENCE, 25.0 FT (7.6
DL7819'M) SOUTHWEST OF THE APPROXIMATE CENTERLINE OF L-8 LEVEE ROAD, 16.0 FT
DL7819'(4.9 M) SOUTHWEST OF THE SOUTHWEST EDGE OF THE L-8 LEVEE ROAD AND 4.0
DL7819'FT (1.2 M) NORTHEAST OF A CARSONITE WITNESS POST.

DL7819'

DL7819'NOTE A MAGNET WAS PLACED INSIDE OF THE NATIONAL GEODETIC SURVEY LOGO
DL7819'CAP.

DL7819'

DL7819'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH (13 CM)

DL7819'NATIONAL GEODETIC SURVEY LOGO CAP.

DL7819

DL7819 STATION RECOVERY (2012)

DL7819

DL7819'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2012 (MR)

DL7819'RECOVERED IN GOOD CONDITION.

DL7819

DL7819 STATION RECOVERY (2017)

DL7819

DL7819'RECOVERY NOTE BY WANTMAN GROUP INC 2017 (MS)

DL7819'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:10

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12.5
1      National Geodetic Survey,  Retrieval Date = AUGUST 15, 2018
AD8621 *****
AD8621 DESIGNATION -  TUNA
AD8621 PID          -  AD8621
AD8621 STATE/COUNTY-  FL/PALM BEACH
AD8621 COUNTRY      -  US
AD8621 USGS QUAD    -  LOXAHATCHEE (1984)
AD8621
AD8621                      *CURRENT SURVEY CONTROL
AD8621
AD8621* NAD 83(2011) POSITION- 26 43 26.95376(N) 080 21 14.04340(W)  ADJUSTED
AD8621* NAD 83(2011) ELLIP HT-  -20.775 (meters)                (06/27/12)  ADJUSTED
AD8621* NAD 83(2011) EPOCH   - 2010.00
AD8621* NAVD 88 ORTHO HEIGHT -    5.0 (meters)                16. (feet) VERTCON
AD8621
AD8621 GEOID HEIGHT   -    -25.719 (meters)                    GEOID12B
AD8621 NAD 83(2011) X   -    955,217.034 (meters)              COMP
AD8621 NAD 83(2011) Y   -   -5,620,079.154 (meters)            COMP
AD8621 NAD 83(2011) Z   -    2,850,940.098 (meters)            COMP
AD8621 LAPLACE CORR    -    -2.00 (seconds)                    DEFLEC12B
AD8621
AD8621 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AD8621 Standards:
AD8621      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
AD8621      Horiz  Ellip              SD_N   SD_E   SD_h      (unitless)
AD8621 -----
AD8621 NETWORK    1.63   3.08              0.69   0.64   1.57      0.09522007
AD8621 -----
AD8621 Click here for local accuracies and other accuracy information.
AD8621
AD8621
AD8621.The horizontal coordinates were established by GPS observations
AD8621.and adjusted by the National Geodetic Survey in June 2012.
AD8621
AD8621.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AD8621.been affixed to the stable North American tectonic plate. See
AD8621.NA2011 for more information.
AD8621
AD8621.The horizontal coordinates are valid at the epoch date displayed above
AD8621.which is a decimal equivalence of Year/Month/Day.
AD8621
AD8621.The NAVD 88 height was computed by applying the VERTCON shift value to
AD8621.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
AD8621
AD8621.Significant digits in the geoid height do not necessarily reflect accuracy.
AD8621.GEOID12B height accuracy estimate available here.
AD8621
AD8621.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AD8621
AD8621.The Laplace correction was computed from DEFLEC12B derived deflections.
AD8621
AD8621.The ellipsoidal height was determined by GPS observations
```

AD8621.and is referenced to NAD 83.

AD8621

AD8621. The following values were computed from the NAD 83(2011) position.

AD8621

AD8621;		North	East	Units	Scale	Factor	Converg.
AD8621;SPC FL E	-	265,004.709	264,281.258	MT	0.99999217	+0 17	26.0
AD8621;SPC FL E	-	869,436.28	867,062.76	sFT	0.99999217	+0 17	26.0
AD8621;UTM 17	-	2,956,046.272	564,259.326	MT	0.99965098	+0 17	26.0

AD8621

AD8621! - Elev Factor x Scale Factor = Combined Factor

AD8621!SPC FL E - 1.00000326 x 0.99999217 = 0.99999543

AD8621!UTM 17 - 1.00000326 x 0.99965098 = 0.99965424

AD8621

AD8621_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6425956046(NAD 83)

AD8621

AD8621 SUPERSEDED SURVEY CONTROL

AD8621

AD8621	NAD 83(2007)-	26 43 26.95387(N)	080 21 14.04403(W)	AD(2002.00)	0
AD8621	ELLIP H (02/10/07)	-20.751 (m)		GP(2002.00)	
AD8621	NAD 83(1999)-	26 43 26.95371(N)	080 21 14.04463(W)	AD()	1
AD8621	ELLIP H (07/06/01)	-20.727 (m)		GP()	4 2
AD8621	NAD 83(1990)-	26 43 26.95265(N)	080 21 14.04379(W)	AD()	1
AD8621	ELLIP H (08/13/93)	-20.726 (m)		GP()	4 1
AD8621	NAD 83(1990)-	26 43 26.95288(N)	080 21 14.04264(W)	AD()	1
AD8621	ELLIP H (03/31/93)	-20.736 (m)		GP()	4 1
AD8621	NGVD 29 (03/31/93)	5.4 (m)	GEOID90 model used	GPS OBS	

AD8621

AD8621.Superseded values are not recommended for survey control.

AD8621

AD8621.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AD8621.See file [dsdata.pdf](#) to determine how the superseded data were derived.

AD8621

AD8621_MARKER: DD = SURVEY DISK

AD8621_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AD8621_STAMPING: TUNA

AD8621_MARK LOGO: FL-099

AD8621_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT

AD8621_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AD8621+STABILITY: SURFACE MOTION

AD8621_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AD8621+SATELLITE: SATELLITE OBSERVATIONS - August 10, 1991

AD8621

AD8621	HISTORY	- Date	Condition	Report By
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AD8621	HISTORY	- UNK	MONUMENTED	FL-099
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AD8621	HISTORY	- 19910810	GOOD	ADRGs
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AD8621	HISTORY	- 20021111	MARK NOT FOUND	USPSQD
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AD8621	HISTORY	- 20040114	MARK NOT FOUND	USPSQD
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AD8621	HISTORY	- 20050202	MARK NOT FOUND	USPSQD
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AD8621

AD8621 STATION DESCRIPTION

AD8621

AD8621'DESCRIBED BY ADR GEODETIC SERVICES 1991

AD8621'TO REACH THE STATION FROM THE INTERSECTION OF SOUTHERN BOULEVARD

AD8621'(STATE ROUTE 80, US ROUTE 98, US ROUTE 441 TO THE WEST) AND STATE

AD8621'ROUTE 7 (US ROUTE 441 TO THE SOUTH),GO WEST ON SOUTHERN BOULEVARD FOR

AD8621'7.5 MI (12.07 KM) TO LION COUNTRY SAFARI ROAD. TURN RIGHT AND GO

AD8621'NORTH ON LION COUNTRY SAFARI ROAD FOR 1.7 MI (2.74 KM) TO DOE DRIVE.

AD8621'TURN LEFT AND GO WEST ON DOE DRIVE FOR 0.5 MI (0.80 KM) , BEAR RIGHT

AD8621'AND CONTINUE NORTHWEST ON DOE DRIVE FOR 0.35 MI (0.56 KM) , BEAR

AD8621'RIGHT AND CONTINUE NORTH ON DOE DRIVE FOR 0.35 MI (0.56 KM) TO DEER

AD8621'RUN BOULEVARD. TURN LEFT AND GO WEST ON DEER RUN BOULEVARD FOR 1.3 MI

AD8621'(2.09 KM) TO DEER RUN TRAIL. TURN RIGHT AND GO 0.5 MI (0.80 KM) NORTH

AD8621'ON DEER RUN TRAIL TO THE END OF THE ROAD AND THE STATION 30 FEET
AD8621'SOUTH OF THE SOUTH EDGE OF A CANAL.
AD8621'THE STATION IS NORTHEAST 38.21 FT (11.65 M) FROM A PK AND WASHER IN
AD8621'THE NORTH FACE OF A 6 INCH CYPRESS TREE, NORTHWEST 68.21 FT
AD8621'(20.79 M) FROM A NAIL AND TIN TAB IN A CYPRESS TREE, AND NORTH 36.21
AD8621'FT (11.04 M) FROM A NAIL AND TIN TAB 3 FEET UP THE EAST SIDE OF A 20
AD8621'INCH CYPRESS TREE. THE STATION IS 1.8 FT (0.55 M) NORTH OF A PALM
AD8621'BEACH COUNTY SURVEY WITNESS SIGN AND POST.

AD8621

AD8621 STATION RECOVERY (2002)

AD8621

AD8621'RECOVERY NOTE BY US POWER SQUADRON 2002 (AAS)

AD8621'MARK NOT FOUND.

AD8621

AD8621 STATION RECOVERY (2004)

AD8621

AD8621'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS)

AD8621'MARK NOT FOUND.

AD8621

AD8621 STATION RECOVERY (2005)

AD8621

AD8621'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS)

AD8621'MARK NOT FOUND.

*** retrieval complete.

Elapsed Time = 00:00:05



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

SCADA RTU Station Name: L8FEB2L	DB Hydro Site Name: L8FEB2	Agency: SFWMD	Date of Field Work: 8/6/18
Party Chief: D FEREL	Field Book: 826	Page(s) 48	Prepared by: KEITH
SITE SPECIFIC DATA			
Site Benchmark: L8FEB2	Benchmark Elevation (NAVD88) 28.71'	Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29) +1.47'	
Reference Elevation(s) (NAVD88): 33.29'	Existing Brass Tag Elevation (Datum): N/A	Calibration Port Elevation(s) (NAVD88): N/A	
Ground Elevation (NAVD88): 29.60'		Pad Elevation (NAVD88): N/A	
GEOGRAPHIC DATA			
Section 29		Township 43 South	Range 40 East
Well or Benchmark	Latitude: 26°41'51.51"	Longitude: 80°21'55.14"	Source: RTK GPS Observations
	State Plane Coordinates	Northing (Y) = 859780.32	Easting (X) = 863384.76
Notes: NAVD88 – North American Vertical Datum of 1988 NGVD29 - National Geodetic Vertical Datum of 1929 Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.			

PICTURES

Overall Site (Looking Northerly)



Not to scale (esri product)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Overall
Looking Easterly (not to scale)



Looking Northerly Oblique 10.00' (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Looking Northerly Oblique 3.00' (not to scale)



Well Head Top View (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Well Head Top View (not to scale)



Benchmark Oblique 10.00' (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Benchmark Oblique 3.00' (not to scale)



Benchmark Top View (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

SCADA RTU Station Name: L8FEB2M		DB Hydro Site Name: L8FEB2	Agency: SFWMD	Date of Field Work: 8/6/18
Party Chief: D FEREL		Field Book: 826	Page(s) 48	Prepared by: KEITH
SITE SPECIFIC DATA				
Site Benchmark: L8FEB2		Benchmark Elevation (NAVD88) 28.71'	Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29) +1.47'	
Reference Elevation(s) (NAVD88): 33.42'		Existing Brass Tag Elevation (Datum): N/A	Calibration Port Elevation(s) (NAVD88): N/A	
Ground Elevation (NAVD88): 29.66'			Pad Elevation (NAVD88): N/A	
GEOGRAPHIC DATA				
Section 29		Township 43 South		Range 40 East
Well or Benchmark	Latitude: 26°41'51.46"		Longitude: 80°21'55.01"	Source: RTK GPS Observations
	State Plane Coordinates		Northing (Y) = 859775.49	Easting (X) = 863396.52

Notes:

NAVD88 – North American Vertical Datum of 1988

NGVD29- National Geodetic Vertical Datum of 1929

Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.

PICTURES

Overall Site (Looking Northerly)



Not to scale (esri product)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Overall
Looking Westerly (not to scale)



Looking Northerly Oblique 10.00' (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Looking Northerly Oblique 3.00' (not to scale)



Well Head Top View (not to scale)

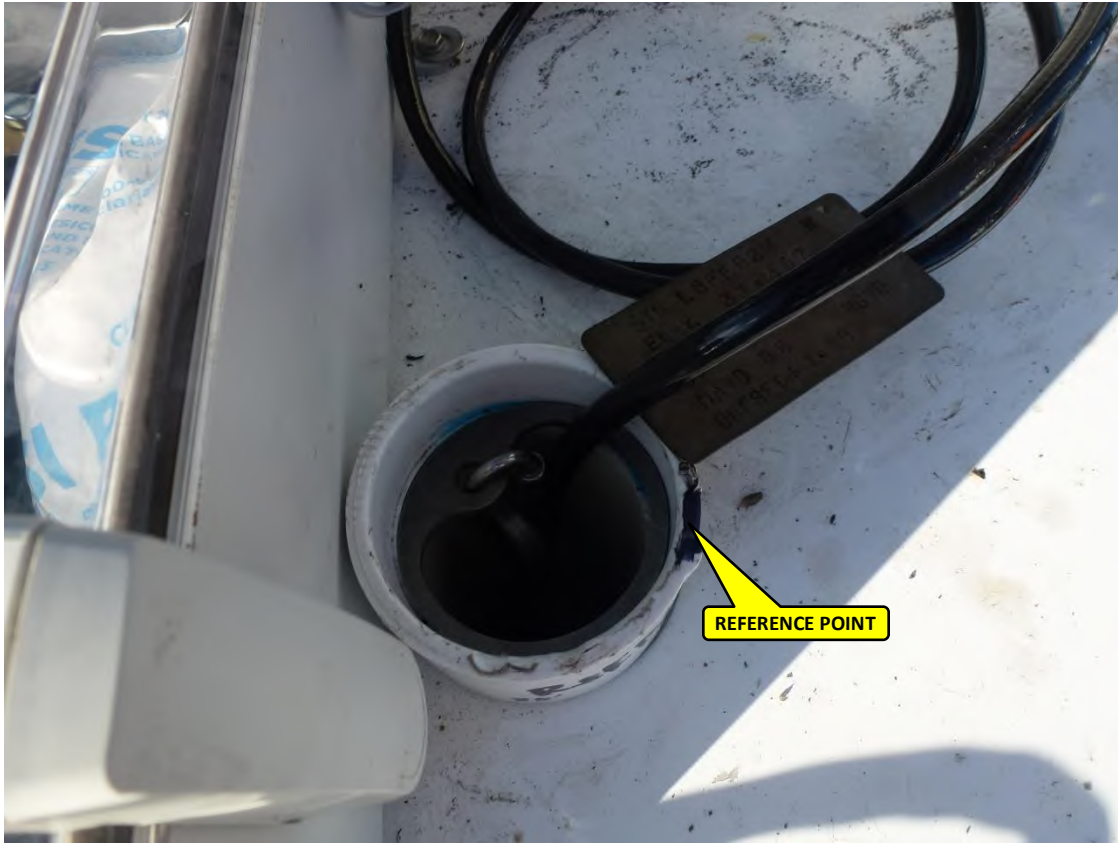




SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Well Head Top View (not to scale)



Benchmark Oblique 10.00' (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Benchmark Oblique 3.00' (not to scale)



Benchmark Top View (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

SCADA RTU Station Name: L8FEB2U		DB Hydro Site Name: L8FEB2		Agency: SFWM	Date of Field Work: 8/6/18
Party Chief: D FEREL		Field Book: 826	Page(s) 48		Prepared by: KEITH
SITE SPECIFIC DATA					
Site Benchmark: L8FEB2		Benchmark Elevation (NAVD88) 28.71'	Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29) +1.47'		
Reference Elevation(s) (NAVD88): 33.10'		Existing Brass Tag Elevation (Datum): N/A		Calibration Port Elevation(s) (NAVD88): N/A	
Ground Elevation (NAVD88): 29.43'			Pad Elevation (NAVD88): N/A		
GEOGRAPHIC DATA					
Section 29		Township 43 South		Range 40 East	
Well or Benchmark	Latitude: 26°41'51.40"		Longitude: 80°21'54.87"		Source: RTK GPS Observations
	State Plane Coordinates		Northing (Y) = 859769.52		Easting (X) = 863409.21

Notes:

NAVD88 – North American Vertical Datum of 1988

NGVD29- National Geodetic Vertical Datum of 1929

Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville FL.

PICTURES

Overall Site (Looking Northerly)



Not to scale (esri product)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Overall
Looking Westerly (not to scale)



Looking Northerly Oblique 10.00' (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Looking Northerly Oblique 3.00' (not to scale)



Well Head Top View (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Well Head Top View (not to scale)



Benchmark Oblique 10.00' (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Benchmark Oblique 3.00' (not to scale)



Benchmark Top View (not to scale)





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

DESIGNATION: L8FEB2	PROJECT: L-8 Reservoir
ESTABLISHED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT	SURVEYOR: Lee Powers
RECOVERED BY: KEITH	DATE: 8/6/18

GEOGRAPHIC POSITION

SECTION 29	TOWNSHIP 43 SOUTH	RANGE 40 EAST
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COUNTY: PALM BEACH	NAME OF QUADRANGLE: LOXAHATCHEE (1984)
	GEOGRAPHIC INDEX OF QUAD: 2203

HORIZONTAL DATUM: 1927 **(1983)** 2011 Other *(circle one)* ZONE **(E)** or W

VERTICAL DATUM: MSL 1929 **(1988)** 2022 Other *(circle one)*

VERTICAL ACCURACY: 1 2 **(3)**

STATE PLANE COORDINATE	(N) Y= 859777.67	(E) X= 863390.10	NAVD 88 EL. 28.71'
			NGVD 29 EL. 30.18'

CORPSCON 6.0.1 CONVERSION FACTOR (NAVD88 TO NGVD29): +1.47'
 (A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville FL.)
 ACTUAL NGS or (ngvd29.txt file)
 OPUS Ortho Height

LATITUDE: **26°41'51.48" (N)** LONGITUDE: **80°21'55.08" (W)** (Source) RTK GPS Observations

RECOVERY DATA

Stamping: **L8 FEB 2 BM 2014**

To Reach:
 From the intersection of the Turnpike entrance North bound and State Road 80 (Southern Blvd.) in West Palm Beach, proceed West on State Road 80 12.45 miles to the West side of South Florida Water Management District's (SFWMD's) Levee 8; Turn right and proceed North along the West side of SFWMD's Levee 8 shell rock roadway 0.8 of a mile; Turn left (West) and proceed down and up the levee 400 feet more or less to well site "L8 FEB 2" and station location.

Station is located 6 feet Southeast of the most Northwest well with a metal witness sign attached to the 8 inch well casing, 6 feet northwest of the center well of the three (3) wells, and 0.7 feet below ground.

The station is a 1-1/4 inch (inside diameter) galvanized pipe set in concrete with a SFWMD aluminum cap stamped "L8 FEB 2 BM 2014."

NOTABLE LAND MARKS: **N/A**

NGS SOURCE BENCHMARK: **J692 2007 (DL7815)**

FIELD BOOK **826 PAGE 48**

PICTURES

