

Sec. ~~16~~ Twp. 46S 47 Rge 35E

To ESTABLISH ELEVATION FOR "BM 1990"
 LOCATED ON BRIDGE FROM MIAMI CANAL
 AT P.S. G-200 HOLEYLAND

STA	+	H.I.	-	ELEV	BM ELEV
BM.	4.52 (D)	26.12		21.60	21.91 (21.60)
<u>FCE 3599</u>	2.75 (D)				
BM.			9.71 (D)	16.41	(16.41)
			3.56 (D)		<u>16.72</u>
		BT.			
BM.	11.06 (D)	27.47		16.41	<u>16.72</u> 16.41
	2.21 (D)				
FCE			5.89 (D)	21.60	<u>21.91</u> (21.60)
3599			1.40 (D)		

E. Elankes
 B. Schaffer
 S. Hussay

20.478683333' NAVD88
 21.90584583333' (NGVD29)

COMMENTS.

BM IS SEWARD ALUM. DISK ON NW COR. OF BRIDGE
 LEADING FR. MIAMI CANAL TO P.S. G-200.
 BM IS ON TOP OF CONK. W/ING APPROPRIATELY STAMPED "BM 1990"
 (PLEASE PG #1 THIS BOOK)

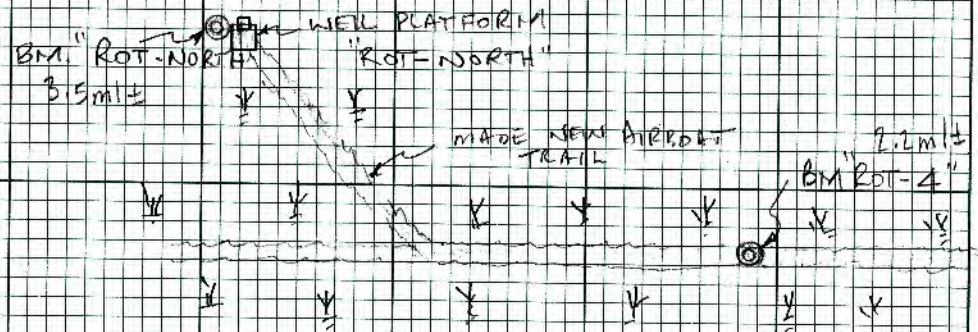
NGS PID FDB153 1st ORDER
"BM 1990"

FCE 3599

4.660m (15.288683333') NAVD88
 5.095m (16.71584583333') NGVD29

SEC. 27 28 29 & 19 Twp. 46S RCE. 35E.
34, 33, 27

TO ESTABLISH B.M.'S & VERTICAL CONTROL ELEVATION FOR MONITORING WELL "ROTENBERGER NORTH" ON ROTENBERGER TRACT WEST OF PUMP STATION G-200

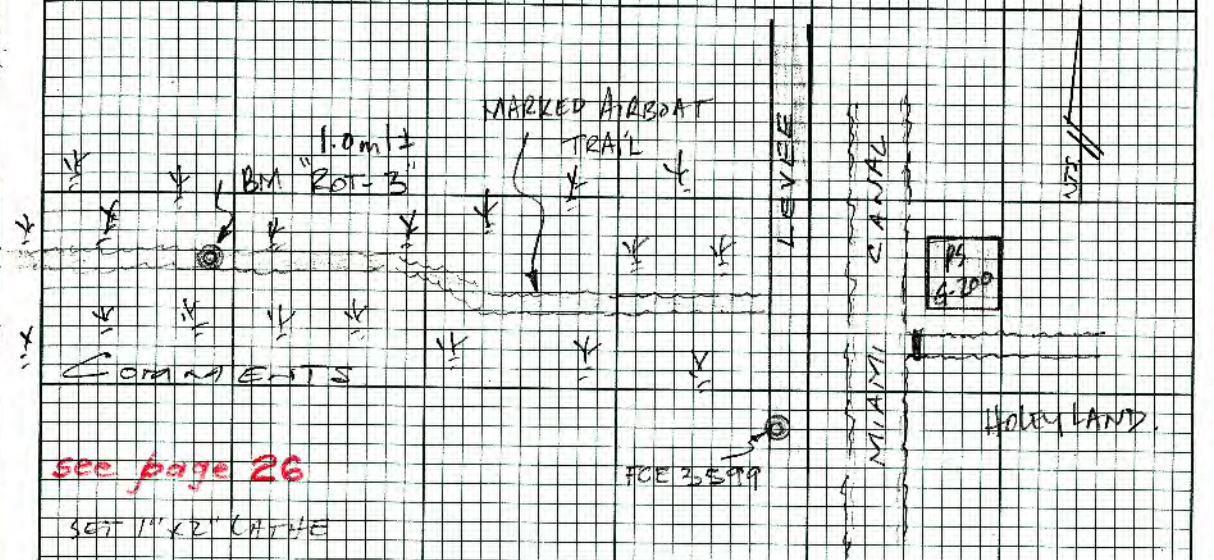


SIA.	+	HI.	-	ELEV.	B.M. ELEV
B.M. FCE 3599	5.98	17.58		21.60	(21.60)
	1.29				21.91
T.P.			11.32	16.26	
			1.95		
	0.59	16.85			
	6.48				
T.P.			3.76	13.09	
			3.57		
	3.93	17.02			
	3.37				
T.P.			4.16	12.86	
			3.11		
	4.14	17.00			
	3.13				

14.64

19.24

E. Edwards
C. Schaffer
F. H. H. H.



see page 26

SET 1" X 2" CAPS

20.478683333' NAVD88
21.90584583333' (NGVD29)

SET 1" X 2" CAPS

SET 1" X 2" CAPS

CONST Fr. Pg. 38

STA	+	HI	-	ELEV	BM ELEV
		17.00			
T.P.			3.45 (D) 3.82 (R)	13.55	
	3.46 (D) 3.81 (R)	17.01			
T.P.			3.43 (D) 3.82 (R)	13.56	
	3.52 (D) 3.75 (R)	17.08			
T.P.			3.40 (D) 3.67 (R)	13.48	
	3.59 (D) 3.48 (R)	17.09			
T.P.			3.70 (D) 3.57 (R)	13.37	
	3.79 (D) 3.48 (R)	17.16			
T.P.			3.97 (D) 3.30 (R)	13.19	
	4.00 (D) 3.27 (R)	17.19			
T.P.			3.60 (D) 3.67 (R)	13.59	
	3.45 (D) 3.82 (R)	17.04			

E. Ebanes
R. Schaffer
S. Hussey

CONTENTS

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

STA	+	#1	-	ELEV.	B.M. ELEV.
		177.04			
T.P.			3.41 (D) 3.86 (B)	13.43	
	3.61 (D) 3.06 (B)	177.24			
T.P.			4.00 (D) 3.27 (B)	13.24	
	3.73 (D) 3.54 (B)	16.99			
B.M. <u>ROT-3</u>			3.58 (D) 3.69 (B)	13.39	{ 3.385 } ADJ.
	7.34		10.99		
RETURN LEVELS					
B.M. ROT-3	3.12 (D) 4.15 (B)	16.51		13.39	
T.P.			3.26 (D) 4.01 (B)	13.25	
	3.82 (D) 3.45 (B)	177.04			
T.P.			3.43 (D) 3.84 (B)	13.64	
	3.43 (D) 3.84 (B)	177.04			

10.37

6.69

E. Ebanks
P. Schaffer
S. Hussey

COMMENTS.

SET 1"X2" LATH

SET 1"X2" LATH

Revised 7/25/97 (EAS)
 SET SECOND ALUM CAP IN 1 1/2" GAL PIPE DRIVEN TO REFUSAL
 PIPE IS SET IN 6" PVC PIPE FILLED WITH CONC STAMPED "ROT-3"
 1994' B.M. IS ALONG MARKED AIRBOAT TRAIL. ± 1 m
 Fr. Miami Canal west of PS G-200

12.263683333' NAVD88

13.69084583333' NGVD29

ALUM CAP (SEE ABOVE)

1"X2" LATH

1"X2" LATH

CONTD Fr. Pg. 41

STA	+	HT	-	ELEV.	BM ELEV
		16.81			
T.P.				3.96 (D) 3.31 (B)	12.85
	4.13 (D) 3.14 (B)	16.98			
T.P.				3.90 (D) 3.37 (B)	13.08
	3.68 (D) 3.59 (B)	16.76			
T.P.				0.51 (D) 6.76 (B)	16.25
	11.19 (D) 2.08 (B)	27.44			
B.M. FCE 3599				5.83 (D) 1.44 (B)	21.61 (21.60) 21.91
	19.00			14.20	

F - 43.79 - 52.00 = -8.21

B - 50.31 - 42.09 = +8.22

16.43

16.43/2 = 8.215

E. Edwards
R. Schaffler
S. Hussley

COMMENTS

1" X 2" LATHE

1" X 2" LATHE

1" X 2" LATHE

B.M. FCE# 3599
SEE PAGE 26

TO ESTABLISH ELEVATION FOR BM "ROT-4"

STA	+	H.L.	-	ELEV	BM ELEV
BM ROT-3 <u>rot</u>	3.84 3.43	17.22		13.38	13.70 (13.385) ROT
T.P.			4.25 3.02	12.92	
T.P.	4.10 3.17	17.07			
T.P.			4.01 3.26	13.06	
T.P.	3.85 3.42	16.91			
T.P.			3.67 3.60	13.24	
T.P.	3.85 3.42	17.09			
T.P.			4.00 3.27	13.09	
T.P.	3.99 3.28	17.08			
T.P.			3.07 4.20	14.01	
T.P.	3.33 3.94	17.34			
T.P.			3.50 3.97	13.84	
T.P.	2.99 4.28	16.83			
T.P.			3.03 4.24	13.80	

25.95

25.53

12.26368333' NAVD88
13.6908458333' NGVD29

E. Ebanes
P. Schaffer
S. Hussey

COMMENTS
Revised 7/25/97 (EAS)
BM ROT-3 SEE (PG. # 40) see page 40

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

SET 1" X 2" LATHE

CONSTD FT PG. 43

STA	#	H.I.	-	ELEV	B.M. ELEV
	3.63 (D) 3.64 (D)	17.43			
T.P.			3.49 (D) 3.78 (D)	13.94	
	3.21 (D) 4.06 (D)	17.15			
T.P.			3.57 (D) 3.70 (D)	13.58	
	3.28 (D) 3.99 (D)	16.86			
T.P.			3.10 (D) 4.17 (D)	13.76	
	3.12 (D) 4.15 (D)	16.88			
T.P.			3.36 (D) 3.91 (D)	13.32	
	3.32 (D) 3.95 (D)	16.84			
B.M. <u>ROT-A</u>			2.65 (D) 4.62 (D)	14.51 14.19	14.52 {14.205} ADJ
				16.56	16.17

E. Daniels
C. Schaffer
S. Hussey

COMMENTS

SET 1"x2" LATHE

SET 1"x2" LATHE

SET 1"x2" LATHE

SET 1"x2" LATHE

Revised 7/25/97 (EAS)

SET SECOND ALUM CAP IN 1/2" GAL PIPE DRIVEN TO REFUSAL, PIPE IS SET IN 6" PVC PIPE FILLED WITH CONC. STAMPED "ROT-A 1994" B.M. IS ALONG MARKED AIRBOAT TRAIL ± 2.1 MI. E. MIAMI CANAL WEST OF PS G-200

13.083683333' NAVD88
14.51084583333' NGVD29

LEVELS

STA	+	H.I.	=	ELEV	BM ELEV
B.M. <u>"ROT-4"</u>	2.90 (D) 4.37 (D)	17.09		14.51 14.19	<u>14.52</u>
			3.57 (D) 3.70 (D)	13.52	
	3.18 (D) 4.09 (D)	16.70			
			2.93 (D) 4.34 (D)	13.77	
	3.41 (D) 3.86 (D)	17.18			
			3.60 (D) 3.67 (D)	13.58	
	3.57 (D) 3.70 (D)	17.15			
			3.21 (D) 4.06 (D)	13.98	
	3.62 (D) 3.65 (D)	17.56			
			3.76 (D) 3.51 (D)	13.80	
	3.20 (D) 4.07 (D)	17.00			
			3.16 (D) 4.11 (D)	13.84	
	3.50 (D) 3.77 (D)	17.34			
			3.33 (D) 3.94 (D)	14.01	

23.38

23.56

E. Egan
R. Schaffer
S. Hussy

COMMENTS

13.083683333' NAVD88
14.51084583333' NGVD29

Cont'd Fr. (Pg 45)

STA	+	HI	-	ELFV	Bm ELEV
	3.16 (d) 4.11 (d)	17.17			
T.P.			4.08 (d) 3.19 (d)	13.09	
	4.04 (d) 3.23 (d)	17.13			
T.P.			3.89 (d) 3.38 (d)	13.24	
	3.48 (d) 3.59 (d)	16.92			
T.P.			3.87 (d) 3.40 (d)	13.05	
	3.75 (d) 3.52 (d)	16.80			
T.P.			3.85 (d) 3.42 (d)	12.95	
	3.84 (d) 3.43 (d)	16.79			
<u>BM</u> <u>"LOT-3"</u>			3.43 (d) 3.84 (d)	13.68 13.36	13.70 (13.38)

18.47

19.12

F 42.51 - 41.70 = +0.81

B 41.85 - 42.68 = -0.83

1.64

1.64/2 = 0.82

E. Ebanes
R. Schaffer
S. Hussey

COMMENTS

1" X 2" LATHE

1" X 2" LATHE

1" X 2" LATHE

1" X 2" LATHE

see page 40.

SEWARD ALJIA. CAP. (SEE Pg 40)

Sec 29 Twp 46S Rge 35E.

TO ESTABLISH ELEVATION FOR BM ROT-NORTH AND MONITORING WELL SITE ROT-NORTH.

STA	+ HI	-	ELEV.	BM. ELEV.
BM.	2.99 (D)	17.19		14.52 (17.205)
<u>ROT-4</u>	4.28 (R)			
T.P.			3.44 (D) 3.83 (R)	13.75
	3.57 (D) 3.68 (R)	17.34		
T.P.			4.00 (D) 3.27 (R)	13.34
	3.94 (D) 3.33 (R)	17.28		
T.P.			3.84 (D) 3.43 (R)	13.44
	3.88 (D) 3.39 (R)	17.32		

14.40

11.28

R. SCHAFER
M. SWANSON
S. HUSSEY

13.083683333' NAVD88
14.51084583333' NGVD29

COMMENTS
see page 44
BM ROT-4 SEE (PAGE 44)

SET 1"X2" CATHE

SET 1"X2" CATHE

SET 1"X2" CATHE.

CONT'D FR Pg. 48.

STA	T	#1	-	ELEV	BM ELEV.
		(17.50)			
T.P.				3.50 (D) 3.77 (R)	14.00
		3.35 (D) 3.92 (R)		17.35	
T.P.				3.27 (D) 4.00 (R)	14.08
		3.17 (D) 4.10 (R)		17.25	
T.P.				3.04 (D) 4.23 (R)	14.21
		2.75 (D) 4.32 (R)		16.96	
T.P.				3.27 (D) 4.00 (R)	13.69
		3.54 (D) 3.73 (R)		17.23	
T.P.				3.85 (D) 3.42 (R)	13.38
		4.00 (D) 3.27 (R)		17.38	
T.P.				4.23 (D) 3.04 (R)	13.15
		3.72 (D) 3.55 (R)		16.87	
B.M.				1.88 (D) 5.39 (R)	14.99
ROT-NORTH				15.31	15.31 (14.99)

20.53

23.04

R. Schaffer
M. Swanson
S. Hussey

COMMENTS.

SET 1"X2" LATHE

SET 1"X2" LATHE

SET 1"X2" LATHE

SET 1"X2" LATHE

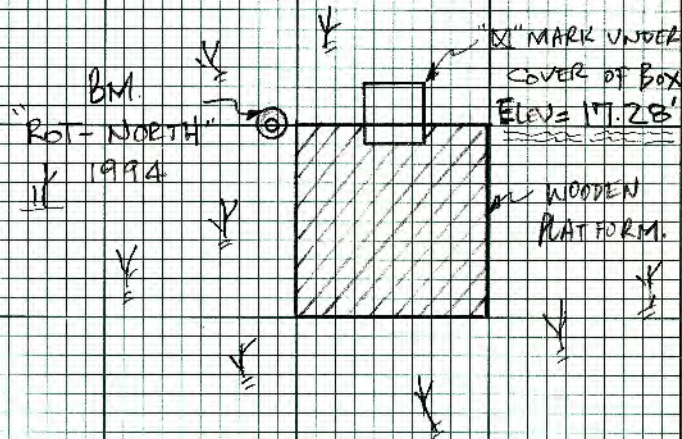
SET 1"X2" LATHE

13.868683333' NAVD88
15.29584583333' NGVD29

SET 1"X2" LATHE

Revised 7/25/97 (EAS)

SET SECOND ALUM CAP. IN 1 1/2 GAL PIPE DRIVEN TO REFUSAL. PIPE IS SET IN 6" PVC PIPE FILLED WITH CONC. ON NEW CORNER OF WELL PLATFORM.



ROTATION LEVELS

STA	F	HI	-	ELEV.	RM ELEV
B.M.	2.50 (D)	17.49		<u>15.31</u>	
<u>ROT-NORTH 77</u>	(R)				
T.P.			4.34 (D)	13.15	
			2.95 (R)		
	4.06 (D)	17.21			
	3.21 (R)				
T.P.			3.88 (D)	13.37	
			3.43 (R)		
	4.02 (D)	17.39			
	3.25 (R)				
T.P.			3.71 (D)	13.68	
			3.56 (R)		
	3.35 (D)	17.03			
	3.92 (R)				
T.P.			2.83 (D)	14.20	
			4.44 (R)		
	2.75 (D)	16.75			
	4.52 (R)				
T.P.			2.88 (D)	14.07	
			4.39 (R)		
	3.24 (D)	17.31			
	4.03 (R)				
T.P.			3.32 (D)	13.99	
			3.95 (R)		
	3.41 (D)	17.40			
	3.86 (R)				

R. Schaffer
M. Swanson
S. Hussey

COMMENTS.

1"x2" LATHE

1"x2" LATHE

1"x2" LATHE

1"x2" LATHE

1 1/2" LATHE

1"x2" LATHE

COND Fr. Pt. 51

STA # HI - ELEV RM. ELEV

(17.28)

F.P. 3.82 (D) 13.46
3.45 (B)

3.85 (D) 17.31
3.42 (B)

T.P. 3.95 (D) 13.36
3.32 (B)

4.20 (D) 17.54
3.07 (B)

T.P. 3.80 (D) 13.76
3.42 (B)

3.32 (D) 17.08
3.93 (B)

B.M. ROT-4 2.87 (D) 14.21 (14.205)
4.40 (B)

11.37 14.44

F 55.97 - 55.18 = +0.79
B 55.50 - 56.28 = -0.78
1.57
1.57/2 = 0.785

R. Schaffer
M. Swanson
S. Huss-ey. ✓

COMMENTS

1" x 2" LATHE

1" x 2" LATHE

1" x 2" LATHE

see page 44
B.M. ROT-4 SEE PG# 44

TO ESTABLISH REFERENCE ELEV IN
MONITORING WELL ROT-NORTH.

STA	+	HI	-	ELEV	BM ELEV
B.M.	4.01	(D)		19.00	<u>15.31</u> (14.99)
<u>ROT-NORTH</u>	3.24	(B)			
WELL			1.72 (D)	17.28	<u>17.60</u>
			5.35 (B)		

RETURN LEVELS

WELL	1.53 (D)			17.28	<u>17.60</u>
	5.72 (B)				<u>15.31</u>
B.M.			3.84 (D)	14.99	(14.99)
<u>ROT-NORTH</u>			3.83 (B)		

R. SCHAEFFER
M. SWANSON
S. HUSSEY

13.868683333' NAVD88
15.29584583333' NGVD29

CONTENTS

see page 49

SEWAGE ALUM CAP (SEE PG 49)

Revised 7/25/97 (EAS)

T.B.M. ON "X" MARK INSIDE WELL BOX ON S. SIDE OF CUT OUT
POSTED ELEV=17.52" WELL # 21333 & 8587 ON BOX

"X" MARK UNDER COVER OF MONITORING WELL

SEWAGE ALUM CAP. "BM ROT-NORTH"



South Florida Water Management District Benchmark Database

Report run on: March 18, 2008 2:33 PM

Designation: ROTNORTH	Latitude: 262639.300	Scaled values only
County: PALM BEACH	Longitude: 805156.700	
USGS Quad:	Monument By: SFWMD	
Project: ROT NORT WELL SITE	Year: 1994	
Sec: 19 Twp: 46 Rge: 35	Type: V	
Status:	Stamping: ROT-NORTH 1994	
NAD 1927 Coordinates:	Party Chief: EBANKS	
N =	Field Book HOLEYLANDS 27	
E =	Page: 49	
Adjustment:	NGVD 1929	
NAD 1983 Coordinates:	Elevation: 15.310 15.29584583333'	
X =	Order: 3	
Y =	Class:	
Adjustment:	NAVD 1988	
Order:	Elevation: 13.883 13.868683333'	
Class:	Order: 3	
	Class:	

Description:

13.868683333' NAVD88
15.29584583333' NGVD29

7/25/97 ED SCOTT EL.. 15.31 NGVD 1929
 SUPERSEDED EL. 14.99 NGVD 1929
 BM IS SFWMD ALUM. CAP SET IN 1 1/2" GAL. PIPE DRIVEN TO REFUSAL, PIPE IS SET IN 5" PVC PIPE FILLED WITH CONC. AT NW CORNER OF WELL PLATFORM.
 BM IS STAMPED "ROT-NORTH 1994".

NGS SOURCE BM BM1990 (PID AD8153) EL. 15.289 NGVD 1988
 SUPERSEDED EL. 16.716 NGVD 1929

ROTNORTH WELL DATA
 EL. 17.60 NGVD 1929 "X" MARK UNDER COVER
 EL. 16.173 NAVD 1988

The NGS Data Sheet

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

```

DATABASE = ,PROGRAM = datasheet, VERSION = 7.58
1 National Geodetic Survey, Retrieval Date = MARCH 18, 2008
AD8153 *****
AD8153 DESIGNATION - 1990
AD8153 PID - AD8153
AD8153 STATE/COUNTY- FL/PALM BEACH
AD8153 USGS QUAD - EAST OF LITTLE CYPRESS SWAMP (1974)
AD8153
AD8153 *CURRENT SURVEY CONTROL
AD8153
AD8153 * NAD 83(1986)- 26 26 05. (N) 080 48 40. (W) SCALED
AD8153 * NAVD 88 - 4.660 (meters) 15.29 (feet) ADJUSTED
AD8153
AD8153 GEOID HEIGHT- -24.82 (meters) GEOID03
AD8153 DYNAMIC HT - 4.653 (meters) 15.27 (feet) COMP
AD8153 MODELED GRAV- 979,070.6 (mgal) NAVD 88
AD8153
AD8153 VERT ORDER - FIRST CLASS II
AD8153
AD8153 The horizontal coordinates were scaled from a topographic map and have
AD8153 an estimated accuracy of +/- 6 seconds.
AD8153
AD8153 The orthometric height was determined by differential leveling
AD8153 and adjusted in September 1992.
AD8153
AD8153 The geoid height was determined by GEOID03.
AD8153
AD8153 The dynamic height is computed by dividing the NAVD 88
AD8153 geopotential number by the normal gravity value computed on the
AD8153 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD8153 degrees latitude (g = 980.6199 gals.).
AD8153
AD8153 The modeled gravity was interpolated from observed gravity values.
AD8153
AD8153; North East Units Estimated Accuracy
AD8153; SPC FL E - 232,790. 218,840. MT (+/- 180 meters Scaled)
AD8153
AD8153 SUPERSEDED SURVEY CONTROL
AD8153
AD8153 NGVD 29 (09/01/92) 5.095 (m) 16.72 (f) ADJUSTED 1 2
AD8153
AD8153 Superseded values are not recommended for survey control.
AD8153 NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8153 See file dsdata.txt to determine how the superseded data were derived.
AD8153
AD8153 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK188238(NAD 83)
AD8153 MARKER: DD = SURVEY DISK
AD8153 SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
AD8153 SP_SET: BRIDGE ABUTMENT
AD8153 STAMPING: BM 1990
AD8153 MARK LOGO: SFLWMD
AD8153 MAGNETIC: I = MARKER IS A STEEL ROD
AD8153 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AD8153 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD8153+ SATELLITE: SATELLITE OBSERVATIONS - June 18, 2007
AD8153
AD8153 HISTORY - Date Condition Report By
AD8153 HISTORY - 1992 MONUMENTED SFLWMD
AD8153 HISTORY - 19920317 GOOD NGS
AD8153 HISTORY - 19961005 GOOD FLDEP
AD8153 HISTORY - 20041005 GOOD MCKIM
AD8153 HISTORY - 20041227 GOOD NICKMI
AD8153 HISTORY - 20070618 GOOD GCT
AD8153
AD8153 STATION DESCRIPTION
AD8153
AD8153 DESCRIBED BY NATIONAL GEODETIC SURVEY 1992
AD8153 14.9 KM (9.25 MI) SOUTHERLY ALONG MIAMI CANAL ROAD AND THE WEST LEVEE
AD8153 ROAD OF THE MIAMI CANAL FROM THE POST OFFICE IN LAKE HARBOR, THENCE

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DATASHEETS

AD8153' 0.1 KM (0.05 MI) EASTERLY ALONG A PAVED ROAD, THENCE 14.8 KM (9.20
AD8153' MI) SOUTHERLY ALONG THE EAST LEVEE ROAD OF THE MIAMI CANAL, AT A
AD8153' PUMPING STATION, IN TOP OF AND 0.1 M (0.3 FT) EAST OF THE WEST END OF
AD8153' THE NORTH CONCRETE ABUTMENT OF A BRIDGE SPANNING A CANAL, 3.0 M (9.8
AD8153' FT) WEST OF THE CENTER OF THE ROAD, 0.9 M (3.0 FT) NORTHWEST OF THE
AD8153' MOST NORTHERLY SUPPORT POST OF A GUARDRAIL, AND 0.2 M (0.7 FT) ABOVE
AD8153' THE LEVEL OF THE ROAD.

AD8153
AD8153
AD8153

STATION RECOVERY (1996)

AD8153' RECOVERY NOTE BY FL DEPT OF ENV PRO 1996 (VAJ)
AD8153' THE MARK IS ABOUT 23.2 MI (37.3 KM) SOUTH-SOUTHEAST OF CLEWISTON, 19.3
AD8153' MI (31.1 KM) SOUTH-SOUTHWEST OF BELLE GLADE IN SECTION 2, TOWNSHIP 47
AD8153' SOUTH, RANGE 35 EAST. TO REACH THE MARK FROM THE POST OFFICE IN LAKE
AD8153' HARBOR, GO SOUTHERLY ON THE MIAMI CANAL ROAD (WEST SIDE OF THE CANAL)
AD8153' FOR 0.65 MI (1.05 KM) TO THE END OF THE PAVEMENT, CONTINUE SOUTHERLY
AD8153' ON THE MIAMI CANAL ROAD FOR 2.35 MI (3.78 KM) TO THE JUNCTION OF
AD8153' ROGERS ROAD ON THE RIGHT, CONTINUE SOUTHERLY ON THE MIAMI CANAL ROAD
AD8153' FOR 6.25 MI (10.06 KM) TO THE INTERSECTION OF A PAVED ROAD, TURN LEFT
AD8153' ON THE PAVED ROAD AND GO EASTERLY FOR 0.05 MI (0.08 KM) TO THE EAST
AD8153' SIDE OF THE MIAMI CANAL AND A DIRT LEVEE ROAD ON THE RIGHT, TURN RIGHT
AD8153' ON THE DIRT LEVEE ROAD AND GO SOUTHERLY FOR 9.25 MI (14.89 KM) TO THE
AD8153' APPROXIMATE CENTER OF A BRIDGE OVER A PUMPING STATION AND THE MARK ON
AD8153' THE RIGHT, SET FLUSH IN THE NORTHWEST CORNER OF THE BRIDGE AND ABOUT
AD8153' 0.5 FT (15.2 CM) ABOVE THE LEVEL OF THE BRIDGE. LOCATED 9.8 FT (3.0 M)
AD8153' WEST OF THE APPROXIMATE CENTERLINE OF THE LEVEE ROAD THAT CROSSES THE
AD8153' BRIDGE, 3.0 FT (0.9 M) NORTHWEST OF THE NORTH END OF THE WEST METAL
AD8153' GAURDRAIL OF THE BRIDGE AND 0.7 FT (21.3 CM) SOUTH OF A CARSONITE
AD8153' WITNESS POST.

AD8153
AD8153
AD8153

STATION RECOVERY (2004)

AD8153' RECOVERY NOTE BY MCKIM AND CREED 2004 (BRH)

AD8153'
AD8153'

AD8153
AD8153
AD8153

STATION RECOVERY (2004)

AD8153' RECOVERY NOTE BY NICK MILLER INCORPORATED 2004 (ECD)
AD8153' RECOVERED AS DESCRIBED.

AD8153
AD8153
AD8153

STATION RECOVERY (2007)

AD8153' RECOVERY NOTE BY GUSTIN, COTHERN, AND TUCKER, I 2007 (WBM)
AD8153' RECOVERED IN GOOD CONDITION.

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

COUNTRY Palm Beach Co		TYPE OF MARK Disc		STATION FCE-3599	
LOCALITY Miami Canal		STAMPING ON MARK		AGENCY (CAST IN MARKS) C of E	
LATITUDE		LONGITUDE		ELEVATION (FT) 21.60 / XXXX	
DATUM N A		DATUM MSL		ESTABLISHED BY (AGENCY) C of E	
X=561,589.07 (M)		Y=763,325.15 (M)		DATE 1973	
(NORTHING)(EASTING)		(EASTING)(NORTHING)		ORDER 3rd	

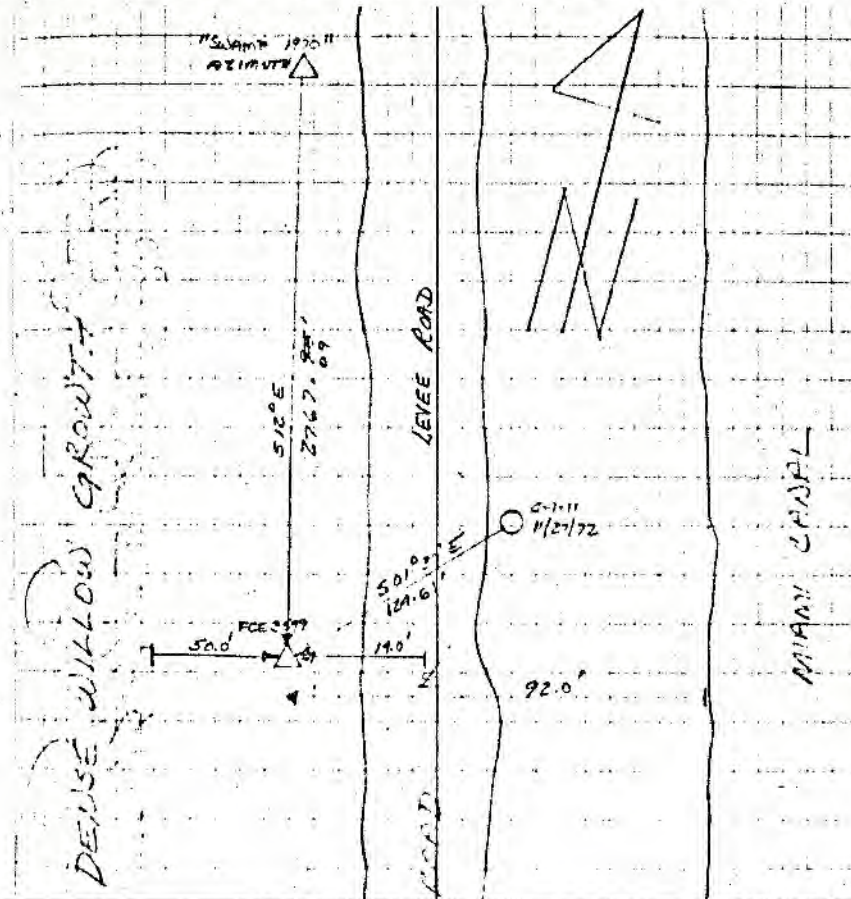
TO OBTAIN GRID AZIMUTH, ADD TO THE GEODETIC AZIMUTH
TO OBTAIN GRID AZ. (ADD)(SUB.) TO THE GEODETIC AZIMUTH

OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE		GRID DISTANCE	
			(METERS)	(FEET)	(METERS)	(FEET)

Station is located 17.65 miles south of Lake Harbor.

Go 17.65 miles south from the intersection of U. S. Hwy. #27 and Miami Canal Road on Miami Canal Road. Station is located on the west shoulder of Levee Road; $S01^{\circ}30'E$, 124.61' from a conc. mon. marked C-1-11, 11/27/72; $S12^{\circ}E$, 2767.09' from a conc. mon. stamped "Swamp, 1970, Azimuth"; 50.0' from a dense willow growth; 92.0' from west edge Miami Canal; 14.0' from centerline of Levee Road.

Mark is a C of E bronze disc set in a 10" round conc. mon. recessed 0.2' below ground, stamped "FCE 3599, 1973". Mark is witnessed by a steel post bearing a C of E sign.



SIL TO RAIN

WALK TO RE. STATION BUILT MARK E. RAIN STATION
DUN AS PER HAND LITTLE DUNE 200

- REF
- 1) DUNE 200. NO. 99. PHOTO BY JANE HILDMAN 2-5-99
 - 2) EXTRA FEB 16 B
 - 3) EAST OF LITTLE CYPRESS SWAMP FLA DUNE STATE

STA	+	HE	-	EL. (ft)	BAR
	1.98 6.29	22.52			20.54 (405)
TO			4.87 2.38	17.63	17.63
		ROCKED LITTLE			
	4.84 2.43	22.47			
TO			1.93 6.34	20.54	20.54
<hr/>					
		WALKS CONT'D TO RAIN			17.63
	4.53 2.74	22.16			
TO			9.14 4.11	13.00	
	3.20 4.07	16.26			
		WALKS CONT'D TO US			

7.73

9.16

30 46/34

W HUDSON
K MORRIS
D BRUNN

5.798m (19.022716666' NAVD88
6.232m (20.446153333' NGVD29

Comments

TO BRUNN EXTRA FEB 20.11

SET FOR 22. and C. W. L. TO GET ON E SIDE
OF LITTLE. TO "A"

16.1122716666' NAVD88
17.536153333' NGVD29

TO ABOVE 20.00

TO "A" ABOVE

Handwritten signature

Wetlands Cont'd to p. 61

STA	+	W	-	Cont'd.	Zone
		16.20			
1A			3.06 4.21	13.14	
	3.58 3.89	16.52			
1A			3.53 3.94	13.19	
	3.30 3.91	16.55			
1A			3.10 4.17	13.45	
	3.59 3.68	17.04			
1A			3.31 3.96	13.73	
	3.51 3.76	17.24			
1A			3.98 3.29	13.26	
	3.71 3.56	16.97			
1A			3.56 3.91	13.61	
	3.73 3.54	17.34			
1A			3.62 3.65	13.72	
	3.70 3.57	17.42			
1A			3.21 4.06	14.21	
	3.18 4.09	17.39			

Wetlands Cont'd to p. 61

Comments

Wetlands Cont'd to p. 61

D. Hudson
K. Morrissett
P. G. Brown

205

STA	H	LEVELS	COND	FE	TO	UB
		17.39				
1A		2.74 5.03	16.74	2.89 4.38		14.50
1B		3.52 3.75	16.96	3.30 3.97		13.44
1C		3.69 3.58	17.77	2.90 4.37		14.06
1D		3.03 4.24	17.33	3.40 3.87		14.35
1E		3.69 3.58	17.68	3.39 3.88		13.97
1F		16.17		2.15 5.12	15.53	15.535 (2005)
			RESTORED	LEVELS		
1G		2.20 5.07	17.73	3.74 3.53		13.97
		3.69 3.58	17.68			
			LEVELS COND TO UB			

5.89

3.74

The Book does not contain a page 66

Comments

LEVELS COND EAST TIES POTTERVILLE DWA

At Howland
T. M. ...
P. ...

14.0172716666' NAVD88
15.441153333' NGVD29 (FLDEP)

Ben Rot. North RESET A S.F.D. M.D. ...
in a 1/4" ...
COND: DEVEN TO REFUSAL = 3.1' ABOVE GROUND.
MARK IS IN POTTERVILLE DWA, = 1.2 MILES EAST
OF G. 324C IN STA. 5 RCD FOR RECOVER. ...
D. ...
LIVEN 2) 625 UNIT, BEN STAMPED BEN ROT. NORTH
RESET 1999

Ben

SPR	+	Wc	-	ELCV	Bu
		17.68			
1P			3.39 3.88	14.29	
	3.24 4.03	17.53			
1P			3.31 3.90	14.22	
	2.76 4.51	16.98			
1P			3.47 3.80	13.51	
	3.32 3.95	16.83			
1P			2.35 4.92	14.43	
	2.84 4.43	17.32			
1P			2.86 4.41	14.40	
	2.95 4.32	17.41			
1P			3.04 4.23	14.37	
	3.00 4.27	17.37			
1P			3.15 4.12	14.22	
	2.79 4.48	17.01			
1P			3.17 4.10	13.34	
	3.35 3.92	17.19			
		<u>COND</u>	<u>R</u>	<u>UP</u>	

Comments	
	At Hooson T. Hooson d. Graham
	<u>RETURN</u> <u>LEADS</u>

[Handwritten signature]

68
Howland
Feb 27
4-22-99

STA		RETURN LEVELS	Fe. 21 US	
	HE			
	17.19			2.20 3.2
1A			3.00 4.27	14.19
	3.08 4.19	17.27		
1B			2.73 4.54	14.54
	2.12 5.15	16.60		
1A			2.57 4.70	12.00
	2.55 4.72	16.64		
1B			2.71 4.56	13.93
	2.43 4.84	16.36		
1A			3.24 4.03	13.12
	2.60 3.67	22.72		
1B			5.10 2.17	17.62 17.63
	19.78		19.35	
		<u>END</u>	<u>Levels</u>	
		<u>CAD 2 TO</u>	<u>TO</u>	

Howland
Feb 27
4-22-99
69

Comments

RETURN LEVELS

NY HUDSON
K. MALLET
P. GRAN...

From "A" To U4 (2200 0.51) ✓

52.06 - 54.16 = -2.1
49.92 - 47.83 = 2.09
 (2.10 + 2.09)/2 = -2.095

Field at Point Summit Hill

STA	+	-	Level	Bm
	0.30 0.97	21.82		15.54
			0.94 0.33	20.90
			5.00 2.27	10.84
			0.30 0.97	15.54 15.54
		END	Levelling	

Comments

Bm Ref Level Reset, 7 07

* MARK TO TOP OF OLD PLATFORM OF
SUMMIT HILL "POINT"

STAFF GAGE SET AT 17' ELEV MARK ON GAGE

Bm ABOVE

LEVELS CONTD FR 2 10

STA	+	Le	-	LLD	Bm
		23.85			
1A			4.84 2.43	19.01	
	4.88 2.39	23.89			
1A			5.15 2.12	18.74	
	5.08 2.19	23.82			
1A			4.63 2.64	19.19	
	4.55 2.72	23.74			
1A			4.89 2.38	18.85	
	5.23 2.04	24.08			
1A			4.85 2.42	19.23	
	4.55 2.72	23.78			
1A			5.15 2.12	18.63	
	5.59 1.68	24.22			
7% Bm			3.72 3.55	20.50	ADJ. 20.543
	3.40 3.81	23.96			
1A			5.14 2.13	18.82	
	4.11 3.16	22.93			

LEVELS CONTD FR 2

Comments

LEVELS CONTD SOUTH of EAST LEVISE

W HUDSON
N BRADMAN
of ADJUSTED

BENCH

36 46/34

Bm B-344C SET A SECOND ALONG CAP IN TOP OF THE SOUTH END OF THE WEST CONC. HEADWALL OF STRUCTURE B-344C ON THE STA-5 E. LEVISE, 80' W. OF LEVISE & STAMPED "B-344C 1999"



South Florida Water Management District Benchmark Database

Report run on: March 18, 2008 3:36 PM

Designation: ROTNORTHRESET	Latitude: 262633.700	Scaled values only
County: HENDRY	Longitude: 802534.900	
USGS Quad: EAST LITTLE CYPRESS SWAMP	Monument By: SFWMD	
Project: ROT-NORTH WELL SITE	Year: 1999	
Sec: 32 Twp: 46 Rge: 35	Type: V	
Status:	Stamping: BMROTNORTHRESET1999	
NAD 1927 Coordinates:	Party Chief: HUDSON	
N =	Field Book HOLYLAND27	
E =	Page: 67	
Adjustment:	NGVD 1929	
NAD 1983 Coordinates:	Elevation: 15.441	
X = 543865.300	Order: 3	
Y = 767013.450	Class:	
Adjustment:	NAVD 1988	
Order:	Elevation: 14.017	
Class:	Order: 3	
	Class:	

14.0172716666' NAVD88
15.441153333' NGVD29 (FLDEP)

Description:

SUPERSEDED EL. 15.535 NGVD 1929
 TO REACH: FROM THE JUNCTION OF UNITED STATES HIGHWAY 27 (US27) AND COUNTY ROAD 835 (CR 835) IN CLEWISTON FLORIDA; GO SOUTH ON CR 835 A DISTANCE OF 11.6 MILES TO L-1 LEVEE; TURN LEFT ON LEVEE ROAD & GO SOUTH 11.26 MILES TO THE NORTHWEST CORNER OF STORM WATER TREATMENT AREA 5 (STA5) AND L2 GATE; CONTINUE THRU GATE, 50 FEET MORE OR LESS TO THE JUNCTION OF THE EAST BOUNDARY LEVEE AND THE NORTH BOUNDARY LEVEE; GO EAST ON STA5 NORTH LEVEE 3.9 MILES TO THE NORTHEAST CORNER STA5 AND LEVEE BREAK TO SOUTH; CONTINUE SOUTH ON EAST LEVEE 1.14 MILES TO STRUCTURE G344C; FROM EAST LEVEE AND STRUCTURE G344C GO EAST ON ROTTEN BURGER TRACT 1.2 MILES TO STATION LOCATION.
 MARK IS A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) ALUMINUM CAP SET IN A 1-1/4-INCH IRON PIPE, 3.1 FEET ABOVE GROUND LEVEL WITH AN 8-INCH POLYVINYLCHLORIDE (PVC) CASTING FILLET WITH CONCRETE.
 BM IS STAMPED "BM ROT NORTH RESET 1999."

NOTE: AN AIRBOAT OR BUGGY IS REQUIRED TO ACCESS BM DEPENDING ON CURRENT WEATHER CONDITIONS. A GPS UNIT IS STRONGLY RECOMMENDED FOR RECOVERY.

NGS SOURCE BENCHMARK G344C (PID DG6848) EL.19.022 NAVD 1988
 EL.20.446 NGVD 1929

ROT-NORTH WELL DATA
 EL. 20.806 "X" MARK FOUND TOP OF WOOD PLATFORM OF STILLWELL
 ROTTN
 EL. 16.746 NGVD 1929 STAFF GAUGE SHOT AT THE 17 FOOT ELEVATION
 MARK ON GAUGE

The NGS Data Sheet

**5.798m + 0.434m = 6.232m (20.446153333') NGVD29
(0.434m is the difference taken from the FLDEP
preliminary values**

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

```

PROGRAM = datasheet95, VERSION = 8.7.1
1      National Geodetic Survey,  Retrieval Date = SEPTEMBER 12, 2015
DG6848 *****
DG6848 DESIGNATION - G 344 C
DG6848 PID - DG6848
DG6848 STATE/COUNTY- FL/HENDRY
DG6848 COUNTRY - US
DG6848 USGS QUAD - LITTLE CYPRESS (1990)
DG6848
DG6848 *CURRENT SURVEY CONTROL
DG6848
DG6848* NAD 83(1986) POSITION- 26 26 37. (N) 080 52 58. (W) SCALED
DG6848* NAVD 88 ORTHO HEIGHT - 5.798 (meters) 19.02 (feet) ADJUSTED
DG6848
DG6848 GEOID HEIGHT - -24.82 (meters) GEOID12B
DG6848 DYNAMIC HEIGHT - 5.789 (meters) 18.99 (feet) COMP
DG6848 MODELED GRAVITY - 979,068.6 (mgal) NAVD 88
DG6848
DG6848 VERT ORDER - FIRST CLASS II
DG6848
DG6848.The horizontal coordinates were scaled from a topographic map and have
DG6848.an estimated accuracy of +/- 6 seconds.
DG6848.
DG6848.The orthometric height was determined by differential leveling and
DG6848.adjusted by the NATIONAL GEODETIC SURVEY
DG6848.in December 2004.
DG6848
DG6848.The dynamic height is computed by dividing the NAVD 88
DG6848.geopotential number by the normal gravity value computed on the
DG6848.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DG6848.degrees latitude (g = 980.6199 gals.).
DG6848
DG6848.The modeled gravity was interpolated from observed gravity values.
DG6848
DG6848; North East Units Estimated Accuracy
DG6848;SPC FL E - 233,770. 211,690. MT (+/- 180 meters Scaled)
DG6848
DG6848 SUPERSEDED SURVEY CONTROL
DG6848
DG6848.No superseded survey control is available for this station.
DG6848
DG6848_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK116248 (NAD 83)
DG6848
DG6848_MARKER: DD = SURVEY DISK
DG6848_SETTING: 34 = SET IN THE FOOTINGS OF SMALL/MEDIUM STRUCTURES
DG6848_SP_SET: FLOOD CONTROL STRUCTURE
DG6848_STAMPING: BM G 344 C 1999
DG6848_MARK LOGO: SFLWMD
DG6848_MAGNETIC: N = NO MAGNETIC MATERIAL
DG6848_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DG6848+STABILITY: SURFACE MOTION
DG6848_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG6848+SATELLITE: SATELLITE OBSERVATIONS - February 20, 2003
DG6848
DG6848 HISTORY - Date Condition Report By
DG6848 HISTORY - 1999 MONUMENTED SFLWMD
DG6848 HISTORY - 20030220 GOOD FLDEP

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DG6848

DG6848

STATION DESCRIPTION

DG6848

DG6848'DESCRIBED BY FL DEPT OF ENV PRO 2003 (JLM)

DG6848'THE MARK IS ABOUT 33.7 MI EAST OF IMMOKALEE, 25.0 MI SOUTH OF

DG6848'CLEWISTON, IN SECTION 36, TOWNSHIP 46 SOUTH, RANGE 34 EAST.

DG6848'

DG6848'TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 SOUTHBOUND

DG6848'LANES AND MIAMI CANAL ROAD IN LAKE HARBOR (ABOUT 6.5 MI WESTERLY OF

DG6848'SOUTHBAY), GO SOUTHERLY ON MIAMI CANAL ROAD FOR 0.15 MI TO THE

DG6848'INTERSECTION OF CORKSCREW BOULEVARD, CONTINUE SOUTHERLY ON THE MIAMI

DG6848'CANAL ROAD FOR 0.65 MI TO THE END OF THE PAVEMENT, CONTINUE SOUTHERLY

DG6848'(ON THE WEST SIDE OF MIAMI CANAL) FOR 8.55 MI TO THE INTERSECTION OF A

DG6848'PAVED ROAD (AT A BRIDGE SPANNING THE MIAMI CANAL), CONTINUE SOUTHERLY

DG6848'ON THE WEST SIDE OF THE MIAMI CANAL FOR 6.15 MI TO A CANAL LEADING

DG6848'WEST AND A 90 DEGREE BEND RIGHT, CONTINUE WESTERLY ON THE LEVEE ROAD

DG6848'FOR 0.05 MI TO A ONE LANE BRIDGE ON THE LEFT, CONTINUE WESTERLY ON

DG6848'THE LEVEE ROAD FOR APPROXIMATELY 75.0 FT TO A LOCKED GATE, PASSING

DG6848'THROUGH THE GATE, CONTINUE WESTERLY ON THE LEVEE ROAD FOR 4.8 MI TO A

DG6848'T-JUNCTION OF A NORTH-SOUTH LEVEE ROAD, TURN LEFT ON THE LEVEE ROAD

DG6848'AND GO SOUTH FOR 1.1 MI TO FLOOD CONTROL STRUCTURE G-344C ON THE

DG6848'RIGHT AND THE MARK ON THE RIGHT, A SFLWMD ALUMINUM DISK SET FLUSH IN

DG6848'THE SOUTH END OF THE WEST CONCRETE FLOOD STRUCTURE HEADWALL, 1.5 FT

DG6848'ABOVE THE LEVEL OF THE LEVEE ROAD.

DG6848'

DG6848'LOCATED 36.8 FT SOUTHWEST OF THE SOUTHWEST CORNER OF AN 8.0 FT X 11.0

DG6848'FT BUILDING, 28.8 FT WEST OF THE APPROXIMATE CENTERLINE OF THE LEVEE

DG6848'ROAD, 15.7 FT SOUTH OF THE NORTHEAST END OF THE STRUCTURE AND 2.7 FT

DG6848'WEST-NORTHWEST OF THE SOUTHEAST END OF THE STRUCTURE.

DG6848'

DG6848'NOTE FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT AT NUMBER

DG6848'813-983-1431.

*** retrieval complete.

Elapsed Time = 00:00:04

ROTTN FEB 2001-3



-*- FIELD ABSTRACT -*-

970415-970503 HGZ L26463 4.0 MM ORDER 1 CLASS 2 PAGE 1
 AREA WORK 20 MILES SOUTH OF CLEWISTON, FLORIDA.
 STARTING ELEVATION BASED ON NAVD 88 HEIGHTS.
 NOTE COLLIMATION STORED IN ELECTRONIC INSTRUMENT.
 NOTE LATITUDE AND LONGITUDE WAS SCALED FROM TOPOGRAPHIC MAP.

FROM	TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0005 Z 410 X							6.65600	
0005 Z 410 X		4151341	B	1.66	0.78573 *	0.00	-0.78573	1
0004 N 409 X				1.66		0.00	5.87027	
0004 N 409 X		4151145	B	1.82	-0.39415 *	0.00	0.39415	1
0003 M 409 X				3.48		0.00	6.26442	
0003 M 409 X		4151001	B	1.54	0.88318 *	1.23	-0.88380	1
0002 L 409 X		4161341	F	1.54	-0.88441 *			1
		SL 1		5.01		1.23	5.38062	
0002 L 409 X		4150856	B	1.53	0.46122 *	1.11	-0.46177	1
0001 K 409 X		4161511	F	1.53	-0.46232 *			1
		SL 1		6.54		2.34	4.91885	
0003 M 409 X		4151513	F	0.10	-2.42399 *	-0.11	-2.42404	1
0009 A 578		4151550	B	0.10	2.42409 *			1
				3.58		-0.11	3.84038	
0009 A 578		4160803	F	0.35	0.07261 *	0.40	0.07281	1
0010 G 402 D		4160829	B	0.36	-0.07301 *			1
		SL 1		3.93		0.30	3.91319	
0009 A 578		4160857	F	1.72	-0.22063 *	-2.18	-0.22172	1
0011 B 578		4171444	B	1.72	0.22281 *			1
				5.30		-2.29	3.61866	
0011 B 578		4161034	F	1.20	-0.09045 *	0.62	-0.09014	1
0012 C 578		4171344	B	1.21	0.08983 *			1
				6.50		-1.67	3.52852	
0012 C 578		4161223	F	1.61	0.13681 *	2.70	0.13816	1
0013 D 578		4171130	B	1.61	-0.13950 *			1
				8.11		1.03	3.66668	
0013 D 578		4170949	B	1.58	0.09615 *	-1.14	-0.09558	1
0014 E 578		4180813	F	1.58	-0.09501 *			1
				9.69		-0.11	3.57110	
0014 E 578		4170833	B	1.64	-0.02126 *	-1.28	0.02191	1
0015 F 578		4180932	F	1.63	0.02255 *			1
				11.32		-1.40	3.59301 [♀]	

-*- FIELD ABSTRACT -*-

970415-970503 HGZ L26463 4.0 MM ORDER 1 CLASS 2 PAGE 2
 AREA WORK 20 MILES SOUTH OF CLEWISTON, FLORIDA.

FROM	TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0015 F 578		4170808	B	0.26	-0.25428 *	-0.80	0.25468	1
0016 G 349 B		4181107	F	0.26	0.25508 *			1

L26463. ABS

				11. 57			-2. 20	3. 84769	
0016 G 349 B		4181143 F		0. 22	1. 97263 *		0. 35	1. 97280	1
0018 G 344 A		4191545 B		0. 21	-1. 97297 *				1
				11. 79			-1. 85	5. 82049	
0018 G 344 A		4181213 F		0. 80	0. 01232 *		1. 16	0. 01290	1
0019 G 344 B		4191512 B		0. 80	-0. 01348 *				1
				12. 59			-0. 69	5. 83339	
0019 G 344 B		4181354 F		0. 38	-0. 50403 *		-0. 75	-0. 50441	1
0020 G 578		4191445 B		0. 39	0. 50478 *				1
				12. 97			-1. 45	5. 32898	
0020 G 578		4181410 F		0. 41	0. 47132 *		1. 13	0. 47189	1
0021 G 344 C		4191421 B		0. 41	-0. 47245 *				1
				13. 38			-0. 32	5. 80087	
0021 G 344 C		4181432 F		0. 80	0. 05659 *		0. 28	0. 05673	1
0022 G 344 D		4191344 B		0. 80	-0. 05687 *				1
				14. 18			-0. 04	5. 85760	
0022 G 344 D		4181551 B		0. 09	1. 01955 *		0. 20	-1. 01965	1
0024 G 410		4181558 F		0. 09	-1. 01975 *				1
		SL 1		14. 27			0. 17	4. 83795	
0022 G 344 D		4181520 F		0. 41	-2. 00085 *		-0. 15	-2. 00093	1
0023 G 350 B		4191247 B		0. 41	2. 00100 *				1
				14. 58			-0. 19	3. 85667	
0023 G 350 B		4191103 B		1. 63	0. 58357 *		0. 74	-0. 58394	1
0025 H 578		4200801 F		1. 63	-0. 58431 *				1
				16. 22			0. 56	3. 27273	
0025 H 578		4190915 B		1. 63	-0. 21520 *		-0. 20	0. 21529	1
0026 J 578		4200933 F		1. 63	0. 21539 *				1
				17. 84			0. 36	3. 48802	
0026 J 578		4190859 B		0. 24	-0. 84162 *		-0. 06	0. 84166	1
0027 G 343 H		4201112 F		0. 25	0. 84169 *				1
				18. 08			0. 30	4. 32968	
0027 G 343 H		4190842 B		0. 38	0. 01269 *		-1. 01	-0. 01219	1
0028 G 343 G		4201139 F		0. 38	-0. 01169 *				1
				18. 47			-0. 71	4. 31749	

-*- FIELD ABSTRACT -*-

970415-970503 HGZ L26463 4.0 MM ORDER 1 CLASS 2 PAGE 3
 AREA WORK 20 MILES SOUTH OF CLEWISTON, FLORIDA.

FROM TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0028 G 343 G	4190822	B	0. 38	-0. 01595 *	0. 15	0. 01588	1
0029 G 343 F	4201159	F	0. 38	0. 01580 *			1
			18. 85		-0. 56	4. 33337	
0029 G 343 F	4190801	B	0. 38	0. 04109 *	-0. 40	-0. 04089	1
0030 K 578	4201254	F	0. 38	-0. 04069 *			1
			19. 22		-0. 95	4. 29248	
0030 K 578	4201316	F	0. 01	0. 04006 *	-0. 04	0. 04005	1
0031 G 343 E	4201319	B	0. 01	-0. 04003 *			1
	SL 1		19. 24		-0. 99	4. 33253	
0030 K 578	4201322	F	0. 38	-0. 00846 *	1. 56	-0. 00768	1
0032 G 343 D	5021328	B	0. 38	0. 00690 *			1
			19. 60		0. 61	4. 28480	

L26463. ABS

0032 G 343 D	4201342 F	0.38	0.00286 *	-0.80	0.00247	1
0033 G 343 C	5021300 B	0.38	-0.00207 *			1
		19.98		-0.19	4.28727	
0033 G 343 C	4201418 F	0.37	0.05241 *	0.37	0.05259	1
0034 L 578	5021152 B	0.37	-0.05278 *			1
		20.36		0.18	4.33986	
0034 L 578	4201434 F	0.02	-0.07254 *	-0.05	-0.07256	1
0035 G 343 B	4201438 B	0.02	0.07258 *			1
	SL 1	20.37		0.14	4.26730	
0034 L 578	4201441 F	0.38	-0.02425 *	-1.48	-0.02524	1
0036 G 343 A	5021125 B	0.38	0.02689 *			1
	5021456 B	0.38	0.02458 *			1
		20.73		-1.30	4.31462	
0036 G 343 A	4201501 F	0.97	1.57936 *	0.60	1.57966	1
0037 M 578	5021017 B	0.96	-1.56988 R*			1
	5021403 B	0.96	-1.57996 *			1
		21.70		-0.70	5.89428	
0037 M 578	5020900 B	1.40	1.11910 *	0.31	-1.11925	1
0038 G 349 A	5021520 F	1.40	-1.11941 *			1
		23.09		-0.39	4.77503	
0038 G 349 A	5020854 B	0.02	0.90651 *	-0.03	-0.90650	1
0039 349 A	5030941 F	0.02	-0.90648 *			1
		23.11		-0.41	3.86853	
0039 349 A	5020812 B	1.01	-2.97737 *	-0.91	2.97782	1
0040 N 578	5030948 F	1.03	2.94201 R*			1
	5031223 F	1.03	2.97828 *			1
		24.12		-1.33	6.84635 ⁹	

*- FIELD ABSTRACT *-

970415-970503 HGZ L26463 4.0 MM ORDER 1 CLASS 2 PAGE 4
 AREA WORK 20 MILES SOUTH OF CLEWISTON, FLORIDA.

FROM TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0040 N 578	5020804 B	0.11	-0.07389 *	-0.13	0.07396	1	
0041 G 342 A	5031045 F	0.11	0.07402 *			1	
		24.23		-1.45	6.92031		
0041 G 342 A	4300805 B	1.50	0.00579 *	1.78	-0.00668	1	
0043 G 342 B	5031056 F	1.51	-0.00757 *			1	
		25.73		0.33	6.91363		
0043 G 342 B	4300800 B	0.05	0.02184 *	0.45	-0.02206	1	
0044 G 342 C	5031212 F	0.05	-0.02229 *			1	
		25.78		0.78	6.89157		
0044 G 342 C	5011311 F	1.48	-0.14786 *	-0.31	-0.14802	1	
0045 E 535	5011424 B	1.49	0.14817 *			1	
		27.26		0.47	6.74355		
0045 E 535	5010946 F	0.98	-2.85589 *	-2.48	-2.85713	1	
0047 G 350 A	5011031 B	0.98	2.85838 *			1	
	SL 1	28.24		-2.01	3.88642		
0045 E 535	5010943 B	0.02	-0.15234 *	-0.11	0.15239	1	
0046 G 342 D	5011118 F	0.02	0.15245 *			1	
		27.28		0.35	6.89594		
0046 G 342 D	5010923 B	0.10	-0.19491 *	0.06	0.19488	1	
0048 G 406	5011121 F	0.10	0.19485 *			1	
		27.38		0.41	7.09082		

L26463. ABS

0048	G	406	5010750	B	1.79	1.59518	*	0.00	-1.59518	1
0049	F	535			29.17			0.41	5.49564	
0049	F	535	4301230	B	1.86	-0.47494	*	0.00	0.47494	1
0050	FLGPS	65			31.04			0.41	5.97058	

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	243 - 91611 396 - 27450	396 - 27506

LEVEL LINE SECTION RUNNING TREE

- 0005
- 0004
- 0003 (0002
0001)
- 0009 (0010)
- 0011
- 0012
- 0013
- 0014
- 0015
- 0016
- 0018
- 0019
- 0020
- 0021
- 0022 (0024)
- 0023
- 0025
- 0026
- 0027
- 0028
- 0029
- 0030 (0031)
- 0032
- 0033
- 0034 (0035)
- 0036
- 0037
- 0038
- 0039
- 0040
- 0041
- 0043
- 0044
- 0045 (0047)
- 0046
- 0048
- 0049
- 0050[‡]

FROM	TO	N. LATITUDE	W. LONGITUDE	FIELD DISTANCE	VS.	COMPUTED
	0005	263024	0804941	0.00		0.00
0005	0004	262932	0804929	1.66		1.63
0004	0003	262834	0804915	1.82		1.83
0003	0002	262748	0804904	1.54		1.45
0002	0001	262659	0804853	1.53		1.54
0003	0009	262835	0804918	0.10		0.09

L26463. ABS

0009	0010	262824	0804916	0.35	0.34
0009	0011	262841	0805015	1.72	1.59
0011	0012	262840	0805059	1.20	1.22
0012	0013	262749	0805101	1.61	1.57
0013	0014	262748	0805157	1.58	1.55
0014	0015	262734	0805250	1.63	1.53
0015	0016	262734	0805259	0.26	0.25
0016	0018	262728	0805300	0.21	0.19
0018	0019	262702	0805300	0.80	0.80
0019	0020	262650	0805259	0.38	0.37
0020	0021	262636	0805259	0.41	0.43
0021	0022	262611	0805259	0.80	0.77
0022	0024	262609	0805257	0.09	0.08
0022	0023	262558	0805258	0.41	0.40
0023	0025	262558	0805356	1.63	1.61
0025	0026	262558	0805455	1.63	1.63
0026	0027	262607	0805454	0.24	0.28
0027	0028	262614	0805454	0.38	0.22
0028	0029	262631	0805455	0.38	0.52
0029	0030	262643	0805455	0.38	0.37
0030	0031	262640	0805455	0.01	0.09
0030	0032	262651	0805455	0.38	0.25
0032	0033	262707	0805455	0.38	0.49
0033	0034	262722	0805456	0.37	0.46
0034	0035	262722	0805456	0.02	0.00
0034	0036	262732	0805456	0.38	0.31
0036	0037	262740	0805523	0.96	0.79
0037	0038	262741	0805613	1.40	1.39
0038	0039	262741	0805613	0.02	0.00
0039	0040	262742	0805649	1.01	1.00
0040	0041	262738	0805649	0.11	0.12
0041	0043	262650	0805648	1.50	1.48
0043	0044	262648	0805648	0.05	0.06
0044	0045	262601	0805644	1.48	1.45
0045	0047	262556	0805616	0.98	0.79
0045	0046	262602	0805647	0.02	0.09
0046	0048	262559	0805650	0.10	0.12
0048	0049	262558	0805749	1.79	1.64
0049	0050	262558	0805857	1.86	1.88 [♀]

Windows Abstra Version 1.2 -- Oct. 2001 -- Tue May 06 16:15:09 2003

SECTION
 FROM TO ERROR MESSAGES
 0051 *** Bench mark description exists but mark not leveled to.
 0007 *** Bench mark description exists but mark not leveled to.
 0008 *** Bench mark description exists but mark not leveled to.

-*- FIELD ABSTRACT -*-

970415-970503 HGZ L26463 4.0 MM ORDER 1 CLASS 2 PAGE 1
 AREA WORK 20 MILES SOUTH OF CLEWISTON, FLORIDA.
 STARTING ELEVATION BASED ON NGVD 29 HEIGHTS.
 NOTE COLLIMATION STORED IN ELECTRONIC INSTRUMENT.
 NOTE LATITUDE AND LONGITUDE WAS SCALED FROM TOPOGRAPHIC MAP.

FROM	TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	I C
0005 Z 410 X							7.09000	
0005 Z 410 X		4151341	B	1.66	0.78573 *	0.00	-0.78573	1
0004 N 409 X				1.66		0.00	6.30427	
0004 N 409 X		4151145	B	1.82	-0.39415 *	0.00	0.39415	1
0003 M 409 X				3.48		0.00	6.69842	
0003 M 409 X		4151001	B	1.54	0.88318 *	1.23	-0.88380	1
0002 L 409 X		4161341	F	1.54	-0.88441 *			1
		SL 1		5.01		1.23	5.81462	
0002 L 409 X		4150856	B	1.53	0.46122 *	1.11	-0.46177	1
0001 K 409 X		4161511	F	1.53	-0.46232 *			1
		SL 1		6.54		2.34	5.35285	
0003 M 409 X		4151513	F	0.10	-2.42399 *	-0.11	-2.42404	1
0009 A 578		4151550	B	0.10	2.42409 *			1
				3.58		-0.11	4.27438	
0009 A 578		4160803	F	0.35	0.07261 *	0.40	0.07281	1
0010 G 402 D		4160829	B	0.36	-0.07301 *			1
		SL 1		3.93		0.30	4.34719	
0009 A 578		4160857	F	1.72	-0.22063 *	-2.18	-0.22172	1
0011 B 578		4171444	B	1.72	0.22281 *			1
				5.30		-2.29	4.05266	
0011 B 578		4161034	F	1.20	-0.09045 *	0.62	-0.09014	1
0012 C 578		4171344	B	1.21	0.08983 *			1
				6.50		-1.67	3.96252	
0012 C 578		4161223	F	1.61	0.13681 *	2.70	0.13816	1
0013 D 578		4171130	B	1.61	-0.13950 *			1
				8.11		1.03	4.10068	
0013 D 578		4170949	B	1.58	0.09615 *	-1.14	-0.09558	1
0014 E 578		4180813	F	1.58	-0.09501 *			1
				9.69		-0.11	4.00510	
0014 E 578		4170833	B	1.64	-0.02126 *	-1.28	0.02191	1
0015 F 578		4180932	F	1.63	0.02255 *			1
				11.32		-1.40	4.02701 [♀]	

-*- FIELD ABSTRACT -*-

970415-970503 HGZ L26463 4.0 MM ORDER 1 CLASS 2 PAGE 2
 AREA WORK 20 MILES SOUTH OF CLEWISTON, FLORIDA.

FROM	TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	I C
0015 F 578		4170808	B	0.26	-0.25428 *	-0.80	0.25468	1
0016 G 349 B		4181107	F	0.26	0.25508 *			1

Ngvd29. ABS

				11. 57			-2. 20	4. 28169	
0016 G 349 B		4181143 F		0. 22	1. 97263 *		0. 35	1. 97280	1
0018 G 344 A		4191545 B		0. 21	-1. 97297 *				1
				11. 79			-1. 85	6. 25449	
0018 G 344 A		4181213 F		0. 80	0. 01232 *		1. 16	0. 01290	1
0019 G 344 B		4191512 B		0. 80	-0. 01348 *				1
				12. 59			-0. 69	6. 26739	
0019 G 344 B		4181354 F		0. 38	-0. 50403 *		-0. 75	-0. 50441	1
0020 G 578		4191445 B		0. 39	0. 50478 *				1
				12. 97			-1. 45	5. 76298	
0020 G 578		4181410 F		0. 41	0. 47132 *		1. 13	0. 47189	1
0021 G 344 C		4191421 B		0. 41	-0. 47245 *				1
				13. 38			-0. 32	6. 23487	
0021 G 344 C		4181432 F		0. 80	0. 05659 *		0. 28	0. 05673	1
0022 G 344 D		4191344 B		0. 80	-0. 05687 *				1
				14. 18			-0. 04	6. 29160	
0022 G 344 D		4181551 B		0. 09	1. 01955 *		0. 20	-1. 01965	1
0024 G 410		4181558 F		0. 09	-1. 01975 *				1
		SL 1		14. 27			0. 17	5. 27195	
0022 G 344 D		4181520 F		0. 41	-2. 00085 *		-0. 15	-2. 00093	1
0023 G 350 B		4191247 B		0. 41	2. 00100 *				1
				14. 58			-0. 19	4. 29067	
0023 G 350 B		4191103 B		1. 63	0. 58357 *		0. 74	-0. 58394	1
0025 H 578		4200801 F		1. 63	-0. 58431 *				1
				16. 22			0. 56	3. 70673	
0025 H 578		4190915 B		1. 63	-0. 21520 *		-0. 20	0. 21529	1
0026 J 578		4200933 F		1. 63	0. 21539 *				1
				17. 84			0. 36	3. 92202	
0026 J 578		4190859 B		0. 24	-0. 84162 *		-0. 06	0. 84166	1
0027 G 343 H		4201112 F		0. 25	0. 84169 *				1
				18. 08			0. 30	4. 76368	
0027 G 343 H		4190842 B		0. 38	0. 01269 *		-1. 01	-0. 01219	1
0028 G 343 G		4201139 F		0. 38	-0. 01169 *				1
				18. 47			-0. 71	4. 75149	

*- FIELD ABSTRACT *-

970415-970503 HGZ L26463 4.0 MM ORDER 1 CLASS 2 PAGE 3
 AREA WORK 20 MILES SOUTH OF CLEWISTON, FLORIDA.

FROM TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0028 G 343 G	4190822	B	0. 38	-0. 01595 *	0. 15	0. 01588	1
0029 G 343 F	4201159	F	0. 38	0. 01580 *			1
			18. 85		-0. 56	4. 76737	
0029 G 343 F	4190801	B	0. 38	0. 04109 *	-0. 40	-0. 04089	1
0030 K 578	4201254	F	0. 38	-0. 04069 *			1
			19. 22		-0. 95	4. 72648	
0030 K 578	4201316	F	0. 01	0. 04006 *	-0. 04	0. 04005	1
0031 G 343 E	4201319	B	0. 01	-0. 04003 *			1
	SL 1		19. 24		-0. 99	4. 76653	
0030 K 578	4201322	F	0. 38	-0. 00846 *	1. 56	-0. 00768	1
0032 G 343 D	5021328	B	0. 38	0. 00690 *			1
			19. 60		0. 61	4. 71880	

Ngvd29. ABS

0032 G 343 D	4201342 F	0.38	0.00286 *	-0.80	0.00247	1
0033 G 343 C	5021300 B	0.38	-0.00207 *			1
		19.98		-0.19	4.72127	
0033 G 343 C	4201418 F	0.37	0.05241 *	0.37	0.05259	1
0034 L 578	5021152 B	0.37	-0.05278 *			1
		20.36		0.18	4.77386	
0034 L 578	4201434 F	0.02	-0.07254 *	-0.05	-0.07256	1
0035 G 343 B	4201438 B	0.02	0.07258 *			1
	SL 1	20.37		0.14	4.70130	
0034 L 578	4201441 F	0.38	-0.02425 *	-1.48	-0.02524	1
0036 G 343 A	5021125 B	0.38	0.02689 *			1
	5021456 B	0.38	0.02458 *			1
		20.73		-1.30	4.74862	
0036 G 343 A	4201501 F	0.97	1.57936 *	0.60	1.57966	1
0037 M 578	5021017 B	0.96	-1.56988 R*			1
	5021403 B	0.96	-1.57996 *			1
		21.70		-0.70	6.32828	
0037 M 578	5020900 B	1.40	1.11910 *	0.31	-1.11925	1
0038 G 349 A	5021520 F	1.40	-1.11941 *			1
		23.09		-0.39	5.20903	
0038 G 349 A	5020854 B	0.02	0.90651 *	-0.03	-0.90650	1
0039 349 A	5030941 F	0.02	-0.90648 *			1
		23.11		-0.41	4.30253	
0039 349 A	5020812 B	1.01	-2.97737 *	-0.91	2.97782	1
0040 N 578	5030948 F	1.03	2.94201 R*			1
	5031223 F	1.03	2.97828 *			1
		24.12		-1.33	7.28035	

-*- FIELD ABSTRACT -*-

970415-970503 HGZ L26463 4.0 MM ORDER 1 CLASS 2 PAGE 4
 AREA WORK 20 MILES SOUTH OF CLEWISTON, FLORIDA.

FROM TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0040 N 578	5020804 B	0.11	-0.07389 *	-0.13	0.07396	1	
0041 G 342 A	5031045 F	0.11	0.07402 *			1	
		24.23		-1.45	7.35431		
0041 G 342 A	4300805 B	1.50	0.00579 *	1.78	-0.00668	1	
0043 G 342 B	5031056 F	1.51	-0.00757 *			1	
		25.73		0.33	7.34763		
0043 G 342 B	4300800 B	0.05	0.02184 *	0.45	-0.02206	1	
0044 G 342 C	5031212 F	0.05	-0.02229 *			1	
		25.78		0.78	7.32557		
0044 G 342 C	5011311 F	1.48	-0.14786 *	-0.31	-0.14802	1	
0045 E 535	5011424 B	1.49	0.14817 *			1	
		27.26		0.47	7.17755		
0045 E 535	5010946 F	0.98	-2.85589 *	-2.48	-2.85713	1	
0047 G 350 A	5011031 B	0.98	2.85838 *			1	
	SL 1	28.24		-2.01	4.32042		
0045 E 535	5010943 B	0.02	-0.15234 *	-0.11	0.15239	1	
0046 G 342 D	5011118 F	0.02	0.15245 *			1	
		27.28		0.35	7.32994		
0046 G 342 D	5010923 B	0.10	-0.19491 *	0.06	0.19488	1	
0048 G 406	5011121 F	0.10	0.19485 *			1	
		27.38		0.41	7.52482		

Ngvd29. ABS

0048	G	406	5010750	B	1.79	1.59518	*	0.00	-1.59518	1
0049	F	535								
					29.17			0.41	5.92964	
0049	F	535	4301230	B	1.86	-0.47494	*	0.00	0.47494	1
0050	FLGPS	65								
					31.04			0.41	6.40458	

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	243 - 91611	396 - 27450 396 - 27506

♀
LEVEL LINE SECTION RUNNING TREE

- 0005
- 0004
- 0003 (0002
0001)
- 0009 (0010)
- 0011
- 0012
- 0013
- 0014
- 0015
- 0016
- 0018
- 0019
- 0020
- 0021
- 0022 (0024)
- 0023
- 0025
- 0026
- 0027
- 0028
- 0029
- 0030 (0031)
- 0032
- 0033
- 0034 (0035)
- 0036
- 0037
- 0038
- 0039
- 0040
- 0041
- 0043
- 0044
- 0045 (0047)
- 0046
- 0048
- 0049
- 0050♀

FROM	TO	N. LATITUDE	W. LONGITUDE	FIELD DISTANCE	VS.	COMPUTED
	0005	263024	0804941	0.00		0.00
0005	0004	262932	0804929	1.66		1.63
0004	0003	262834	0804915	1.82		1.83
0003	0002	262748	0804904	1.54		1.45
0002	0001	262659	0804853	1.53		1.54
0003	0009	262835	0804918	0.10		0.09

Ngvd29. ABS

0009	0010	262824	0804916	0.35	0.34
0009	0011	262841	0805015	1.72	1.59
0011	0012	262840	0805059	1.20	1.22
0012	0013	262749	0805101	1.61	1.57
0013	0014	262748	0805157	1.58	1.55
0014	0015	262734	0805250	1.63	1.53
0015	0016	262734	0805259	0.26	0.25
0016	0018	262728	0805300	0.21	0.19
0018	0019	262702	0805300	0.80	0.80
0019	0020	262650	0805259	0.38	0.37
0020	0021	262636	0805259	0.41	0.43
0021	0022	262611	0805259	0.80	0.77
0022	0024	262609	0805257	0.09	0.08
0022	0023	262558	0805258	0.41	0.40
0023	0025	262558	0805356	1.63	1.61
0025	0026	262558	0805455	1.63	1.63
0026	0027	262607	0805454	0.24	0.28
0027	0028	262614	0805454	0.38	0.22
0028	0029	262631	0805455	0.38	0.52
0029	0030	262643	0805455	0.38	0.37
0030	0031	262640	0805455	0.01	0.09
0030	0032	262651	0805455	0.38	0.25
0032	0033	262707	0805455	0.38	0.49
0033	0034	262722	0805456	0.37	0.46
0034	0035	262722	0805456	0.02	0.00
0034	0036	262732	0805456	0.38	0.31
0036	0037	262740	0805523	0.96	0.79
0037	0038	262741	0805613	1.40	1.39
0038	0039	262741	0805613	0.02	0.00
0039	0040	262742	0805649	1.01	1.00
0040	0041	262738	0805649	0.11	0.12
0041	0043	262650	0805648	1.50	1.48
0043	0044	262648	0805648	0.05	0.06
0044	0045	262601	0805644	1.48	1.45
0045	0047	262556	0805616	0.98	0.79
0045	0046	262602	0805647	0.02	0.09
0046	0048	262559	0805650	0.10	0.12
0048	0049	262558	0805749	1.79	1.64
0049	0050	262558	0805857	1.86	1.88 [♀]

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SECTION
 FROM TO ERROR MESSAGES
 0051 *** Bench mark description exists but mark not leveled to.
 0007 *** Bench mark description exists but mark not leveled to.
 0008 *** Bench mark description exists but mark not leveled to.