PB 834B	Elevation:	6.51 ft	(NAVD 88)	8.06 ft	(NGVD 29)
Bench Mark 1:	J 402	7.00 ft	(NAVD 88)	8.54 ft	(NGVD 29)
Bench Mark 2:	Z 34	8.89 ft	(NAVD 88)	10.44 ft	(NGVD 29)
Monitoring Well 1:	PB 834B	6.26 ft	(NAVD 88)	7.81 ft	(NGVD 29)
Monitoring Well 2:	PB 846	5.92 ft	(NAVD 88)	7.46 ft	(NGVD 29)
Length of Run:	1 18 km	To Reach PB 834	IB:		

Max Allowable Misclosure: 9 mm
Actual Misclosure: 7 mm

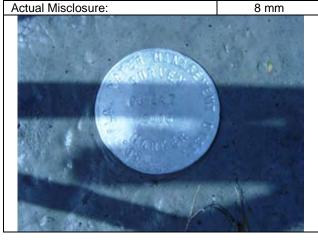


FROM INTERSECTION HYPOLUXO ROAD AND FEDERAL HIGHWAY/US1, GO NORTH ON FEDERAL HWY/US 1 FOR 0.65 MILES. CONCRETE MONUMENT WILL BE ON RIGHT. 4.5' WEST OF EDGE OF PAVEMENT OF PARKING LOT. FOR TOWN OF LANTANA RECREATION CENTER, 5.45' EAST OF BACK OF SIDEWALK, 17.5' SOUTH OF PK NAIL & DISK LB4318 ON SOUTH SIDE OF TRUNK OF PALM TREE, 20.55' NORTH OF PK NAIL & DISK LB 4318 ON NORTH SIDE OF TRUNK OF PALM TREE, 29.3' NORTHWEST OF MONITORING WELL PB 834B. SET MAGNET 1' NORTH OF CONCRETE MONUMENT.

PB 847		Elevation:	3.67 ft	(NAVD 88)	5.19 ft	(NGVD 29)
Bench Mark 1:	L 233		18.71 ft	(NAVD 88)	20.23 ft	(NGVD 29)
Bench Mark 2:	M 233	}	16.89 ft	(NAVD 88)	18.41 ft	(NGVD 29)
Monitoring Well 1:	PB 84	7	3.19 ft	(NAVD 88)	4.71 ft	(NGVD 29)
Longth of Duni		2.1E lenn	To Doooh DD 94	7:		

Length of Run: 3.15 km

Max Allowable Misclosure: 14 mm



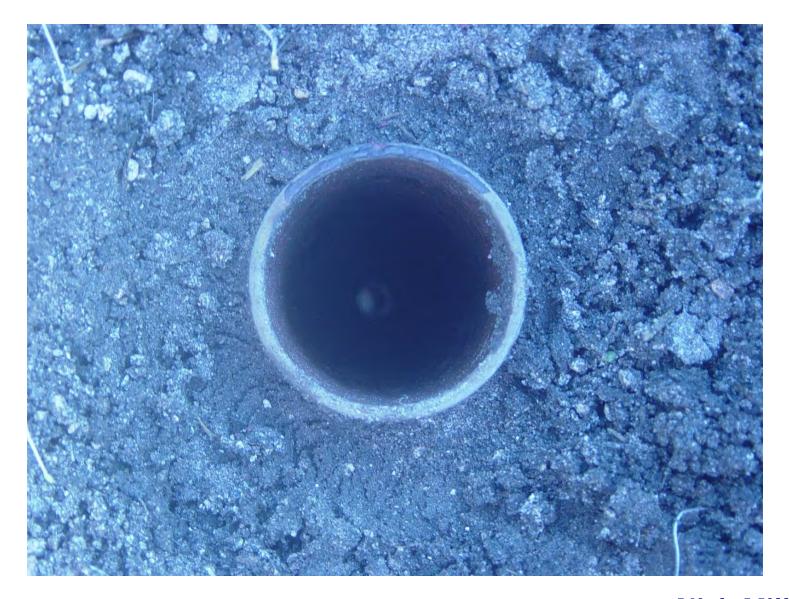
To Reach PB 847:

FROM INTERSECTION SOUTHERN BLVD. AND WASHINGTON ROAD. GO NORTH ON WASHINGTON ROAD FOR 0.6 MILES TO STOP SIGN OF INTERSECTION WASHINGTON AVE AND ROYAL PALM ROAD. CONCRETE MONUMENT WILL BE ON RIGHT IN GEORGE S. PETTY PARK. 9.9' EAST OF BACK OF SIDEWALK. 47.9' NORTHEAST OF LIGHT POLE (68221030807). 24.0' SOUTH OF LARGE FICUS TREE. 18.3' WEST OF MONITORING WELL PB 847. SET MAGNET 1' NORTH OF CONCRETE MONUMENT.

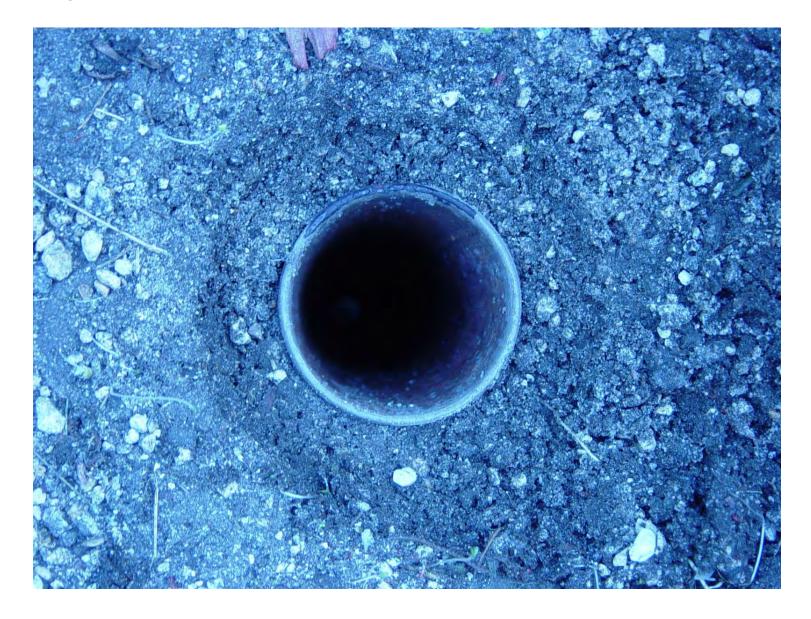
Surveyor's Report Page 13



Nick Miller, Inc.
Date of Photo: May 31, 2005
View: Looking at the wells PB-834B (south well) & PB-846 (north well) facing north



Nick Miller, Inc.
Date of Photo: May 31, 2005
View: Close-up of the well PB-834B showing the contractor's markings



Nick Miller, Inc.
Date of Photo: May 31, 2005

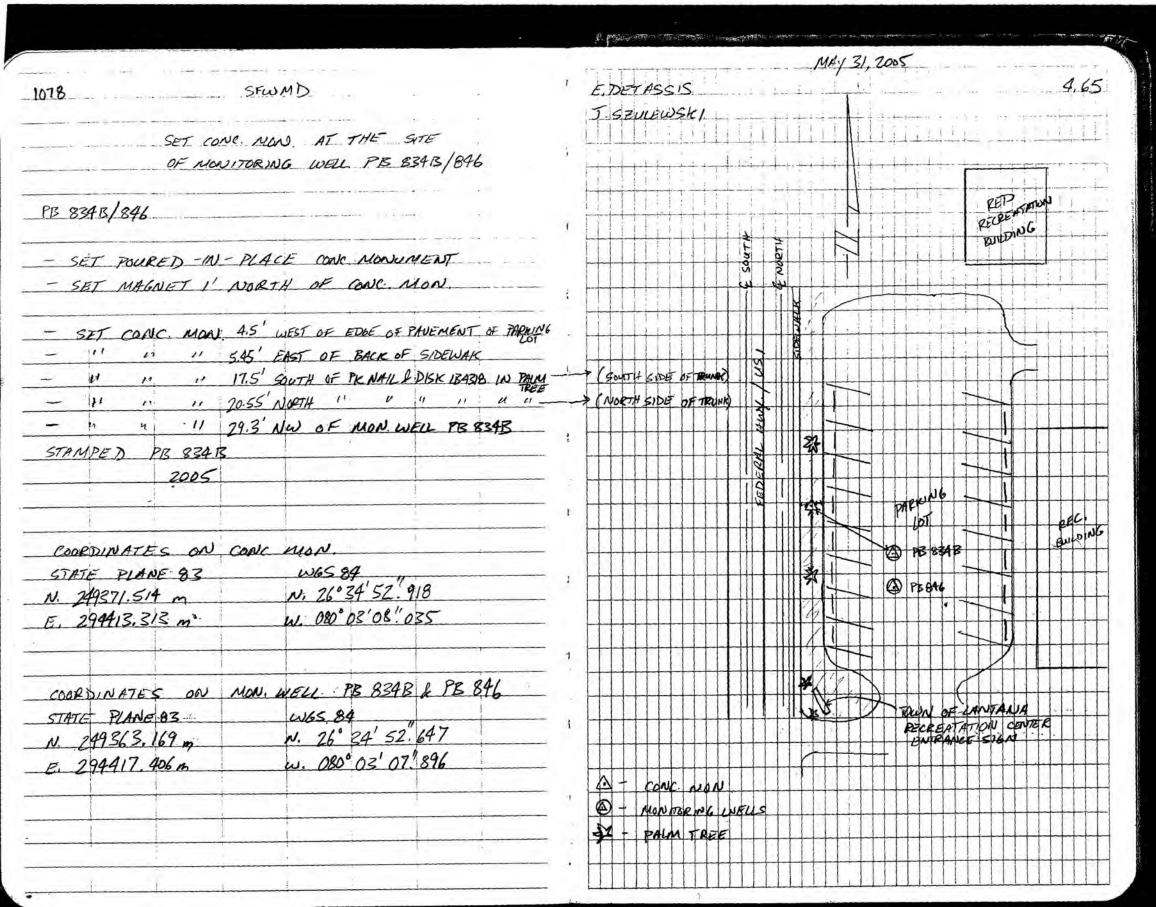
View: Close-up of the well PB-846 showing the contractor's markings



Nick Miller, Inc.
Date of Photo: May 31, 2005
View: Looking at the benchmark facing north



Nick Miller, Inc. Date of Photo: May 31, 2005 View: A top view of the benchmark





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

			Rev. 4/01		
COUNTY PALM BEACH	PROJECT Hydrology –		DESIGNATION PB 834B 2005		
	Palm Beach Co	ounty Wells			
SECTION 03	TOWNSHIP 45 SOUTH		RANGE 43 EAST		
GEOGRAPHIC INDEX OF QUAD					
Established by Nick Miller Inc. Recovered by		NAME OF QUADRANGLE			
		Lake Worth			
SURVEYOR Stephen M. Gordon DA	ATE <u>5/31/2005</u>	FIELD BOOK 4	LD BOOK 4 PAGE <u>65</u>		
HORIZONTAL DATUM: 1927	983 Other_	(circle	e one) ZONE E or W		
STATE PLANE COORDINATES		E 965,921 ft	N 818,149 ft		
LATITUDE: N 26.58137°		LONGITUDE: W 80.05223°			
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one) EL. 6.51 ft		
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one) EL. 8.05 ft		
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3					
DESCRIPTION					
To Reach:					
TO NEAUT.					
FROM INTERSECTION HYPOLUXO ROAD AND FEDERAL HIGHWAY/US1, GO NORTH ON					
FEDERAL HWY/US 1 FOR 0.65 MILES. CONCRETE MONUMENT WILL BE ON RIGHT. 4.5					
FEET WEST OF EDGE OF PAVEMENT OF PARKING LOT. FOR TOWN OF LANTANA					
RECREATION CENTER, 5.45 FEET EAST OF BACK OF SIDEWALK, 17.5 FEET SOUTH OF PK					
NAIL & DISK LB4318 ON SOUTH SIDE OF TRUNK OF PALM TREE, 20.55 FEET NORTH OF					
PK NAIL & DISK LB 4318 ON NORTH SIDE OF TRUNK OF PALM TREE, 29.3 FEET					
NORTHWEST OF MONITORING WELL PB 834B. SET MAGNET 1FOOT NORTH OF					
CONCRETE MONUMENT.					

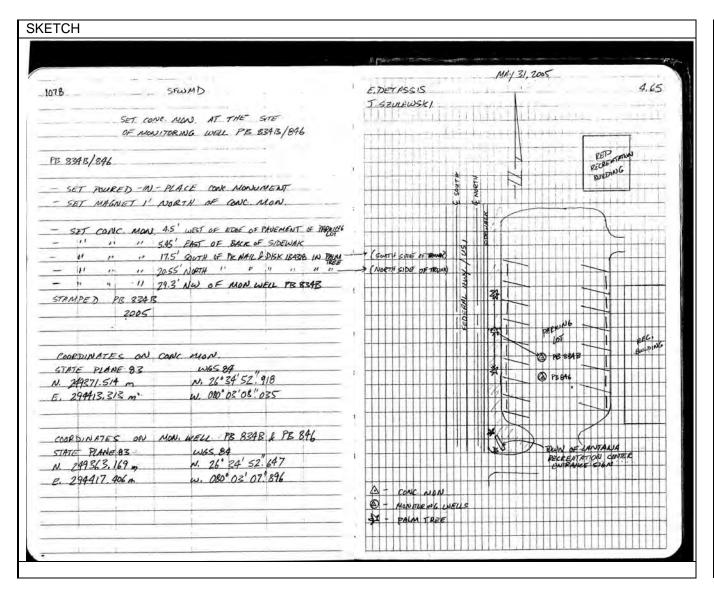
Benchmarks Used: J 402 and Z 34

Notable Land marks:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



PB-834. ABS Windows Abstra Version 2.3 -- Jan 1, 2004 Tue Aug 16 09:52:45 2005

-*- FIELD ABSTRACT -*-050606-050606 HGZ L26803 8.0 MM ORDER 2 CLASS 2 PAGE 1 SOUTH FLORIDA WATER MANAGEMENT DISTRICT PALM BEACH COUNTY MONITORING WELLS ESTABLISH BENCH MARK NEAR MONITORING WELL PB-834 AND PB-846 **FROM** START F/B DLST **ELEV DIFF** -(F+B) MEAN DIFF T0 **TOTAL** TOTAL C FLD ELEV (KM) (MM) (MT) (MT) 0228 J 402 2.13400 -0. 14862 0228 J 402 6061348 F 0.40 -0.14886-0.49 0229 PB 834 B 6061600 B 0.39 0.14911 1.98514 0.39 -0.49 0229 PB 834 B 6061435 F 0.79 0.73132 * 0.00 1 0. 73132 0230 Z 34 1.18 -0.49 2.716469 ELEVATION REJECTION AND ERROR CODES C - section elevation difference was rejected for cause ie. *43* record rejection code set to "F" R - section elevation difference was rejected by Halperin rejection algorithm - section elevation difference does not include refraction correction - section elevation difference does not include rod correction INSTRUMENT CODE INSTRUMENT **RODS** 1 396 - 111 396 - 222 243 - 331132 우 LEVEL LINE SECTION RUNNING TREE 0228 0229 0230♀ FIELD DISTANCE VS. COMPUTED FROM T0 N. LATITUDE W. LONGITUDE 0.00 0228 263504 0800307 0.00 0228 0229 263452 0800308 0.39 0.37 0229 0230 263430 0800312 0.79 0.69♀ Windows Abstra Version 2.3 -- Jan 1, 2004 -- Tue Aug 16 09:52:45 2005

SECTION FROM TO

ERROR MESSAGES

The NGS Data Sheet

See file <u>dsdata.txt</u> for more information about the datasheet.

```
AD8036 DESIGNATION - J 402
AD8036 PID - AD8036
        PID - AD8036
STATE/COUNTY- FL/PALM BEACH
USGS QUAD - LAKE WORTH (1983)
 AD8036
 AD8036
 AD8036
                                    *CURRENT SURVEY CONTROL
 AD8036
 AD8036
 AD8036* NAD 83(1999) - 26 35 04.32181(N)
AD8036* NAVD 88 - 2.134 (mete
                                                080 03 07.73169(W)
                                                                           ADJUSTED
                                                           7.00
                                                                  (feet)
                                                                           ADJUSTED
                                  2.134 (meters)
 AD8036
                             986,000.633 (meters)
 AD8036 X
                       _
                                                                            COMP
 AD8036
         Y
                          -5,621,803.004 (meters)
                                                                            COMP
 AD8036
                           2,837,113.004 (meters)
                                                                            COMP
 AD8036 LAPLACE CORR-
                                   -4.73
                                                                            DEFLEC99
                                           (seconds)
        ELLIP HEIGHT-
GEOID HEIGHT-
 AD8036
                                  -24.09
                                                               (12/12/02) GPS OBS
                                           (meters)
 AD8036
                                  -26.25
                                            (meters)
                                                                            GEOID03
 AD8036 DYNAMIC HT -
                                    2.131 (meters)
                                                           6.99 (feet) COMP
 AD8036 MODELED GRAV-
                              979,109.4
                                                                            NAVD 88
                                         (mgal)
 AD8036
 AD8036
         HORZ ORDER
                      - FIRST
         VERT ORDER - FIRST
 AD8036
                                      CLASS II
 AD8036
         ELLP ORDER - FOURTH
                                     CLASS I
 AD8036
 AD8036. The horizontal coordinates were established by GPS observations
 AD8036.and adjusted by the National Geodetic Survey in December 2002.
 AD8036. The orthometric height was determined by differential leveling
 AD8036.and adjusted by the National Geodetic Survey in May 1994.
 AD8036
 AD8036. The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AD8036
 AD8036. The Laplace correction was computed from DEFLEC99 derived deflections.
 AD8036
 AD8036. The ellipsoidal height was determined by GPS observations
 AD8036.and is referenced to NAD 83.
 AD8036
 AD8036. The geoid height was determined by GEOID03.
 AD8036
AD8036. The dynamic height is computed by dividing the NAVD 88 AD8036. geopotential number by the normal gravity value computed on the AD8036. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AD8036.degrees latitude (g = 980.6199 \text{ gals.}).
 AD8036
 AD8036. The modeled gravity was interpolated from observed gravity values.
 AD8036
 AD8036;
                               North
                                               East
                                                        Units Scale Factor Converg.
                                                        MT 1.00005120
                                           294,419.293
 AD8036;SPC FL E
                            249,722.529
                                                                            +0 25 27.2
                                                          MT 0.99970999
 AD8036;UTM 17
                       - 2,940,769.307
                                           594,387.077
 AD8036
                       - Elev Factor x Scale Factor = 
- 1.00000378 x 1.00005120 =
 AD8036!
                                                               Combined Factor
 AD8036!SPC FL E
                                                                1.00005498
 AD8036!UTM 17
                           1.00000378 x
                                             0.99970999
                                                               0.99971377
 AD8036
 AD8036
                                     SUPERSEDED SURVEY CONTROL
 AD8036
 AD8036
         NAVD 88 (12/12/02)
                                  2.13
                                          (m)
                                                           7.0
                                                                   (f) LEVELING
         NGVD 29 (09/01/92)
                                                                   (f) ADJUSTED
                                  2.603
 AD8036
                                         ( m )
                                                           8.54
 AD8036.Superseded values are not recommended for survey control. AD8036.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AD8036. See file dsdata.txt to determine how the superseded data were derived.
 AD8036
 AD8036_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK9438740769(NAD 83)
 AD8036_MARKER: F = FLANGE-ENCASED ROD
 AD8036_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
 AD8036_SP_SET: STAINLESS STEEL ROD
```

```
AD8036 STAMPING: J 402 1991
AD8036 MARK LOGO: NGS
AD8036_PROJECTION: RECESSED 9 CENTIMETERS
AD8036_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET AD8036_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
AD8036+STABILITY: POSITION/ELEVATION WELL
AD8036_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR AD8036+SATELLITE: SATELLITE OBSERVATIONS - February 10, 2005
AD8036_ROD/PIPE-DEPTH: 8.1 meters
AD8036
AD8036
         HISTORY
                        - Date
                                      Condition
                                                           Report By
AD8036 HISTORY
                        - 1991
                                     MONUMENTED
                                                           NGS
AD8036 HISTORY
                        - 20020521 GOOD
                                                           MAPTEC
        HISTORY
HISTORY
AD8036
                        - 20030919 GOOD
                                                           USPSQD
                        - 20050210 GOOD
AD8036
                                                           USPSQD
AD8036
AD8036
                                       STATION DESCRIPTION
AD8036
AD8036'DESCRIBED BY NATIONAL GEODETIC SURVEY 1991
AD8036'IN LANTANA, AT THE INTERSECTION OF THE FLORIDA EAST COAST RAILROAD
AD8036'AND OCEAN AVENUE, 17.3 M (56.8 FT) WEST OF THE WEST CURB OF U.S. AD8036'HIGHWAY 1, 12.0 M (39.4 FT) NORTH OF AND LEVEL WITH THE AVENUE
AD8036'CENTERLINE, 8.7 M (28.5 FT) EAST OF THE NEAR RAIL, 0.4 M (1.3 FT) AD8036'SOUTH OF A RIGHT-OF-WAY POST, AND 0.3 M (1.0 FT) NORTH OF A WITNESS
AD8036'POST. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.
AD8036
AD8036
                                       STATION RECOVERY (2002)
AD8036
AD8036'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AD8036'RECOVERED AS DESCRIBED.
AD8036
AD8036
AD8036
                                       STATION RECOVERY (2003)
AD8036
AD8036'RECOVERY NOTE BY US POWER SQUADRON 2003 (AAS)
AD8036'RECOVERED IN GOOD CONDITION.
AD8036
AD8036
                                       STATION RECOVERY (2005)
AD8036
AD8036'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS)
AD8036'RECOVERED IN GOOD CONDITION.
*** retrieval complete.
Elapsed Time = 00:00:01
```

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
******
 AD2745 DESIGNATION - Z 34
AD2745 PID - AD27
 AD2745
         PID
                          AD2745
         STATE/COUNTY- FL/PALM BEACH
 AD2745
         USGS QUAD - LAKE WORTH (1983)
 AD2745
 AD2745
                                    *CURRENT SURVEY CONTROL
 AD2745
 AD2745
 AD2745* NAD 83(1986) - 26 34 30.
                                                  080 03 12.
                                           (N)
                                                                    (W)
                                                                             SCALED
                                   2.709
                                                            8.89
 AD2745* NAVD 88
                                                                    (feet)
                                                                            ADJUSTED
                                          (meters)
 AD2745
         GEOID HEIGHT-
 AD2745
                                   -26.23
                                            (meters)
                                                                             GEOID03
 AD2745
         DYNAMIC HT -
                                    2.705 (meters)
                                                             8.87
                                                                    (feet)
                                                                            COMP
                              979,108.4
 AD2745
         MODELED GRAV-
                                                                            NAVD 88
                                            (mgal)
 AD2745
 AD2745
         VERT ORDER - FIRST
                                     CLASS II
 AD2745
 AD2745. The horizontal coordinates were scaled from a topographic map and have
 AD2745.an estimated accuracy of +/- 6 seconds.
 AD2745
 AD2745. The orthometric height was determined by differential leveling
 AD2745.and adjusted by the National Geodetic Survey in June 1991.
 AD2745
 AD2745. The geoid height was determined by GEOID03.
 AD2745
AD2745. The dynamic height is computed by dividing the NAVD 88 AD2745. geopotential number by the normal gravity value computed on the AD2745. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AD2745.degrees latitude (g = 980.6199 \text{ gals.}).
 AD2745
 AD2745. The modeled gravity was interpolated from observed gravity values.
 AD2745
                                                        Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AD2745;
                                               East
                               North
 AD2745; SPC FL E
                            248,670.
                                            294,310.
 AD2745
 AD2745
                                     SUPERSEDED SURVEY CONTROL
 AD2745
 AD2745
         NGVD 29 (09/01/92)
                                                                                    1 2
                                 3.182 (m)
                                                          10.44
                                                                  (f) ADJUSTED
 AD2745
 AD2745.Superseded values are not recommended for survey control. AD2745.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AD2745. See file dsdata.txt to determine how the superseded data were derived.
 AD2745
 AD2745_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK942397(NAD 83)
 AD2745_MARKER: DB = BENCH MARK DISK
 AD2745_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AD2745_SP_SET: CONCRETE POST
AD2745_STAMPING: Z 34 1933 10.440
 AD2745_MARK LOGO: CGS
 AD2745_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AD2745+STABILITY: SURFACE MOTION
 AD2745 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AD2745+SATELLITE: SATELLITE OBSERVATIONS - October 13, 2004
 AD2745
 AD2745
         HISTORY
                       - Date
                                    Condition
                                                       Report By
 AD2745 HISTORY
                       - 1933
                                    MONUMENTED
                                                       CGS
 AD2745 HISTORY
AD2745 HISTORY
                       - 1965
                                    GOOD
                                                       NGS
                       - 1973
                                    GOOD
                                                       NGS
 AD2745 HISTORY
                       - 1988
                                    GOOD
                                                       USPSOD
 AD2745
                       - 1989
                                                       USPSQD
         HISTORY
                                    GOOD
                       - 19910110 GOOD
 AD2745
         HISTORY
                                                       NGS
 AD2745
                       - 20041013 GOOD
         HISTORY
                                                       USPSQD
 AD2745
 AD2745
                                     STATION DESCRIPTION
 AD2745
 AD2745'DESCRIBED BY NATIONAL GEODETIC SURVEY 1965
 AD2745'0.7 MI S FROM LANTANA.
```

```
AD2745'ABOUT 0.7 MILE SOUTH ALONG THE FLORIDA EAST COAST RAILWAY FROM
AD2745'THE CROSSING OF LANTANA AVENUE AT LANTANA, AT MILEPOST 309,
AD2745'IN SECTION 3, R 43 E, T 45 S, 50.0 FEET EAST OF AND ACROSS THE AD2745'TRACK FROM THE MILEPOST, 24.5 FEET WEST OF THE WEST CURB OF AD2745'U.S. HIGHWAY 1, 24.5 FEET EAST OF THE EAST RAIL OF THE NORTHBOUND AD2745'MAIN TRACK, 1.5 FEET SOUTH OF A METAL WITNESS POST, ABOUT 2 AD2745'FEET BELOW THE LEVEL OF THE TRACK AND SET IN THE TOP OF A
AD2745'CONCRETE POST PROJECTING 0.6 FOOT.
AD2745
AD2745
                                              STATION RECOVERY (1973)
AD2745
AD2745'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973
AD2745'RECOVERED IN GOOD CONDITION.
AD2745
AD2745
                                              STATION RECOVERY (1988)
AD2745
AD2745'RECOVERY NOTE BY US POWER SQUADRON 1988 (BJS)
AD2745'RECOVERED IN GOOD CONDITION.
AD2745
AD2745
                                              STATION RECOVERY (1989)
AD2745
AD2745'RECOVERY NOTE BY US POWER SQUADRON 1989 (BJS)
AD2745'RECOVERED IN GOOD CONDITION.
AD2745
AD2745
                                              STATION RECOVERY (1991)
AD2745
AD2745'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
AD2745'1.4 KM (0.9 MI) SOUTHERLY ALONG THE FLORIDA EAST COAST RAILROAD FROM
AD2745'THE INTERSECTION OF LANTANA ROAD (STATE HIGHWAY 812) IN LANTANA, 0.3
AD2745'KM (0.2 MI) NORTH OF THE INTERSECTION OF HYPOLUXO ROAD, 33.8 M (110.9
AD2745'FT) SOUTH OF THE EXTENDED CENTER OF STERN STREET, 30.0 M (98.4 FT)
AD2745'SOUTH-SOUTHWEST OF A UTILITY POLE, 18.8 M (61.7 FT) NORTH-NORTHWEST
AD2745'OF UTILITY POLE NUMBER 89, 15.7 M (51.5 FT) WEST OF THE CENTERLINE OF
AD2745'DIXIE HIGHWAY, 12.1 M (39.7 FT) EAST OF RAILROAD MILEPOST 309, 11.1 M
AD2745'C36.4 FT) NORTH OF A UTILITY POLE WITH A METER BOX, 7.5 M (24.6 FT)
AD2745'EAST OF THE NEAR RAIL, 3.2 M (10.5 FT) EAST OF THE SOUTHEAST CORNER
AD2745 OF A POWER BOX, 0.8 M (2.6 FT) NORTHEAST OF A UTILITY PEDESTAL, 0.3 M
AD2745'(1.0 FT) EAST OF A WITNESS POST, AND THE MONUMENT IS RECESSED 0.1 M AD2745'(0.3 FT) BELOW THE GROUND SURFACE.
AD2745
AD2745
                                              STATION RECOVERY (2004)
AD2745
AD2745'RECOVERY NOTE BY US POWER SOUADRON 2004 (AAS)
AD2745'RECOVERED IN GOOD CONDITION.
*** retrieval complete.
Elapsed Time = 00:00:00
```



Nick Miller, Inc. Date of Photo: May 17, 2005 View: Looking at the well PB-847 facing east





Nick Miller, Inc. Date of Photo: May 17, 2005 View: Close-up of the well PB-847 showing the contractor's markings



Nick Miller, Inc. Date of Photo: May 17, 2005 View: Looking at the benchmark facing east



Nick Miller, Inc. Date of Photo: May 17, 2005 View: A top view of the benchmark

MINICULL PB 847

PB 847

- SET POURED-W-PLACE CONK. MONUMENT

- SET MAGNET I' NORTH OF CONC. MON.

- SET CONC. MON. 9.9 EAST OF BACK OF SIDEWALK

- " 47.9' NE OF LIGHT POLE (68221030807)

24' SOUTH OF OF LARGE FICUS TREE

- 183' WEST OF MONTORING WELL PB 849

STAMPED PB847.

COORDINATES ON CONC. MONUMENT

STATE PLANE 83

Was 84

N. 26.0801.929 m

N. 26°41'04". 25873

E. 294565.304 m

W. 080°02' 89.51574

COORDINATES ON MONITORING WELL PS 847

N. 260802.050 m

N. 26° 41' 04" 25811

E. 294570,101 m

W. 080° 02' 59". 31549

AWSE. # 101 & ROYAL DALM ROAD PARK SIGN HOUSE " GEORGE S. PETTY 1 - MONITORING WELL

TUES. MAY 17,2005

4-61

E. DETASSIS

J. CAMPBELL

A - CONT. MUNUMENT

Q - STOP SIGN



Notable Land marks:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

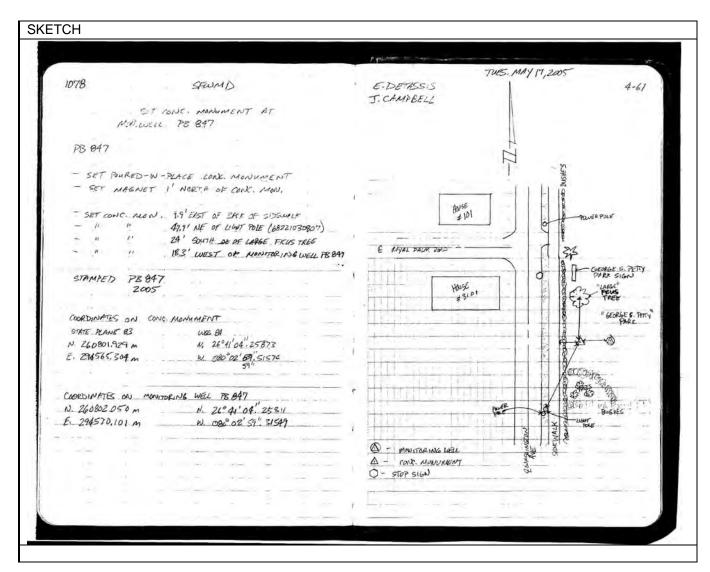
Rev. 4/01

COUNTY PALM BEACH	PROJECT Hydrology –		DESIGNATION PB 847 2005		
	Palm Beach Co	ounty Wells			
SECTION 34 TOWNSH		S SOUTH	RANGE 43 EAST		
GEOGRAPHIC INDEX OF QUAD					
Established by Nick Miller Inc.	NAME OF QUADRANGLE				
Recovered by		Palm Beach			
SURVEYOR Stephen M. Gordon DATE 8/26/2005 FIELD BOOK 4 PAGE 61				<u>61</u>	
HORIZONTAL DATUM: 1927 1983 Other (circle one) ZONE E or W					
STATE PLANE COORDINATES	E 966,410 ft	N 855,	,639 ft		
LATITUDE: N 26.68452°		LONGITUDE: W 80	.04987°		
VERTICAL DATUM: MSL 1929	(circle	e one) EL. 3	.67 ft		
VERTICAL DATUM: MSL 1929	(circle	e one) EL. 5	EL. 5.19 ft		
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3					
DESCRIPTION					
To Reach:					
FROM INTERSECTION SOUTHERN BLVD. AND WASHINGTON ROAD. GO NORTH ON WASHINGTON ROAD FOR 0.6 MILES TO STOP SIGN OF INTERSECTION WASHINGTON AVE AND ROYAL PALM ROAD. CONCRETE MONUMENT WILL BE ON RIGHT IN GEORGE S. PETTY PARK. 9.9' EAST OF BACK OF SIDEWALK. 47.9' NORTHEAST OF LIGHT POLE (68221030807). 24.0' SOUTH OF LARGE FICUS TREE. 18.3' WEST OF MONITORING WELL PB 847.					
Benchmarks Used: L 233 and M 233					



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



PB 847. ABS

Windows Abstra Version 2.3 -- Jan 1, 2004 Mon Aug 01 17: 22: 57 2005

-*- FIELD ABSTRACT -*-HGZ L26704 8.0 MM ORDER 2 CLASS 2 PAGE 1 050713-050801 SOUTH FLORIDA WATER MANAGEMENT DISTRICT PALM BEACH COUNTY MONITORING WELLS ESTABLISH BENCH MARK NEAR MONITORING WELL PB 847 **FROM** START F/B DI ST **ELEV DIFF** -(F+B) MEAN DIFF T0 TOTAL TOTAL

C FLD ELEV (KM) (MM) (MT) (MT) 0263 L 233 5.70300 0263 L 233 7131325 F 1. 90 -4. 58423 1.71 -4.58336 0262 PB 847 7190900 F 1.89 -4. 58364 2 8010815 B 1.90 4. 58222 1 SL 1 1.89 1.71 1.11964 7150900 B 1.26 2 0263 L 233 0.54621 0.00 -0. 54621 0264 M 233 1.26 0.00 5. 15679°

ELEVATION REJECTION AND ERROR CODES

C - section elevation difference was rejected for cause ie. *43* record rejection code set to "F"

R - section elevation difference was rejected by Halperin rejection algorithm

@ - section elevation difference does not include refraction correction

section elevation difference does not include rod correction

F INSTRUMENT CODE INSTRUMENT RODS

1 243 - 332854 396 - 111 396 - 222
2 243 - 332854 396 - 333 396 - 444

LEVEL LINE SECTION RUNNING TREE

0263 (0262) 0264₽ FIELD DISTANCE VS. COMPUTED FROM T0 N. LATITUDE W. LONGI TUDE 0.00 264033 0800327 0.00 0263 0263 0262 264104 0800259 1.89 1.23 263952 0263 0264 0800328 1.26 1. 26♀ Windows Abstra Version 2.3 -- Jan 1, 2004 -- Mon Aug 01 17: 22: 57 2005

SECTION FROM TO ERRORMESSAGES

0263 0262 *** Field distance exceeds computed distance by more than 0.50 KM!

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
AD2805 DESIGNATION - L 233
AD2805 PID - AD280
 AD2805
         PID
                         AD2805
         STATE/COUNTY- FL/PALM BEACH
 AD2805
         USGS QUAD - PALM BEACH (1983)
 AD2805
 AD2805
                                   *CURRENT SURVEY CONTROL
 AD2805
 AD2805
 AD2805* NAD 83(1986) - 26 40 33.
                                                 080 03 27.
s) 18.71
                                         (N)
                                                                 (W)
                                                                          SCALED
                                 5.703
 AD2805* NAVD 88
                                                                 (feet)
                                                                          ADJUSTED
                                         (meters)
 AD2805
         GEOID HEIGHT-
 AD2805
                                 -26.39
                                         (meters)
                                                                          GEOID03
 AD2805
         DYNAMIC HT -
                                   5.694 (meters)
                                                         18.68
                                                                 (feet)
                                                                          COMP
                             979,117.1
         MODELED GRAV-
                                                                          NAVD 88
 AD2805
                                          (mgal)
 AD2805
         VERT ORDER - FIRST
                                    CLASS I
 AD2805
 AD2805
 AD2805. The horizontal coordinates were scaled from a topographic map and have
 AD2805.an estimated accuracy of +/- 6 seconds.
 AD2805. The orthometric height was determined by differential leveling
 AD2805.and adjusted by the National Geodetic Survey in September 1992.
 AD2805.WARNING-Repeat measurements at this control monument indicate possible
 AD2805.vertical movement.
 AD2805. The geoid height was determined by GEOID03.
 AD2805
 AD2805. The dynamic height is computed by dividing the NAVD 88
 AD2805.geopotential number by the normal gravity value computed on the AD2805.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AD2805.degrees latitude (g = 980.6199 \text{ gals.}).
 AD2805
 AD2805. The modeled gravity was interpolated from observed gravity values.
 AD2805
 AD2805;
                              North
                                              East
                                                      Units Estimated Accuracy
 AD2805;SPC FL E
                           259,840.
                                          293,810.
                                                         MT (+/- 180 meters Scaled)
 AD2805
 AD2805
                                    SUPERSEDED SURVEY CONTROL
 AD2805
 AD2805
         NAVD 88 (06/15/91)
                                 5.715
                                                         18.75
                                                                  (f) UNKNOWN
                                         (m)
                                                                                   1 1
         NGVD 29 (09/01/92)
                                                                 (f) ADJUSTED
                                                                                   1 1
 AD2805
                                 6.166
                                         (m)
                                                         20.23
 AD2805
 AD2805.Superseded values are not recommended for survey control.
 AD2805.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AD2805. See file dsdata.txt to determine how the superseded data were derived.
 AD2805
 AD2805_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK937508(NAD 83) AD2805_MARKER: DB = BENCH MARK DISK
 AD2805_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
 AD2805_SP_SET: PIER
AD2805_STAMPING: L 233 1965
 AD2805_MARK LOGO: CGS
 AD2805_MAGNETIC: N = NO MAGNETIC MATERIAL
 AD2805_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL AD2805_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AD2805+SATELLITE: SATELLITE OBSERVATIONS - March 17, 1992
 AD2805
                                  {\tt Condition}
 AD2805
         HISTORY
                      - Date
                                                     Report By
 AD2805 HISTORY
                      - 1965
                                  MONUMENTED
                                                     CGS
        HISTORY
HISTORY
                      - 1973
- 1983
 AD2805
                                  POOR
                                                     NGS
 AD2805
                                  MARK NOT FOUND
                                                     USPSQD
                                  MARK NOT FOUND
 AD2805
        HISTORY
                      - 1987
                                                     USPSQD
        HISTORY
                      - 19910114 GOOD
 AD2805
                                                     NGS
 AD2805
         HISTORY
                      - 19920317 GOOD
                                                     NGS
 AD2805 HISTORY
                      - 20011110 GOOD
                                                     USPSQD
                      - 20030304 GOOD
 AD2805 HISTORY
                                                     USPSQD
                      - 20040417 GOOD
 AD2805 HISTORY
                                                     USPSQD
```

AD2805 HISTORY

```
- 20050422 GOOD
AD2805
AD2805
                                     STATION DESCRIPTION
AD2805
AD2805'DESCRIBED BY COAST AND GEODETIC SURVEY 1965
AD2805'AT WEST PALM BEACH.
AD2805'AT WEST PALM BEACH, ABOUT 2.95 MILES SOUTH ALONG THE FLORIDA EAST AD2805'COAST RAILWAY FROM THE PASSENGER STATION, ABOUT 0.1 MILE NORTH
AD2805'OF MILEPOST 302, IN SECTION 34, R 43 E, T 44 S, AT THE U.S. AD2805'HIGHWAY 98 OVERPASS, SET VERTICALLY IN THE WEST FACE NEAR THE
AD2805 NORTH END OF THE FIRST CONCRETE PIER EAST OF THE MAIN TRACK,
AD2805'1.2 FEET SOUTH OF THE NORTH END OF THE PIER, 8.5 FEET EAST OF THE AD2805'EAST RAIL OF THE NORTHBOUND MAIN TRACK, ABOUT 3.0 FEET ABOVE THE
AD2805'LEVEL OF THE GROUND AND ABOUT 2 FEET ABOVE THE LEVEL OF THE
AD2805'TRACK. NOTE-- THE RAILWAY PASSENGER STATION NO LONGER EXISTS
AD2805'MARK IS SECURELY IN PLACE BUT DISK HAS BEEN STRUCK WITH A HEAVY
AD2805'INSTRUMENT.
AD2805
AD2805
                                     STATION RECOVERY (1973)
AD2805
AD2805'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973
AD2805'MARK RECOVERED IN POOR CONDITION.
AD2805
AD2805
                                     STATION RECOVERY (1983)
AD2805
AD2805'RECOVERY NOTE BY US POWER SQUADRON 1983
AD2805'MARK NOT FOUND.
AD2805
AD2805
                                     STATION RECOVERY (1987)
AD2805
AD2805'RECOVERY NOTE BY US POWER SQUADRON 1987 (JSS)
AD2805'MARK NOT FOUND.
AD2805
AD2805
                                     STATION RECOVERY (1991)
AD2805
AD2805'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
AD2805'IN WEST PALM BEACH, AT THE INTERSECTION OF THE FLORIDA EAST COAST
AD2805'RAILROAD AND U.S. HIGHWAY 98 (SOUTHERN BOULEVARD), SET VERTICALLY IN AD2805'THE WEST FACE OF THE SECOND COLUMN SOUTH OF THE NORTH END OF THE
AD2805'FIRST PIER EAST OF THE MAIN TRACK OF THE HIGHWAY BRIDGE SPANNING THE
AD2805'RAILROAD, 3.5 M (11.5 FT) SOUTH OF THE NORTH END OF THE PIER, 2.7 M AD2805'(8.9 FT) EAST OF THE NEAR RAIL, AND 0.9 M (3.0 FT) ABOVE THE GROUND
AD2805'SURFACE.
AD2805
AD2805
                                     STATION RECOVERY (1992)
AD2805
AD2805'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992
AD2805'IN WEST PALM BEACH, AT THE INTERSECTION OF THE FLORIDA EAST COAST
AD2805'RAILROAD AND U.S. HIGHWAY 98 (SOUTHERN BOULEVARD) SET VERTICALLY IN
AD2805'THE WEST FACE OF THE SECOND COLUMN SOUTH OF THE NORTH END OF THE
AD2805'FIRST PIER EAST OF THE MAIN TRACK OF THE HIGHWAY BRIDGE SPANNING THE
AD2805'RAILROAD, 3.5 M (11.5 FT) SOUTH OF THE NORTH END OF THE PIER, 2.7 M
AD2805'(8.9 FT) EAST OF THE NEAR RAIL, AND 0.9 M (3.0 FT) ABOVE THE GROUND
AD2805'SURFACE.
AD2805
AD2805
                                     STATION RECOVERY (2001)
AD2805
AD2805'RECOVERY NOTE BY US POWER SQUADRON 2001 (AAS)
AD2805'MARK PAINTED OVER BUT STILL LEGIBLE
AD2805
                                     STATION RECOVERY (2003)
AD2805
AD2805
AD2805'RECOVERY NOTE BY US POWER SQUADRON 2003 (AAS)
AD2805'RECOVERED IN GOOD CONDITION.
AD2805
                                     STATION RECOVERY (2004)
AD2805
AD2805
AD2805'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS)
AD2805'RECOVERED IN GOOD CONDITION.
AD2805
                                     STATION RECOVERY (2005)
AD2805
AD2805
AD2805'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS)
AD2805'RECOVERED IN GOOD CONDITION.
*** retrieval complete.
Elapsed Time = 00:00:00
```

USPSQD

DATASHEETS Page 1 of 3

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.7.1
1 National Geodetic Survey, Retrieval Date = AUGUST 27, 2015
AD2804 DESIGNATION - M 233
AD2804 PID - AD2804
AD2804 STATE/COUNTY- FL/PALM BEACH
AD2804 COUNTRY - US
AD2804 USGS QUAD - PALM BEACH (1983)
AD2804
AD2804
                              *CURRENT SURVEY CONTROL
AD2804
AD2804* NAD 83(1986) POSITION- 26 39 53. (N) 080 03 27. (W)
AD2804* NAVD 88 ORTHO HEIGHT - 5.147 (meters) 16.89 (feet) ADJUSTED
AD2804
AD2804 GEOID HEIGHT -
                            -26.38 (meters) GEOLI
5.139 (meters) 16.86 (feet) COMP
NAVD
                                                                  GEOID12B
AD2804 DYNAMIC HEIGHT - 5.139 (meters AD2804 MODELED GRAVITY - 979,116.2 (mgal)
                                                                  NAVD 88
AD2804
AD2804 VERT ORDER - FIRST CLASS II
AD2804
AD2804. The horizontal coordinates were scaled from a topographic map and have
AD2804.an estimated accuracy of \pm 6 seconds.
AD2804.
AD2804. The orthometric height was determined by differential leveling and
AD2804.adjusted by the NATIONAL GEODETIC SURVEY
AD2804.in January 2014.
AD2804
AD2804. The dynamic height is computed by dividing the NAVD 88
AD2804.geopotential number by the normal gravity value computed on the
AD2804.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD2804.degrees latitude (g = 980.6199 \text{ gals.}).
AD2804. The modeled gravity was interpolated from observed gravity values.
AD2804
AD2804; North AD2804; SPC FL E - 258,600.
                                    East Units Estimated Accuracy
                                     293,820. MT (+/-180 \text{ meters Scaled})
AD2804
AD2804
                             SUPERSEDED SURVEY CONTROL
AD2804
AD2804 NAVD 88 (09/04/92) 5.150 (m)
                                                16.90 (f) SUPERSEDED 1 1
AD2804 NAVD 88 (06/15/91) 5.150 (m)
                                                16.90 (f) SUPERSEDED 1 1
AD2804 NGVD 29 (??/??/92)
                             5.615 (m)
                                                 18.42 (f) SUPERSEDED 1 1
AD2804 NGVD 29 (09/01/92)
                            5.615 (m)
                                                 18.42
                                                        (f) ADJUSTED
AD2804
AD2804. Superseded values are not recommended for survey control.
AD2804.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD2804. See file dsdata.txt to determine how the superseded data were derived.
AD2804 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK937496(NAD 83)
AD2804
AD2804 MARKER: DB = BENCH MARK DISK
AD2804 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AD2804 SP SET: CONCRETE POST
AD2804 STAMPING: M 233 1965
AD2804 MARK LOGO: CGS
AD2804 PROJECTION: FLUSH
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DATASHEETS Page 2 of 3

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AD2804 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AD2804 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AD2804+STABILITY: SURFACE MOTION
AD2804 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD2804+SATELLITE: SATELLITE OBSERVATIONS - August 16, 2006
AD2804 HISTORY
                                Condition
                    - Date
                                                   Report By
AD2804 HISTORY
                    - 1965
                               MONUMENTED
                                                   CGS
AD2804 HISTORY
                     - 1973
                                GOOD
                                                   NGS
AD2804 HISTORY
                     - 1983 GOOD
- 1987 GOOD
                                                   USPSQD
AD2804 HISTORY
                                                  USPSQD
                   - 19910114 GOOD
AD2804 HISTORY
                                                  NGS
AD2804 HISTORY
                    - 19920317 GOOD
AD2804 HISTORY - 20030401 GOOD

AD2804 HISTORY - 20040405 GOOD

AD2804 HISTORY - 20041117 GOOD

AD2804 HISTORY - 20050408 GOOD

AD2804 HISTORY - 20060425 GOOD

AD2804 HISTORY - 20060816 GOOD
                                                  USPSOD
                                                  USPSQD
                                                   USPSOD
                                                  USPSOD
                                                  FLDEP
AD2804
AD2804
                                  STATION DESCRIPTION
AD2804
AD2804'DESCRIBED BY COAST AND GEODETIC SURVEY 1965
AD2804'AT WEST PALM BEACH.
AD2804'AT WEST PALM BEACH, ABOUT 3.7 MILES SOUTH ALONG THE FLORIDA EAST
AD2804'COAST RAILWAY FROM THE PASSENGER STATION, ABOUT 0.35 MILE NORTH
AD2804'OF MILEPOST 303, NEAR THE CROSSING OF BUNKER ROAD, IN SECTION
AD2804'3, R 43 E, T 44 S, BETWEEN THE SIDEWALK AND THE CURB OF BUNKER
AD2804'ROAD, 149.0 FEET EAST OF THE EAST RAIL OF THE NORTHBOUND MAIN
AD2804'TRACK, 120.0 FEET NORTH-NORTHWEST OF THE NORTHWEST CORNER OF THE
AD2804'BUILDING HOUSING GERMAN MOTORS INC., 2.5 FEET SOUTH OF THE SOUTH
AD2804'CURB OF THE ROAD, 3.3 FEET NORTH OF THE NORTH EDGE OF THE
AD2804'SIDEWALK, 1.2 FEET SOUTH OF A SIGN READING NO PARKING, ABOUT LEVEL
AD2804'WITH THE CURB AND SET IN THE TOP OF A CONCRETE POST FLUSH WITH
AD2804'THE GROUND. NOTE-- THE RAILWAY PASSENGER STATION NO LONGER
AD2804'EXISTS.
AD2804
AD2804
                                  STATION RECOVERY (1973)
AD2804
AD2804'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973
AD2804'RECOVERED IN GOOD CONDITION.
AD2804
AD2804
                                  STATION RECOVERY (1983)
AD2804
AD2804'RECOVERY NOTE BY US POWER SOUADRON 1983
AD2804'RECOVERED IN GOOD CONDITION.
AD2804
AD2804
                                  STATION RECOVERY (1987)
AD2804'RECOVERY NOTE BY US POWER SQUADRON 1987 (JSS)
AD2804'RECOVERED IN GOOD CONDITION.
AD2804
AD2804
                                  STATION RECOVERY (1991)
AD2804
AD2804'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991
AD2804'IN WEST PALM BEACH, AT THE INTERSECTION OF THE FLORIDA EAST COAST
AD2804'RAILROAD AND BUNKER ROAD, 45.3 M (148.6 FT) EAST OF THE NEAR RAIL,
AD2804'36.7 M (120.4 FT) WEST OF THE NORTHWEST CORNER OF THE PALM BEACH BODY
AD2804'SHOP, 26.9 M (88.3 FT) EAST OF THE EXTENDED CENTER OF NORTON AVENUE,
AD2804'21.6 M (70.9 FT) EAST OF A CHAIN-LINK FENCE CORNER, 7.5 M (24.6 FT)
AD2804'SOUTH OF AND LEVEL WITH THE ROAD CENTERLINE, 2.6 M (8.5 FT) NORTH OF
AD2804'A WITNESS POST AND FENCE, 1.1 M (3.6 FT) NORTH OF THE NORTH EDGE OF A
AD2804'SIDEWALK, 0.9 M (3.0 FT) SOUTH OF A CURB, AND THE MONUMENT IS FLUSH
AD2804'WITH THE GROUND SURFACE.
AD2804
AD2804
                                  STATION RECOVERY (1992)
```

DATASHEETS Page 3 of 3

AD2804'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992 AD2804'IN WEST PALM BEACH, AT THE INTERSECTION OF THE FLORIDA EAST COAST AD2804'RAILROAD AND BUNKER ROAD, 45.3 M (148.6 FT) EAST OF THE NEAR RAIL, AD2804'36.7 M (120.4 FT) WEST OF THE NORTHWEST CORNER OF THE PALM BEACH BODY AD2804'SHOP, 26.9 M (88.3 FT) EAST OF THE EXTENDED CENTER OF NORTON AVENUE, AD2804'21.6 M (70.9 FT) EAST OF A CHAIN-LINK FENCE CORNER, 7.5 M (24.6 FT) AD2804'SOUTH OF AND LEVEL WITH THE ROAD CENTERLINE, 2.6 M (8.5 FT) NORTH OF AD2804'A WITNESS POST AND FENCE, 1.1 M (3.6 FT) NORTH OF THE NORTH EDGE OF A AD2804'SIDEWALK, 0.9 M (3.0 FT) SOUTH OF THE SOUTH CURB OF THE ROAD, AND THE AD2804'MONUMENT IS FLUSH WITH THE GROUND SURFACE. AD2804 AD2804 STATION RECOVERY (2003) AD2804 AD2804'RECOVERY NOTE BY US POWER SOUADRON 2003 (AAS) AD2804'RECOVERED IN GOOD CONDITION. AD2804 STATION RECOVERY (2004) AD2804 AD2804'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS) AD2804'RECOVERED IN GOOD CONDITION. AD2804 AD2804 STATION RECOVERY (2004) AD2804 AD2804'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (JLM) AD2804'RECOVERED IN GOOD CONDITION. AD2804'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE AD2804 MONUMENT. AD2804 AD2804 STATION RECOVERY (2005) AD2804 AD2804'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS) AD2804'RECOVERED IN GOOD CONDITION. AD2804 AD2804 STATION RECOVERY (2006) AD2804 AD2804'RECOVERY NOTE BY US POWER SOUADRON 2006 (AAS) AD2804'RECOVERED IN GOOD CONDITION. AD2804 AD2804 STATION RECOVERY (2006) AD2804 AD2804'RECOVERY NOTE BY FL DEPT OF ENV PRO 2006 (JRH) AD2804'RECOVERED AS DESCRIBED. *** retrieval complete.

Elapsed Time = 00:00:04