



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

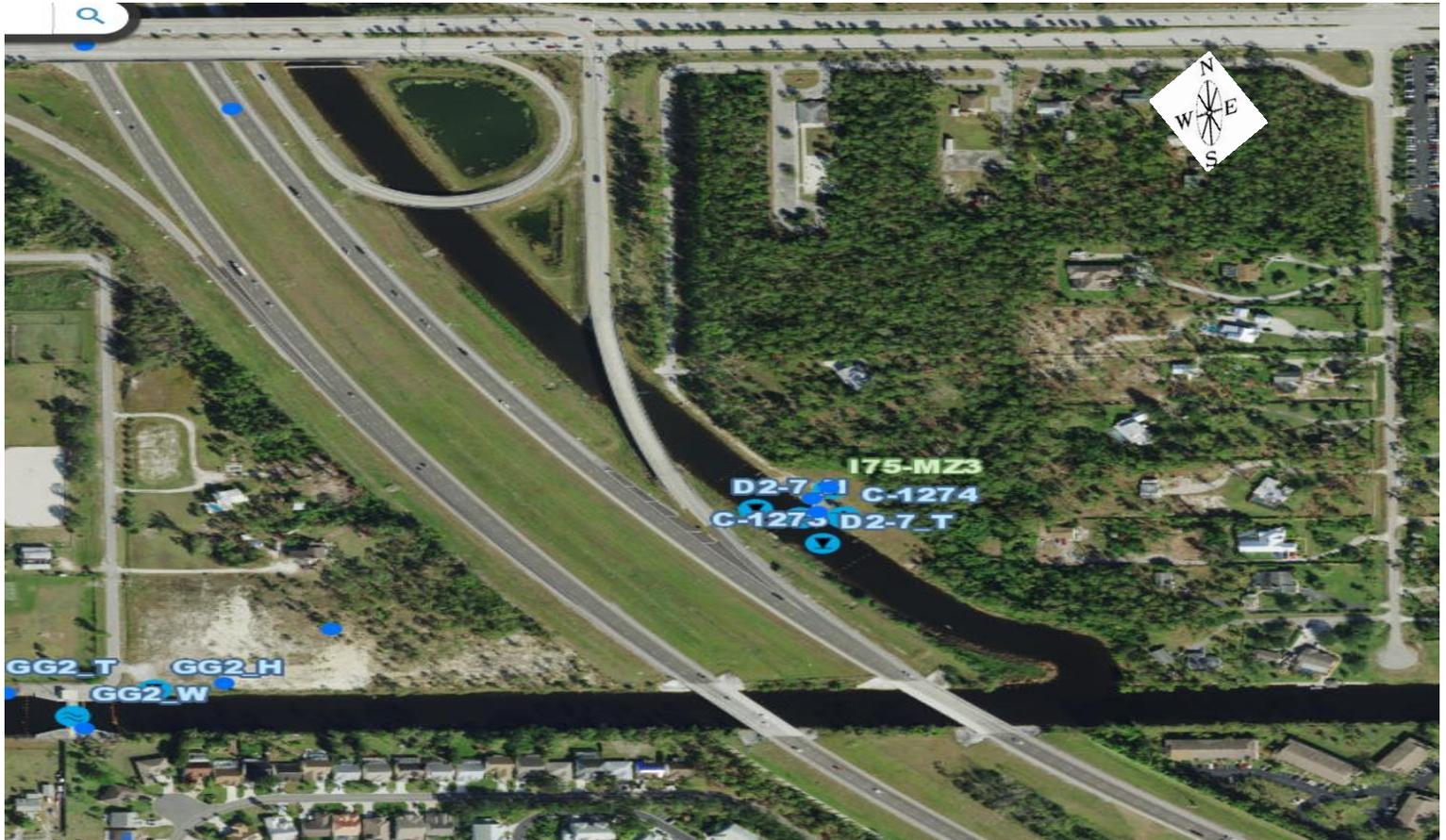
Rev. 1/16

DB Hydro Station Names:		DB Hydro Site Name:		Last Date of Field Work: 11/14/2019	
I 75-MZ1 I 75-MZ2 I 75-MZ3	I 75MZ	I 75-MZ			
Party Chief: Ebanks		Field Book: SCADA #13		Page(s) 45	
Site Benchmark(s): COLL 36		Benchmark Elevation (NAVD88) 9.74 ft		Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29) +1.29	
Reference Elevations (NAVD88) at:		Existing Tag Elevations		Datum) at:	
13.63ft (I 75-MZ1) 13.84ft (I 75-MZ2) 13.27ft (I 75-MZ3)					
Ground Elevation (NAVD88) at:			Pad Elevation (NAVD88):		
I 75-MZ 9.8ft (W) 9.5ft (E) 9.6ft (S) 9.9ft (N)			I 75-MZ 10.58 NW Corner 10.59 NE Corner 10.54 SE Corner 10.55 SW Corner		
Latitude: I 75-MZ 26°10'13.4"			Longitude: I 75-MZ 81°43'50.0 "		

Notes: **N/A** – Not applicable
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

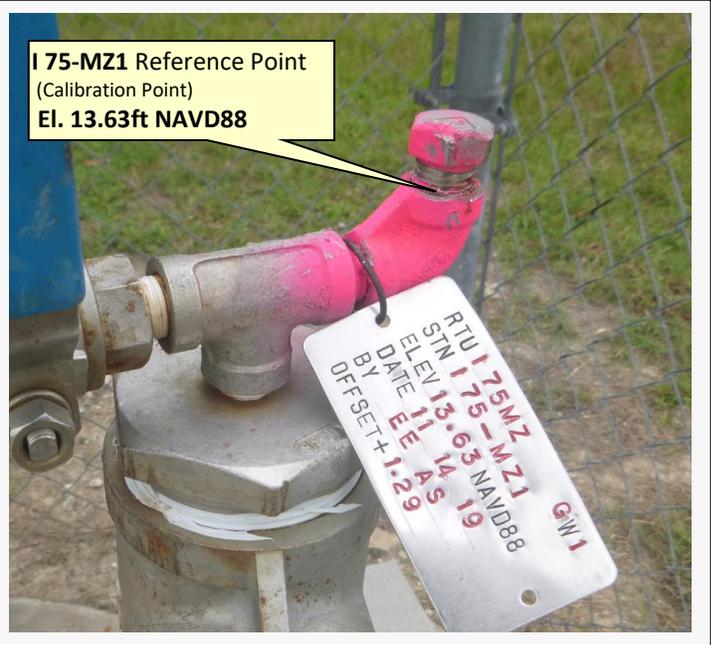




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I 75-MZ1 Well



I 75-MZ1 Reference Point
(Calibration Point)
El. 13.63ft NAVD88

RTU I 75MZ GW1
STN I 75-MZ1
ELEV 13.63 NAVD88
DATE 11 14 19
BY EE AS
OFFSET + 1.29

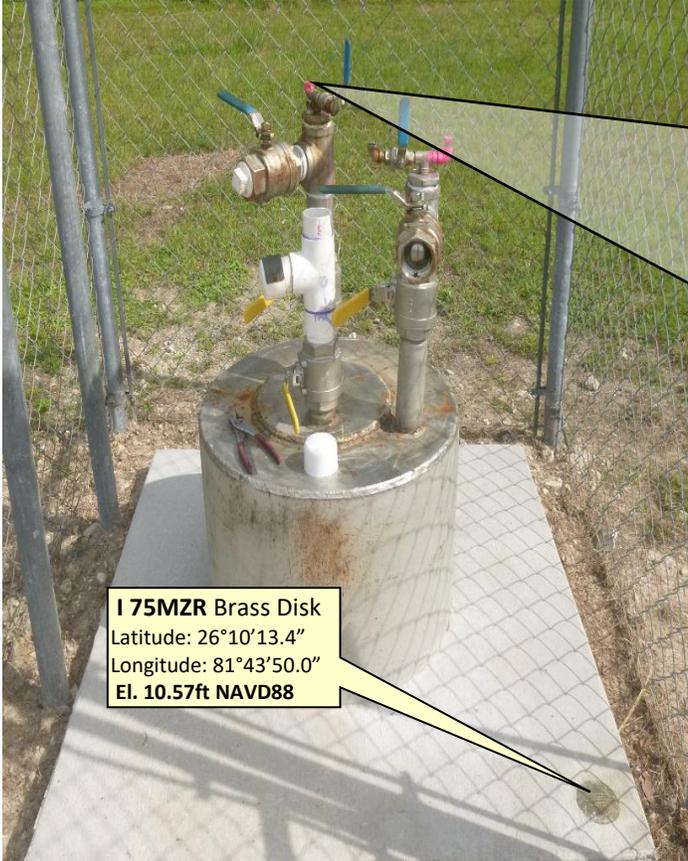
Brass Tag Close-up



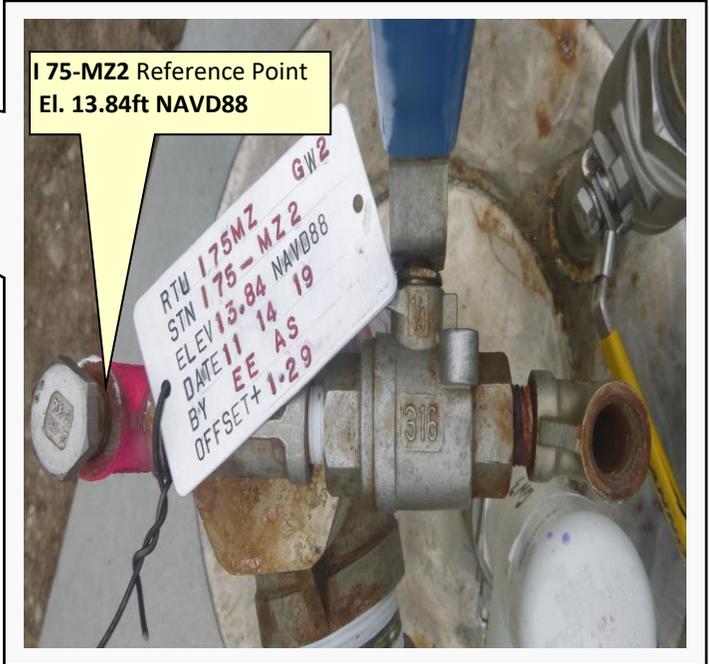
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I 75-MZ2 Well



I 75MZR Brass Disk
Latitude: 26°10'13.4"
Longitude: 81°43'50.0"
El. 10.57ft NAVD88



I 75-MZ2 Reference Point
El. 13.84ft NAVD88

RTU 175MZ GW2
STN 175-MZ2
ELEV 13.84 NAVD88
DATE 11 14 19
BY EE AS
OFFSET + 1.29

Brass Tag Close-up



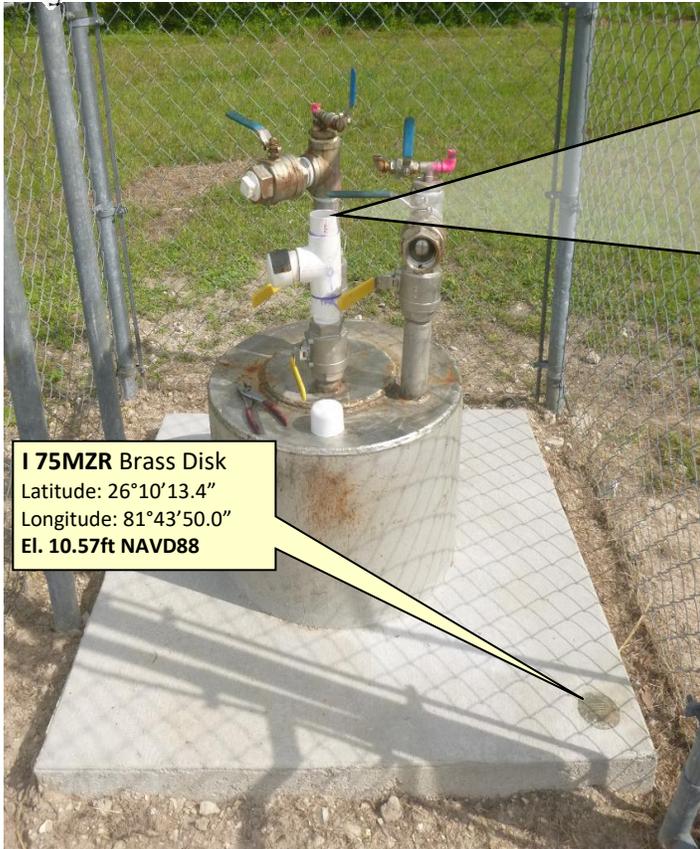
RTU 175MZ GW2
STN 175-MZ2
ELEV 13.84 NAVD88
DATE 11 14 19
BY EE AS
OFFSET + 1.29



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I 75-MZ3 Well



I 75MZR Brass Disk
Latitude: 26°10'13.4"
Longitude: 81°43'50.0"
El. 10.57ft NAVD88



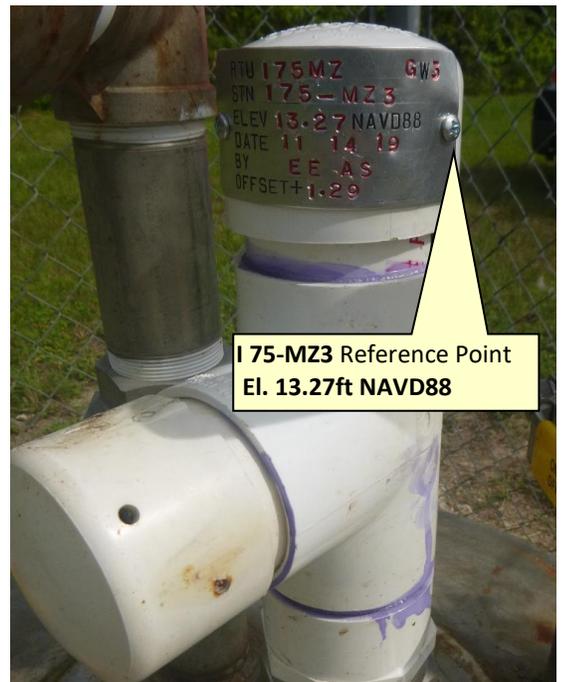
I 75-MZ3 Reference Point
El. 13.27ft NAVD88

Brass Tag Close-up



RTU 175MZ GW5
STN 175-MZ3
ELEV 13.27 NAVD88
DATE 11 14 19
BY EE AS
OFFSET +1.29

Brass Tag and Reference Point Close-up



I 75-MZ3 Reference Point
El. 13.27ft NAVD88



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SCADA P# 13 11-14-19
 SEC 29 TWP 49 R6E 26

EBANKS
 SCHAUER

ESTABLISH REFERENCE ELEVATION FOR WELLS AT
 I75MZR, COLLIER COUNTY.

STA	±	HI	=	ELEV.	REMARKS
Bm COLL 36 2003	5.41	15.15		9.74	(NAVD83)
Bm D2-7 1998			5.33	9.82	(9.81 NAVD83)
Bm I75MZR 2008			4.58	10.57	(OLD ELEV 10.52 NAVD83)
GW1 SENSOR			1.52	13.63	✓
GW1 WASHOUT			1.49	13.66	
GW2 SENSOR			1.31	13.84	
GW2 WASHOUT			1.31	13.84	
GW3			1.88	13.27	
CONC PAD NE			4.56	10.59	} 10.56
CONC PAD SE			4.61	10.54	
CONC PAD SW			4.60	10.55	
CONC PAD NW			4.57	10.58	
GROUND N			5.2	9.95	} 9.7
GROUND E			5.6	9.55	
GROUND S			5.5	9.65	
GROUND W			5.3	9.85	
Bm I75MZR	4.35	14.92		10.57	
Bm D2-7			5.11	9.81	✓ (9.81, 88)
Bm COLL 36 2003			5.19	9.73	✓ (9.74, 86)





South Florida Water Management District Benchmark Datasheet

Designation: <u>175MZR</u>	Project Name: <u>175MZ Floridan Well</u>	Type: <u>V</u>	State Plane Zone: <u>FL East</u>
Stamping: <u>175MZR</u>	Field Book Name: <u>SCADA #13</u>	Field Book Page: <u>45</u>	
Established By: <u>SFWMD</u>	Recovered By: _____	Recovery Date: _____	
Surveyor: <u>EBANKS</u>	Established Date: <u>11/14/19</u>	Status: <u>Good</u>	

GEOGRAPHIC POSITION INFORMATION

Section: <u>29</u>	Township: <u>49 SOUTH</u>	Range: <u>26 EAST</u>
County: <u>COLLIER</u>	Quadrangle: <u>BELLE MEADE NW</u>	Quad Index: _____
NAD83 Adj. Year: _____	Vertical Datum: <u>NAVD1988</u>	Horizontal Datum: <u>NAD1983</u>
NAVD88 Elevation (feet): <u>10.57</u>	NGVD29 Elevation (feet): _____	2022 Elevation: _____
NAVD88 Class: _____	NGVD29 Class: _____	Other Elevation: _____
NAVD88 Order: <u>3</u>	NGVD29 Order: _____	Other Elevation Type: _____

CORPSCON 6.0.1 CONVERSION FACTOR (NAVD88 TO NGVD29): (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.)

Vertical Datum Offset: + <u>1.29</u>	Actual NGS Elevation or ngvd29.txt file: _____	OPUS Ortho Height: _____
Northing (Y) (feet): _____	Easting (X) (feet): _____	Source of Latitude & Longitude: _____
Latitude: <u>26</u>	<u>10</u>	<u>13.4</u>
DD°	MM'	SS"
Longitude (Decimal Degrees): <u>26.17038889</u>	Longitude (Decimal Degrees): <u>-81.73055556</u>	

RECOVERY DATA

How to Reach: **From the intersection of I-75 and Golden Gate Parkway. Go East on Golden Gate Parkway to SW 60th Ave. Make Right (South) on SW 60th Ave then make Right (West) on SW 62nd St. (Parallel to Golden Gate Pky). Continue West on SW 62nd St. to Dead End and SFWMD Gate. Enter Gate and Continue South along Canal (Eastside) to Site located at I-75-1 Structure. Mark is set on Floridan Well Pad (SW Corner).**

Description/Notes:

Notable Landmarks:
Other Source Benchmarks:

PICTURES

Aerial View of Overall Site



PICTURES

Site Sketch



	COLL36
DESIGNATION	
BENCHMARK_STAMP	COLL-36 2003 JAX DIST SFWMD
BENCHMARK_STATUS	GOOD
NAVD_ELEV	9.74
NAVD_CLASS	
NAVD_ORDER	3rd Order
NGVD_ELEV	11.05
NGVD_CLASS	
NGVD_ORDER	3rd Order
NAD83_ADJUSTMENT_YEAR	
LONG_DD_83	-81.73
LAT_DD_83	26.17
NAD83_YCOORD	668213.45
NAD83_XCOORD	416540.10
NAD83_ORDER	
NAD27_XCOORD	
NAD27_YCOORD	
NAD27_ORDER	
FIELD_BOOK_PAGES	50
HOW_TO_REACH	<p>***** RECOVERY NOTE *****</p> <p>3/18/2008 COLLINS COONER ASSOCIATES FIELD BOOK 230 PAGE18 FOUND 3 1/2-INCH BRASS DISK CORPS OF ENGINEERS STAMPED " COLL-36 2003 JAX DIST SFWMD W CENTER, IN CENTER OF HEADWALL EAST SIDE OF CANAL EL. 11.05 NGVD 1929 (25-JUN-08 HJE).</p> <p>3/11/2008 FOUTY COONER ASSOCIATES FIELD BOOK 228 PAGE 37 FOUND 3-INCH BRASS DISK US ARMY CORPS OF ENGINEERS STAMPED COLL-36 2003 EL. 11.05 NGVD 1929, E;/ 9.74 (NAVD 88) (26-JUN-08 HJE).</p> <p>*****</p> <p>TO REACH FROM THE INTERSECTION OF SANTA BARBARA BOULEVARD AND C.R.886 (GOLDEN GATE PARKWAY) IN GOLDEN GATE; GO WEST ALONG C.R.886, 0.75 OF A MILE TO THE INTERSECTION WITH 62ND STREET SW; GO SOUTH ON 62ND STREET SW, 0.2 MILE TO A DEAD END AND A STEEL GATE ON THE SOUTH SIDE OF THE ROAD; GO SOUTH 370 FEET, TO A CHAIN LINK FENCE ENCLOSURE AND CONCRETE WEIR D2-7 AND THE MARK.</p> <p>"COLL-36" IS A STANDARD U.S. ARMY CORPS OF ENGINEERS BRASS DISC, STAMPED COLL-36 2003 JAX DIST SFWMD. SET IN THE EAST SIDE OF A WEIR, 6' SOUTH OF THE CATWALK.</p>
DESCRIPTION	
PROJECT_NAME	I75 WEIR 1
ESTABLISHED_BY	
RECOVERED_BY	
SURVEYOR	
ESTABLISHED_DATE	12/31/2002
STATEPLANE_ZONE	
HORIZONTAL_DATUM	NAD83
VERTICAL_DATUM	NGVD/NAVD
OTHER_ELEVATION	
OTHER_ELEV_TYPE	
VERTICAL_DATUM_OFFSET	
FIELD_BOOK_NAME	516-3
NGS_SOURCE_PIDS	

SFWMD Vertical Control: Vertical

TYPE	Vertical
DESIGNATION	D27
BENCHMARK_STAMP	BM D2-7 1998
BENCHMARK_STATUS	GOOD
NAVD_ELEV	9.81
NAVD_CLASS	
NAVD_ORDER	3rd Order
NGVD_ELEV	11.13
NGVD_CLASS	
NGVD_ORDER	3rd Order
NAD83_ADJUSTMENT_YEAR	
LONG_DD_83	-81.73
LAT_DD_83	26.17
NAD83_YCOORD	668253.40
NAD83_XCOORD	416529.56
NAD83_ORDER	
NAD27_XCOORD	
NAD27_YCOORD	
NAD27_ORDER	
FIELD_BOOK_PAGES	56
HOW_TO_REACH	
DESCRIPTION	<p>SUPERSEDED EL. 11.105 NGVD 1929 (3/11/07 HJE)</p> <p>***** RECOVERY NOTE *****</p> <p>3/18/2008 COLLINS COONER ASSOCIATES FIELD BOOK 230 PAGE18 FOUND 2-INCH ALUMINUM DISK SFWMD STAMPED "BM D2-7 1998 IN EAST END OF NORTH WINGWALL EL. 11.13 NGVD 1929 (25-JUN-08 HJE) 3/11/2008 FOUTY COONER ASSOCIATES FIELD BOOK 228 PAGE 37 FOUND 3-INCH ALUMINUM DISK STAMPED BM DZ-7 1998 EL. 11.13 NGVD 1929 (26-JUN-08 HJE) MAR 2003 CONSUL-TECH FOUND D-27 1998 A 2-INCH ALUMINUM DISK IN THE NORTH SIDE OF THE CONCRETE WINGWALL EL. 11.106 NGVD 29 , FROM SFWMD BENCHMARK DATA BASE. ESTABLISED EL 9.81 NAVD 88 , 11.13 NGVD 29 SELL BM COLL-36.</p> <p>*****</p> <p>TO REACH: FROM THE JUNCTION OF STATE ROAD 31 (AIRPORT ROAD) AND GOLDEN GATE PARKWAY , GO EAST ON GOLDEN GATE PARKWAY APPROXIMATELY 2.1 MILE STATION LOCATION.</p> <p>STATION IS A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) ALUMINUM CAP STAMPED "BM D2-7 1998", SET IN CONCRETE ON THE NORTHEAST WING M21,M22&M23 WELL DATA EL. 11.765 NGVD 1929 - TBM A BOX-CUT IN TOP OF CONCRETE PAD AT THE WEST BASE OF WELL I-75 M21,M22 & M23</p>
PROJECT_NAME	I75 WEIR 1
ESTABLISHED_BY	
RECOVERED_BY	
SURVEYOR	
ESTABLISHED_DATE	12/21/007
Zoom to	