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# Surveyor's Report

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## VERTICAL DATUM UPGRADE PROJECT

SFWMD Work Order Number: 4500019819

Contractors Project No.: 06-1108-08-01

Report Date: March 11, 2008 Revised June 5, 2008

Submittal: Final

Prepared for:

South Florida Water Management  
District



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## **OVERVIEW OF THE PROJECT**

### **PURPOSE**

This survey request consists of the establishment of elevations to third order National Geodetic Survey (NGS) Standards at:

- C23FEC      Martin County
  
- L31NT      Miami-Dade County
- G119      Miami-Dade County
- KROME      Miami-Dade County
  
- SAV1      St. Lucie County
- SAV4      Martin County
- SAV5      Martin County
- SAV6      Martin County

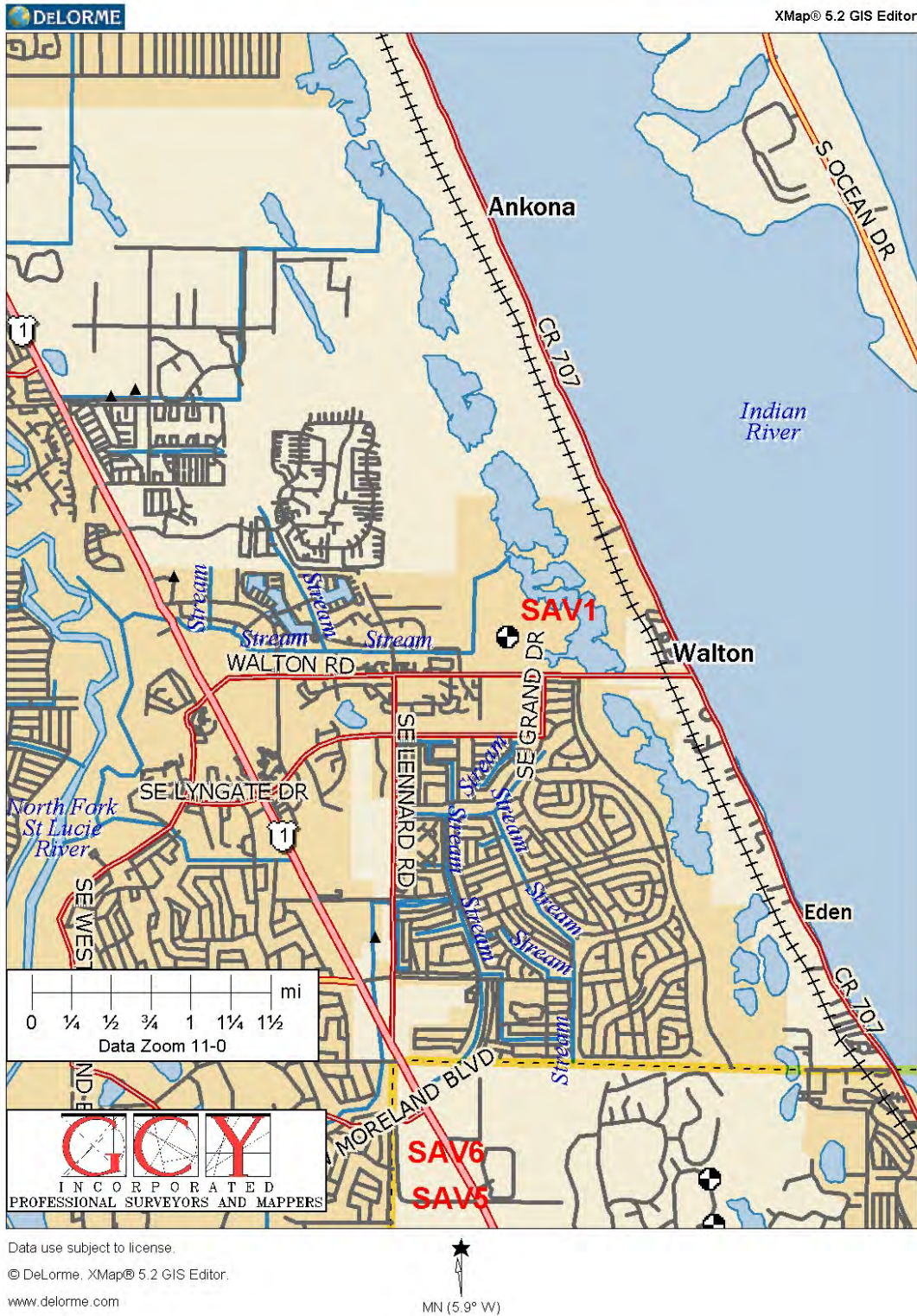
This survey request is associated with the District's Vertical Datum Upgrade Project (VDUP).

The objective of this Work Order is to establish a benchmark at the site and tie in the stilling wells by establishing NGS third order elevations referring to both the North American Vertical Datum of 1988 (NAVD 1988) and the National Geodetic Vertical Datum of 1929 (NGVD29) at the site.

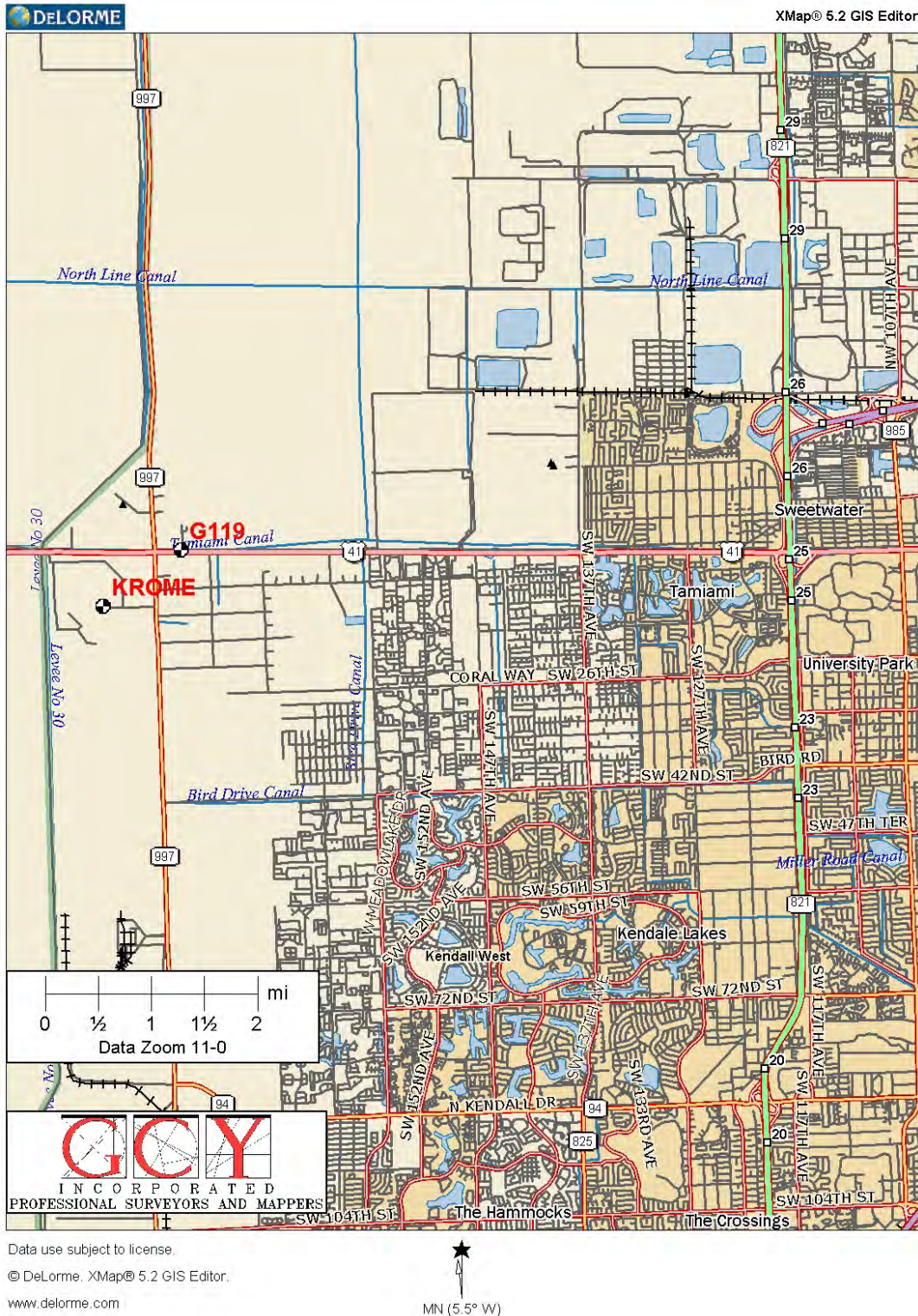
### **LOCATION OF PROJECT**

The project is located St. Lucie, Martin and Miami-Dade Counties. Following are vicinity maps for each site.













**ITEMS DELIVERED TO THE DISTRICT**

The following items are delivered to the District with this report. Neither the report nor the items listed below are complete without the other.

1. Two signed and sealed paper copies of the surveyor's report.
2. A CD with the company's logo, Title of the Survey with a list of all sites, date of the survey on the face of the CD or DVD and on the top of the CD and in **SFWMD** file folder format containing the following:
  - The survey reports in Microsoft Word format and pdf format signed and seal copy.
  - Digital photos.
  - Scanned copies of field notes.
  - Any other digital files associated with the survey.
  - Completed District benchmark description sheet for all found or set benchmarks.
  - Completed Excel benchmark spread sheet
  - Completed Addendum sheet

**VERTICAL DATUM FOR THE PROJECT**

The vertical datum for the project is the North American Vertical Datum of 1988. For correlation with older data sets, the elevations of the benchmarks are also shown in the National Geodetic Vertical Datum (NGVD) of 1929. The NGVD 29 elevations were derived using data provided by the South Florida Water Management District in a file named "NGVD29.txt" when applicable, otherwise NGS superseded values were used. The linear unit for all elevations is the U.S. Survey Feet unless otherwise stated.

**SITE “KROME”**

**NEW BENCHMARK**

A new benchmark was constructed by drilling a hole and epoxying a 2” aluminum South Florida Water Management District disk stamped “So. Fla. Water Mgt Dist. Survey Marker KROME 2008” into the top of a concrete base for a security light opposite the perimeter road from the well site.

**LEVELING**

All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “C 237 RESET” (NGS PID AJ7746) and continued onto NGS benchmark “203” (NGS PID AJ8367) with a closure of 0.026 feet over a distance of 0.37 miles. Leveling continued through the newly constructed benchmark “KROME 2008” and closed on NGS benchmark “U 626” (NGS PID DH9605) with a cumulative closure error of 0.034 feet over a distance of 3.44 miles. Leveling continued onto NGS benchmark “G 119” (NGS PID DH9621) with a cumulative closure error of 0.030 feet over a distance of 3.72 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{distance}}$  of the distance run (in miles).

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	KROME
NGVD 1929 ELEVATION	10.73
NAVD 1988 ELEVATION	9.206
LATITUDE	N 25 45 13.0
LONGITUDE	W 80 29 20.4
<b><i>WELL DATA</i></b>	
WELL NAME	KROME
REF. ELEVATION NGVD	11.073
REF. ELEVATION NAVD	9.549
DIST TO WATER	7.05' DATE: 02-04-2008

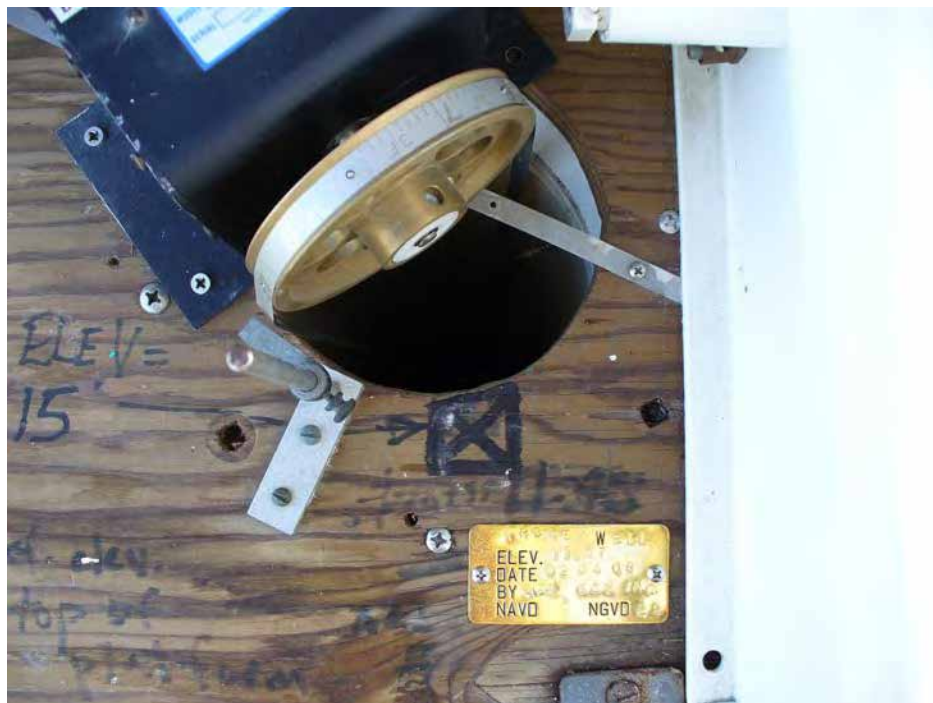
NOTE: There is not a staff gauge in the area of this well.



KROME Well



Benchmark



**KROME BENCHMARK DATASHEET**

<b>COUNTY :</b> <u>MIAMI-DADE</u>	<b>PROJECT</b>	<b>DESIGNATION</b> <u>KROME</u>
<b>SECTION</b> <u>12</u>	<b>TOWNSHIP</b> <u>54 SOUTH</u>	<b>RANGE</b> <u>38 EAST</u>
<b>GEOGRAPHIC INDEX OF QUAD</b>		
Established by : <u>GCY, INC</u> _____ Recovered by		<b>NAME OF QUADRANGLE</b> <u>HIALEAH</u>
<b>SURVEYOR</b> <u>ANDERSEN</u> <b>DATE:</b> <u>2-4-2008</u>		<b>FIELD BOOK</b> <u>113A</u> <b>PAGE</b> <u>65</u>
<b>HORIZONTAL DATUM:</b> <u>1927</u> <u>1983</u> Other _____ (circle one) <b>ZONE</b> <u>E</u> or <b>W</b>		
<b>STATE PLANE COORDINATES</b>		
<b>E</b> <u>824352 FT</u>		<b>N</b> <u>516467 FT</u>
<b>LATITUDE:</b> N DD MM SS.S <u>N 25 45 13.0</u>		<b>LONGITUDE:</b> W DD MM SS.S <u>W 80 29 20.4</u>
<b>VERTICAL DATUM:</b> MSL <u>1929</u> <u>1988</u> Other _____ (circle one)		<b>EL.</b> <u>9.206</u> ft
<b>VERTICAL DATUM:</b> MSL <u>1929</u> <u>1988</u> Other _____ (circle one)		<b>EL.</b> <u>10.730</u> ft
<b>CONTROL ACCURACY:</b> HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>		
<b>DESCRIPTION</b>		
<p>To Reach: FROM THE INTERSECTION OF U.S. 41 (TAMIAMI TRAIL) AND KROME AVE. GO SOUTH ON KROME AVE APPROX 2735 FEET TO THE ENTRANCE TO KROME DETENTION CENTER ON RIGHT; THENCE GO WEST ON THE ENTRANCE ROAD FOR APPROX. 2590 FEET TO STATION ON RIGHT IN BASE OF CONCRETE LIGHT POLE # 74 APPROX 34 FEET NORTH OF NORTH EDGE OF PAVEMENT. NOTE: STATION IS IN SECURE AREA, PERMISSION AND ESCORT MUST BE OBTAINED FROM IMMIGRATION AND CUSTOMS ENFORCEMENT (ICE).</p> <p>Benchmarks Used: NGS – U 626, G 119, C 237 RESET, 203</p> <p>Notable Land marks:</p>		



Scanned Copy of Field book page

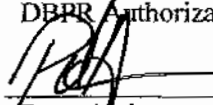


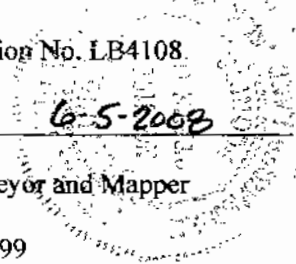
Picture

**SURVEYOR'S CERTIFICATION**

I hereby certify that this report of survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61-G17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

02/06/2008  
Date of Survey

By:  6-5-2008  
Peter Andersen  
Professional Surveyor and Mapper  
State of Florida  
Certificate No. 5199





SFMWD - VDUP3  
SET "KROME" BM

(WGS 84)

PRO. XR # 10007

N:  $25^{\circ} 45' 13.00207''$

516466.7

H:  $80^{\circ} 29' 20.42997''$

824351.9

DRILLED A  $\frac{3}{4}$ " HOLE ON TOP OF CONC. PAD  
FOR LIGHT POLE #74, SET A 2" ALUMI  
CONC IN HOLE AND FILLED W/ EPOXY.  
"SO. FLA. WATER MANAGEMENT DIST  
SURVEY MARKER " "KROME 2008"

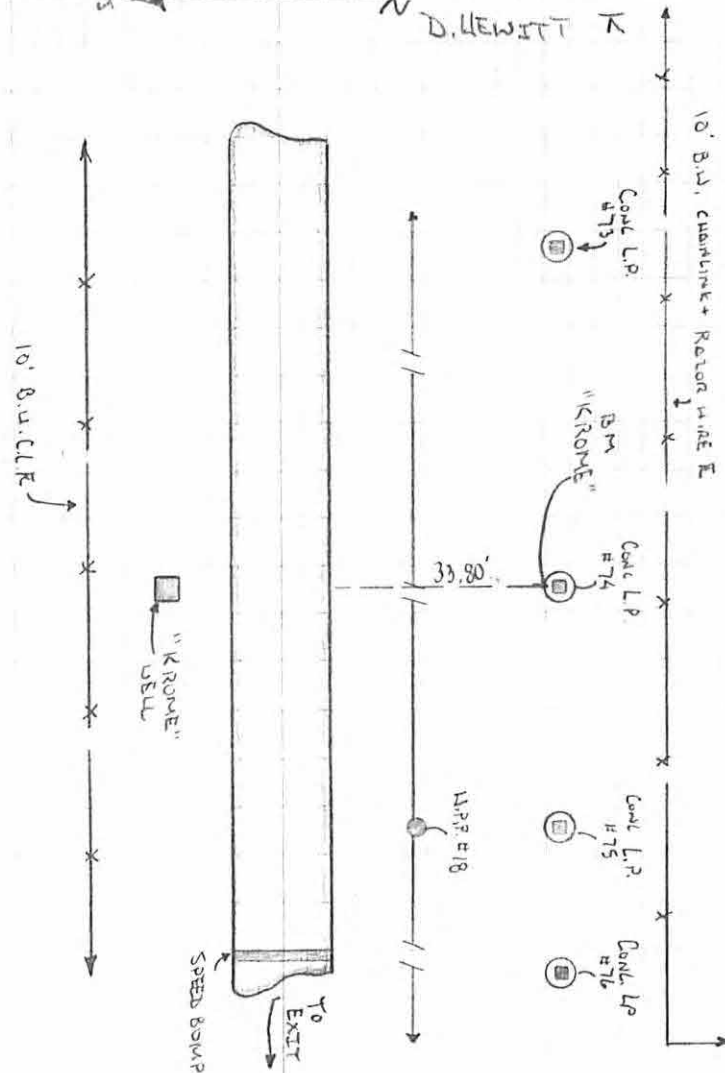
113A 65

06-11-08-08  
77° cloudy

2-4-08 Mon

M. LaPolla PC

D. HEWITT K



STA	TOTAL DIST	Gr. Ht	Gr. Ht
4	1950.8'	12.230'	
23	12552.1'	9.206'	10.73'
35	18164.0'	12.422'	
39	19618.6'	7.316'	

SFWM - VDUPS  
 BENCH RUN FOR "KROME"  
 PEG TEST: COLL DIFF: -2.4"  
 ABS COLL: 20.8"  
 NAVD 88 NGVD 29  
 Gr. Ht Gr. Ht  
 6.922'

113A 66

06-11-08-08  
 77° CLOUDY

2-4-08 MON  
 M. LABRITA PC  
 D. NEWITT K

DESC  
 BM C257 RESET NAVD 88 EL = 6.922'

Bm 203 NAVD 88 EL = 12.204'  
 FIELD = 12.230'  
 ERR = .026  
 MTS = .03

Bm "KROME" PRO-XR # 10007  
 SEE PG 65 FOR MORE INFO.

Bm U626 NAVD 88 EL = 12.388'  
 FIELD = 12.422'  
 ERR = .034  
 MTS =

Bm G119 LISTED NAVD 88 EL = 7.286'  
 FIELD = 7.316'  
 ERR = .03  
 MTS = .096

ADD 1.524' TO NAVD 88 EL TO = NGVD 29 EL

3.71 m, 1.25'

U626 = 12.388'  
 203 = 12.204'

C257 RESET = 6.922'

## SFWMD-VDUP3

BEACH ROAD TO WELL "KROME"

STA	+ ft	LI	- ft	NGVD29 EL
0	3.826			10.73'
	3.678			
	3.529			
	(3.677)	14.407'	3.506	
			3.335	
1			3.163	
			(3.384)	11.073'
	3.207			
	3.035			
	2.863			
2	(3.035)	14.108'	3.524	
			3.376	
			3.228	
			(3.376)	10.732'

113A 67

06-1108-02


75° M. SUNNY

2-4-08 MON

M. LaBella PC

D. HEWITT T

DESC  
 BM "KROME" LISTED NGVD EL = 10.73'

"" ON TOP OF PLYWOOD INSIDE WELL "KROME"

BM "KROME" LISTED = 10.73'  
 FIELD = 10.732'  
 ERR = .002

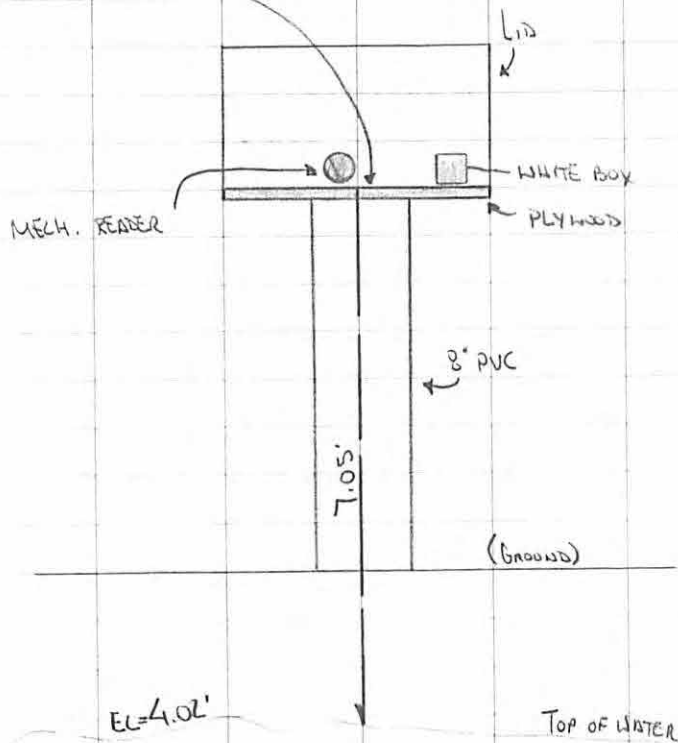
STUMD-VDUPS

MEASURE DOWN TO TOP OF WATER  
@ WELL "KROME"

NGVD 27 = 11.073'

☒ = REFF. MARK SET ON

TOP OF PLYWOOD



113A 68

06-1102-08

78° M. SUNNY

2-4-08 MON

M. LOBELLS PC

D. HEWITT K

PICTURES

PIC #

DESC

- | PIC # | DESC   |
|-------|--|
| 260   | Looking Down @ BM "KROME"                    |
| 261   | " "  |
| 262   | " "  |
| 263   | Looking NE @ BM "KROME"                      |
| 264   | STANDING BEHIND WELL Looking N. @ BM "KROME" |
| 265   | Looking NW @ WELL + BM                       |
| 266   | Looking N. @ BM "KROME"                      |
| 267   | Looking E. @ WELL                            |
| 268   | STANDING BEHIND BM "KROME" Looking S. @ WELL |
| 269   | Looking Down @ WELL                          |
| 270   | " " TAG "                                    |
| 271   | " "  |

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26219 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained  
 Mark ID SSN PID Designation Geopotential Elevation Codes  
 1402 0905 AJ7746 C 237 RESET 2.5326 2.5843  
 Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained  
 Mark ID SSN PID Designation Geopotential Elevation Codes  
 805 0026 AJ8367 203 4.1109 4.1948

# The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8367 *****
AJ8367 DESIGNATION - 203
AJ8367 PID - AJ8367
AJ8367 STATE/COUNTY- FL/MIAMI-DADE
AJ8367 COUNTRY - US
AJ8367 USGS QUAD - HIALEAH SW (1988)
AJ8367
AJ8367 *CURRENT SURVEY CONTROL
AJ8367
AJ8367* NAD 83(1986) POSITION- 25 45 39. (N) 080 29 51. (W) SCALED
AJ8367* NAVD 88 ORTHO HEIGHT - 3.720 (meters) 12.20 (feet) ADJUSTED
AJ8367
AJ8367 GEOID HEIGHT - -24.680 (meters) GEOID12B
AJ8367 DYNAMIC HEIGHT - 3.714 (meters) 12.19 (feet) COMP
AJ8367 MODELED GRAVITY - 979,030.3 (mgal) NAVD 88
AJ8367
AJ8367 VERT ORDER - FIRST CLASS II
AJ8367
AJ8367.The horizontal coordinates were scaled from a topographic map and have
AJ8367.an estimated accuracy of +/- 6 seconds.
AJ8367.
AJ8367.The orthometric height was determined by differential leveling and
AJ8367.adjusted by the NATIONAL GEODETIC SURVEY
AJ8367.in June 2002.
AJ8367
AJ8367.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8367.GEOID12B height accuracy estimate available here.
AJ8367
AJ8367.Photographs are available for this station.
AJ8367
AJ8367.The dynamic height is computed by dividing the NAVD 88
AJ8367.geopotential number by the normal gravity value computed on the
AJ8367.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8367.degrees latitude (g = 980.6199 gals.).
AJ8367
AJ8367.The modeled gravity was interpolated from observed gravity values.
AJ8367
AJ8367; North East Units Estimated Accuracy
AJ8367;SPC FL E - 158,220. 250,410. MT (+/- 180 meters Scaled)
AJ8367
AJ8367 SUPERSEDED SURVEY CONTROL
AJ8367
AJ8367.No superseded survey control is available for this station.
AJ8367
AJ8367_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ503492(NAD 83)
AJ8367
AJ8367_MARKER: DD = SURVEY DISK
AJ8367_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AJ8367_SP_SET: BRIDGE GUARDRAIL
AJ8367_STAMPING: 203
AJ8367_MARK LOGO: FLDT
AJ8367_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8367_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ8367_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8367+SATELLITE: SATELLITE OBSERVATIONS - March 17, 2005
```

AJ8367				
AJ8367	HISTORY	- Date	Condition	Report By
AJ8367	HISTORY	- UNK	MONUMENTED	FLDT
AJ8367	HISTORY	- 20010103	GOOD	FLDEP
AJ8367	HISTORY	- 20050317	GOOD	FLDEP
AJ8367	HISTORY	- 20080204	GOOD	GCYI
AJ8367	HISTORY	- 20090722	GOOD	DCPW

AJ8367

AJ8367

## STATION DESCRIPTION

AJ8367

AJ8367'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)

AJ8367'THE MARK IS ABOUT 18.2 MI (29.3 KM) NORTH OF HOMESTEAD, 11.0 MI (17.7

AJ8367'KM) SOUTHWEST OF HIALEAH, 10.0 MI (16.1 KM) NORTHWEST OF KENDALL, IN

AJ8367'SECTION 12, TOWNSHIP 54 SOUTH, RANGE 38 EAST. TO REACH THE MARK FROM

AJ8367'THE JUNCTION OF STATE ROAD 997 (KROME AVENUE SW 177 AVENUE) AND U.S.

AJ8367'HIGHWAY 41 (TAMIAMI TRAIL SW 8TH ST) ABOUT 10.0 MI (16.1 KM) SOUTHWEST

AJ8367'OF HIALEAH, GO WEST ON U.S. HIGHWAY 41 (TAMIAMI TRAIL SW 8TH ST) FOR

AJ8367'1.0 TO THE EAST END OF BRIDGE NUMBER 8705851979 AND THE MARK ON THE

AJ8367'LEFT, SET IN TOP OF THE SOUTHEAST BRIDGE RAIL OVER THE ABUTMENT, 2.6

AJ8367'FT (0.8 M) ABOVE THE LEVEL OF U.S. HIGHWAY 41. LOCATED 24.0 FT (7.3

AJ8367'M) SOUTH OF THE APPROXIMATE CENTERLINE OF U.S. HIGHWAY 41 AND 1.1 FT

AJ8367'(0.3 M) WEST OF THE EAST END OF BRIDGE NUMBER 870585 1979 OVER CANAL

AJ8367'31N.

AJ8367

## STATION RECOVERY (2005)

AJ8367

AJ8367'RECOVERY NOTE BY FL DEPT OF ENV PRO 2005 (JLM)

AJ8367'RECOVERED AS DESCRIBED.

AJ8367

## STATION RECOVERY (2008)

AJ8367

AJ8367'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

AJ8367'RECOVERED IN GOOD CONDITION.

AJ8367

## STATION RECOVERY (2009)

AJ8367

AJ8367'RECOVERY NOTE BY DOUGLAS COUNTY PUBLIC WORKS 2009 (LER)

AJ8367'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26219 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained  
 Mark ID SSN PID Designation Geopotential Elevation Codes  
 1402 0905 AJ7746 C 237 RESET 2.5326 2.5843  
 Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained  
 Mark ID SSN PID Designation Geopotential Elevation Codes  
 805 0026 AJ8367 203 4.1109 4.1948

# The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ7746 *****
AJ7746 DESIGNATION - C 237 RESET
AJ7746 PID - AJ7746
AJ7746 STATE/COUNTY- FL/MIAMI-DADE
AJ7746 COUNTRY - US
AJ7746 USGS QUAD - COOPERTOWN (1973)
AJ7746
AJ7746 *CURRENT SURVEY CONTROL
AJ7746
AJ7746* NAD 83(2011) POSITION- 25 45 41.83673(N) 080 30 13.04727(W) ADJUSTED
AJ7746* NAD 83(2011) ELLIP HT- -22.559 (meters) (06/27/12) ADJUSTED
AJ7746* NAD 83(2011) EPOCH - 2010.00
AJ7746* NAVD 88 ORTHO HEIGHT - 2.110 (meters) 6.92 (feet) ADJUSTED
AJ7746
AJ7746 NAD 83(2011) X - 948,306.945 (meters) COMP
AJ7746 NAD 83(2011) Y - -5,669,061.720 (meters) COMP
AJ7746 NAD 83(2011) Z - 2,755,291.820 (meters) COMP
AJ7746 LAPLACE CORR - -1.98 (seconds) DEFLEC12B
AJ7746 GEOID HEIGHT - -24.668 (meters) GEOID12B
AJ7746 DYNAMIC HEIGHT - 2.107 (meters) 6.91 (feet) COMP
AJ7746 MODELED GRAVITY - 979,030.1 (mgal) NAVD 88
AJ7746
AJ7746 VERT ORDER - FIRST CLASS II
AJ7746
AJ7746 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ7746 Standards:
AJ7746 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ7746 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ7746 -----
AJ7746 NETWORK 1.22 2.04 0.53 0.46 1.04 -0.05257568
AJ7746 -----
AJ7746 Click here for local accuracies and other accuracy information.
AJ7746
AJ7746
AJ7746.The horizontal coordinates were established by GPS observations
AJ7746.and adjusted by the National Geodetic Survey in June 2012.
AJ7746
AJ7746.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ7746.frame has been affixed to the stable North American tectonic plate. See
AJ7746.NA2011 for more information.
AJ7746
AJ7746.The horizontal coordinates are valid at the epoch date displayed above
AJ7746.which is a decimal equivalence of Year/Month/Day.
AJ7746
AJ7746.The orthometric height was determined by differential leveling and
AJ7746.adjusted by the NATIONAL GEODETIC SURVEY
AJ7746.in March 2002.
AJ7746
AJ7746.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ7746.GEOID12B height accuracy estimate available here.
AJ7746
AJ7746.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ7746
AJ7746.The Laplace correction was computed from DEFLEC12B derived deflections.
AJ7746
```

AJ7746.The ellipsoidal height was determined by GPS observations  
AJ7746.and is referenced to NAD 83.

AJ7746

AJ7746.The dynamic height is computed by dividing the NAVD 88  
AJ7746.geopotential number by the normal gravity value computed on the  
AJ7746.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
AJ7746.degrees latitude (g = 980.6199 gals.).

AJ7746

AJ7746.The modeled gravity was interpolated from observed gravity values.

AJ7746

AJ7746. The following values were computed from the NAD 83(2011) position.

AJ7746

AJ7746;		North	East	Units	Scale	Factor	Converg.
AJ7746;SPC FL E	-	158,301.085	249,793.335	MT	0.99997178	+0 12	56.7
AJ7746;SPC FL E	-	519,359.48	819,530.30	sFT	0.99997178	+0 12	56.7
AJ7746;UTM 17	-	2,849,379.055	549,776.346	MT	0.99963059	+0 12	56.7
AJ7746!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
AJ7746!SPC FL E	-	1.00000354	x	0.99997178	=	0.99997532	
AJ7746!UTM 17	-	1.00000354	x	0.99963059	=	0.99963413	

AJ7746

AJ7746	PID	Reference Object	Distance	Geod. Az
AJ7746				dddmss.s
AJ7746	AC4738	J 407	60.548 METERS	10138

AJ7746

AJ7746

#### SUPERSEDED SURVEY CONTROL

AJ7746

AJ7746	NAD 83(2007)-	25 45 41.83708(N)	080 30 13.04826(W)	AD(2002.00)	0
AJ7746	ELLIP H (02/10/07)	-22.520 (m)		GP(2002.00)	
AJ7746	NAD 83(1999)-	25 45 41.83673(N)	080 30 13.04801(W)	AD( )	1
AJ7746	ELLIP H (12/12/02)	-22.489 (m)		GP( )	4 1
AJ7746	NAVD 88 (12/12/02)	2.11 (m)	6.9 (f)	LEVELING	3

AJ7746

AJ7746.Superseded values are not recommended for survey control.

AJ7746

AJ7746.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AJ7746.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ7746

AJ7746\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ4977649379(NAD 83)

AJ7746

AJ7746\_MARKER: DD = SURVEY DISK

AJ7746\_SETTING: 66 = SET IN ROCK OUTCROP

AJ7746\_STAMPING: C 237 RESET 9/88

AJ7746\_MARK LOGO: NGS

AJ7746\_MAGNETIC: N = NO MAGNETIC MATERIAL

AJ7746\_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

AJ7746+STABILITY: POSITION/ELEVATION WELL

AJ7746\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ7746+SATELLITE: SATELLITE OBSERVATIONS - 2002

AJ7746

AJ7746	HISTORY	- Date	Condition	Report By
AJ7746	HISTORY	- 1988	MONUMENTED	FLDT
AJ7746	HISTORY	- 20011012	GOOD	LDBLS
AJ7746	HISTORY	- 2002	GOOD	MAPTEC
AJ7746	HISTORY	- 20080204	GOOD	GCYI

AJ7746

#### STATION DESCRIPTION

AJ7746

AJ7746'DESCRIBED BY LD BRADLEY LAND SURVEYORS 2001 (JCH)

AJ7746'THE MARK IS ABOUT 141.3 KM (87.83 MI) SOUTHEAST OF NAPLES, ABOUT 20.3

AJ7746'KM (12.61

AJ7746'MI) WEST OF WEST MIAMI IN DADE COUNTY, FLORIDA. OWNERSHIP - FLORIDA

AJ7746'DEPARTMENT

AJ7746'OF TRANSPORTATION.



AJ7746'  
AJ7746'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 41 (TAMIAMI  
AJ7746'TRAIL) AND  
AJ7746'THE FLORIDA TURNPIKE (ABOUT 8.5 KM (5.25 MI) WEST OF WEST MIAMI), GO  
AJ7746'WEST ON  
AJ7746'U.S. HIGHWAY 41 (TAMIAMI TRAIL) 9.7 KM (6.0 MI) TO ITS INTERSECTION  
AJ7746'WITH STATE  
AJ7746'ROAD 997, CONTINUE WEST ON U.S. HIGHWAY 41 2.1 KM (1.32 MI) TO THE  
AJ7746'JUNCTION  
AJ7746'WITH A PAVED ROAD LEADING NORTH TO WEIR STRUCTURE S344, GO NORTH ALONG  
AJ7746'THE  
AJ7746'PAVED ROAD (CROSSING A BRIDGE ADJACENT TO WEIR STRUCTURE S344) 0.1 KM  
AJ7746'(0.05 MI)  
AJ7746'TO THE JUNCTION WITH A ROADWAY BETWEEN A CANAL AND LEVEE, GO WEST ON  
AJ7746'THE  
AJ7746'ROADWAY BETWEEN CANAL AND LEVEE 0.1 KM (0.08 MI) TO THE MARK ON THE  
AJ7746'RIGHT.  
AJ7746'  
AJ7746'THE MARK IS 124.75 M (409.3 FT) WEST OF THE NORTH-SOUTH CENTERLINE OF  
AJ7746'A BRIDGE  
AJ7746'SPANNING A CANAL, 64.80 M (212.6 FT) WEST OF A WOOD UTILITY POLE,  
AJ7746'48.46 M  
AJ7746'(159.0 FT) WEST OF A QWEST COMMUNICATIONS BURIED FIBER OPTIC CABLE  
AJ7746'WARNING  
AJ7746'MARKER NUMBER 08123, 26.67 M (87.5 FT) SOUTHEAST OF A WOOD UTILITY  
AJ7746'POLE, 14.6 M  
AJ7746'(48.0 FT) NORTH OF THE NORTH EDGE OF A CANAL, AND 2.41 M (7.9 FT)  
AJ7746'SOUTH OF A  
AJ7746'CARSONITE WITNESS POST. THE MARK IS A DISK SET FLUSH IN THE TOP OF A  
AJ7746'ROCK  
AJ7746'OUTCROP FLUSH WITH THE LEVEL OF THE GROUND AND ABOUT 2.29 M (7.5 FT)  
AJ7746'BELOW THE  
AJ7746'TOP OF THE LEVEE.

AJ7746'

AJ7746'

AJ7746'

AJ7746'

AJ7746' STATION RECOVERY (2002)

AJ7746'

AJ7746'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AJ7746'THE MARK IS ABOUT 141.3 KM (87.83 MI) SOUTHEAST OF NAPLES, ABOUT 20.3

AJ7746'KM (12.61

AJ7746'MI) WEST OF WEST MIAMI IN DADE COUNTY, FLORIDA. OWNERSHIP - FLORIDA

AJ7746'DEPARTMENT

AJ7746'OF TRANSPORTATION.

AJ7746'

AJ7746'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 41 (TAMIAMI

AJ7746'TRAIL) AND

AJ7746'THE FLORIDA TURNPIKE (ABOUT 8.5 KM (5.25 MI) WEST OF WEST MIAMI), GO

AJ7746'WEST ON

AJ7746'U.S. HIGHWAY 41 (TAMIAMI TRAIL) 9.7 KM (6.0 MI) TO ITS INTERSECTION

AJ7746'WITH STATE

AJ7746'ROAD 997, CONTINUE WEST ON U.S. HIGHWAY 41 2.1 KM (1.32 MI) TO THE

AJ7746'JUNCTION

AJ7746'WITH A PAVED ROAD LEADING NORTH TO WEIR STRUCTURE S344, GO NORTH ALONG

AJ7746'THE

AJ7746'PAVED ROAD (CROSSING A BRIDGE ADJACENT TO WEIR STRUCTURE S344) 0.1 KM

AJ7746'(0.05 MI)

AJ7746'TO THE JUNCTION WITH A ROADWAY BETWEEN A CANAL AND LEVEE, GO WEST ON

AJ7746'THE

AJ7746'ROADWAY BETWEEN CANAL AND LEVEE 0.1 KM (0.08 MI) TO THE MARK ON THE

AJ7746'RIGHT.

AJ7746'

AJ7746'THE MARK IS 124.75 M (409.3 FT) WEST OF THE NORTH-SOUTH CENTERLINE OF

AJ7746'A BRIDGE

AJ7746'SPANNING A CANAL, 64.80 M (212.6 FT) WEST OF A WOOD UTILITY POLE,



From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

# The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
834	0054	AJ8390	FCE 4515	3.3175	3.3852	
835	0055	AJ8391	FCE 4514	3.4634	3.5341	
836	0056	AJ8392	G 504	3.3560	3.4244	

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

```

PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8391 *****
AJ8391 DESIGNATION - FCE 4514
AJ8391 PID - AJ8391
AJ8391 STATE/COUNTY- FL/MIAMI-DADE
AJ8391 COUNTRY - US
AJ8391 USGS QUAD - GROSSMAN HAMMOCK (1973)
AJ8391
AJ8391 *CURRENT SURVEY CONTROL
AJ8391
AJ8391* NAD 83(1986) POSITION- 25 30 43. (N) 080 33 37. (W) SCALED
AJ8391* NAVD 88 ORTHO HEIGHT - 3.052 (meters) 10.01 (feet) ADJUSTED
AJ8391
AJ8391 GEOID HEIGHT - -24.626 (meters) GEOID12B
AJ8391 DYNAMIC HEIGHT - 3.047 (meters) 10.00 (feet) COMP
AJ8391 MODELED GRAVITY - 978,988.2 (mgal) NAVD 88
AJ8391
AJ8391 VERT ORDER - FIRST CLASS II
AJ8391
AJ8391.The horizontal coordinates were scaled from a topographic map and have
AJ8391.an estimated accuracy of +/- 6 seconds.
AJ8391.
AJ8391.The orthometric height was determined by differential leveling and
AJ8391.adjusted by the NATIONAL GEODETIC SURVEY
AJ8391.in June 2002.
AJ8391
AJ8391.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8391.GEOID12B height accuracy estimate available here.
AJ8391
AJ8391.The dynamic height is computed by dividing the NAVD 88
AJ8391.geopotential number by the normal gravity value computed on the
AJ8391.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8391.degrees latitude (g = 980.6199 gals.).
AJ8391
AJ8391.The modeled gravity was interpolated from observed gravity values.
AJ8391
AJ8391; North East Units Estimated Accuracy
AJ8391;SPC FL E - 130,620. 244,200. MT (+/- 180 meters Scaled)
AJ8391
AJ8391 SUPERSEDED SURVEY CONTROL
AJ8391
AJ8391.No superseded survey control is available for this station.
AJ8391
AJ8391_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ441217(NAD 83)
AJ8391
AJ8391_MARKER: DD = SURVEY DISK
AJ8391_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ8391_STAMPING: FCE 4514 JAX. FLA.
AJ8391_MARK LOGO: USE
AJ8391_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8391_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ8391+STABILITY: SURFACE MOTION
AJ8391_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8391+SATELLITE: SATELLITE OBSERVATIONS - February 09, 2007
AJ8391
AJ8391 HISTORY - Date Condition Report By

```

AJ8391	HISTORY	- UNK	MONUMENTED	USE
AJ8391	HISTORY	- 20010106	GOOD	FLDEP
AJ8391	HISTORY	- 20070209	GOOD	INDIV
AJ8391	HISTORY	- 20080131	GOOD	GCYI
AJ8391	HISTORY	- 20150410	GOOD	WANTGP

AJ8391

AJ8391

AJ8391

## STATION DESCRIPTION

AJ8391'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)  
 AJ8391'THE MARK IS ABOUT 9.0 MI (14.5 KM) WEST OF HOMESTEAD, 8.0 MI (12.9 KM)  
 AJ8391'WEST OF FLORIDA CITY, IN ESTIMATED SECTION 31, TOWNSHIP 56 SOUTH,  
 AJ8391'RANGE 38 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S.  
 AJ8391'HIGHWAY 1 (SOUTH DIXIE HIGHWAY) AND PALM DRIVE (STATE ROAD 9336,  
 AJ8391'SOUTHWEST 344TH STREET) IN FLORIDA CITY, GO WEST ON PALM DRIVE (STATE  
 AJ8391'ROAD 9336, SOUTHWEST 344TH STREET) FOR 1.7 MI (2.7 KM) TO THE JUNCTION  
 AJ8391'OF SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) TURN LEFT ON  
 AJ8391'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) AND GO SOUTH FOR  
 AJ8391'2.1 MI (3.4 KM) TO THE JUNCTION OF SOUTHWEST 376TH STREET (STATE ROAD  
 AJ8391'9336, INGRAHAM HIGHWAY) ON THE RIGHT, TURN RIGHT ON SOUTHWEST 376TH  
 AJ8391'STREET (STATE ROAD 9336, INGRAHAM HIGHWAY) AND GO WEST FOR 4.95 MI  
 AJ8391'(7.97 KM) TO THE EAST END OF BRIDGE NUMBER 870081 1969 SPANNING CANAL  
 AJ8391'31, TURN RIGHT ON THE LEVEE ROAD ON THE EAST SIDE OF CANAL 31 AND GO  
 AJ8391'NORTH FOR 8.5 MI (13.7 KM) TO A PUMP HOUSE, TURN LEFT ON THE EAST SIDE  
 AJ8391'OF THE PUMP HOUSE AND GO NORTH FOR 0.1 MI (0.2 KM) TO A SET OF DOUBLE  
 AJ8391'LOCKED GATES, PASSING THROUGH THE GATES GO EAST THEN NORTH ON THE  
 AJ8391'LEVEE ROAD FOR 1.1 MI (1.8 KM) TO A LOCKED GATE AND THE INTERSECTION  
 AJ8391'OF A PAVED ROAD (AN OLD IRON BRIDGE SPANNING CANAL 31N) , CONTINUE  
 AJ8391'NORTH ON THE LEVEE ROAD FOR 0.1 MI (0.2 KM) TO A LOCKED GATE, CONTINUE  
 AJ8391'NORTH ON THE LEVEE ROAD FOR 1.0 MI (1.6 KM) TO THE MARK ON THE RIGHT,  
 AJ8391'SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND AND  
 AJ8391'LEVEL WITH THE LEVEE ROAD. LOCATED 67.4 FT (20.5 M) NORTH OF MILE  
 AJ8391'MARKER NUMBER 10, 9.7 FT (3.0 M) EAST OF THE APPROXIMATE CENTERLINE OF  
 AJ8391'THE LEVEE ROAD, 2.7 FT (0.8 M) WEST OF THE TOP OF THE BANK OF THE  
 AJ8391'CANAL AND 2.6 FT (0.8 M) WEST OF A METAL WITNESS POST. NOTE A BAR  
 AJ8391'MAGNET WAS INBEDDED IN THE GROUND ON NORTH SIDE OF THE MONUMENT. NOTE  
 AJ8391'FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT AT 2195  
 AJ8391'NORTHEAST 8TH STREET HOMESTEAD, FL 33033, PHONE 305-242-5955.

AJ8391

## STATION RECOVERY (2007)

AJ8391

AJ8391'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DF)

AJ8391'RECOVERED IN GOOD CONDITION.

AJ8391

## STATION RECOVERY (2008)

AJ8391

AJ8391'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

AJ8391'RECOVERED IN GOOD CONDITION.

AJ8391

## STATION RECOVERY (2015)

AJ8391

AJ8391'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)

AJ8391'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

# The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
834	0054	AJ8390	FCE 4515	3.3175	3.3852	
835	0055	AJ8391	FCE 4514	3.4634	3.5341	
836	0056	AJ8392	G 504	3.3560	3.4244	

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

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PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8390 *****
AJ8390 DESIGNATION - FCE 4515
AJ8390 PID - AJ8390
AJ8390 STATE/COUNTY- FL/MIAMI-DADE
AJ8390 COUNTRY - US
AJ8390 USGS QUAD - GROSSMAN HAMMOCK (1973)
AJ8390
AJ8390 *CURRENT SURVEY CONTROL
AJ8390
AJ8390* NAD 83(1986) POSITION- 25 31 11. (N) 080 33 37. (W) SCALED
AJ8390* NAVD 88 ORTHO HEIGHT - 2.903 (meters) 9.52 (feet) ADJUSTED
AJ8390
AJ8390 GEOID HEIGHT - -24.623 (meters) GEOID12B
AJ8390 DYNAMIC HEIGHT - 2.899 (meters) 9.51 (feet) COMP
AJ8390 MODELED GRAVITY - 978,989.4 (mgal) NAVD 88
AJ8390
AJ8390 VERT ORDER - FIRST CLASS II
AJ8390
AJ8390.The horizontal coordinates were scaled from a topographic map and have
AJ8390.an estimated accuracy of +/- 6 seconds.
AJ8390.
AJ8390.The orthometric height was determined by differential leveling and
AJ8390.adjusted by the NATIONAL GEODETIC SURVEY
AJ8390.in June 2002.
AJ8390
AJ8390.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8390.GEOID12B height accuracy estimate available here.
AJ8390
AJ8390.The dynamic height is computed by dividing the NAVD 88
AJ8390.geopotential number by the normal gravity value computed on the
AJ8390.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8390.degrees latitude (g = 980.6199 gals.).
AJ8390
AJ8390.The modeled gravity was interpolated from observed gravity values.
AJ8390
AJ8390; North East Units Estimated Accuracy
AJ8390;SPC FL E - 131,480. 244,200. MT (+/- 180 meters Scaled)
AJ8390
AJ8390 SUPERSEDED SURVEY CONTROL
AJ8390
AJ8390.No superseded survey control is available for this station.
AJ8390
AJ8390_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ441225(NAD 83)
AJ8390
AJ8390_MARKER: DD = SURVEY DISK
AJ8390_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ8390_STAMPING: FCE 4515 JAX. FLA.
AJ8390_MARK LOGO: USE
AJ8390_MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
AJ8390_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ8390+STABILITY: SURFACE MOTION
AJ8390_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8390+SATELLITE: SATELLITE OBSERVATIONS - February 09, 2007
AJ8390
AJ8390 HISTORY - Date Condition Report By
    
```

AJ8390	HISTORY	- UNK	MONUMENTED	USE
AJ8390	HISTORY	- 20010106	GOOD	FLDEP
AJ8390	HISTORY	- 20070209	GOOD	INDIV
AJ8390	HISTORY	- 20080131	GOOD	GCYI

AJ8390

AJ8390

AJ8390

## STATION DESCRIPTION

AJ8390

AJ8390'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)

AJ8390'THE MARK IS ABOUT 9.5 MI (15.3 KM) OF HOMESTEAD, 8.5 MI (13.7 KM)

AJ8390'SOUTHWEST OF FLORIDA CITY, IN ESTIMATED SECTION 30, TOWNSHIP 56 SOUTH,

AJ8390'RANGE 38 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S.

AJ8390'HIGHWAY 1 (SOUTH DIXIE HIGHWAY) AND PALM DRIVE (STATE ROAD 9336,

AJ8390'SOUTHWEST 344TH STREET) IN FLORIDA CITY, GO WEST ON PALM DRIVE (STATE

AJ8390'ROAD 9336, SOUTHWEST 344TH STREET) FOR 1.7 MI (2.7 KM) TO THE JUNCTION

AJ8390'OF SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) TURN LEFT ON

AJ8390'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) AND GO SOUTH FOR

AJ8390'2.1 MI (3.4 KM) TO THE JUNCTION OF SOUTHWEST 376TH STREET (STATE ROAD

AJ8390'9336, INGRAHAM HIGHWAY) ON THE RIGHT, TURN RIGHT ON SOUTHWEST 376TH

AJ8390'STREET (STATE ROAD 9336, INGRAHAM HIGHWAY) AND GO WEST FOR 4.95 MI

AJ8390'(7.97 KM) TO THE EAST END OF BRIDGE NUMBER 870081 1969 SPANNING CANAL

AJ8390'31, TURN RIGHT ON THE LEVEE ROAD ON THE EAST SIDE OF CANAL 31 AND GO

AJ8390'NORTH FOR 8.5 MI (13.7 KM) TO A PUMP HOUSE, TURN LEFT ON THE EAST SIDE

AJ8390'OF THE PUMP HOUSE AND GO NORTH FOR 0.1 MI (0.2 KM) TO A SET OF DOUBLE

AJ8390'LOCKED GATES, PASSING THROUGH THE GATES GO EAST THEN NORTH ON THE

AJ8390'LEVEE ROAD FOR 1.1 MI (1.8 KM) TO A LOCKED GATE AND THE INTERSECTION

AJ8390'OF A PAVED ROAD (AN OLD IRON BRIDGE SPANNING CANAL 31N) , CONTINUE

AJ8390'NORTH ON THE LEVEE ROAD FOR 0.1 MI (0.2 KM) TO A LOCKED GATE, CONTINUE

AJ8390'NORTH ON THE LEVEE ROAD FOR 1.55 MI (2.49 KM) TO THE MARK ON THE

AJ8390'RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE

AJ8390'GROUND AND LEVEL WITH THE LEVEE ROAD. LOCATED 43.3 FT (13.2 M) EAST OF

AJ8390'THE APPROXIMATE CENTERLINE OF THE UPPER LEVEE ROAD, 17.4 FT (5.3 M)

AJ8390'EAST OF THE APPROXIMATE CENTERLINE OF THE LOWER LEVEE ROAD, 2.2 FT

AJ8390'(0.7 M) WEST OF THE TOP OF THE BANK OF THE CANAL AND 2.1 FT (0.6 M)

AJ8390'WEST OF A METAL WITNESS POST. NOTE A BAR MAGNET WAS INBEDDED IN THE

AJ8390'GROUND NEXT TO THE MONUMENT ON THE NORTH SIDE. NOTE FOR KEY CONTACT

AJ8390'SOUTH FLORIDA WATER MANAGEMENT DISTRICT AT 2195 NORTHEAST 8TH STREET

AJ8390'HOMESTEAD, FL 33033, PHONE 305-242-5955.

AJ8390

## STATION RECOVERY (2007)

AJ8390

AJ8390

AJ8390'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DF)

AJ8390'RECOVERED IN GOOD CONDITION.

AJ8390

## STATION RECOVERY (2008)

AJ8390

AJ8390

AJ8390'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

AJ8390'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = DECEMBER 7, 2015
DH9621 *****
DH9621 DESIGNATION - G 119
DH9621 PID - DH9621
DH9621 STATE/COUNTY- FL/MIAMI-DADE
DH9621 COUNTRY - US
DH9621 USGS QUAD - HIALEAH SW (1988)
DH9621
DH9621 *CURRENT SURVEY CONTROL
DH9621
DH9621* NAD 83(1986) POSITION- 25 45 40. (N) 080 28 37. (W) SCALED
DH9621* NAVD 88 ORTHO HEIGHT - 2.221 (meters) 7.29 (feet) ADJUSTED
DH9621
DH9621 GEOID HEIGHT - -24.724 (meters) GEOID12B
DH9621 DYNAMIC HEIGHT - 2.217 (meters) 7.27 (feet) COMP
DH9621 MODELED GRAVITY - 979,030.9 (mgal) NAVD 88
DH9621
DH9621 VERT ORDER - FIRST CLASS II
DH9621
DH9621.The horizontal coordinates were scaled from a topographic map and have
DH9621.an estimated accuracy of +/- 6 seconds.
DH9621.
DH9621.The orthometric height was determined by differential leveling and
DH9621.adjusted by the NATIONAL GEODETIC SURVEY
DH9621.in July 2006.
DH9621
DH9621.Significant digits in the geoid height do not necessarily reflect accuracy.
DH9621.GEOID12B height accuracy estimate available here.
DH9621
DH9621.Photographs are available for this station.
DH9621
DH9621.The dynamic height is computed by dividing the NAVD 88
DH9621.geopotential number by the normal gravity value computed on the
DH9621.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DH9621.degrees latitude (g = 980.6199 gals.).
DH9621
DH9621.The modeled gravity was interpolated from observed gravity values.
DH9621
DH9621;
DH9621;SPC FL E - North East Units Estimated Accuracy
DH9621; 158,260. 252,470. MT (+/- 180 meters Scaled)
DH9621
DH9621 SUPERSEDED SURVEY CONTROL
DH9621
DH9621.No superseded survey control is available for this station.
DH9621
DH9621_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ524493(NAD 83)
DH9621
DH9621_MARKER: DD = SURVEY DISK
DH9621_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
DH9621_SP_SET: RETAINING WALL
DH9621_STAMPING: BM G-119 1995
DH9621_MARK LOGO: SFLWMD
DH9621_MAGNETIC: N = NO MAGNETIC MATERIAL
DH9621_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DH9621+STABILITY: SURFACE MOTION
DH9621_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

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DH9621+SATELLITE: SATELLITE OBSERVATIONS - February 01, 2008

DH9621

DH9621	HISTORY	- Date	Condition	Report By
DH9621	HISTORY	- 1995	MONUMENTED	SFLWMD
DH9621	HISTORY	- 20080201	GOOD	GCYI
DH9621	HISTORY	- 20090722	GOOD	DCPW

DH9621

DH9621

STATION DESCRIPTION

DH9621

DH9621'DESCRIBED BY S FL WATER MGMT DIST 1995 (JLM)

DH9621'THE MARK IS ABOUT 18.3 MI NORTH OF HOMESTEAD, 10.8 MI SOUTHWEST OF  
DH9621'HIALEAH, 10.0 MI NORTH OF KENDALL, IN SECTION 6, TOWNSHIP 54 SOUTH,  
DH9621'RANGE 39 EAST.

DH9621'

DH9621'TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 997 (KROME

DH9621'AVENUE, SW 177 AVENUE) AND U.S. HIGHWAY 41 (TAMIAMI TRAIL, SW 8TH ST)

DH9621'ABOUT 10.0 MI SOUTHWEST OF HIALEAH, GO EAST ON U.S. HIGHWAY 41

DH9621'(TAMIAMI TRAIL, SW 8TH ST) FOR 0.25 MI TO THE JUNCTION OF A PAVED ROAD

DH9621'ON THE LEFT, STRUCTURE G-119 AND THE MARK ON THE LEFT, SET FLUSH IN

DH9621'THE TOP OF NORTHWEST END OF A RETAINING WALL FOR WATER CONTROL

DH9621'STRUCTURE G-119 ABOUT LEVEL WITH U.S. HIGHWAY 41.

DH9621'

DH9621'LOCATED 78.3 FT NORTH OF THE CENTERLINE OF U.S. HIGHWAY 41 WESTBOUND

DH9621'LANES, 38.8 FT WEST OF THE APPROXIMATE CENTERLINE OF A PAVED ROAD

DH9621'LEADING NORTH, 16.0 FT NORTHWEST OF THE NORTHEAST CORNER OF A WOODEN

DH9621'DOCK FOR G-119, 11.7 FT SOUTH OF THE WEST END OF A GUARDRAIL AND 1.1

DH9621'FT SOUTHEAST OF THE NORTHWEST END OF THE RETAINING WALL.

DH9621

DH9621 STATION RECOVERY (2008)

DH9621

DH9621'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

DH9621'RECOVERED IN GOOD CONDITION.

DH9621

DH9621 STATION RECOVERY (2009)

DH9621

DH9621'RECOVERY NOTE BY DOUGLAS COUNTY PUBLIC WORKS 2009 (LER)

DH9621'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:01



From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.

Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
834	0054	AJ8390	FCE 4515	3.3175	3.3852	
835	0055	AJ8391	FCE 4514	3.4634	3.5341	
836	0056	AJ8392	G 504	3.3560	3.4244	

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8392 *****
AJ8392 DESIGNATION - G 504
AJ8392 PID - AJ8392
AJ8392 STATE/COUNTY- FL/MIAMI-DADE
AJ8392 COUNTRY - US
AJ8392 USGS QUAD - GROSSMAN HAMMOCK (1973)
AJ8392
AJ8392 *CURRENT SURVEY CONTROL
AJ8392
AJ8392* NAD 83(1986) POSITION- 25 30 01. (N) 080 33 34. (W) SCALED
AJ8392* NAVD 88 ORTHO HEIGHT - 2.942 (meters) 9.65 (feet) ADJUSTED
AJ8392
AJ8392 GEOID HEIGHT - -24.630 (meters) GEOID12B
AJ8392 DYNAMIC HEIGHT - 2.937 (meters) 9.64 (feet) COMP
AJ8392 MODELED GRAVITY - 978,986.3 (mgal) NAVD 88
AJ8392
AJ8392 VERT ORDER - FIRST CLASS II
AJ8392
AJ8392.The horizontal coordinates were scaled from a topographic map and have
AJ8392.an estimated accuracy of +/- 6 seconds.
AJ8392.
AJ8392.The orthometric height was determined by differential leveling and
AJ8392.adjusted by the NATIONAL GEODETIC SURVEY
AJ8392.in June 2002.
AJ8392
AJ8392.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8392.GEOID12B height accuracy estimate available here.
AJ8392
AJ8392.The dynamic height is computed by dividing the NAVD 88
AJ8392.geopotential number by the normal gravity value computed on the
AJ8392.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8392.degrees latitude (g = 980.6199 gals.).
AJ8392
AJ8392.The modeled gravity was interpolated from observed gravity values.
AJ8392
AJ8392; North East Units Estimated Accuracy
AJ8392;SPC FL E - 129,330. 244,290. MT (+/- 180 meters Scaled)
AJ8392
AJ8392 SUPERSEDED SURVEY CONTROL
AJ8392
AJ8392.No superseded survey control is available for this station.
AJ8392
AJ8392_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ442204(NAD 83)
AJ8392
AJ8392_MARKER: DD = SURVEY DISK
AJ8392_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
AJ8392_SP_SET: BRIDGE ABUTMENT
AJ8392_STAMPING: G 504 2000
AJ8392_MARK LOGO: FLDEP
AJ8392_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8392_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ8392_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
AJ8392+SATELLITE: SATELLITE OBSERVATIONS - 2000
AJ8392
AJ8392 HISTORY - Date Condition Report By
    
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AJ8392 HISTORY - 2000 MONUMENTED FLDEP  
AJ8392 HISTORY - 20080131 GOOD GCYI

AJ8392

AJ8392 STATION DESCRIPTION

AJ8392

AJ8392'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM)

AJ8392'THE MARK IS ABOUT 8.0 MI (12.9 KM) WEST OF HOMESTEAD, 7.0 MI (11.3 KM)

AJ8392'WEST OF FLORIDA CITY, IN SECTION 6, TOWNSHIP 57 SOUTH, RANGE 38 EAST.

AJ8392'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 1 (SOUTH

AJ8392'DIXIE HIGHWAY) AND PALM DRIVE (STATE ROAD 9336, SOUTHWEST 344TH

AJ8392'STREET) IN FLORIDA CITY, GO WEST ON PALM DRIVE (STATE ROAD 9336,

AJ8392'SOUTHWEST 344TH STREET) FOR 1.7 MI (2.7 KM) TO THE JUNCTION OF

AJ8392'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) TURN LEFT ON

AJ8392'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) AND GO SOUTH FOR

AJ8392'2.1 MI (3.4 KM) TO THE JUNCTION OF SOUTHWEST 376TH STREET (STATE ROAD

AJ8392'9336, INGRAHAM HIGHWAY) ON THE RIGHT, TURN RIGHT ON SOUTHWEST 376TH

AJ8392'STREET (STATE ROAD 9336, INGRAHAM HIGHWAY) AND GO WEST FOR 4.95 MI

AJ8392'(7.97 KM) TO THE EAST END OF BRIDGE NUMBER 870081 1969 SPANNING CANAL

AJ8392'31, TURN RIGHT ON THE LEVEE ROAD ON THE EAST SIDE OF THE CANAL 31 AND

AJ8392'GO NORTH FOR 8.5 MI (13.7 KM) TO A PUMP HOUSE, TURN LEFT ON THE EAST

AJ8392'SIDE OF THE PUMP HOUSE AND GO NORTH FOR 0.1 MI (0.2 KM) TO A SET OF

AJ8392'DOUBLE LOCKED GATES, PASSING THROUGH THE GATES GO EAST THEN NORTH ON

AJ8392'THE LEVEE ROAD FOR 1.1 MI (1.8 KM) TO A LOCKED GATE AND THE

AJ8392'INTERSECTION OF A PAVED ROAD (AN OLD IRON BRIDGE SPANNING CANAL 31N)

AJ8392'AND THE MARK ON THE RIGHT, SET IN THE TOP OF THE NORTHWEST BRIDGE

AJ8392'ABUTMENT OF THE OLD IRON BRIDGE 4.0 FT (1.2 M) BELOW THE TOP OF THE

AJ8392'BRIDGE ROAD. LOCATED 37.0 FT (11.3 M) EAST OF THE APPROXIMATE

AJ8392'CENTERLINE OF THE LEVEE ROAD, 23.6 FT (7.2 M) EAST OF THE WEST END OF

AJ8392'THE BRIDGE GUARDRAIL, 9.7 FT (3.0 M) NORTH OF THE APPROXIMATE

AJ8392'CENTERLINE OF THE BRIDGE AND 9.5 FT (2.9 M) NORTH OF A CARSONITE

AJ8392'WITNESS POST. NOTE FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT

AJ8392'DISTRICT AT 2195 NORTHEAST 8TH STREET HOMESTEAD, FL 33033, PHONE

AJ8392'305-242-5955.

AJ8392

AJ8392 STATION RECOVERY (2008)

AJ8392

AJ8392'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

AJ8392'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.

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,  Retrieval Date = DECEMBER 7, 2015
DH9605 *****
DH9605 DESIGNATION - U 626
DH9605 PID - DH9605
DH9605 STATE/COUNTY- FL/MIAMI-DADE
DH9605 COUNTRY - US
DH9605 USGS QUAD - HIALEAH SW (1988)
DH9605
DH9605 *CURRENT SURVEY CONTROL
DH9605
DH9605* NAD 83(1986) POSITION- 25 45 39. (N) 080 28 53. (W) SCALED
DH9605* NAVD 88 ORTHO HEIGHT - 3.776 (meters) 12.39 (feet) ADJUSTED
DH9605
DH9605 GEOID HEIGHT - -24.715 (meters) GEOID12B
DH9605 DYNAMIC HEIGHT - 3.770 (meters) 12.37 (feet) COMP
DH9605 MODELED GRAVITY - 979,030.7 (mgal) NAVD 88
DH9605
DH9605 VERT ORDER - FIRST CLASS II
DH9605
DH9605.The horizontal coordinates were scaled from a topographic map and have
DH9605.an estimated accuracy of +/- 6 seconds.
DH9605.
DH9605.The orthometric height was determined by differential leveling and
DH9605.adjusted by the NATIONAL GEODETIC SURVEY
DH9605.in July 2006.
DH9605
DH9605.Significant digits in the geoid height do not necessarily reflect accuracy.
DH9605.GEOID12B height accuracy estimate available here.
DH9605
DH9605.Photographs are available for this station.
DH9605
DH9605.The dynamic height is computed by dividing the NAVD 88
DH9605.geopotential number by the normal gravity value computed on the
DH9605.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DH9605.degrees latitude (g = 980.6199 gals.).
DH9605
DH9605.The modeled gravity was interpolated from observed gravity values.
DH9605
DH9605;
DH9605;SPC FL E - North East Units Estimated Accuracy
DH9605; 158,220. 252,020. MT (+/- 180 meters Scaled)
DH9605
DH9605 SUPERSEDED SURVEY CONTROL
DH9605
DH9605.No superseded survey control is available for this station.
DH9605
DH9605_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ520493(NAD 83)
DH9605
DH9605_MARKER: DD = SURVEY DISK
DH9605_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
DH9605_SP_SET: BRIDGE ABUTMENT
DH9605_STAMPING: U 626 2005
DH9605_MARK LOGO: FLDEP
DH9605_MAGNETIC: N = NO MAGNETIC MATERIAL
DH9605_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DH9605_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DH9605+SATELLITE: SATELLITE OBSERVATIONS - March 17, 2005

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DH9605				
DH9605	HISTORY	- Date	Condition	Report By
DH9605	HISTORY	- 20050317	MONUMENTED	FLDEP
DH9605	HISTORY	- 20080201	GOOD	GCYI
DH9605	HISTORY	- 20091201	GOOD	DCPW

DH9605

DH9605

DH9605

## STATION DESCRIPTION

DH9605'DESCRIBED BY FL DEPT OF ENV PRO 2005 (JLM)

DH9605'THE MARK IS ABOUT 18.2 MI NORTH OF HOMESTEAD, 11.0 MI SOUTHWEST OF  
DH9605'HIALEAH, 10.0 MI NORTHWEST OF KENDALL, IN SECTION 1, TOWNSHIP 54  
DH9605'SOUTH, RANGE 38 EAST.

DH9605'

DH9605'THE MARK IS AT THE JUNCTION OF STATE HIGHWAY 997 (KROME AVENUE, SW 177  
DH9605'AVENUE) AND U.S. HIGHWAY 41 (TAMIAMI TRAIL, SW 8TH ST), SET IN THE  
DH9605'TOP OF THE SOUTHWEST BRIDGE ABUTMENT OF THE BRIDGE SPANNING A CANAL  
DH9605'ABOUT 0.5 FT BELOW THE LEVEL OF HIGHWAY 997.

DH9605'

DH9605'LOCATED ABOUT 63.0 FT NORTH OF THE NORTH EDGE OF U.S. HIGHWAY 41  
DH9605'WESTBOUND LANES, 45.0 FT SOUTH OF THE APPROXIMATE CENTERLINE OF THE  
DH9605'CANAL, 36.0 FT NORTH-NORTHEAST OF THE SOUTHWEST END OF THE BRIDGE  
DH9605'RAIL, 12.0 FT WEST OF THE WEST EDGE OF STATE HIGHWAY 997, 1.8 FT  
DH9605'SOUTH OF THE NORTHWEST CORNER OF THE ABUTMENT, 1.0 FT SOUTH OF AN  
DH9605'ALUMINUM POST WITH A HIGHWAY ROAD SIGN ATTACHED AND 0.5 FT WEST OF  
DH9605'THE WEST FACE OF THE BRIDGE WALKWAY.

DH9605

DH9605

DH9605

## STATION RECOVERY (2008)

DH9605'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)  
DH9605'RECOVERED IN GOOD CONDITION.

DH9605

DH9605

DH9605

## STATION RECOVERY (2009)

DH9605'RECOVERY NOTE BY DOUGLAS COUNTY PUBLIC WORKS 2009  
DH9605'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02



KROME

ASSUMED  
ELEV.  
15.00

REL ELEV. 11.15  
2/15/11 LEAN

11.93

REL ELEV.  
11.15



Benchmark

74

75

18

74

103D  
8310

105

973821

MEMO  
KROME  
↓