



SURVEYOR'S REPORT

**Specific Purpose Survey of the
United States Geological Survey
Recorder Well G-1221
in
Broward County, Florida**

Prepared for:

South Florida Water Management District

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Prepared by:

William Donley, PSM
Florida Professional Surveyor and Mapper
License Number 5381
State of Florida

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131 West Kaley Street, Orlando, FL. 32806
Tel (321) 354-9826

Field Date: September 27, 2019
Report Date: December 1, 2019, 2019
PO NO: 9500008146

PROJECT VERTICAL DATUM

The project vertical datum is the North American Vertical Datum (NAVD) of 1988.

To convert the NAVD 88 elevation to the National Geodetic Vertical Datum of 1929 at station **G-1221 (G1221 2019)**, add 1.60'. These values are based on Corpscon 6.0.1 a US. 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 US. Army Corps of Engineers South Atlantic Division, Jacksonville FL.

PROJECT HORIZONTAL DATUM

All horizontal data shall be collected in and based on the North American Datum of 1983, 2011 adjustment (NAD 83/11). Horizontal coordinate control shall be established from existing National Geodetic Survey (NGS) 2nd Order control or higher in the area by using GPS, RTK GPS, network RTK GPS, or OPUS derived solutions.

LEVELING METHODS (Site Benchmark)

NOTE: There were no NGS benchmarks readily available in the area to level through. Alternate methods of vertical datum were acquired per conversations with Tom Whidden and SFWMD and shown below under GPS METHODS.

GPS METHODS (Site Benchmark vertical datum)

If no control is found, SFWMD advised the surveyor to then occupy the newly set mark with the base receiver set to continuously log for 4-hour and a check shot to another NGS mark with RTK and if the check is within 0.05' then no further survey is required.

GPS METHODS (Horizontal position of site benchmark)

Latitude and Longitude for Benchmark G-1221 (G1221 2019) were established by observing a 3-minute session of GPS data on October 21, 2019 using a Trimble R-8-S and The Florida Permanent Reference Network (FPRN). The FPRN network consists of nearly 100 Continuously Operating Reference Stations (CORS) located throughout Florida.

EQUIPMENT USED

- Trimble GPS unit SPS 985 Serial #: 5609F56781
- Spectra 80 unit Serial #: N/A

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LEVELING METHODS (Site: ground elevation-well monitoring point- USGS benchmarks)

A level loop was run from the previously established Site Benchmark G-1221 (G1221 2019), through the ground shot north of the well enclosure (ground elevation), through the well monitoring point, and back to the Site Benchmark. The measurements were collected using an Automatic Level and were hand written in Dewberry Engineering, Inc. Field Book S.F.W.M.D. #1, Pages 22-24, dated September 20th, 24th, and 27th, 2019. Additional data was manually recorded.

GPS METHODS (Horizontal position of Well G-1260 monitoring point & USGS Benchmarks)

Latitude and Longitude for Well G-1221 monitoring point (Top of enclosure base at protruding corner over top of well opening) were established by observing a 3-minute session of GPS data on September 20, 2019 using a Spectra SP-80 and The Florida Permanent Reference Network (FPRN). The FPRN network consists of nearly 100 Continuously Operating Reference Stations (CORS) located throughout Florida.


EQUIPMENT USED

- Spectra SP-80 Rover Serial #: 1165
- Topcon AT-G2 Serial #: 1439

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VERTICAL CONTROL POINT

The Vertical Control point utilized and set as part of this survey is the:

NGS Benchmark "10.462" (AD5781)						
26° 05' 40.62" (N)	80° 13' 44.14" (W)	Published	8.93 ft.	(NAVD88)	2.72 m	Published
			<p>1.9 MI NORTH FROM DAVIE. ABOUT 1.9 MILES NORTH OF DAVIE CITY HALL. FROM THE INTERSECTION OF STATE ROAD 84 AND U.S. 441 PROCEED 1.8 MILES NORTHWEST ALONG STATE ROAD 84 TO THE MARK. THE MARK IS LOCATED 765 FEET WEST OF THE PROJECTED CENTERLINE OF DAVIE ROAD AT THE NORTH NEW RIVER CANAL LOCK NUMBER 1. THE MARK IS 130 FEET NORTH OF THE NORTH EDGE OF PAVEMENT OF THE WESTBOUND LANES OF STATE ROAD 84. THE MARK IS A U.S. CORPS OF ENGINEERS DISK. SET IN BOAT LOCK WALL</p> <p>STAMPING: 10.462 MSL 1939</p>			

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BM: G-1221 (Existing on site benchmark set by Dewberry Engineering, Inc.)

26° 05' 8.45" (N)	80° 13' 45.73" (W)	6.39 ft.	(NAVD88)	1.95 m	Level run
NAD_83(2011)		7.99 ft.	(NGVD29)	2.44 m	Converted



1.60 ft. (conversion factor)	Corpscon 6.0.1
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SET IN 6" CONCRETE CURB AT THE SOUTHERLY EDGE OF SIDEWALK, IMMEDIATELY EAST OF TRAFFIC SIGNAL CABINET;

LOCATED: AT SW CORNER OF INTERSECTION OF DAVIE ROAD AND NOVA DRIVE

Field Book W210, Page 54

G1221

G1221
 01:00 PM 10/11/19
 Log 4hrs + 10.46m
 → 10.46m

* DURING STATIC LOGGING SESSION
 TRIMBLE GPS 885 ON 2 METERS ROD
 WAS USED TO CHECK INTO TUGS
 CONTROL POINT **10.462** AD578

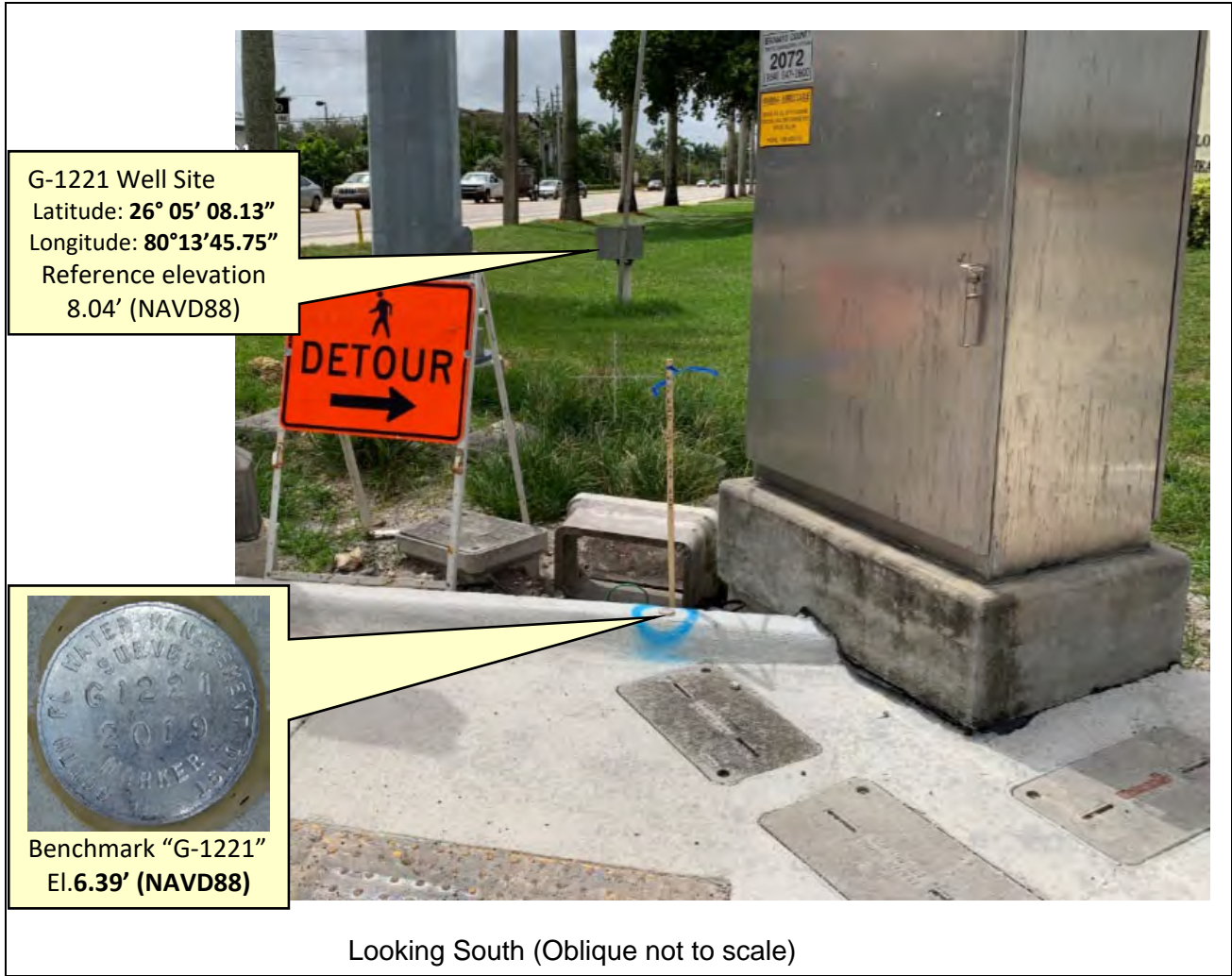
PUBLISHED ELEV. **8.93**
 OBSERVED: **8.97**
ΔVE 0.04

W210/54

BLACK MARKER

PROJECT RESULTS

Overall Site



SURVEYOR'S REPORT

Tabular Form

Reference and Ground Elevations: NAVD88			
Well	Ground Elevation	Reference Elevation	Comments
G-1221	5.60 ft.	8.04 ft.	Top of enclosure base at protruding point
Offset to NGVD29: +1.60' (See Project Vertical Datum Notes in Page: 4)			
Well diameter		Casing material	DTW
6" PVC		PVC	-6.97 ft. (9/20/19 at 12:01 PM)

Source & Site Benchmark	NAVD88	NGVD29 (Published)	NGVD29 (Corpscon)
NGS "10.462" (AD5781)	8.93 ft. (Published)	10.53 ft.	
BM G1221 (SFWMD)	6.39 ft. (Published)		7.99 ft.

Well Photos and Diagrams (Continued)

76° N84W 4907mils (True)
4.7°
5°
G-1221

Reference Point
El. 8.04' (NAVD88)

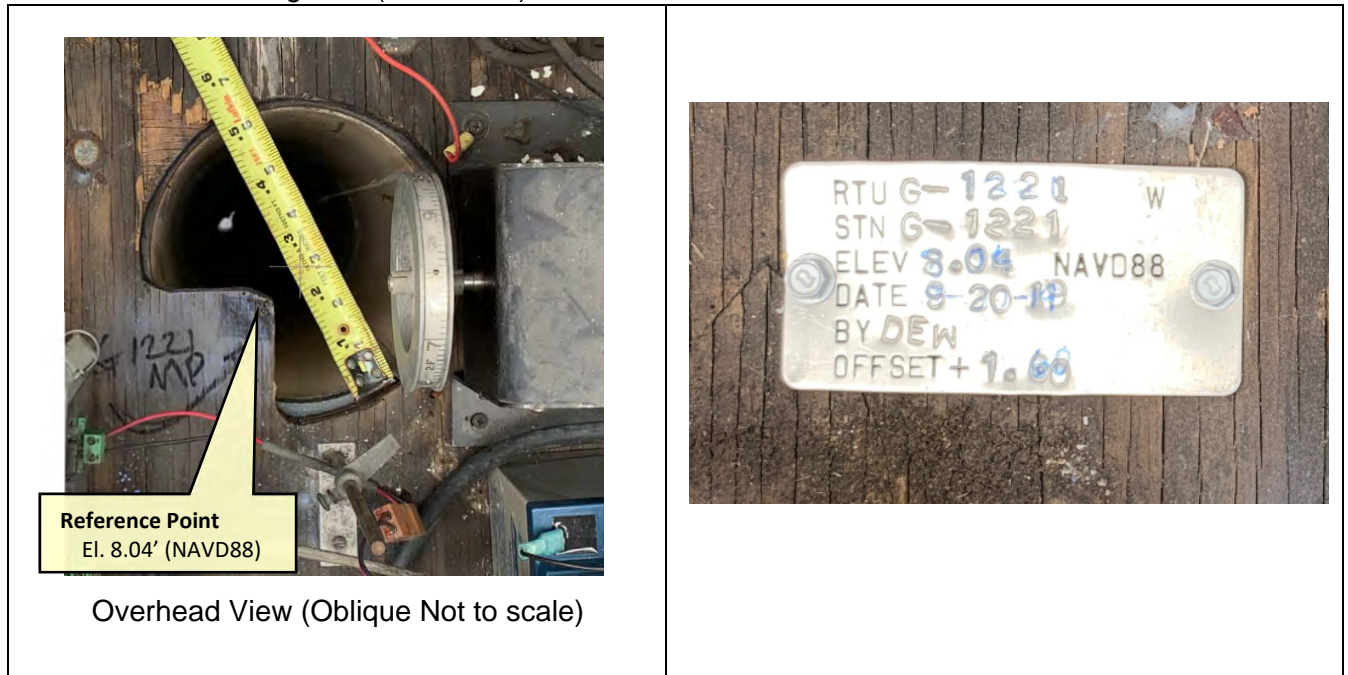
Pt #	Description
12026	MP @ TOP OF BASE @ PROTRUDING BASE CORNER

9/20/19	
TASK: MEASURE DISTANCE TO WATERLINE FROM MEASURING POINT (TOP OF ENCLOSURE BASE @ PROTRUDING CORNER OVER TOP OF WELL OPENING)	
TIME: 12:01 pm	
MEASURE: 6.97'	

LOCATION: SITE IS LOCATED ON SOUTH WESTERLY CORNER OF NOVA DR. & DAVIE RD. ON R/W IN FRONT OF McFATTER TECH SIG.	

SURVEYOR'S REPORT

Well Photos and Diagrams (Continued)



Surveyors' Notes:

1. All measurements herein are in United States Survey feet and decimal thereof, unless otherwise specified.
2. Underground utilities were not located as part of this survey.
3. This survey report or copies thereof are not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.
4. Additions or deletions to this survey report by other than the signing party (or parties) is prohibited without written consent of the signing party (or parties).
5. To convert from NAVD 88 to NGVD 29 add 1.60 feet. This value is based on 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.
6. Date of last field work: September 27, 2019, PO NO: 9500008146
7. SFWMD Data records (on file at the District's headquarters):
8. A. Electronic Data files:
Miscellaneous picture files
- B. Conventional reporting
Field Book: W210 pages 54

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Abbreviations:

- Elev.** - Elevation
- DTW** - Distance to the water table inside the well
- BroCo.** - Broward County
- NAVD88** - North American Vertical Datum of 1988
- NGVD29** - National Geodetic Vertical Datum of 1929
- NGS** - National Geodetic Survey
- PSM** - Professional Surveyor & Mapper
- PID** - Permanent Identifiers
- SFWMD** - South Florida Water Management District
- USGS** - United States Geological Survey
- MP** - Monitoring Point
- GS** - Ground Shot
- BM** - Benchmark
- RM** - Reference Monument

SURVEYOR'S CERTIFICATION

In my professional opinion 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.

William D. Donley

Last date of Survey
Sept. 27, 2019

William Donley, PSM
Florida Professional Surveyor and Mapper
License Number 5381
State of Florida
Dewberry Engineering, LLC, Inc. LB No 8011
131 West Kaley Street, Orlando, FL. 32806
Tel (321) 354-9826



South Florida Water Management District Benchmark Datasheet

Designation: G-1221	Project Name: USGS Ph 2, BROWARD	Type: V	State Plane Zone: FL East
Stamping: G1221 2019	Field Book Name: W210	Field Book Page: 54	
Established By: DEWBERRY / WHIDDEN	Recovered By: N/A	Recovery Date: N/A	
Surveyor: WILLIAM D. DONLEY	Established Date: 10/21/19	Status: New	

GEOGRAPHIC POSITION INFORMATION

Section: 23	Township: 50 SOUTH	Range: 41 EAST
County: BROWARD	Quadrangle: FORT LAUDERDALE SOUTH	Quad Index: 1702
NAD83 Adj. Year: 2011	Vertical Datum: NAVD1988	Horizontal Datum: NAD1983
NAVD88 Elevation (feet): 6.39	NGVD29 Elevation (feet): 7.991	NGS Source BM(s): 10.462
NAVD88 Class: N/A	NGVD29 Class: N/A	NGS NAVD88 Elev (ft): 8.93
NAVD88 Order: 3	NGVD29 Order: N/A	Other Elevation: N/A
		Other Elevation Type: N/A
		NGS NAVD88 Elev (m): 2.721
		NGS 2022 Elev (ft): N/A

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 version05.tst and vertcon05.50 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville FL.)

Vertical Datum Offset: + 1.60	Actual NGS Elevation or ngvd29.txt file: N/A	OPUS Ortho Height: N/A
Northing (Y) (feet): 637579.7	Easting (X) (feet): 909101.2	Source of Latitude & Longitude: AVERAGED FPRN & TRIMBLE VRSNOW RTK
Latitude: 26 DD°	5 MM' 8.45 SS"	Longitude: 80 DD° 13 MM' 45.73 SS"
Latitude (Decimal Degrees): 26.085681		Longitude (Decimal Degrees): -80.229369

RECOVERY DATA

How to Reach:

- FROM W STATE RD 84, HEAD SOUTHWEST ON COLLEGE AVE FOR 0.5 MI
- TURN LEFT ON NOVA DR, CONTINUE 0.4 MI TO THE MARK ON THE RIGHT

Description/Notes:

2" ALUMINUM SFWMD DISK SET IN 6" CONCRETE CURB AT THE SOUTHERLY EDGE OF SIDEWALK, IMMEDIATELY EAST OF TRAFFIC SIGNAL CABINET;

NOTE: AERIAL IMAGE BELOW DOES NOT REFLECT RECENT CONSTRUCTION. SEE TERRESTRIAL PHOTO FOR CURRENT SITE CONDITIONS.

Notable Landmarks: SOUTH FLORIDA EDUCATION CENTER SIGN

Other Source Benchmarks: NGS "10.463"

PICTURES

Aerial View of Overall Site

NOT TO SCALE. AERIAL FROM GOOGLEEARTH

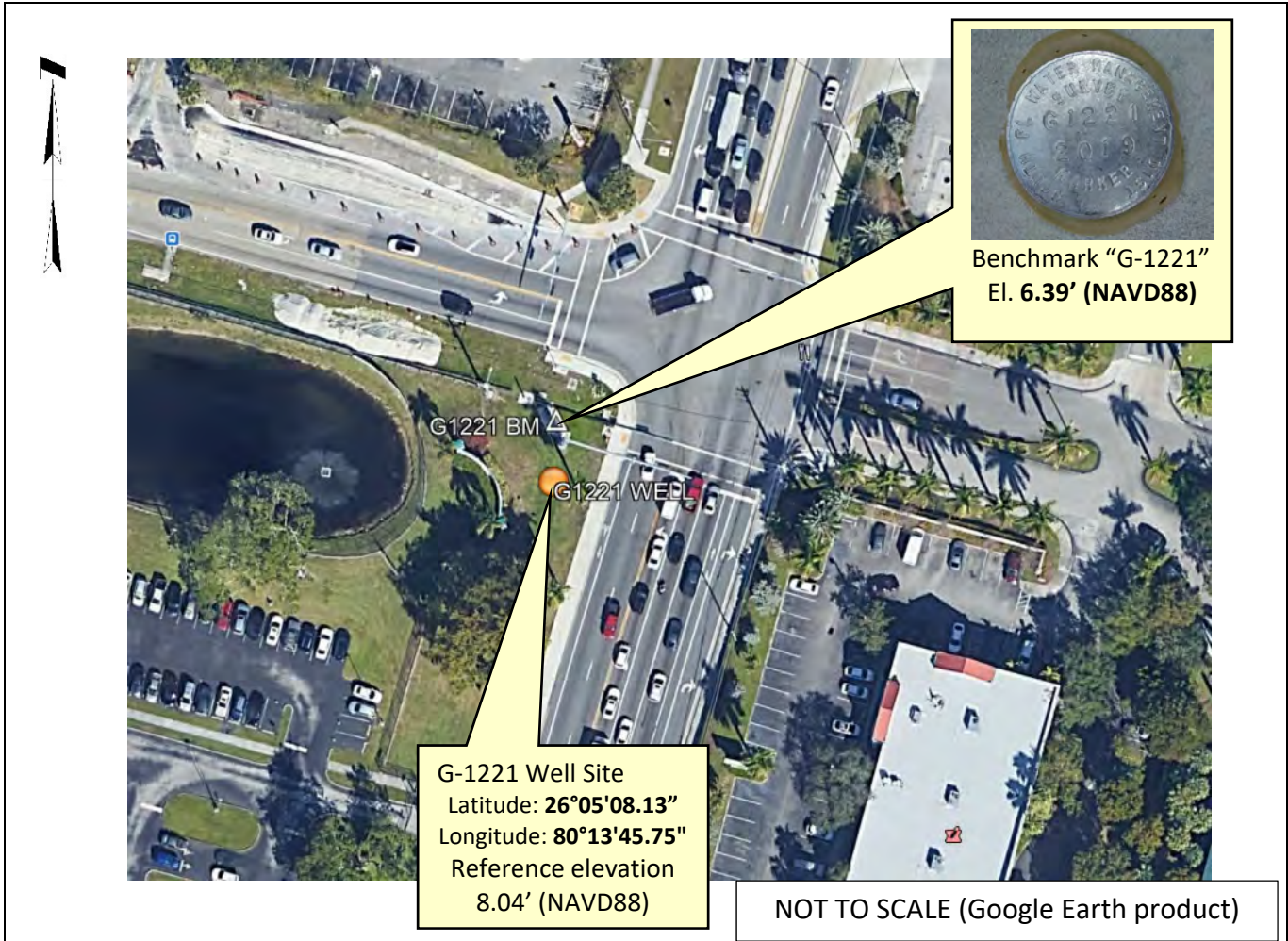
PICTURES

Site Sketch



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/18



Office

Project

2 December 2019

INPUT

State Plane, NAD83
0901 - Florida East, U.S. Feet
Vertical - NAVD88, U.S. Feet

OUTPUT

Geographic, NAD83
Vertical - NGVD29 (Vertcon94), U.S. Feet

BM G-1221

1/2

Northing/Y: 637579.7
Easting/X: 909101.2
Elevation/Z: 6.39
Convergence: 0 20 19.94739
Scale Factor: 1.000014535
Combined Factor: 1.000018204

Latitude: 26 05 08.44919
Longitude: 80 13 45.73060
Elevation/Z: 7.991

WELL G-1221

2/2

Northing/Y: 637547.62'
Easting/X: 909099.63'
Elevation/Z: 8.04
Convergence: 0 20 19.93507
Scale Factor: 1.000014535
Combined Factor: 1.000018125

Latitude: 26 05 08.13156
Longitude: 80 13 45.74990
Elevation/Z: 9.641

Remark:

TOPCON SFW, MD 09/20/19
 AT-G2 USGS WELLS & BMS
 S/N: 1432A JOB # 5002 009A
 WELL SITE G-1221

TASK ELEVATE MONITORING POINT & GROUND
 IN FRONT OF WELL CASING ENCLOSURE

ELEVATION	DESCRIPTION
BEGIN @ 10.000 6.39 (WHIPPEN) (NANDR)	ALUMINUM DISC IN TOP OF
BACKSIGHT (+) 7 FORESIGHT (-) ADJ	STANDARD MEAN ELEV READINGS MEAN ELEV ELEV
5.39	6.115
BM 5.23 5.2317 10.000 6.005 6.0067 99.220 5.615	
5.075	11.622 5.90
31.5/31.5	21.5/23
	3.69
BM	105.2317 3.58 3.5783 104.6533 8.044
	11.622 3.465
	22.5/24
+ BREAK SET-UP	
	3.945 5.64
INF 3.83 3.8300 105.4033 5.4850 5.4850 99.4483 6.389	
3.715	11.874 5.33
23/22	31/100
* END LEVEL LOOP	

N: T. AVERY
 T: J. HUFF

CURB, EPOXY'D IN, N. OF WELL ENCLOSURE

FORESIGHT (-)
 DESCRIPTION

GROUND SHOT (W. OF CASING ENCLOSURE)

MP (MEASURING POINT - TIPPED PLYWOOD
 BASE OF WELL ENCLOSURE)

BACK @ STARTING POINT (SITE BM)

check in = -0.001

SPECTRA SPRO S.F.W.M.D 09/20/19
 EVER S/O: USGS WELLS & BMS 09/27/19
 TRAINING NET SEE# S009 9999
 #1 - G. S62 WELL SITE: G-1221

TASK: DETERMINE HORIZONTAL LOCATIONS ON REFERENCE (ADJACENT) & MEASURING POINT ON WELL SITE.

		STAGED AS			
(1) S/O	(2) S/O	(3) S/O	(4) S/O	PT#	DESCRIPTION
5/0	4	0.028	0.037	C 0.028 S000	CHK W B/M @ G221
* LOCATED PT#	12026				
5/0	4	0.015	0.001	F 0.001 S021	CHK OUT B/M @ 1221

PT#	DESCRIPTION
12026	MP @ TOP OF BASE @ PROTRUDING BASE CORNER

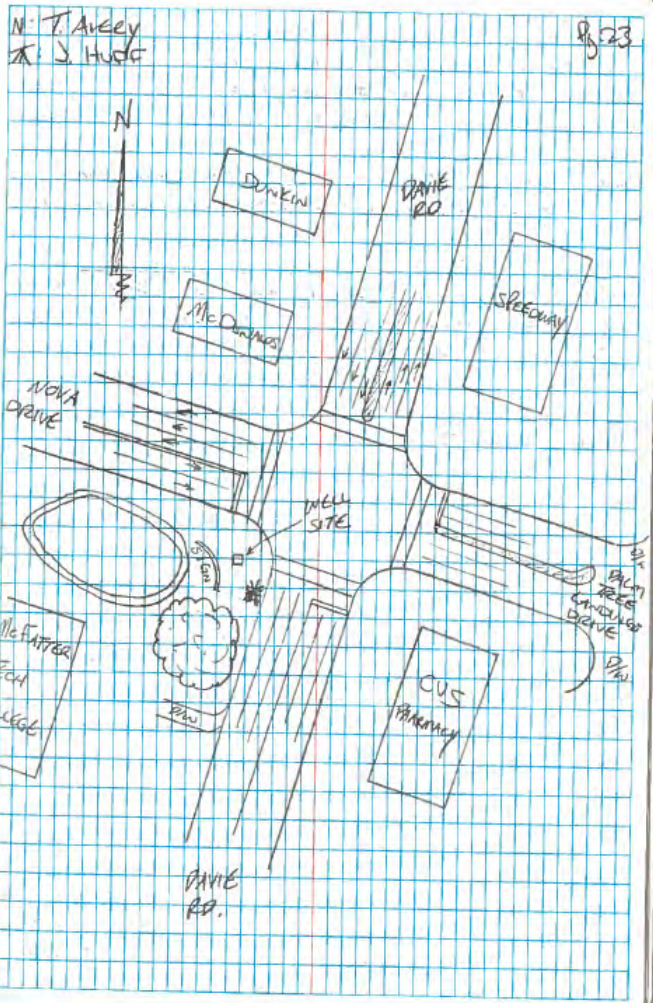
9/20/19

TASK: MEASURE DISTANCE TO WATCHLINE FROM MEASURING POINT (TOP OF ENCLOSURE BASE @ PROTRUDING CORNER OVER TOP OF WELL OPENING)

TIME: 12:01 pm

MEASURE: 6.97'

LOCATION: SITE IS LOCATED ON SOUTH WESTERLY CORNER OF NOVA DR. & DANIE RD. ON R/W IN FRONT OF McFATTER TECH SIGN



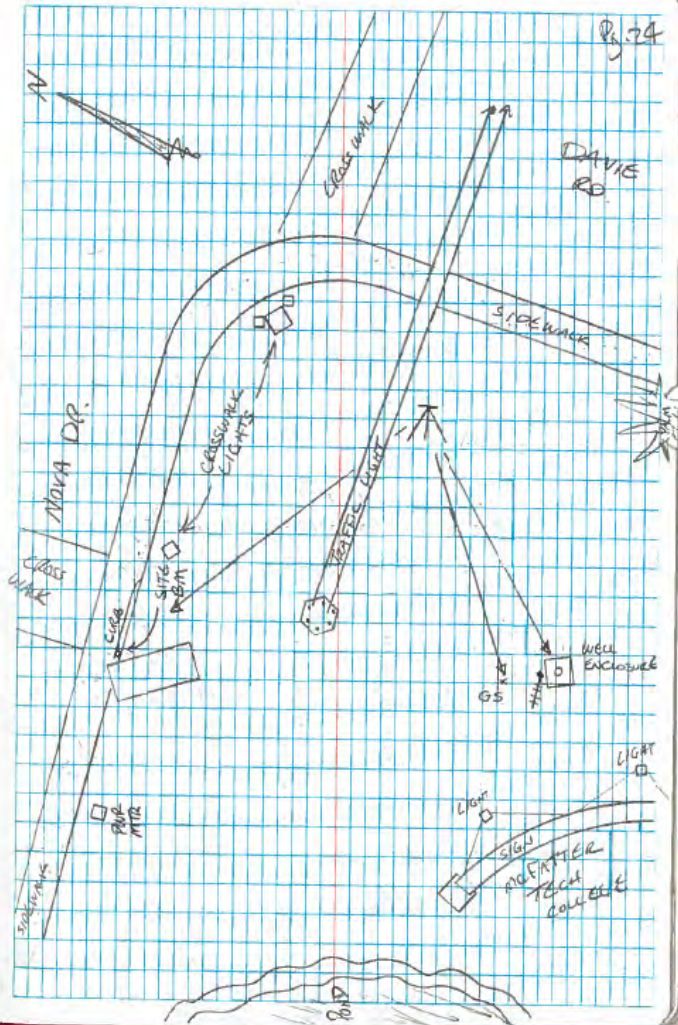
SPECTRA SPAD S.F.W.M.D 09/29/19
 ROAD SP# 1165 U.S.G.S WELLS & B.M.'S
 TEMPLE NET JOB# 5009 9949
 HI: G-502 WELL SITE: G-1221

TASK: RE-LOCATE SITE BENCHMARK, WELL MEASUREMENT POINT, & ANY REFERENCE MONUMENTATION AT SITE.

PT#	(N)ERC	(G)ERR	(E)ERR	PT#	DESCR.	PLACEMENT
s/o 4	0.028	0.037	F 0.028	5020	CHG IN 03 BM 1221	30 SEC
* LOCATED PT# 12026						
s/o 4	0.015	0.001	F 0.069	5021	CHG OUT 03 BM 1221	" "
..						

PT# DESCRIPTION
 12026 MP @ TOP OF BASE (PROTECTING CORNER)

* THE POINTS WERE RELOCATED DUE TO DATA COLLECTOR BEING STOLEN.



TOM WHIDDEN FIELD NOTES

G1221

OTTERBY ~~BLANK~~ G1221
w/ speed @ 225M
Log #1221 + G1221
to #1221

* DURING STATIC LOGGING SESSION
TRIMBLE SPSEBS ON 2 METERS ROD
WAS USED TO CHECK INTO NBS
CONTROL POINT 10.462 AD578

PUBLISHED ELEV; 8.93
OBSERVED; 8.97

$$\Delta V = 0.04$$

W210/54

BLANK RECORD

The NGS Data Sheet

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

PROGRAM = datasheet95, VERSION = 8.12.5.4
1 National Geodetic Survey, Retrieval Date = OCTOBER 22, 2019
AD5781 *****
AD5781 DESIGNATION - 10.462
AD5781 PID - AD5781
AD5781 STATE/COUNTY- FL/BROWARD
AD5781 COUNTRY - US
AD5781 USGS QUAD - FORT LAUDERDALE SOUT (1994)
AD5781
AD5781 *CURRENT SURVEY CONTROL
AD5781
AD5781* NAD 83(1986) POSITION- 26 05 40.62 (N) 080 13 44.14 (W) HD_HELD1
AD5781* [NAVD 88](#) ORTHO HEIGHT - 2.721 (meters) 8.93 (feet) ADJUSTED
AD5781
AD5781 GEOID HEIGHT - -25.408 (meters) GEOID18
AD5781 DYNAMIC HEIGHT - 2.717 (meters) 8.91 (feet) COMP
AD5781 MODELED GRAVITY - 979,057.9 (mgal) NAVD 88
AD5781
AD5781 VERT ORDER - FIRST CLASS II
AD5781
AD5781.The horizontal coordinates were determined by differentially corrected
AD5781.hand held GPS observations or other comparable positioning techniques
AD5781.and have an estimated accuracy of +/- 3 meters.
AD5781.
AD5781.The orthometric height was determined by differential leveling and
AD5781.adjusted by the NATIONAL GEODETIC SURVEY
AD5781.in June 1991.
AD5781
AD5781.Significant digits in the geoid height do not necessarily reflect accuracy
AD5781.GEOID18 height accuracy estimate available [here](#).
AD5781
AD5781.Click [here](#) to see if photographs exist for this station.
AD5781
AD5781.The dynamic height is computed by dividing the NAVD 88
AD5781.geopotential number by the normal gravity value computed on the
AD5781.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD5781.degrees latitude (g = 980.6199 gals.).
AD5781
AD5781.The modeled gravity was interpolated from observed gravity values.
AD5781
AD5781;
AD5781;SPC FL E - North East Units Estimated Accuracy
AD5781; 195,325.0 277,132.9 MT (+/- 3 meters HHI GPS)
AD5781
AD5781_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ7710686390(NAD 83)
AD5781
AD5781 SUPERSEDED SURVEY CONTROL
AD5781
AD5781 NGVD 29 (09/01/92) 3.210 (m) 10.53 (f) ADJUSTED 1 2
AD5781
AD5781.Superseded values are not recommended for survey control.
AD5781

"10.462" NGS Benchmark Datasheet (2 of 3)

AD5781.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD5781.See file [dsdata.pdf](#) to determine how the superseded data were derived.
AD5781

AD5781_MARKER: DD = SURVEY DISK
AD5781_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AD5781_SP_SET: BOAT LOCK WALL
AD5781_STAMPING: 10.462 MSL 1939
AD5781_MARK LOGO: USE
AD5781_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AD5781_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
AD5781+SATELLITE: SATELLITE OBSERVATIONS - December 22, 2013
AD5781

AD5781	HISTORY	- Date	Condition	Report By
AD5781	HISTORY	- 1939	MONUMENTED	USE
AD5781	HISTORY	- 1978	GOOD	FL-011
AD5781	HISTORY	- 19910716	GOOD	USPSQD
AD5781	HISTORY	- 19940307	GOOD	USPSQD
AD5781	HISTORY	- 20010416	GOOD	GCIYI
AD5781	HISTORY	- 20020114	GOOD	NGS
AD5781	HISTORY	- 20131222	GOOD	GEOCAC
AD5781	HISTORY	- 20160125	POOR	WANTGP

AD5781

STATION DESCRIPTION

AD5781

AD5781'DESCRIBED BY BROWARD COUNTY FLORIDA 1978
AD5781'1.9 MI NORTH FROM DAVIE.
AD5781'ABOUT 1.9 MILES NORTH OF DAVIE CITY HALL. FROM THE INTERSECTION OF
AD5781'STATE ROAD 84 AND U.S. 441 PROCEED 1.8 MILES NORTHWEST ALONG
AD5781'STATE ROAD 84 TO THE MARK. THE MARK IS LOCATED 765 FEET WEST OF THE
AD5781'PROJECTED CENTERLINE OF DAVIE ROAD AT THE NORTH NEW RIVER CANAL LOCK
AD5781'NUMBER 1. THE MARK IS 130 FEET NORTH OF THE NORTH EDGE OF PAVEMENT OF
AD5781'THE WESTBOUND LANES OF STATE ROAD 84. THE MARK IS A U.S. CORPS OF
AD5781'ENGINEERS DISK.

AD5781

STATION RECOVERY (1991)

AD5781

AD5781'RECOVERY NOTE BY US POWER SQUADRON 1991 (JHH)
AD5781'RECOVERED IN GOOD CONDITION.

AD5781

STATION RECOVERY (1994)

AD5781

AD5781'RECOVERY NOTE BY US POWER SQUADRON 1994
AD5781'RECOVERED IN GOOD CONDITION.

AD5781

STATION RECOVERY (2001)

AD5781

AD5781'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (PA)
AD5781'RECOVERED IN GOOD CONDITION.

AD5781

STATION RECOVERY (2002)

AD5781

AD5781'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2002 (DB)
AD5781'THIS REPORT WAS SUBMITTED BY THE US POWER SQUADRONS.

AD5781

STATION RECOVERY (2013)

AD5781

AD5781'RECOVERY NOTE BY GEOCACHING 2013 (RKG)
AD5781'RECOVERED IN GOOD CONDITION BY GEOCACHER GUNGADOY.

AD5781

STATION RECOVERY (2016)

AD5781

The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.12.5.2
1      National Geodetic Survey,  Retrieval Date = MAY 20, 2019
DO2655 *****
DO2655 DESIGNATION - 016
DO2655 PID - DO2655
DO2655 STATE/COUNTY- FL/BROWARD
DO2655 COUNTRY - US
DO2655 USGS QUAD - POMPANO BEACH (1983)
DO2655
DO2655 *CURRENT SURVEY CONTROL
DO2655
DO2655* NAD 83(1986) POSITION- 26 14 34. (N) 080 06 08. (W) SCALED
DO2655* NAVD 88 ORTHO HEIGHT - 2.232 (meters) 7.32 (feet) ADJUSTED
DO2655
DO2655 GEOID HEIGHT - -25.867 (meters) GEOID12B
DO2655 DYNAMIC HEIGHT - 2.229 (meters) 7.31 (feet) COMP
DO2655 MODELED GRAVITY - 979,071.4 (mgal) NAVD 88
DO2655
DO2655 VERT ORDER - SECOND CLASS II
DO2655
DO2655.The horizontal coordinates were scaled from a topographic map and have
DO2655.an estimated accuracy of +/- 6 seconds.
DO2655.
DO2655.The orthometric height was determined by differential leveling and
DO2655.adjusted by the NATIONAL GEODETIC SURVEY
DO2655.in December 2012.
DO2655
DO2655.Significant digits in the geoid height do not necessarily reflect accuracy.
DO2655.GEOID12B height accuracy estimate available here.
DO2655
DO2655.Photographs are available for this station.
DO2655
DO2655.The dynamic height is computed by dividing the NAVD 88
DO2655.geopotential number by the normal gravity value computed on the
DO2655.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DO2655.degrees latitude (g = 980.6199 gals.).
DO2655
DO2655.The modeled gravity was interpolated from observed gravity values.
DO2655
DO2655; North East Units Estimated Accuracy
DO2655;SPC FL E - 211,820. 289,700. MT (+/- 180 meters Scaled)
DO2655
DO2655_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK896028(NAD 83)
DO2655
DO2655 SUPERSEDED SURVEY CONTROL
DO2655
DO2655.No superseded survey control is available for this station.
DO2655
DO2655_MARKER: DB = BENCH MARK DISK
DO2655_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DO2655_STAMPING: 016 2011
DO2655_MARK LOGO: FL2570
DO2655_PROJECTION: RECESSED 5 CENTIMETERS
DO2655_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT
DO2655_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DO2655+STABILITY: SURFACE MOTION

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