

Identification\_Information:  
Citation:

**Mike J. Bartholomew**  
**Biscayne Engineering**

Citation\_Information:  
Originator: Mike J. Bartholomew  
Publication\_Date: Unpublished material  
Publication\_Time: Unknown  
Title: East Coast Aquifer Monitoring Wells (M1244)  
Edition: 1.0  
Series\_Information:  
Publication\_Information:  
Larger\_Work\_Citation:  
Citation\_Information:  
Series\_Information:  
Publication\_Information:

Description:

**Purpose**

Abstract: East Coast Aquifer Monitoring Wells (M1244)  
Purpose:  
To establish elevations on a disc set adjacent to the well and provide the results in NAVD-88 format in accordance with the CERP height modernization program  
Supplemental\_Information:  
Access to site is gained by Indiantown, from the intersection of Warfield Blvd. (SR-710) and Citrus Blvd. (SR-726).

Time\_Period\_of\_Content:

**Survey Date**

Time\_Period\_Information:  
Single\_Date/Time:  
Range\_of\_Dates/Times:  
Beginning\_Date: 20060105  
Ending\_Date: 20060105  
Multiple\_Dates/Times:  
Currentness\_Reference: Date and Time Range of Field/Office Work

Status:

Progress: Complete  
Maintenance\_and\_Update\_Frequency: Unknown

Spatial\_Domain:

Bounding\_Coordinates:  
West\_Bounding\_Coordinate: -080°23'56"  
East\_Bounding\_Coordinate: -080°23'56"  
North\_Bounding\_Coordinate: +27°02'11"  
South\_Bounding\_Coordinate: +27°02'11"

Keywords:

Theme:  
Theme\_Keyword\_Thesaurus: None  
Theme\_Keyword: Well Site  
Theme\_Keyword: MARTIN  
Theme\_Keyword: M1244

Place:

Place\_Keyword\_Thesaurus: None  
Place\_Keyword: East Coast Aquifer Monitoring Wells (M1244)  
Place\_Keyword: Martin County, Florida  
Place\_Keyword: Florida  
Place\_Keyword: Sec. 36 , Twp. 39S, Rge 39E

Stratum:

Temporal:

Access\_Constraints: none

Use\_Constraints: None

Point\_of\_Contact:

**Elvie Ebanks**  
**SFWMD**

Contact\_Information:  
Contact\_Person\_Primary:  
Contact\_Person: Elvie Ebanks  
Contact\_Organization: South Florida Water Management

District

Contact\_Organization\_Primary:  
Contact\_Position: Project Manager  
Contact\_Address:  
Address\_Type: mailing and physical address  
Address: 3301 Gun Club Road  
City: West Palm Beach  
State\_or\_Province: FL

M1244.gen  
Postal\_Code: 33406  
Country: USA  
Contact\_Voice\_Telephone: (561) 753-2400 x4717  
Contact\_Facsimile\_Telephone: (561) 791-4093  
Security\_Information:  
Cross\_Reference:  
Citation\_Information:  
Series\_Information:  
Publication\_Information:

Data\_Quality\_Information:  
Attribute\_Accuracy:  
Attribute\_Accuracy\_Report:

## Equipment Used

This Survey was prepared using GPS and Leveling instruments. The horizontal location of the well was established using GPS. The vertical data was collected using Level Wild NA-2. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations based on NAVD88

Logical\_Consistency\_Report:  
Horizontal data was established using NGS control points AJ8256 (R522) and AJ8248 (N522). Vertical data was established using NGS benchmarks AJ8247 (M522) and AJ8246 (L522). Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD88.

Completeness\_Report:  
Horizontal location taken at approximate center of well.  
Lat. +27°02' 10.727"  
Long. -080°23' 56.512"  
N 982837.854  
E 851793.173

## Project Results

New leveled elevations.  
New site benchmark "M1244" is a standard S.F.W.M.D. brass disc in the concrete encasement for tape down well.  
Disc elevation is 33.65' (NAVD88).  
elevation is 35.03' (NGVD29)  
Top of pipe elevation is 32.31' (NAVD88)  
elevation is 33.69' (NGVD29)  
based on NGS NAVD88 adjustment of vertical network.  
Origin of NAVD88 elevation for BM "M1244" and well "M1244" is closed bench level circuit through NGS benchmarks AJ8247 (M522) and AJ8246 (L522).  
NGVD29 Elevations determined at well site vicinity by adding a constant (C) to the measured NAVD88 values.  
The constant was derived by comparing the published NAVD88 value of 24.87 feet at benchmark AJ8247 with an NGVD-29 value of 26.25 feet; per the NGS Adjustment of the CERP Geodetic Vertical Control Project, as provided by SFWMD. C equals 26.25 feet - 24.87 feet equals 1.38 feet. Well is situated approximately 4 miles East of Warfield Blvd. (SR-710), North of the St. Lucie Canal along the South side of Citrus Blvd. (SR-726), Martin County, Florida. TO REACH the well from the intersection of Warfield Blvd. (SR-710) and Citrus Blvd. (SR-726), travel East on Citrus Blvd. (SR-726) for 4 miles. Well is a 2-1/2" diameter pipe. Top of well is beneath the ground surface inside of a green irrigation valve box which is flush with the ground, lying 28.3 feet (more or less) South of Citrus Blvd. Benchmark is a brass SFWMD disc set approximately 0.3' East of a drainage canal bridge, 27 feet South of the South edge of pavement of Citrus Blvd. (SR-726) and 33 feet (+-) Westerly of an aerial target on the centerline of Citrus Blvd. (SR-726) and 33.0 feet Easterly of the green irrigation valve box of well "M-1244".

Positional\_Accuracy:  
Horizontal\_Positional\_Accuracy:  
Horizontal\_Positional\_Accuracy\_Report:  
The horizontal position of the well "M1244" was established using differential GPS. NGS points AJ8256

M1244.gen  
 (R522) and AJ8248 (N522) were used as a source of  
 horizontal control.  
 Quantitative\_Horizontal\_Positional\_Accuracy\_Assessment:  
 Horizontal\_Positional\_Accuracy\_Value: 1 meter  
 Horizontal\_Positional\_Accuracy\_Explanation: The intended  
 horizontal positional accuracy for this survey is 1 meter.

Vertical\_Positional\_Accuracy:  
 Vertical\_Positional\_Accuracy\_Report:  
 A level line was run originating on NGS control point  
 AJ8247 (M522) with NAVD-88 elevation, running through  
 well and disc "M1244" and terminated on point AJ8246  
 (L522) in accordance with Florida Minimum Technical  
 Standards.  
 Quantitative\_Vertical\_Positional\_Accuracy\_Assessment:  
 Vertical\_Positional\_Accuracy\_Value: 0.02 feet  
 Vertical\_Positional\_Accuracy\_Explanation: A bench level  
 circuit was performed between AJ8247 (M522) and AJ8246 (L522), running through well  
 "M1244" in accordance with Florida Minimum Technical Standards (Chapter 61g17-6, FAC).  
 Length of benchmark run is 2.22 miles. Allowable error is 0.10 feet. Achieved Accuracy is  
 0.02 feet.

Lineage:  
 Source\_Information:  
 Source\_Citation:  
 Citation\_Information:  
 Series\_Information:  
 Publication\_Information:  
 Larger\_Work\_Citation:  
 Citation\_Information:  
 Series\_Information:  
 Publication\_Information:  
 Source\_Time\_Period\_of\_Content:  
 Time\_Period\_Information:  
 Single\_Date/Time:  
 Range\_of\_Dates/Times:  
 Multiple\_Dates/Times:

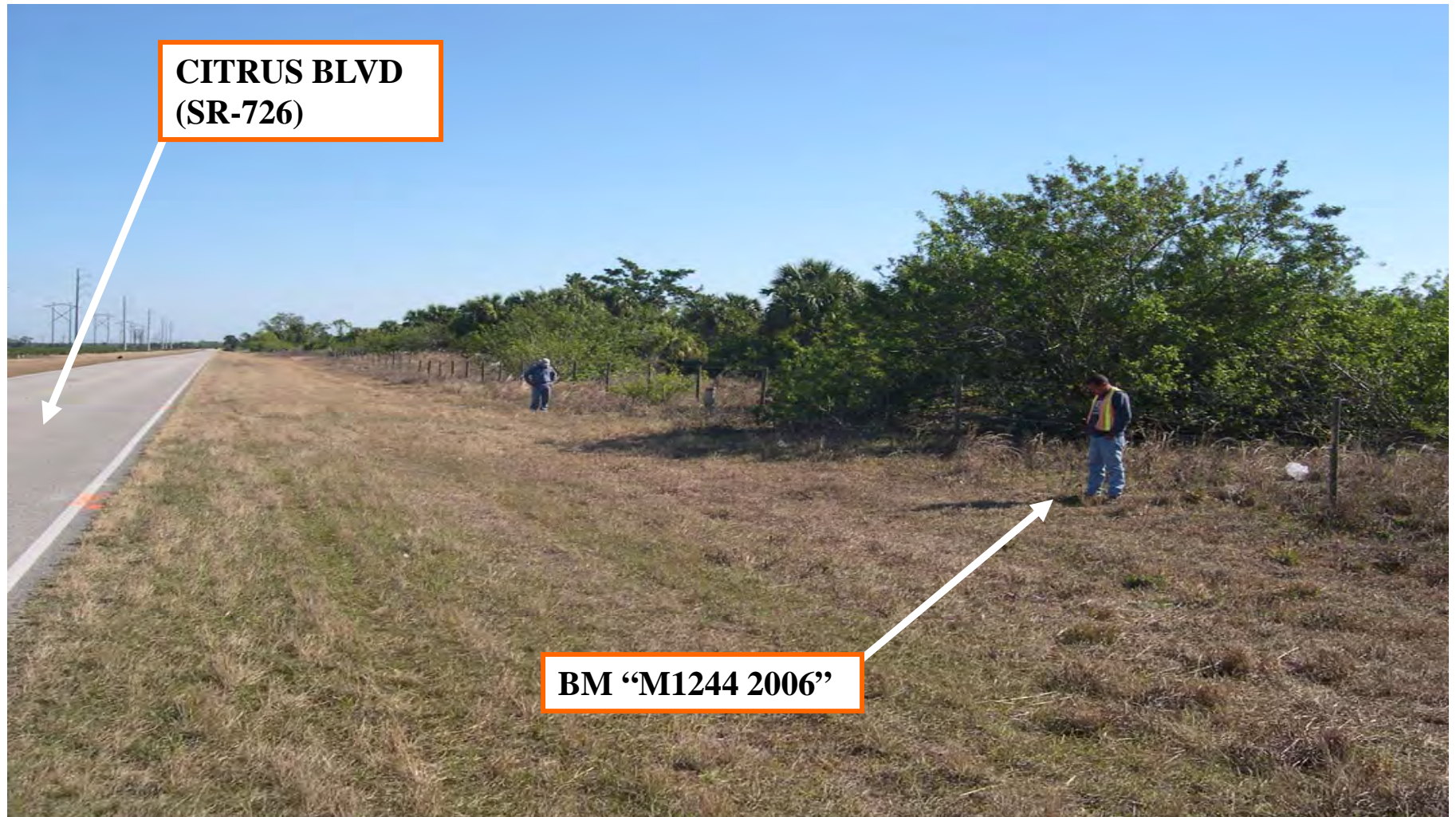
Process\_Step:  
 Process\_Description:  
 The horizontal work was performed using Ashtech GPS  
 receivers. The vertical work was performed using level  
 Wild N-A2.  
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 Process\_Time: 09000000  
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 Contact\_Information:  
 Contact\_Person\_Primary:  
 Contact\_Organization\_Primary:  
 Contact\_Address:

Spatial\_Data\_Organization\_Information:  
 Spatial\_Reference\_Information:  
 Horizontal\_Coordinate\_System\_Definition:  
 Geographic:  
 Planar:  
 Map\_Projection:  
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 Azimuthal\_Equidistant:  
 Equidistant\_Conic:  
 Equiarectangular:  
 General\_Vertical\_Near-sidereal\_Perspective:  
 Gnomonic:  
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 Lambert\_Conformal\_Conic:  
 Mercator:  
 Modified\_Stereographic\_for\_Alaska:  
 Miller\_Cylindrical:  
 Oblique\_Mercator:  
 Oblique\_Line\_Point:  
 Orthographic:  
 Polar\_Stereographic:  
 Polyconic:  
 Robinson:

M1244.gen  
 Si nusoi dal :  
 van\_der\_Gri nten:  
 Space\_Obl i que\_Mercator\_(Landsat):  
 Stereographi c:  
 Transverse\_Mercator:  
 van\_der\_Gri nten:  
 Gri d\_Coordi nate\_System:  
 Uni versal \_Transverse\_Mercator:  
     Transverse\_Mercator:  
 Uni versal \_Pol ar\_Stereographi c:  
     Pol ar\_Stereographi c:  
 State\_Pl ane\_Coordi nate\_System:  
     Lambert\_Conformal \_Coni c:  
     Transverse\_Mercator:  
     Obl i que\_Mercator:  
         Obl i que\_Li ne\_Poi nt:  
         Pol yconi c:  
 ARC\_Coordi nate\_System:  
     Equi rectangul ar:  
     Azi muthal \_Equi di stant:  
 Local \_Pl anar:  
 Pl anar\_Coordi nate\_I nformati on:  
     Coordi nate\_Representati on:  
     Di stance\_and\_Beari ng\_Representati on:  
 Local :  
 Geodeti c\_Model :  
 Verti cal \_Coordi nate\_System\_Defi ni ti on:  
     Al ti tude\_System\_Defi ni ti on:  
     Depth\_System\_Defi ni ti on:  
 Enti ty\_and\_Attri bute\_I nformati on:  
     Detai led\_Descri pti on:  
     Enti ty\_Type:  
     Attri bute:  
         Attri bute\_Domai n\_Val ues:  
         Attri bute\_Val ue\_Accuracy\_I nformati on:  
     Overvi ew\_Descri pti on:  
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     Di stri butor:  
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             Di gi tal \_Transfer\_Opti on:  
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         Recordi ng\_Capaci ty:  
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             Si ngl e\_Date/Ti me:  
             Range\_of\_Dates/Ti mes:  
             Mul ti pl e\_Dates/Ti mes:  
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     Metadata\_Contact:  
         Contact\_I nformati on:  
             Contact\_Person\_Pri mary:  
                 Contact\_Person: Mi ke J. Barthol omew  
                 Contact\_Organi zati on: Bi scayne Engi neeri ng Company, Inc.  
             Contact\_Organi zati on\_Pri mary:  
             Contact\_Posi ti on: Project Surveyor  
             Contact\_Address:  
                 Address\_Type: mai li ng and physi cal address  
                 Address: 529 W. Fl agler Street  
                 Ci ty: Mi ami

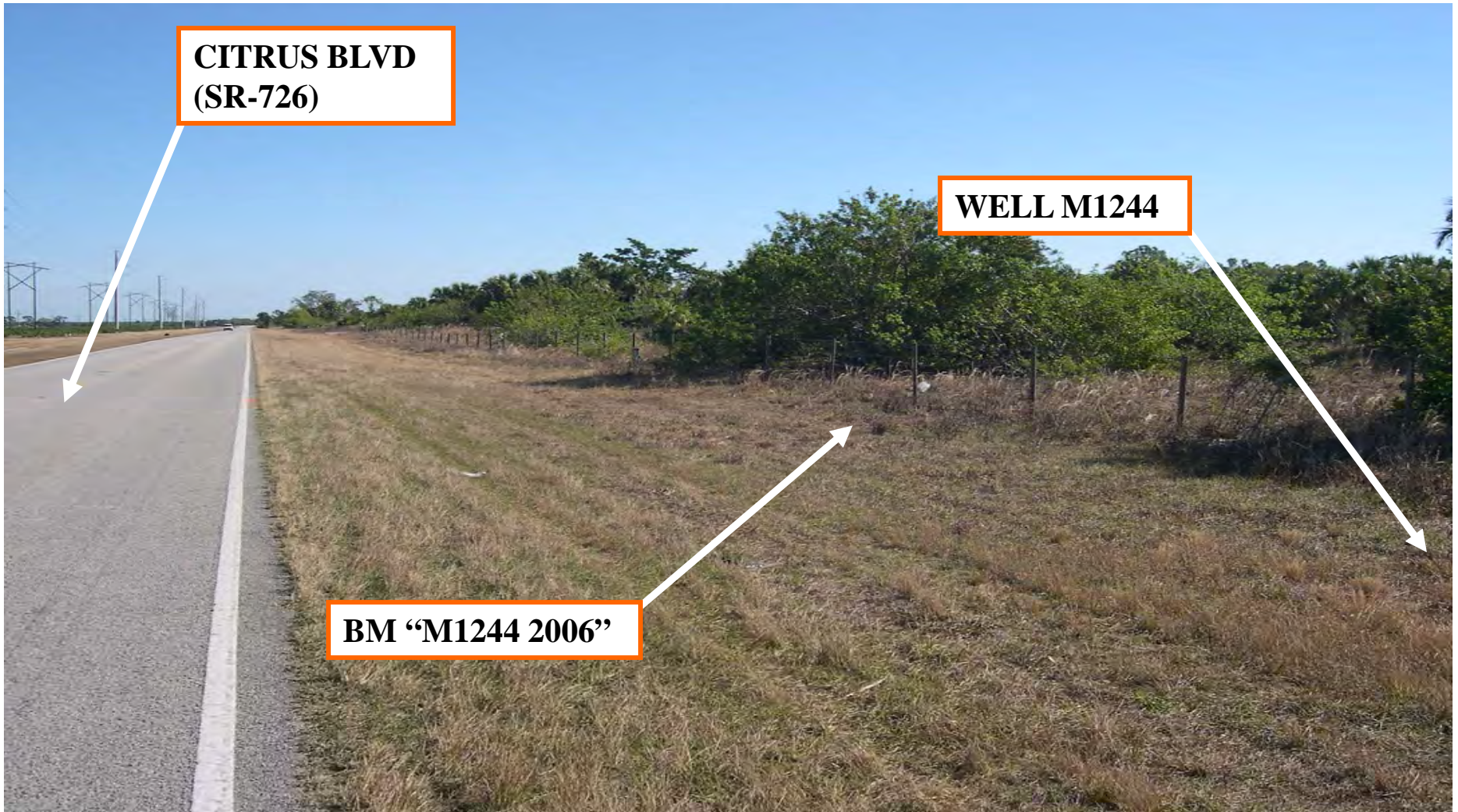
M1244.gen  
State\_or\_Province: FI  
Postal\_Code: 33130  
Country: USA  
Contact\_Voice\_Telephone: (305) 324-7671  
Contact\_Facsimile\_Telephone: (305) 324-0809  
Contact\_Electronic\_Mail\_Address: mi keb@bi scayneengi neeri ng. com  
Hours\_of\_Service: 8:00 AM to 5:00 PM EST  
Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata  
Metadata\_Standard\_Version: 1.0  
Metadata\_Time\_Convention: Local time  
Metadata\_Security\_Information:

# M-1244



**Biscayne Engineering Company, Inc.**  
**Date of Photo: 01-15-06**  
**View: Looking East. BM "M1244 2006".**

# M-1244



**Biscayne Engineering Company, Inc.**  
**Date of Photo: 01-15-06**  
**View: Looking East along Citrus Blvd. (SR-726).**

# M-1244



**Biscayne Engineering Company, Inc.  
Date of Photo: 01-15-06  
View: Looking South. Well M1244 sign.**



# M-1244



**Biscayne Engineering Company, Inc.**  
**Date of Photo: 01-15-06**  
**View: Well M-1244**

# M-1244



**Biscayne Engineering Company, Inc.**  
**Date of Photo: 01-15-06**  
**View: Well M-1244**

# M-1244

**WELL M1244**

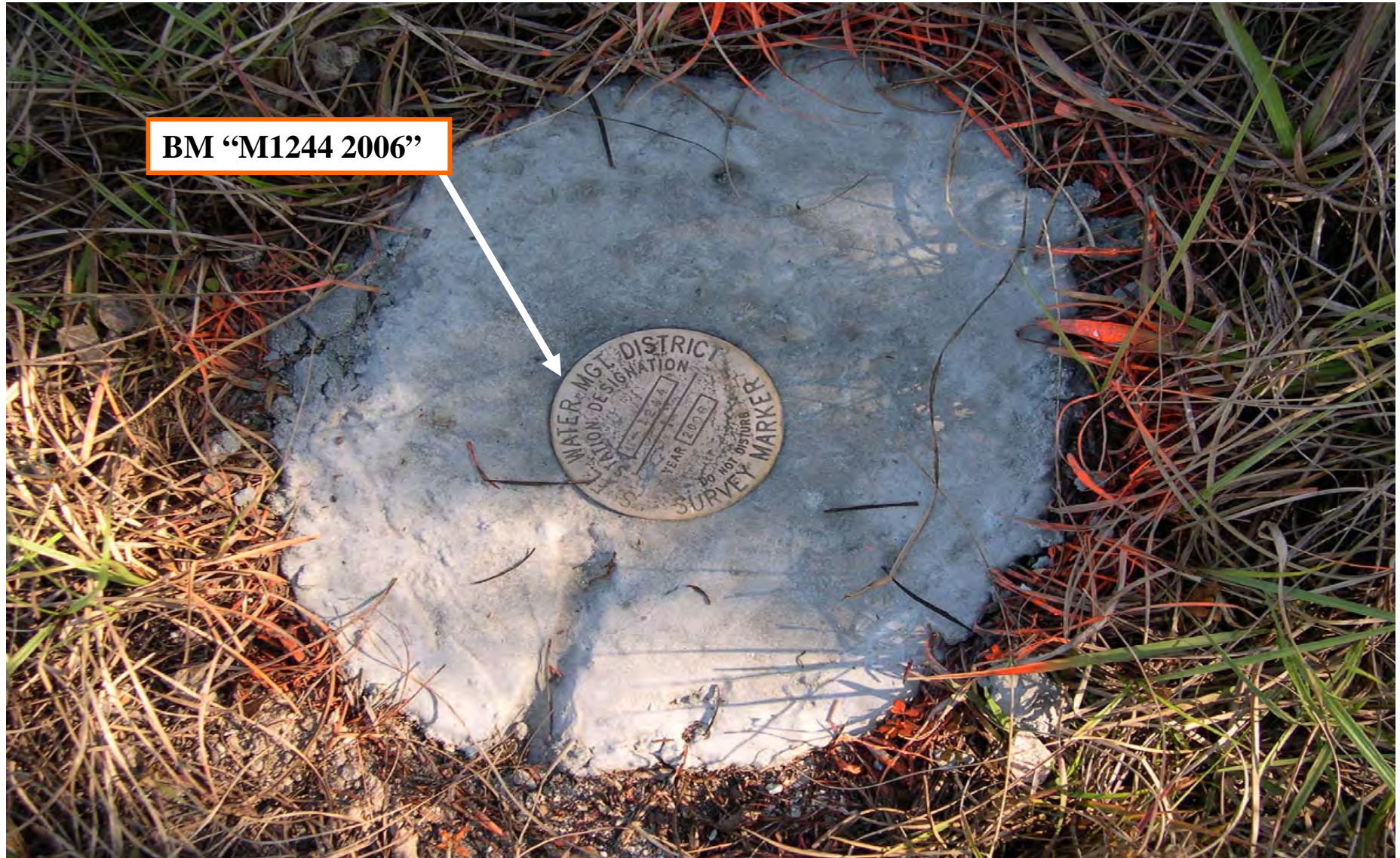
**Top of Pipe Elev. =  
32.31' (NAVD-88)**

**33.69' (NGVD-29)**



**Biscayne Engineering Company, Inc.  
Date of Photo: 01-15-06  
View: Well M-1244**

# M-1244



**Biscayne Engineering Company, Inc.**  
**Date of Photo: 01-15-06**  
**View: BM "M1244 2006"**

# M-1244

BM "M1244 2006"

Elev. = 33.65' (NAVD-88)

Elev. = 35.03' (NGVD-29)



Biscayne Engineering Company, Inc.  
Date of Photo: 01-15-06  
View: Benchmark "M1244 2006"

# M-1244

BM "M1244 2006"

Elev. = 33.65' (NAVD-88)

Elev. = 35.03' (NGVD-29)



Biscayne Engineering Company, Inc.

Date of Photo: 01-15-06

View: Benchmark "M1244 2006"

A. REDERO  
T. LOPEZ  
L. BALLESTEROS

#03-77616  
S.F.W.M.D

" SITE - K "

12/30/05

( ESTABLISH ELEV ON  
WELL M-1252 )

BM

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV
	6.930						23.51
BM	5.565	5.565	29.075				
	4.200			5.780			
TP#1				4.240	4.240	24.835	
				2.700			
	7.040						
SHAKE	5.270	5.270	30.105				
	3.500			6.740			
TP#2				5.140	5.140	24.965	
				3.540			
	6.440						
SHAKE	4.790	4.790	29.755				
	3.140			7.010			
TP#3				5.180	5.180	24.575	
				3.350			
	4.310						
SHAKE	3.450	3.450	28.025				
	2.590			5.395			
TP#4				3.515	3.515	24.51	
				1.635			

DESC  
NGS # AJ 8237 (A522) NAVD 88  
BRASS D. IN CONC. MON.  
STAMPED A 522 2001 CERP

CUT NL

CUT NL

CUT NL

CUT NL

MAG NL & W

MAG NL & W

REBAR

SAME  
CREW

#03-77616  
S.F.W.M.D

12/30/05

"SITE-K"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	ELEV	BM
	10.560						
SHAKE	10.600	10.600	35.110				
	10.340						
TP#5				0.805			
				0.620	0.620	34.490	✓
				0.435			
	4.950						
SHAKE	3.465	3.465	37.955				✓
	1.980						
				14.390			
TP#6				12.470	12.470	25.485	✓
				10.550			
	6.370						
SHAKE	4.120	4.120	29.605				✓
	1.870						
				6.610			
TP#7				4.730	4.730	24.875	✓
				2.850			
	6.340						
SHAKE	5.190	5.190	30.065				✓
	4.040						
				6.030			
TP#8				4.120	4.120	25.945	✓
				2.210			
	7.135						
SHAKE	5.035	5.035	30.980				✓
	2.935						

DESC

REBAR

WOODEN STAKE

WOODEN STAKE

80 D SPIKE

80 D SPIKE

80 D SPIKE

80 D SPIKE

80 D SPIKE



SAME

#03-77616

CREW

S. F. W. M. D

12/30/05

" SITE - K "

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	ELEV	BM	DESC
TP#9				7.330				
				5.385	5.385	25.595	✓	80 D SPIKE
				3.440				
	6.130							
SHAKE	4.315	4.315	29.910				✓	80 D SPIKE
	2.500							
				6.640				
TP#10				4.835	4.835	25.075	✓	80 D SPIKE
				3.030				
	8.080							
SHAKE	6.020	6.020	31.095				✓	80 D SPIKE
	3.960							
				8.660				
TP#11				6.370	6.370	24.725	✓	80 D SPIKE
				4.080				
	6.890							
SHAKE	4.635	4.635	29.360				✓	80 D SPIKE
	2.380							
				6.850				
TP#12				4.515	4.515	24.845	✓	80 D SPIKE
				2.180				
	6.900							
SHAKE	4.335	4.335	29.180				✓	80 D SPIKE
	1.770							
				6.950				
TP#13				5.010	5.010	24.170	✓	80 D SPIKE
				3.070				

A. REDERO  
 T. LOPEZ  
 A. FERNANDEZ  
 1/3/06

#03-77616  
 S.F.W.M.D  
 "SITE-K"

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM
	7.655							
SHAKE	5.525	5.525	29.695	✓				
	3.395							
DISC				8.855				
M-1252				6.365	6.365	23.330	✓	
				2.875				
	7.085							
SHAKE	5.975	5.975	29.305	✓				
	4.865							
WELL				7.320				
M-1252				6.115	6.115	23.190	✓	
				4.910				
	8.915							
SHAKE	6.325	6.325	29.515	✓				
	3.735							
				7.470				
TP#14				5.340	5.340	24.175	✓	
				3.210				
	6.910							
SHAKE	4.970	4.970	29.145	✓				
	3.030							
				6.860				
TP#15				4.300	4.300	24.845	✓	
				1.740				
	7.050							
SHAKE	4.715	4.715	29.560	✓				
	2.380							

DESC

80 D SPIKE

SET S.F.W.M.D DISC STAMPED M-1252 2006

"

"

TOP OF PIPE "PVC" M-1252

"

"

80 D SPIKE

80 D SPIKE

80 D SPIKE

80 D SPIKE

SAME  
CREW

#03-77616  
S.F.W.M.D.

1/3/06

"SITE-K"

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV	DESC
				7.090				
STP#16				4.835	4.835	24.725	✓	80 D SPIKE
				2.580				
	8.620							
SHAKE	6.330	6.330	31.055	✓				80 D SPIKE
	4.040							
				8.030				
STP#17				5.975	5.975	25.08	✓	80 D SPIKE
				3.920				
	6.760							
SHAKE	4.955	4.955	30.035	✓				80 D SPIKE
	3.150							
				6.250				
STP#18				4.440	4.440	25.595	✓	80 D SPIKE
				2.630				
	7.380							
SHAKE	5.440	5.440	31.035	✓				80 D SPIKE
	3.500							
				7.190				
STP#19				5.090	5.090	25.945	✓	80 D SPIKE
				2.990				
	6.010							
SHAKE	4.100	4.100	30.045	✓				80 D SPIKE
	2.190							
				6.320				
STP#20				5.170	5.170	24.875	✓	80 D SPIKE
				4.020				

SAME  
CREW#03 - 77616  
S.F.W. M.D.

1/3/06

"SITE-K"

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM
	6.580							
SHAKE	4.700	4.700	29.575	✓				
	2.820							
				6.345				
TP#21				4.100	4.100	25.475	✓	
				1.855				
	14.030							
SHAKE	12.110	12.110	37.585	✓				
	10.19							
				4.580				
TP#22				3.100	3.100	34.485	✓	
				1.620				
	1.300							
SHAKE	1.115	1.115	35.600	✓				
	0.930							
				11.360				
TP#23				11.100	11.100	24.500	✓	
				10.840				
	5.550							
SHAKE	3.670	3.670	28.170	✓				
	1.790							
				4.460				
TP#24				3.600	3.600	24.570	✓	
				2.740				
	6.070							
SHAKE	4.470	4.470	29.040	✓				
	2.850							

DESC

80 D SPIKE

80 D SPIKE

80 D SPIKE

WOODEN STAKE

WOODEN STAKE

REBAR

REBAR

MAG NL ⚡ W

MAG NL ⚡ W

SAME  
CREW

#03-77616  
S.F.W.M.D

1/3/06

"SITE-K"

(ELEV. CONT)

BM

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV
-----	----	------	----	----	------	------	------

DESC

TP#25				6.110			
				4.220	4.220	24.820	✓
				2.330			

CUT NL

	5.755						
SHAKE	3.835	3.835	28.655	✓			
	1.915						

CUT NL

				5.950			
TP#26				3.870	3.870	24.785	✓
				1.790			

CUT NL

	6.170						
SHAKE	3.835	3.835	28.620	✓			
	1.500						

CUT NL

				5.410			
TP#27				3.590	3.590	25.030	✓
				1.770			

CUT NL

	6.430						
SHAKE	4.520	4.520	29.550	✓			
	2.610						

CUT NL

				8.880			
BM				6.820	6.820	22.730	22.730
				4.760			

ERR = 0.000

NGS # AJ 8238 (B522) NAVD 88  
BRASS D. IN CONC MON.  
STAMPED B522 2001 CERP

SAME  
CREW

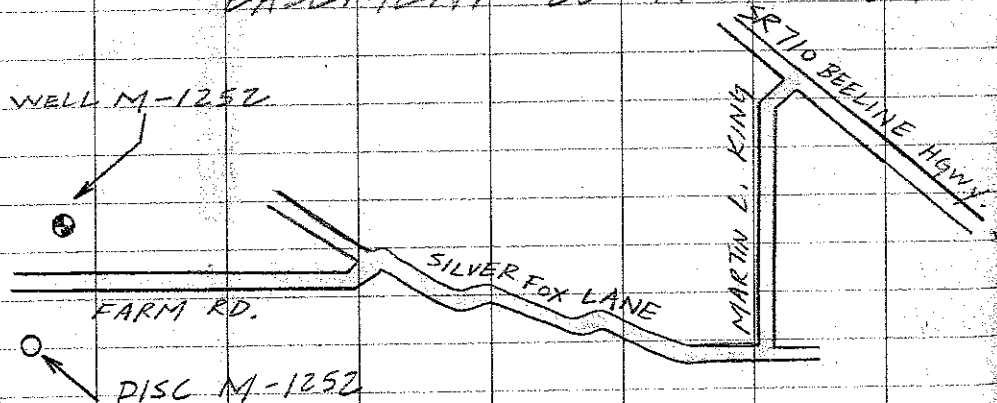
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S.F.W.M.D

1/3/06

( SITE - K  
DESCRIPTION )

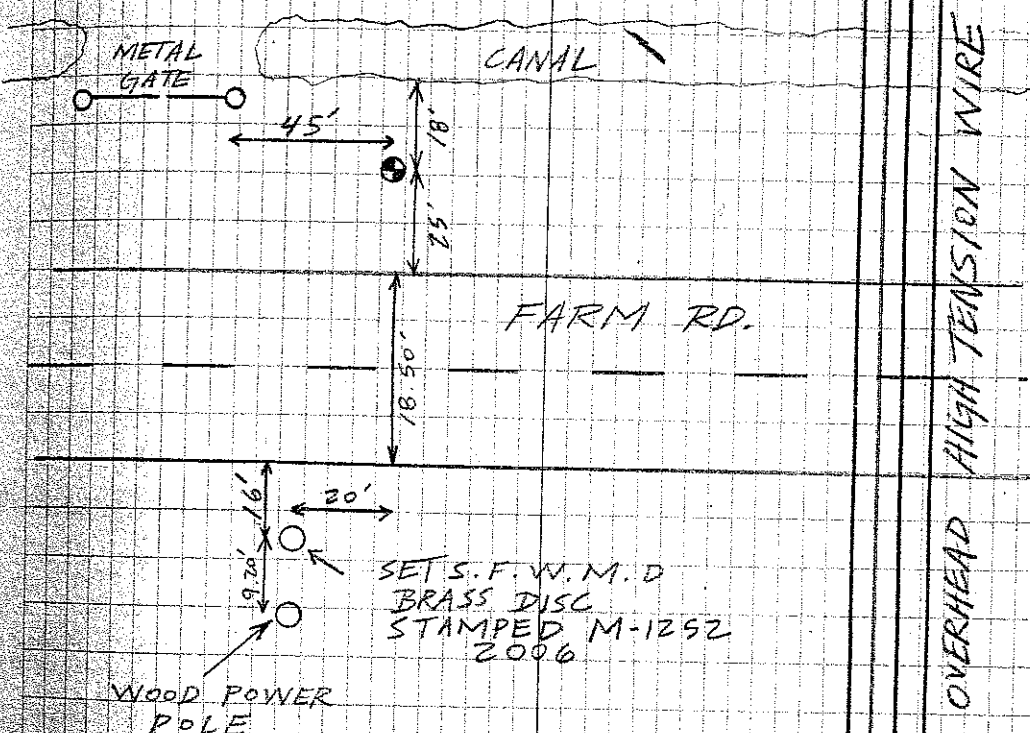
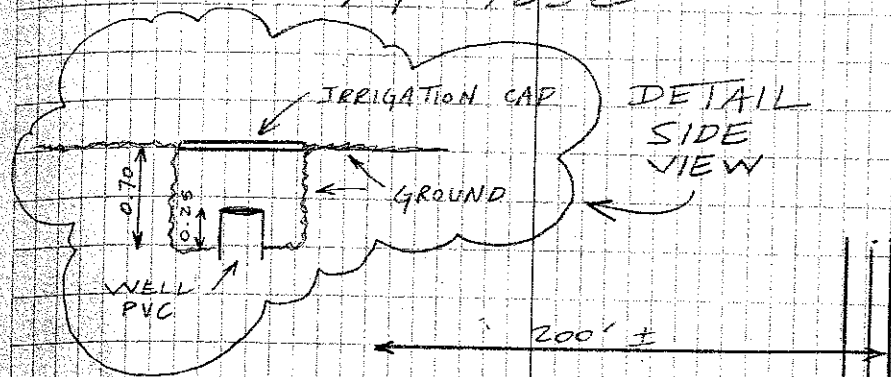
DIRECTIONS - IN INDIANTOWN FROM THE  
INTERSECTION OF MARTIN LUTHER  
KING BLVD AND SR-710 TRAVEL  
SOUTH FOR 0.7 MILES TO  
THE INTERSECTION OF "MLK"  
BLVD AND SILVER FOX LANE.  
TURN RIGHT AND TRAVEL  
WEST FOR 1.7 MILES TO  
THE FORK IN THE ROAD OF  
SILVER FOX AND FARM RD.  
TURN LEFT AND TRAVEL WEST  
ON FARM RD. FOR 2.3 MILES  
TO THE WELL ON YOUR RIGHT  
ON THE NORTHERN ROADSIDE  
EASEMENT 20' FROM N. EOP.

WELL M-1252



2564/08

SKETCH OF WELL SITE  
M-1252



HIGH TENSION WIRE  
OVERHEAD

SAME  
CREW

#03-77616  
S.F.W.M.D

1/3/06

"SITE - L"

(ESTABLISH ELEV.  
ON WELL SITE  
M-1085)

STA	BS	MEAN	HI	FS	MEAN ELEV	ELEV	BM
	6.950						
BM	5.560	5.560	36.640	✓		31.080	✓
	4.170						
				5.050			
TP#1				3.625	3.625	33.015	✓
				2.200			
	6.090						
SHAKE	4.165	4.165	37.180	✓			
	2.240						
				11.160			
TP#2				9.320	9.320	27.860	✓
				7.480			
	5.680						
SHAKE	3.640	3.640	31.500	✓			
	1.600						
				8.350			
TP#3				6.220	6.220	25.280	✓
				4.090			
	6.335						
SHAKE	4.285	4.285	29.565	✓			
	2.235						
				6.040			
TP#4				3.930	3.930	25.635	✓
				1.820			

DESC

NGS # AJ8242 (FS22) NAVD 88  
FLANGE ENCASED ROD  
STAMPED F 522 2001 CERP

CUT NL

CUT NL

60 D SPIKE

60 D SPIKE

60 D SPIKE

60 D SPIKE

60 D SPIKE

SAME  
CREW

#03-77616  
S.F.W.M.D.

1/3/06

"SITE - L"  
(ELEV. CONT)

STA	BS	MEAN HI	FS	MEAN ELEV	BM ELEV	DESC
	6.650					
SHAKE	4.665	4.665	30.300 ✓			60 D SPIKE
	2.680					
			7.820			
TP#5			5.715	5.715	24.585 ✓	60 D SPIKE
			3.610			
	7.010					
SHAKE	5.010	5.010	29.595 ✓			60 D SPIKE
	3.010					
			7.390			
TP#6			5.170	5.170	24.425 ✓	60 D SPIKE
			2.950			
	7.450					
SHAKE	5.590	5.590	30.015 ✓			60 D SPIKE
	3.730					
			6.820			
TP#7			4.740	4.740	25.275 ✓	60 D SPIKE
			2.660			
	6.020					
SHAKE	3.875	3.875	29.150 ✓			60 D SPIKE
	1.730					
			7.510			
TP#8			5.370	5.370	23.780 ✓	60 D SPIKE
			3.230			
	7.830					
SHAKE	6.150	6.150	29.930 ✓			60 D SPIKE
	4.470					



S.A. REDERO

#03-77616

B. SALAZAR

S.F.W.M.D

A. FERNANDEZ

1/14/06

"SITE - L"

(ELEV. CONT)

S STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	DESC
				6.840				
WELL S/M-1085				5.195	5.195	24.735	✓	TOP OF PIPE "STEEL" M-1085
				3.550				
	7.080							
7 SHAKE	5.435	5.435	30.170	✓				" "
	3.790							
				6.680				
DISC S/M-1085				5.035	5.035	25.135	✓	SET S.F.W.M.D DISC STAMPED M-1085 2006
				3.390				
	5.935							
7 SHAKE	4.295	4.295	29.430	✓				" "
	2.655							
				7.330				
STP# 9				5.645	5.645	23.785	✓	60 D SPIKE
				3.960				
	7.010							
7 SHAKE	4.870	4.870	28.655	✓				60 D SPIKE
	2.730							
				5.520				
STP# 10				3.386	3.386	25.275	✓	60 D SPIKE
				1.240				
	6.380							
7 SHAKE	4.300	4.300	29.575	✓				60 D SPIKE
	2.220							
				7.020				
STP# 11				5.160	5.160	24.415	✓	60 D SPIKE
				3.300				

S/S SAME  
 CL CREW  
 1/4/06

#03-77616  
 S.F.W.M.D

"SITE - L"  
 (ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	BM	ELEV	DESC
S/SHAKE	7.060 4.840 2.620	4.840	29.255	✓ 6.670				60 D SPIKE
7/TP#12				4.670 2.670	4.670	24.585	✓	60 D SPIKE
S/SHAKE	7.220 5.120 3.020	5.120	29.705	✓ 6.050				60 D SPIKE
7/TP#13				4.060 2.070	4.060	25.645	✓	60 D SPIKE
S/SHAKE	5.530 3.430 1.330	3.430	29.075	✓ 5.830				60 D SPIKE
7/TP#14				3.790 1.750	3.790	25.285	✓	60 D SPIKE
S/SHAKE	7.720 5.590 3.460	5.590	30.875	✓ 5.550				60 D SPIKE
7/TP#15				3.010 0.470	3.010	27.865	✓	60 D SPIKE
S/SHAKE	11.040 9.685 7.130	9.685	37.550	✓				60 D SPIKE

S/S SAME  
 S/D CREVY  
 1/4/06

#03-77616  
 S.F.W.M.D.  
 "SITE - L"  
 (ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM	DESC
				6.590					
S/ TP#16				4.990	4.990	32.560	✓		CUT NL
				3.390					
T/ SHAKE	4.975 3.425 1.875	3.425	35.985	✓					CUT NL
S/ TP#17				4.910 3.460	3.460	32.525	✓		CUT NL
				2.010					
T/ SHAKE	5.550 4.230 2.910	4.230	36.755	✓					CUT NL
S/ TP#18				5.060 3.690	3.690	33.065	✓		CUT NL
				2.320					
T/ SHAKE	4.450 3.030 1.610	3.030	36.095	✓					CUT NL
S/ TP#19				6.050 4.540	4.540	31.555	✓		CUT NL
				3.030					
T/ SHAKE	5.095 3.875 2.655	3.875	35.430	✓					CUT NL
S/ TP#20				5.740 4.120	4.120	31.310	✓		CUT NL
				2.500					

SAME  
CREW

#03-77616  
S.F.V.M.D

1/4/06

"SITE-L"

(ELEV. CONT)

BM

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	DESC
	5.550							
S SHAKE	4.200 2.850	4.200	35.510	✓				CUT NL
				5.840				
TP#21				4.355 2.870	4.355	31.155	✓	CUT NL
	5.250							
S SHAKE	4.010 2.770	4.010	35.165	✓				CUT NL
				5.555				
TP#22				4.035 2.515	4.035	31.130	✓	CUT NL
	4.550							
S SHAKE	3.940 3.330	3.940	35.070	✓				CUT NL
				6.775				
BM				6.080 5.385	6.080	28.990	29.010	✓

ERR=0.020

NGS # AJ 8241 (ES22) NAVD 88  
BRASS D. IN CONC MON.  
STAMPED ES22 2001 CERP

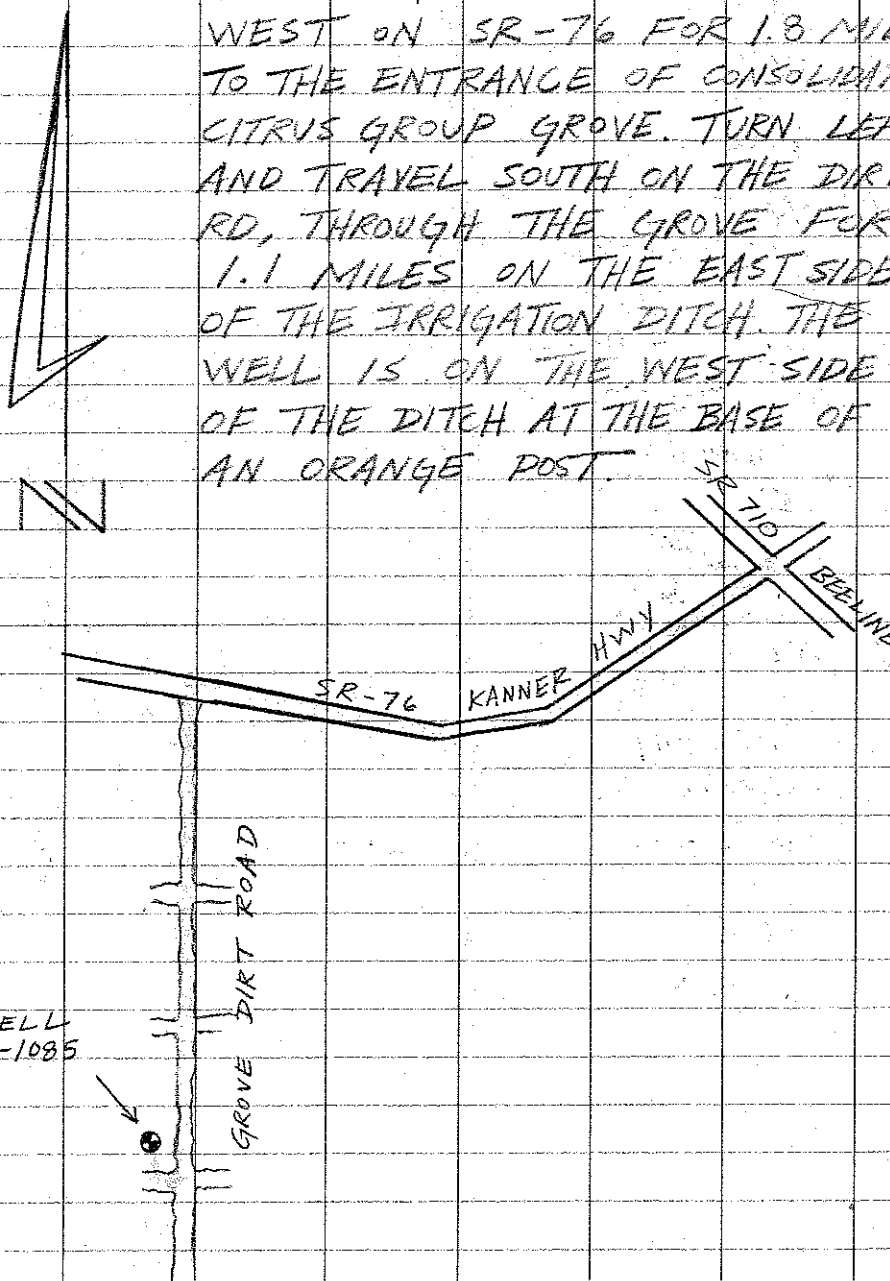
SAME  
CREW

#03-77616  
S.F.W.M.D

1/4/06

(SITE - L  
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF  
SR-710 AND SR-76 TRAVEL  
WEST ON SR-76 FOR 1.8 MILES  
TO THE ENTRANCE OF CONSOLIDATED  
CITRUS GROUP GROVE. TURN LEFT  
AND TRAVEL SOUTH ON THE DIRT  
RD, THROUGH THE GROVE FOR  
1.1 MILES ON THE EAST SIDE  
OF THE IRRIGATION DITCH. THE  
WELL IS ON THE WEST SIDE  
OF THE DITCH AT THE BASE OF  
AN ORANGE POST

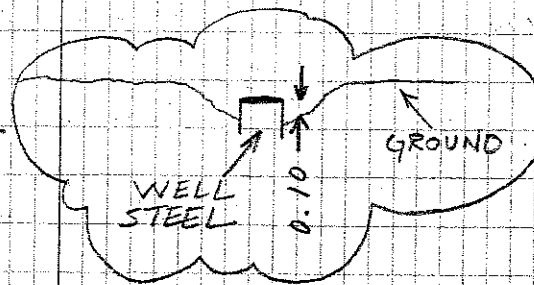


WELL  
M-1085

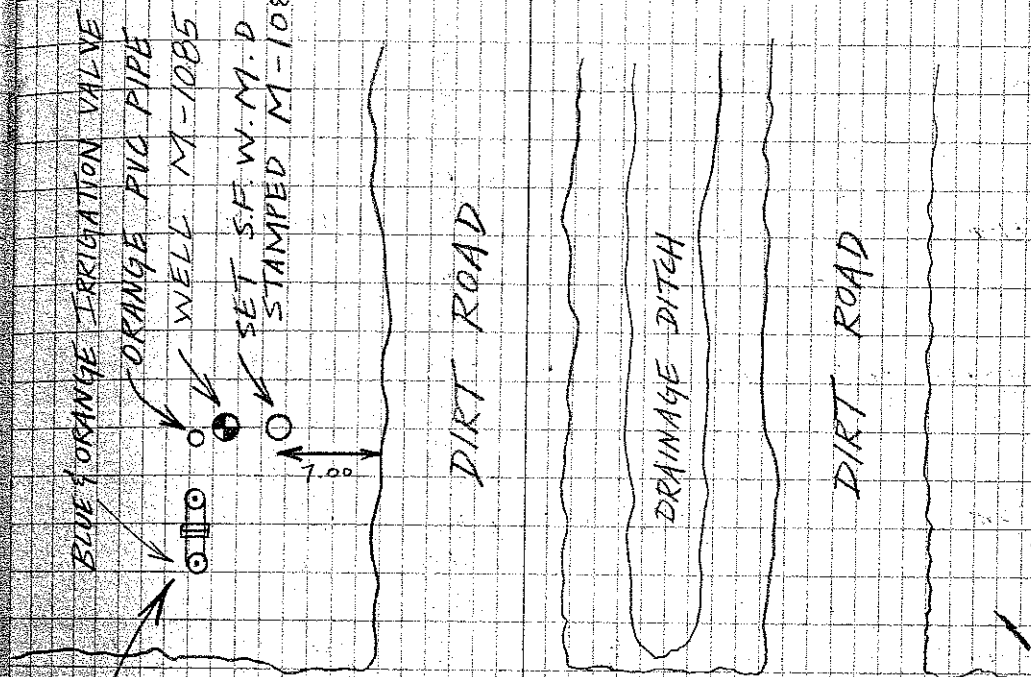
GROVE DIRT ROAD

2564/15  
SKETCH OF WELL SITE M-1085

SIDE  
VIEW  
DETAIL



BLUE ORANGE IRRIGATION VALVE  
ORANGE RIG PIPE  
WELL M-1085  
SET S.F.W.M.D DISC  
STAMPED M-1085 2006

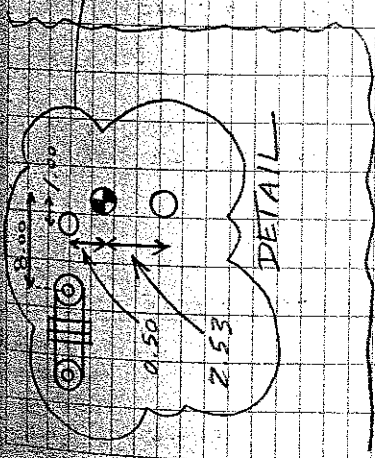


DIRT ROAD

DRAINAGE DITCH

DIRT ROAD

DIRT ROAD



DETAIL

DRAINAGE DITCH

A. REDERO  
T. LOPEZ  
A. SANTANA

#03-77616  
S.F.W.M.D.

"SITE-M"

1/5/06

( ESTABLISH  
ELEV ON WELLS  
M-1244 M-1245 )

BM

STA	BS	MEAN HI	FS	MEAN ELEV	ELEV
	6.820				✓
BM	4.910	4.910	29.78 ✓		29.87
	3.000				
			5.060		
TP#1			2.985	2.985	26.795 ✓
			0.910		
	6.700				
SHAKE	4.400	4.400	31.195 ✓		
	2.100				
			6.830		
TP#2			4.630	4.630	26.565 ✓
			2.430		
	6.880				
SHAKE	4.855	4.855	31.420 ✓		
	2.830				
			6.270		
TP#3			4.325	4.325	27.095 ✓
			2.380		
	6.510				
SHAKE	4.675	4.675	31.770 ✓		
	2.840				
			6.400		
TP#4			4.650	4.650	27.120 ✓
			2.900		
	7.380				
SHAKE	4.600	4.600	31.72 ✓		
	1.820				

DESC

NGS# AJ8247 (M522) NAVD 89  
FLANGE ENCASED ROD  
STAMPED M522 2001 CERP

CUT NL & TT

CUT NL & TT

CUT NL & TT

CUT NL & TT

CUT NL & TT

CUT NL & TT

CUT NL & TT

CUT NL & TT

SAME  
CREW

#03-77616  
S.F.W.M.D

1/5/06

"SITE-M"

(ELEV. CONT)

BM

STA BS MEAN HI FS MEAN ELEV ELEV

DESC

TP#5  
9.240  
7.380  
4.980 4.980 26.740 ✓  
2.580

CUT NL & TT

SHAKE 9.240  
6.610 6.615 33.355 ✓  
3.990  
2.110

CUT NL & TT

TP#6  
1.100 1.100 32.355 ✓  
0.09

80 D SPK

SHAKE 8.680  
8.000 8.000 40.255 ✓  
7.320

80 D SPK

TP#7  
11.780  
9.950 9.950 30.305 ✓  
8.120

CUT NL & TT

SHAKE 7.140  
5.040 5.040 35.345 ✓  
2.940

CUT NL & TT

TP#8  
4.300  
2.280 2.280 33.065 ✓  
0.260

CUT NL & TT

SHAKE 7.580  
5.875 5.875 38.940 ✓  
4.170

CUT NL & TT

TP#9  
6.670  
5.090 5.090 33.850 ✓  
3.510

CUT NL & TT

SAME  
CREW#03-77616  
S.F.W.M.D.

1/5/06

"SITE-M"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV	DESC
	6.850							
SHAKE	5.305	5.305	39.155	✓				CUT NL & TT
	3.760							
TRM#1				5.150				
				4.970	4.970	34.185	✓	SET MAG NL & W IN FRONT OF WELL
				4.790				M-1244 IN ASPH.
	4.940							
SHAKE	4.760	4.760	38.945	✓				"
	4.580							
TRM#2				4.885				
				4.720	4.720	34.225	✓	SET MAG NL & W IN FRONT OF WELL
				4.555				M-1245 IN ASPH.
	5.700							
SHAKE	5.185	5.185	39.410	✓				"
	4.670							
TP#10				6.760				
				5.570	5.570	33.840	✓	CUT NL & TT
				4.380				
	6.340							
SHAKE	4.770	4.770	38.610	✓				CUT NL & TT
	3.700							
TP#11				7.250				
				5.555	5.555	33.055	✓	CUT NL & TT
				3.860				
	4.210							
SHAKE	2.190	2.190	35.245	✓				CUT NL & TT
	0.170							



SAME  
CREW

#03-77616  
S.F.W.M.D.

1/5/06

" SITE - M "

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM	DESC
TP#12				7.040 4.955 2.870	4.955	30.29	✓		CUT NL & TI
SHAKE	10.670 8.770 6.870	8.770	39.060	✓					CUT NL & TI
TP#13				7.425 6.815 6.205	6.815	32.245	✓		80 D SPIKE
SHAKE	2.250 1.230 0.210	1.230	33.475	✓					80 D SPIKE
TP#14				8.410 6.490 4.570	6.490	26.985	✓		CUT NL
SHAKE	5.960 4.535 3.110	4.535	31.520	✓					CUT NL
TP#15				5.750 4.320 2.890	4.320	27.200	✓		CUT NL
SHAKE	5.420 4.615 3.810	4.615	31.815	✓					CUT NL
BM				6.860 5.830 4.800	5.830	25.985	25.960	✓	

ERR = 0.025

NGS # AJ 8246 (L522) NAVD 88  
BRASS I IN CONC MON  
STAMPED L522 2001 CERP

SAME  
CREW

#03-77616  
S.F.W.M.D

1/5/06

"SITE - M"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV.	BM ELEV
	4.320					
TBM#1	4.065 3.810	4.065	38.250	↓		34.185
WELL M-1244				6.300 5.940 5.580	5.940	32.310
SHAKE	5.920 5.555 5.190	5.555	37.865	↓		
WELL M-1245				4.820 4.485 4.150	4.485	33.385
SHAKE	5.280 4.950 4.620	4.950	38.330	↓		
DISC M-1244				4.980 4.675 4.370	4.675	33.655
SHAKE	4.560 4.255 3.950	4.255	37.910	↓		
TBM#2				3.905 3.685 3.465	3.685	34.225
						34.225
						ERR = 0.000

DESC

MAG NL § W

TOP OF PIPE WELL M-1244 "PVC"

"

TOP OF PIPE WELL M-1245 "PVC"

"

SET S.F.W.M.D DISC STAMPED M-1244 2006

"

MAG NL § W

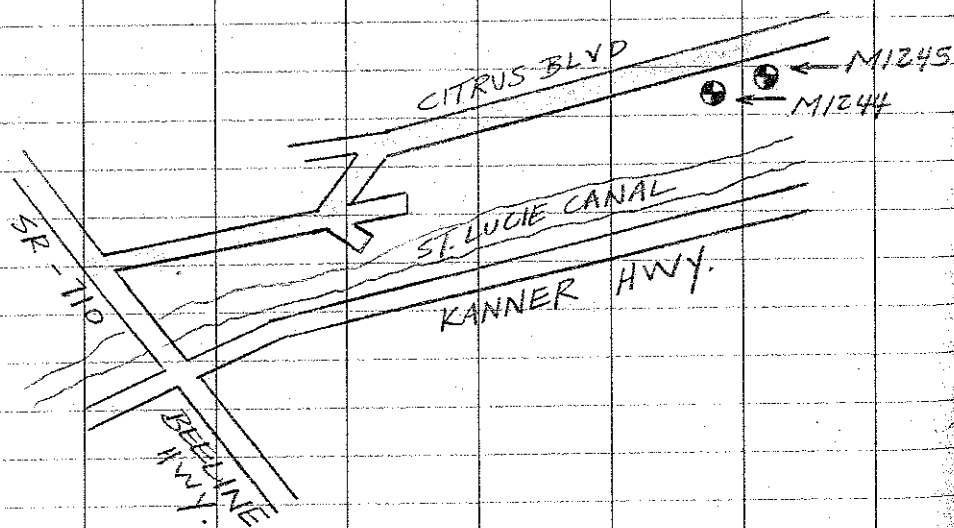
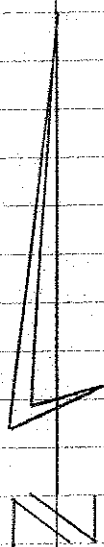
SAME  
CREW

#03-77616  
S.F.W.M.D.

1/5/06

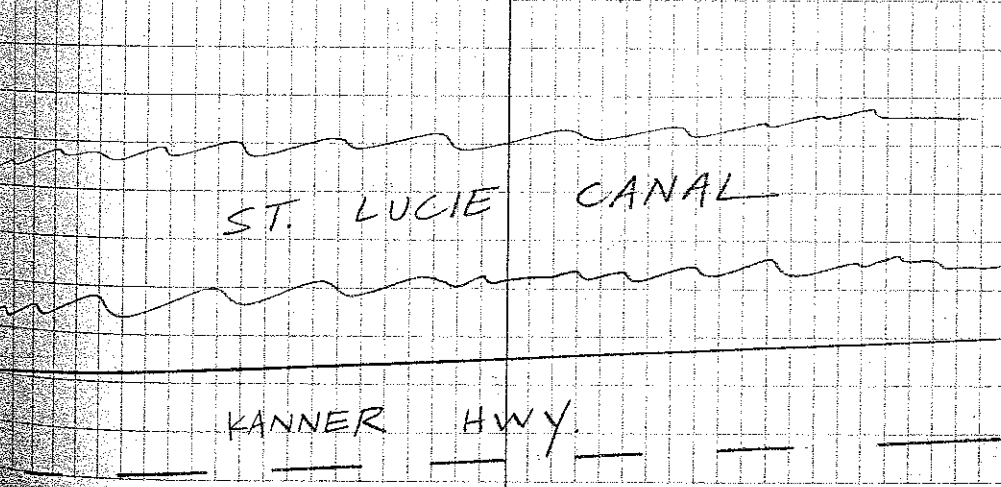
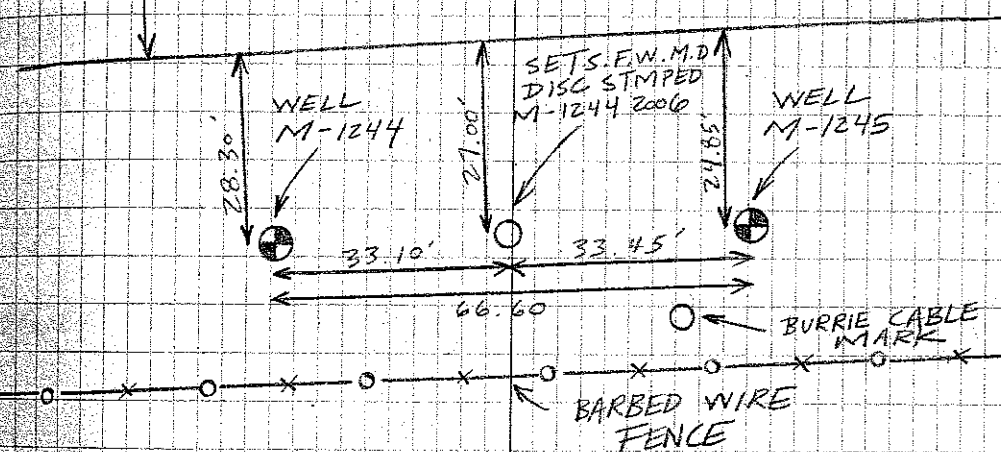
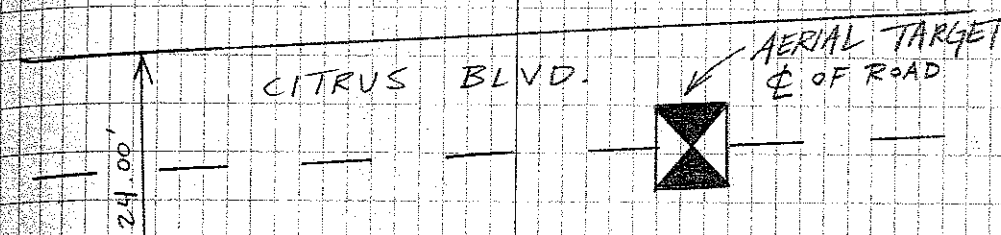
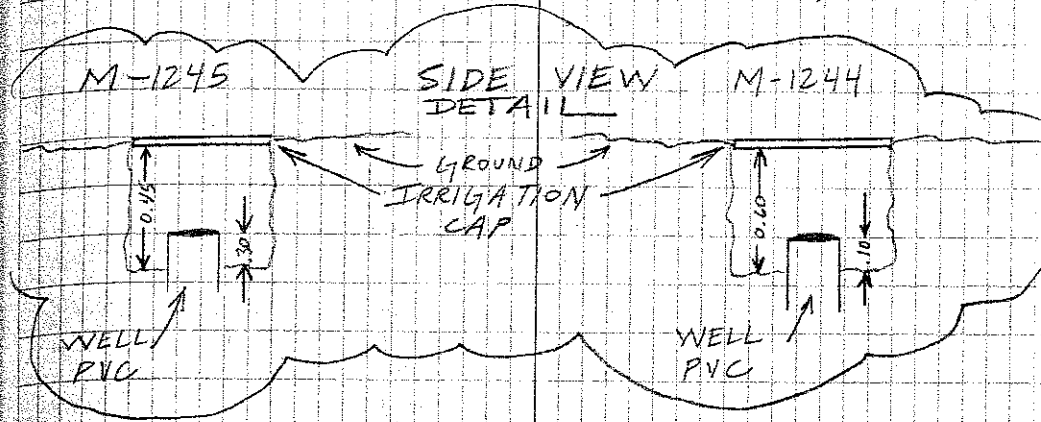
(SITE-M  
DESCRIPTION)

DIRECTIONS - BY INDIANTOWN FROM THE  
INTERSECTION OF SR-710  
AND CITRUS BLVD. SR-726  
TRAVEL EAST ON CITRUS  
BLVD FOR 4 MILES. THE  
WELLS ARE ON THE RIGHT SIDE  
THE SOUTHERN ROADSIDE  
EASEMENT ALONG FENCE  
LINE ABOUT 0.3 MILES EAST  
OF DRAINAGE CANAL BRIDGE.



2564/21

SKETCH OF WELL SITE M-1244, M-1245



SAME  
CREW

#03-77616  
S.F.W.M.D.

1/5/06

"SITE-N"

(ESTABLISH ELEV  
ON WELL SITE  
M-1236, M-1273)

STA	BS	MEAN	HJ	FS	MEAN ELEV.	BM ELEV	DESC
	6.810						
BM	5.425	5.425	29.305	✓		23.88	NGS# AJ5250 (GCY DOB) NAVD 88 BRASS D. IN CONC. MON. STAMPED GCY DOB 2001
	4.040						
TP#1				7.450			
				5.480	5.480	23.825	✓ CUT NL
				3.510			
SHAKE	6.630						
	4.620	4.620	28.445	✓			CUT NL
	2.610						
TP#2				6.940			
				4.850	4.850	23.595	✓ CUT NL
				2.760			
SHAKE	7.200						
	5.000	5.000	28.595	✓			CUT NL
	2.800						
TP#3				8.640			
				6.550	6.550	22.045	✓ CUT NL
				4.460			
SHAKE	7.310						
	5.350	5.350	27.395	✓			CUT NL
	3.390						
TP#4				4.980			
				3.280	3.280	24.115	✓ CUT NL
				1.580			
SHAKE	7.720						
	5.580	5.580	29.695	✓			CUT NL
	3.440						

SAME  
CREW

#03-77616  
S.F.W.M.D

1/5/06

"SITE - N"

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV.	ELEV.	DESC
				7.020				
TP#5				4.965	4.965	24.730	✓	CUT NL
				2.910				
	6.590							
SHAKE	4.995	4.995	29.725	✓				CUT NL
	3.400							
				6.750				
TP#6				4.920	4.920	24.805	✓	CUT NL
				3.090				
	6.530							
SHAKE	4.920	4.920	29.725	✓				CUT NL
	3.310							
				6.930				
TBM#1				5.080	5.080	24.645	✓	MAG NL & TT
				3.230				
	6.575							
SHAKE	4.725	4.725	29.370	✓				MAG NL & TT
	2.875							
				6.320				
TBM#2				4.810	4.810	24.560	✓	MAG NL & TT
				3.300				
	6.750							
SHAKE	5.240	5.240	29.800	✓				MAG NL & TT
	3.730							
				6.610				
TP#7				5.000	5.000	24.800	✓	CUT NL
				3.390				

SAME  
CREW#03-77616  
S.F.W.M.D.

1/5/06

"SITE-N"

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV	DESC
	6.680							
SHAKE	4.845	4.845	29.645	✓				CUT NL
	3.010							
				6.510				
TP#8				4.920	4.920	24.725	✓	CUT NL
				3.330				
	6.420							
SHAKE	4.810	4.810	29.535	✓				CUT NL
	3.200							
				8.020				
TP#9				5.430	5.430	24.105	✓	CUT NL
				2.840				
	4.840							
SHAKE	2.920	2.920	27.025	✓				CUT NL
	1.000							
				6.710				
TP#10				4.970	4.970	22.055	✓	CUT NL
				3.230				
	8.410							
SHAKE	6.430	6.430	28.485	✓				CUT NL
	4.450							
				7.200				
TP#11				4.880	4.880	23.605	✓	CUT NL
				2.560				
	6.375							
SHAKE	4.415	4.415	28.020	✓				CUT NL
	2.455							

SAME  
CREW

#03-77616  
S.F.W.M.D.

1/5/06

" SITE - N "

( ELEV. CONT )

STA	BS	MEAN	HI	FS	MEAN	ELEV.	BM ELEV	DESC
				6.330				
TP#12				4.190	4.190	23.830	✓	CUT NL
				2.050				
	6.970							
SHAKE	5.330	5.330	29.160	✓				CUT NL
	3.690							
				6.890				
TP#13				5.080	5.080	24.080	✓	CUT NL
				3.270				
	7.150							
SHAKE	5.290	5.290	29.370	✓				CUT NL
	3.430							
				6.650				
TP#14				4.530	4.530	24.840	✓	CUT NL
				2.410				
	7.180							
SHAKE	4.760	4.760	29.600	✓				CUT NL
	2.340							
				6.880				
TP#15				4.605	4.605	24.995	✓	CUT NL
				2.330				
	6.190							
SHAKE	4.100	4.100	29.095	✓				CUT NL
	2.010							

SAME  
CREW

#03-77616  
S.F.W.M.D

1/5/06

"SITE - N"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	EM ELEV	DESC
TP#16				6.560 4.570 2.590	4.570	24.525	CUT NL
SHAKE	6.255 4.535 2.815	4.535	29.060				CUT NL
BM				7.175 6.565 5.955	6.565	22.495	NGS # AJ 5627 (X 516) NAVD 88 BRASS D. IN CONC. MON. STAMPED X 516 2001

ERR = 0.015



SAME  
CREW

#03-77616  
S.F.W.M.D

1/5/06

"SITE-N"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV.	ELEV.	DESC.
	5.500							
TBM#1	5.385	5.385	30.030	✓			24.645	MAG NL S/W
	5.270							
WELL M-1236				6.930				
				6.625	6.625	23.405	✓	TOP OF PIPE M-1236 "PVC"
				6.320				
SHAKE	7.360			✓				" "
	7.075	7.075	30.480					
	6.790							
WELL M-1273				7.290				
				7.000	7.000	23.480	✓	TOP OF PIPE M-1273 "PVC"
				6.710				
SHAKE	7.550			✓				" "
	7.260	7.260	30.740					
	6.970							
DISC M-1236				7.510			✓	
				7.230	7.230	23.510	✓	SET S.F.W.M.D DISC STAMPED M-1236 2006
				6.950				
SHAKE	6.960			✓				" "
	6.670	6.670	30.180					
	6.380							
TBM#2				5.965			✓	
				5.615	5.615	24.565	✓	MAG NL S/W
				5.265			✓	
							ERR = 0.305	

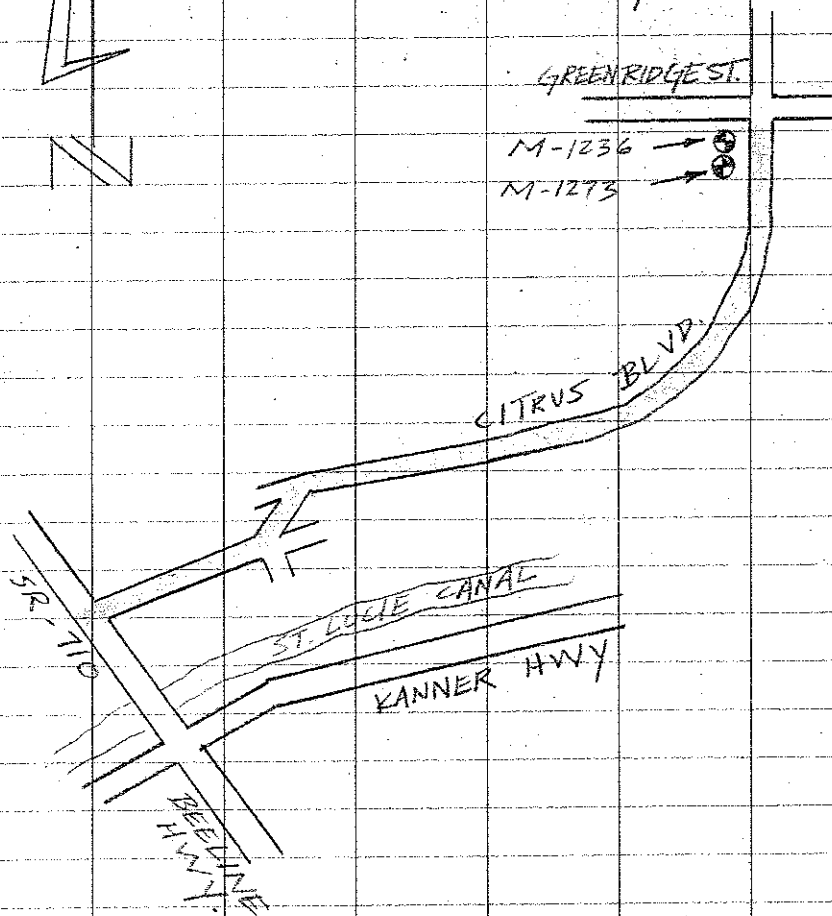
SAME  
CREW

1/5/06

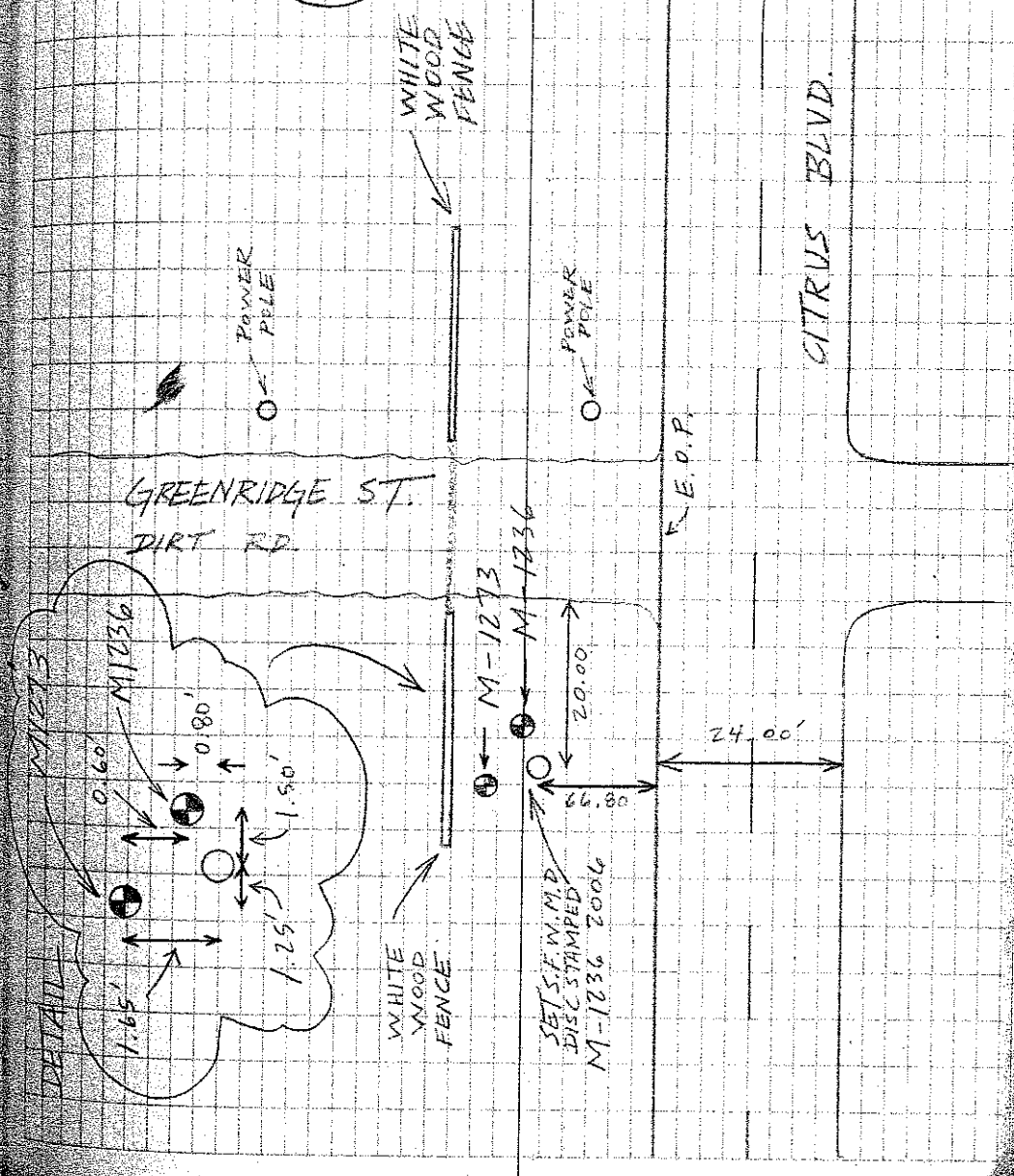
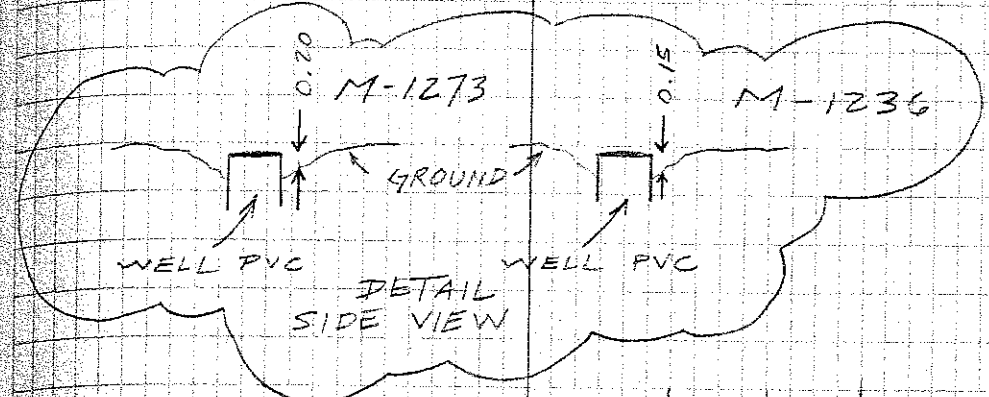
#03-77616  
S.F.W.M.D.

(SITE-N  
DESCRIPTION)

DIRECTIONS - BY INDIANTOWN FROM THE  
INTERSECTION SR-710 AND  
CITRUS BLVD. SR-726 TRAVEL  
EAST AND THEN NORTH ON  
CITRUS BLVD. FOR 9.9 MILES  
TO GREENRIDGE ST. THE WELLS  
ARE ON THE LEFT IN THE  
SOUTHWEST CORNER OF THE  
INTERSECTION ALONG WHITE FENCE.



2564 / 28  
SKETCH OF WELL SITE M-1273, M1236



A. REDERO  
T. LOPEZ  
P. NAYLOR

#03-77616  
S.F.W.M.D

"SITE - 0"

1/11/06

(ESTABLISH  
ELEV. ON WELL  
M-1274)

STA	ZS	MEAN	HI	FS	MEAN ELEV	ELEV	BM
	8.640						
BM	7.180	7.180	28.480	✓		21.30	
	5.720						
				10.050			
DISC				7.910	7.910	20.570	✓
M-1274				5.770			
	9.420						
SHAKE	7.580	7.580	28.150	✓			
	5.740						
				8.420			
WELL				7.110	7.110	21.040	✓
M-1274				5.800			
	8.260						
SHAKE	7.025	7.025	28.065	✓			
	5.790						
				2.890			
TP#1				1.680	1.680	26.385	✓
				0.470			
	12.590						
SHAKE	11.725	11.725	38.110	✓			
	10.860						
				1.285			
TP#2				0.755	0.755	37.355	✓
				0.225			

DESC  
NGS # AJ5629 (2516) N  
BRASS D. IN CONC. MON.  
STAMPED 2516 2001

SET S.F.W.M.D DISC STAMPED M-1274 2006

TOP OF PIPE WELL M-1274 (PVC)

CUT NL

CUT NL

CUT NL

SAME  
CREW

#03-77616  
S.F.V.M.D

1/11/06

"SITE - 0"

(ELEV. CONT.)

STA	BS	MEAN HI	FS	MEAN ELEV	ELEV	BM
	12.480					
SHAKE	11.710	11.710	49.065	✓		
	10.940					
TP#3			2.790			
			2.180	2.180	46.885	✓
			1.570			
	7.120					
SHAKE	6.860	6.860	53.745	✓		
	6.600					
			1.910			
BM			1.570	1.570	52.175	52.19 ✓
			1.230			

ERR = 0.015V

IESC

CUT NL

CUT NL

CUT NL

NGS # AC5386 (I-95 H 16) NAVD 88  
BRASS D. STAMPED BM I-95 H 16  
FOOT IN CONC GUARDRAIL OF  
BRIDGE

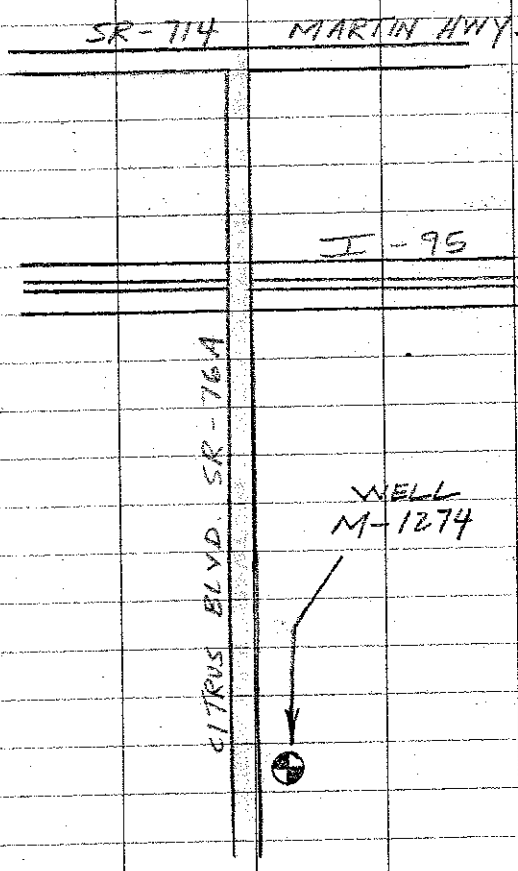
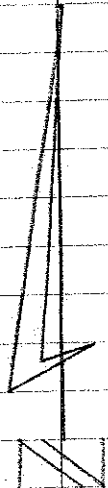
SAME  
CREW

#03-77616  
S.F.W.M.D

1/11/06

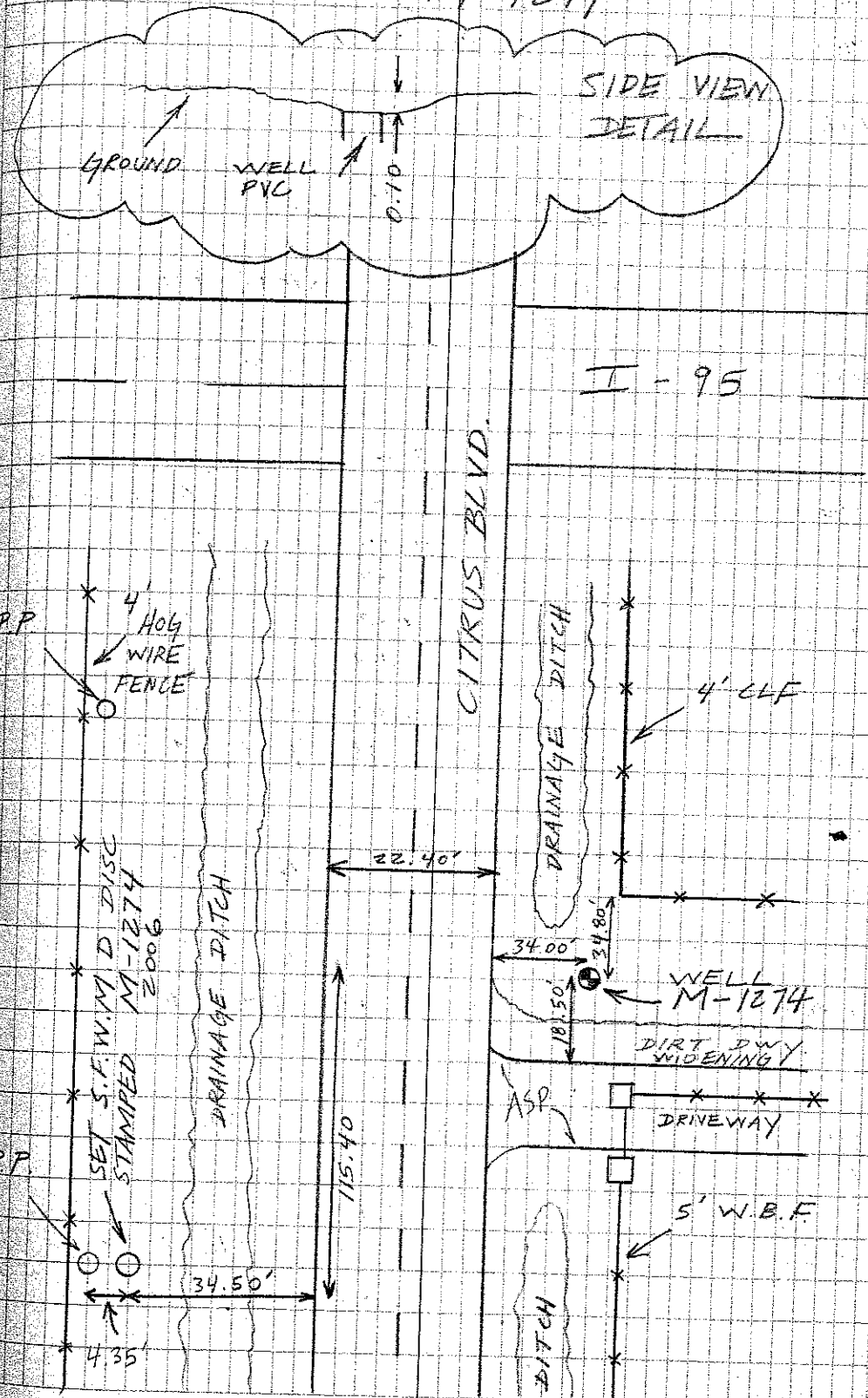
(SITE - 0  
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF  
SR-714 MARTIN HWY AND  
SR-76A CITRUS BLVD. TRAVEL SOUTH  
ON CITRUS BLVD. FOR 2.6 MILES  
TO THE WELL (JUST PASS  
THE I-95 OVERPASS) ON THE  
LEFT SIDE OF THE  
RD. NEXT TO THE DRIVEWAY  
FOR HOUSE # 6807.



2564 / 31

SKETCH OF WELL SITE M-1274



SAME  
CREW

#03-77616  
S.F.W.M.D

1/11/06

"SITE - P"

( ESTABLISH  
ELEV. ON WELL  
M-1037 )

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM
	8.920							
BM	7.980	7.980	36.550	✓			28.57	✓
	7.040							
TP#1				7.150				
				5.750	5.750	30.800		✓
				4.350				
	6.480							
SHAKE	4.920	4.920	35.720	✓				
	3.360							
				6.630				
TP#2				4.930	4.930	30.790		✓
				3.230				
	6.520							
SHAKE	4.170	4.170	34.960	✓				
	1.820							
				6.500				
TP#3				4.435	4.435	30.525		✓
				2.370				
	7.240							
SHAKE	5.080	5.080	35.605	✓				
	2.920							
				7.770				
TP#4				5.170	5.170	30.435		✓
				2.570				
	7.380							
SHAKE	4.970	4.970	35.405	✓				
	2.560							

DESC

NGS # AJ 8518 (P543) NAVD 88  
FLANGE ENCASED ROD  
STAMPED P543 2001 CERP

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL



SAME  
CREW.

#03-77616  
S.F.W.M.D

1/11/06

"SITE - P"  
(ELEV. CONT)

STA	BS	MEAN HI	FS	MEAN ELEV	ELEV.	DESC
			8.910			
DISC M-1037			7.370	7.370	29.540 ✓	SET S.F.W.M.D DISC STAMPED M-1037 2006
	6.440		5.830			
SHAKE	5.285	5.285				"
	4.130					
WELL M-1037			6.030			
			4.640	4.640	29.185 ✓	TOP OF PIPE WELL M-1037 "PVC"
			3.250			
SHAKE	7.320	5.525				"
	3.730	5.525			34.710 ✓	"
TP#9			6.230			
			4.420	4.420	30.290 ✓	CUT NL
			2.610			
SHAKE	6.540	4.74				
	2.940	4.74			35.030 ✓	CUT NL
TP#10			6.690			
			4.635	4.635	30.395 ✓	CUT NL
			2.580			
SHAKE	6.610	4.560				
	2.510	4.560			34.955 ✓	CUT NL
TP#11			6.630			
			4.600	4.600	30.355 ✓	CUT NL
			2.570			



SAME  
CREW

#03-77616  
S.F.W.M.D

1/11/06

" SITE - P "

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	BM ELEV	DESC
	6.555						
SHAKE	4.475 2.395	4.475	34.830	✓			CUT NL
				6.730			
TP#12				4.380 2.030	4.380	30.450	✓ CUT NL
	6.890						
SHAKE	4.780 2.670	4.780	35.230	✓			CUT NL
				7.200			
TP#13				4.785 2.370	4.785	30.445	✓ CUT NL
	7.655						
SHAKE	5.045 2.435	5.045	35.490	✓			CUT NL
				7.100			
TP#14				4.950 2.800	4.950	30.540	✓ CUT NL
	6.385						
SHAKE	4.315 2.245	4.315	34.855	✓			CUT NL
				6.400			
TP#15				4.050 1.700	4.050	30.805	✓ CUT NL
	6.690						
SHAKE	4.980 3.210	4.980	35.785	✓			CUT NL

A. REDERO  
T. LOPEZ  
A. FERNANDEZ

#03-77616  
S.F.W.M.D.

"SITE - P"

1/12/06

(ELEV. CONT)

BM

STA	BS	MEAN	HI	FS	MEAN ELEV	ELEV	DESC
				6.530			
TP#16				4.970	4.970	30.815	✓ CUT NL
				3.410			
	7.160						
SHAKE	5.770	5.770	36.585				✓ CUT NL
	4.380						
				5.810			
TP#17				3.780	3.780	32.805	✓ CUT NL
				1.750			
	8.260						
SHAKE	6.480	6.480	39.285				✓ CUT NL
	4.700						
				4.665			
TP#18				3.125	3.125	36.16	✓ CUT NL
				1.585			
	6.985						
SHAKE	5.245	5.245	41.405				✓ CUT NL
	3.505						
				8.710			
TP#19				7.070	7.070	34.335	✓ CUT NL
				5.430			
	16.440						
SHAKE	15.460	15.460	49.795				✓ CUT NL
	14.480						

SAME  
CREW

#03-77616  
S.F.W.M.D

"SITE-P"

1/12/06

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM
				3.520				
TA#20				2.400	2.400	47.395	✓	
				1.280				
	15.960							
SHAKE	14.770	14.770	62.165	✓				
	13.580							
				4.565			✓	
BM				2.355	2.355	59.810	59.780	✓
				0.145				
								ERR=0.030 ✓

DESC  
CUT NL

CUT NL

I95 85 A06 RM1

NGS # AF715B. (A06) NAVD 88  
FDOT BRASS D. IN CONC GUARDRAIL  
STAMPED I-95 85 A06 RM 1

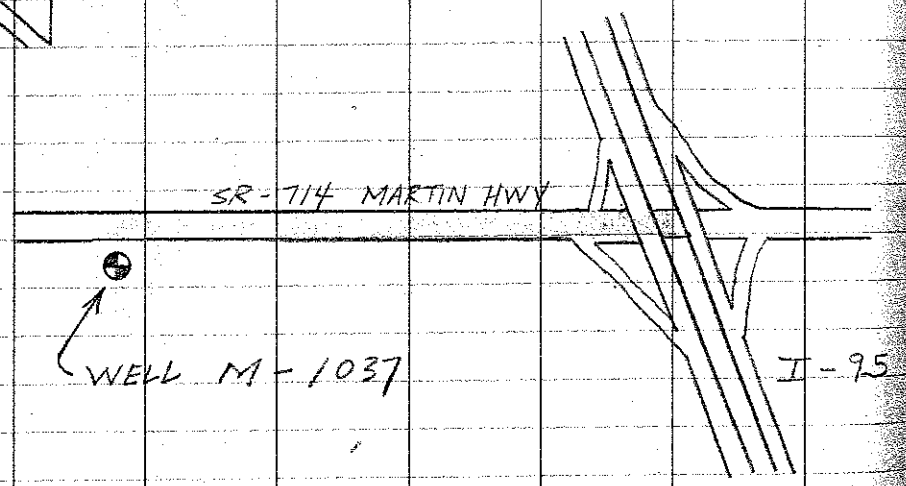
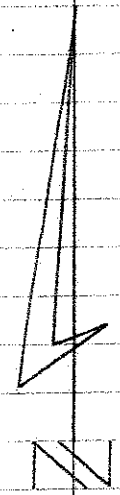
SAME  
CREW

#03-77616  
S.F.W.M.D

(SITE - P  
DESCRIPTION)

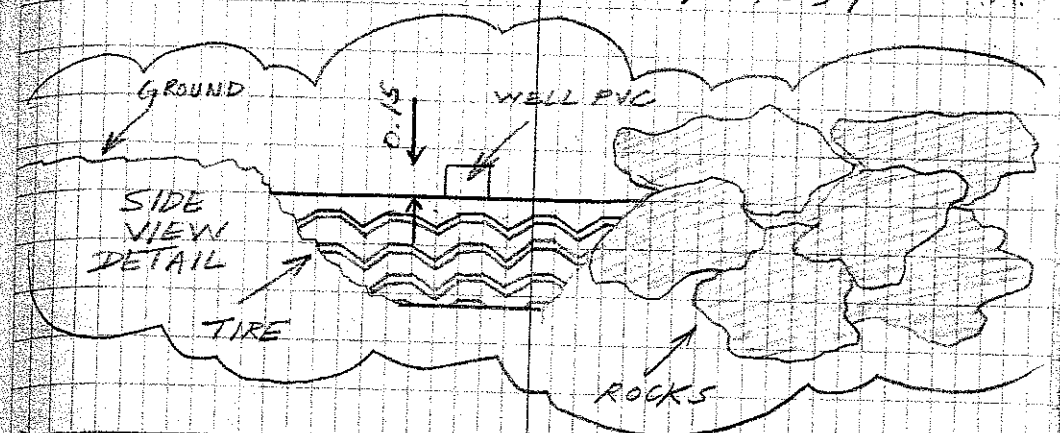
1/10/06

DIRECTIONS - FROM THE INTERSECTION OF  
I-95 AND SR-714 MARTIN  
HWY. TRAVEL WEST ON  
SR-714 FOR 1.7 MILES.  
TO THE WELL ON THE  
LEFT SIDE OF THE RD.  
NEXT TO THE DRIVEWAY  
FOR HOUSE # 12100.

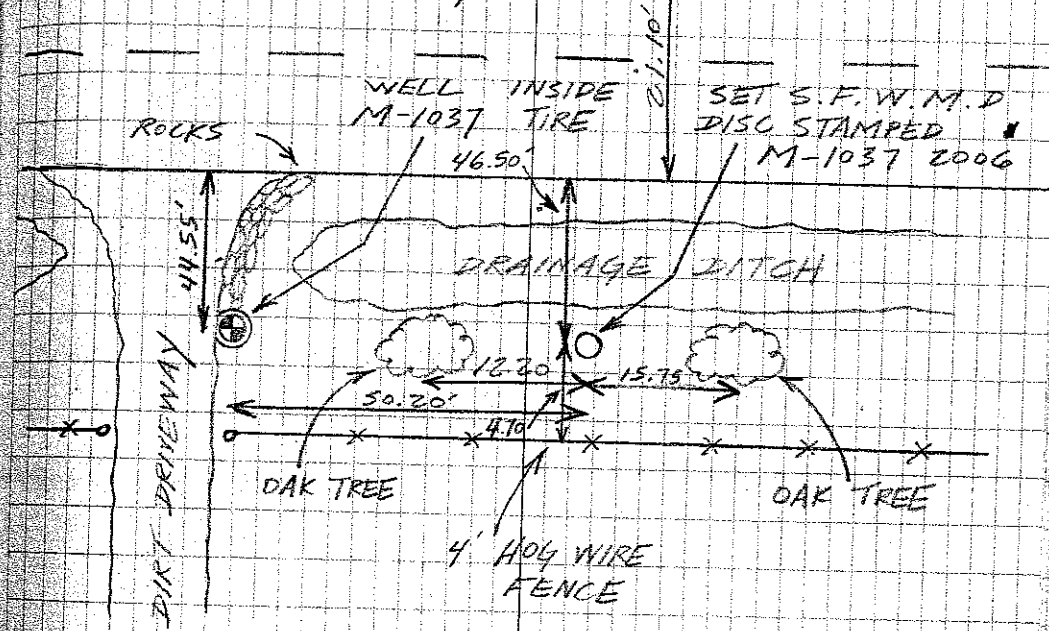


2564/38

SKETCH FOR WELL SITE M-1037



MARTIN HWY



SAME #03-77616  
CREW S.F.W.M.D

1/12/06 " SITE - Q "

(ESTABLISH  
ELEV ON  
WELL M-1248)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV
	3.560						BM
BM	3.060	3.060	46.440	✓			43.38
	2.560						
TP#1							
					17.600		
					17.010	17.010	29.430 ✓
					16.420		
	6.700						
SHAKE	5.315	5.315	34.745	✓			
	3.930						
TP#2							
					6.700		
					5.240	5.240	29.505 ✓
					3.780		
	6.500						
SHAKE	4.975	4.975	34.480	✓			
	3.450						
TP#3							
					6.890		
					5.310	5.31	29.170 ✓
					3.730		
	7.200						
SHAKE	5.160	5.160	34.930	✓			
	4.320						
TP#4							
					6.640		
					5.120	5.120	29.810 ✓
					3.600		
	6.210						
SHAKE	4.575	4.575	34.385	✓			
	2.940						

I 95 85 ALL  
NGS# AF7173 (ALL) NAVD 88  
FDOT BRASS D. IN CONC MON.  
STAMPED I 95 85 ALL

CUT NL

CUT NL

60 D SPIKE

60 D SPIKE

60 D SPIKE

60 D SPIKE

60 D SPIKE

60 D SPIKE

SAME  
CREW

#03-77616  
S.F.W.M.D.

1/12/06

" SITE - Q "

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM
TP# 5				6.580				
				4.970	4.970	29.415		✓
				3.360				
	6.500							
SHAKE	5.685	5.685	35.100					✓
	4.870							
				5.640				
DISC				4.930	4.930	30.170		✓
M-1248				4.220				
	5.980							
SHAKE	5.270	5.270	35.440					✓
	4.560							
				5.890				
WELL				5.185	5.185	30.255		✓
M-1248				4.480				
	5.590							
SHAKE	4.880	4.880	35.135					✓
	4.170							
				6.540				
TP# 6				5.720	5.720	29.415		✓
				4.900				
	6.530							
SHAKE	4.920	4.920	34.335					✓
	3.310							
				6.160				
TP# 7				4.525	4.525	29.810		✓
				2.890				

DESC

60 D SPIKE

60 D SPIKE

SET S.F.W.M.D DISC STAMPED M-1248 2006

"

"

TOP OF PIPE WELL M-1248 (PVC)

"

"

60 D SPIKE

60 D SPIKE

60 D SPIKE

SAME #03-77616  
 CREW S.F.W.M.D

1/12/06 " SITE - Q "  
 (ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	ELEV	BM	DESC
	6.655							
SHAKE	5.130	5.130	34.940	✓				60 D SPIKE
	3.605							
TP#8				7.210				
				5.770	5.770	29.170	✓	60 D SPIKE
				4.330				
	6.920							
SHAKE	5.340	5.340	34.510	✓				60 D SPIKE
	3.760							
TP#9				6.510				
				4.990	4.990	29.520	✓	60 D SPIKE
				3.470				
	6.780							
SHAKE	5.320	5.320	34.840	✓				60 D SPIKE
	3.860							
TP#10				6.770				
				5.390	5.390	29.450	✓	60 D SPIKE
				4.010				
	18.060							
SHAKE	17.465	17.465	46.915	✓				60 D SPIKE
	16.870							
SBM				0.750				
				0.420	0.420	46.495	46.495	✓
				0.090				✓
								ERR = 0.025

I 95 BS A11 RMI  
 NGS # AF 7174 (A11 RMI) NAVD 88  
 FDOT BRASS D. IN CONC. GUARDRAIL  
 STAMPED I 95 85 A11 RM No. 1

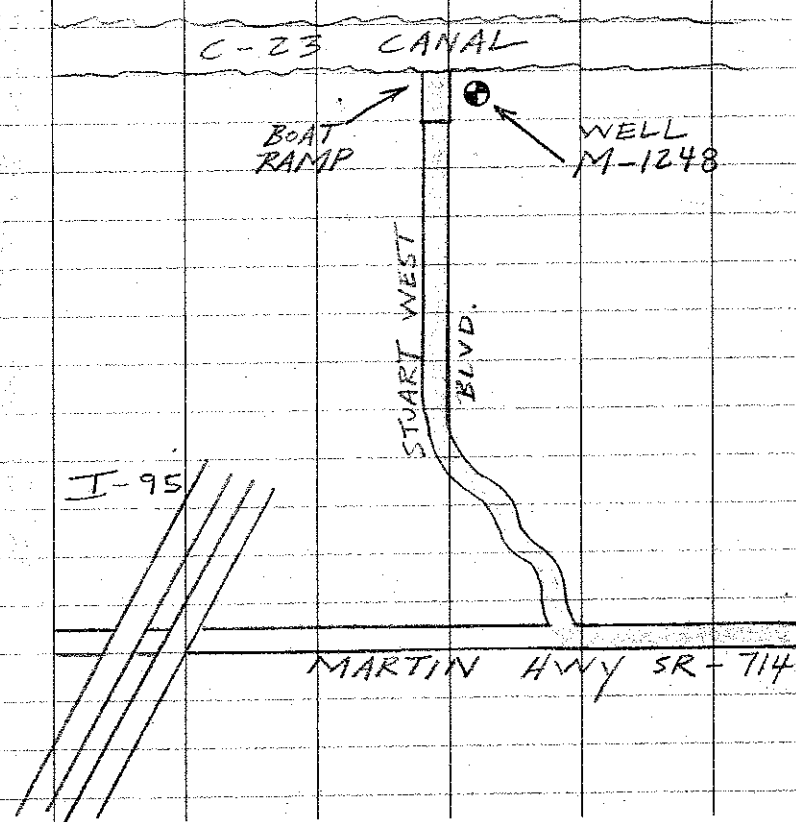
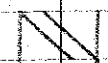
SAME  
CREW

#03-77616  
S.F.W.M.D

1/12/06

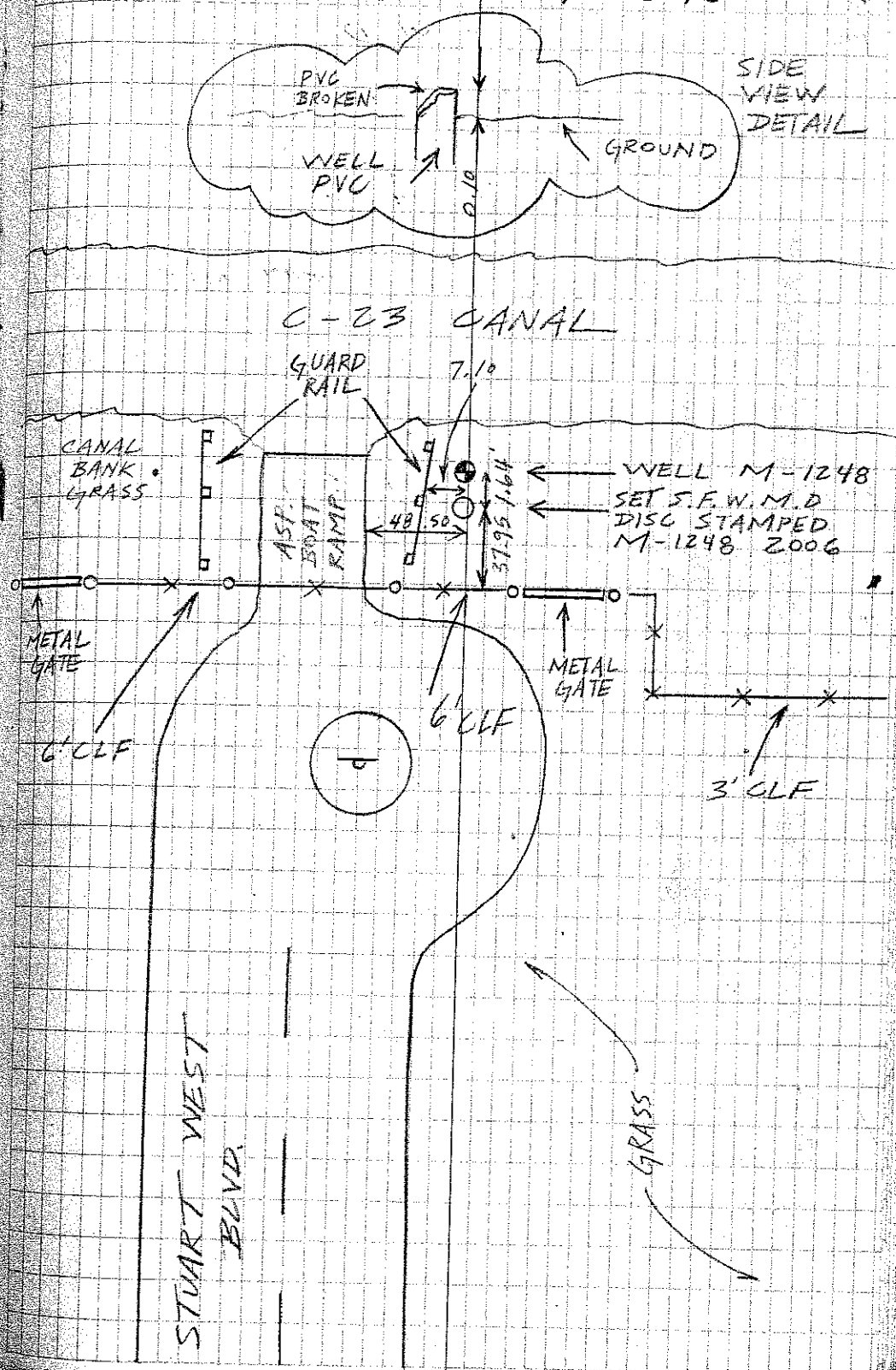
(SITE - Q  
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF  
SR-714 MARTIN HWY AND  
SR-76A CITRUS BLVD TRAVEL  
WEST ON MARTIN HWY FOR  
3.9 MILES TO THE ENTRANCE  
OF COBBLESTONE. CHECK IN AT  
SECURITY GATE AND FOLLOW  
THE ROAD NORTH FOR 3.3 MILES  
TO THE BOAT RAMP. THE WELL  
IS EAST OF THE BOAT RAMP ON  
THE OTHER SIDE OF THE FENCE.



SKETCH OF WELL SITE

2564 / 42  
M-1248





A. REDERO  
T. LOPEZ  
A. FERNANDEZ

#03-77616  
S.F.W.M.D

"SITE - R"

1/13/06

( ESTABLISH  
ELEV ON WELL  
M-1267 )

BM

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV
	4.490						
BM	3.985	3.985	9.625	✓			5.670 ✓
	3.480						
TP#1				7.210			
				5.170	5.170	4.455	✓
				3.130			
	6.850						
SHAKE	5.125	5.125	9.580	✓			
	3.400						
TP#2				7.830			
				5.940	5.940	3.640	✓
				4.060			
	6.550						
SHAKE	4.615	4.615	8.255	✓			
	2.680						
TP#3				6.060			
				4.350	4.350	3.905	✓
				2.640			
	7.225						
SHAKE	5.475	5.475	9.380	✓			
	3.725						
TP#4				9.110			
				7.090	7.090	2.290	✓
				5.070			
	8.410						
SHAKE	6.920	6.92	9.210	✓			
	5.430						

DESC  
NGS # A55614 (SLR 300) NAVD88  
BRASS I. IN CONC OF FISHING PIER  
STAMPED SLR 300 JAX 1992

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

SAME  
CREW

#03-17616  
S.F.V.M.D

1/13/06

"SITE - R"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV
TP# 5				7.350 5.380 3.410	5.380	3.830	✓
SHAKE	4.090 2.220 0.350	2.220	6.050	✓			
TP# 6				4.860 2.870 0.880	2.870	3.180	✓
SHAKE	7.910 6.030 4.250	6.080	9.260	✓			
TP# 7				7.460 5.785 4.110	5.785	3.475	✓
SHAKE	7.000 5.435 3.870	5.435	8.910	✓			
TBM# 1				7.450 5.925 4.400	5.925	2.985	✓
SHAKE	7.740 6.560 5.380	6.560	9.545	✓			
TBM# 2				7.905 6.575 5.245	6.575	2.970	✓

DESC  
CUT NL  
CUT NL  
CUT NL  
CUT NL  
CUT NL  
MAG NL & TI  
MAG NL & TI  
MAG NL & TI

SAME  
CREW

#03-77616  
S.F.W.M.D

1/13/06

"SITE-R"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV.	BM ELEV.
SHAKE	7.500 5.825 4.150	5.825	8.795	✓			
TP#8				6.890 5.320 3.750	5.320	3.475	✓
SHAKE	7.380 5.705 4.030	5.705	9.180	✓			
TP#9				7.830 6.000 4.170	6.000	3.180	✓
SHAKE	4.950 2.960 0.970	2.960	6.140	✓			
TP#10				4.180 2.310 0.440	2.310	3.930	✓
SHAKE	7.180 5.210 3.240	5.210	9.040	✓			
TP#11				8.230 6.745 5.260	6.745	2.295	✓
SHAKE	9.060 7.045 5.030	7.045	9.340	✓			

DESC  
MAG NL  $\frac{1}{2}$  TI

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

SAME  
CREW

#03-17616  
S.F.W.M.D

1/13/06

"SITE-R"

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV.	BM ELEV	DESC
TP#12				7.170 5.425 3.680	5.425	3.915	✓	CUT NL
SHAKE	6.015 4.305 2.595	4.305	8.220	✓				CUT NL
TP#13				6.500 4.570 2.640	4.570	3.650	✓	CUT NL
SHAKE	7.760 5.870 3.980	5.870	9.520	✓				CUT NL
TP#14				6.770 5.050 3.330	5.050	4.470	✓	CUT NL
SHAKE	7.680 5.615 3.550	5.615	10.085	✓				CUT NL
TP#15				4.910 4.430 3.950	4.430	5.655	✓	BRASS D.
SHAKE	6.500 5.070 3.640	5.070	10.735	✓				BRASS D.
BM				7.690 5.230 2.770	5.230	5.495	5.480 ✓	✓

NGS # AF 7129 (SLR 39) NAVD 83  
 BRASS D. IN CONC OF FISHING PIER  
 STAMPED SLR 39 1992 JAX FL

SAME  
CREW

#03-77616  
S.F.W.M.D.

1/13/06

"SITE-R"

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	DESC
	5.850							
TBM#1	5.690	5.690	8.675				2.985	MAG NL & TT
	5.550							
WELL				4.550				
M-1267				4.270	4.270	4.405		TOP OF PIPE WELL M-1267 (PVC)
				3.990				
	4.590							
SHAKE	4.245	4.245	8.65					" "
	3.900							
				5.645				
DISC				5.065	5.065	3.535		SET S.F.W.M.D DISC STAMPED M-1267 2006
M-1267				4.485				
	5.840							
SHAKE	5.260	5.260	8.845					" "
	4.630							
				6.140				
TBM#2				5.870	5.870	2.975	2.97	MAG NL & TT
				5.600				
						ERROR	0.005	

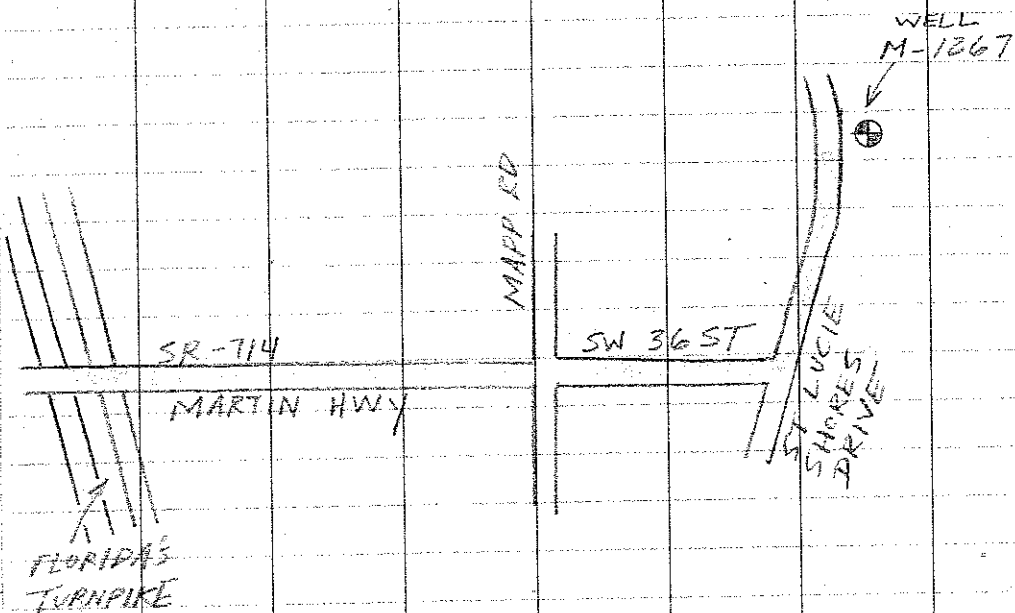
SAME  
CREW

1/13/06

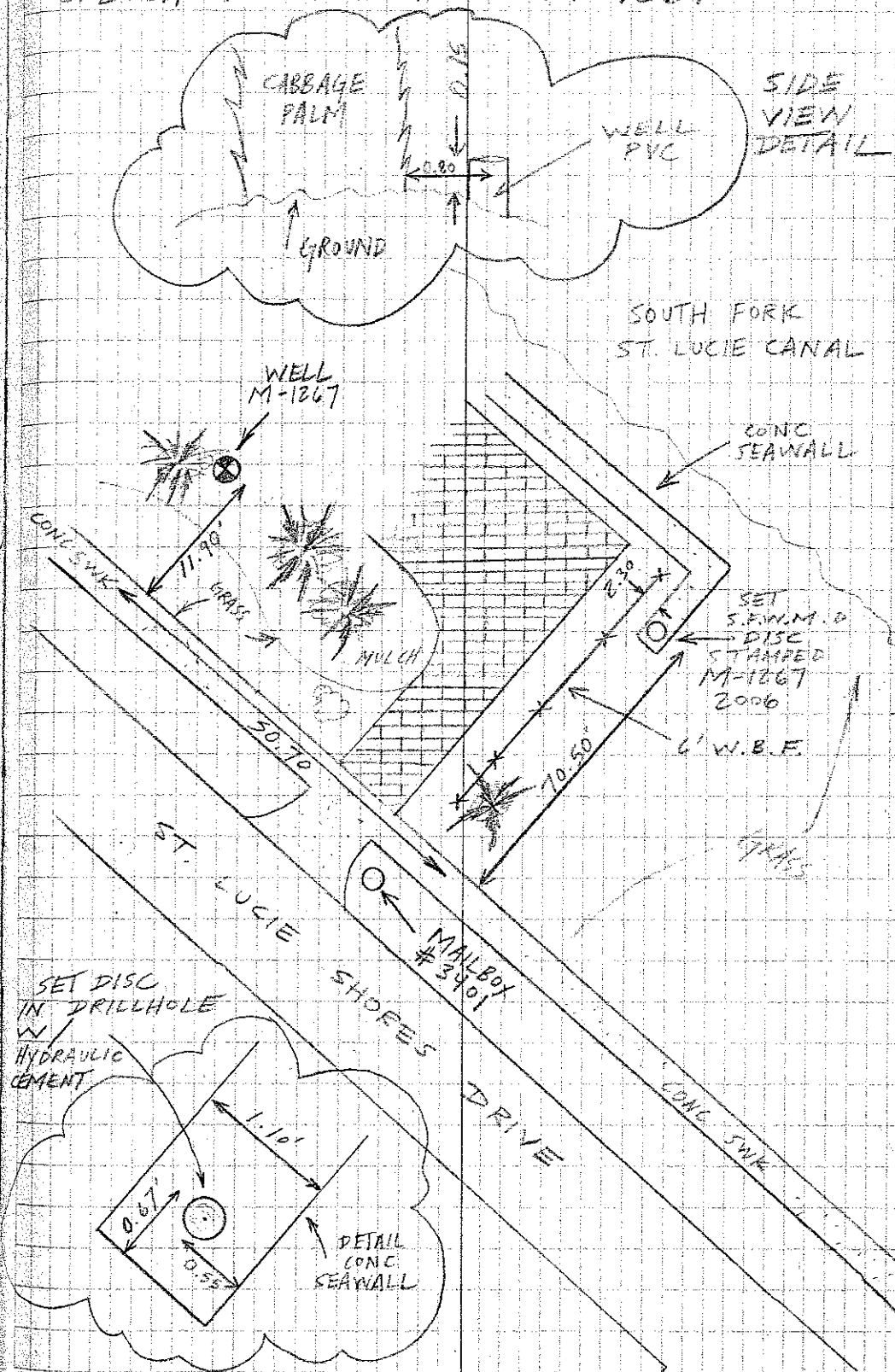
#03-17616  
S.F.W.M.D.

( SITE - R  
DESCRIPTION )

DIRECTIONS - FROM THE INTERSECTION OF  
FLORIDA'S TURNPIKE AND SR-714  
MARTIN HWY TRAVEL EAST  
ON MARTIN HWY FOR 2.1 MILES  
UNTIL MARTIN HWY ENDS AND  
BECOMES SW 36 ST. CONTINUE  
TRAVELING EAST FOR ANOTHER  
0.6 MILES TO THE INTERSECTION  
OF SW 36 ST AND ST LUCIE  
DRIVE. TURN LEFT AND TRAVEL  
FOR 0.1 MILES ON ST LUCIE  
SHORES DRIVE AS THE STREET  
CURVES TOWARD THE NORTH  
TO THE WELL ON YOUR RIGHT  
IN FRONT OF HOUSE # 3401.



2564 / 48  
SKETCH OF WELL SITE M-1267



A. REDERO  
T. LOPEZ  
A. LOPEZ

#03-77616  
S.F.W.M.D.

"SITE - 5"

1/17/06

(ESTABLISH  
ELEV. ON WELL  
M-1043)

STA	BS	MEAN	HI	FS	MEAN	ELEV	B.M. ELEV	DESC
	13.170						✓	NGS # AJ5264 (GCY DZZ) NAYD 88
BM	11.865	11.865	26.715	✓			14.85	BRASS D. IN CONC MON.
	10.560							STAMPED GCY DZZ 2001
TP#1				1.220				
				0.780	0.780	25.935	✓	CUT NL
				0.340				
	11.350							
SHAKE	10.410	10.410	36.345	✓				CUT NL
	9.470							
				7.150				
TP#2				6.0350	6.035	30.310	✓	CUT NL
				4.920				
	11.480							
SHAKE	10.640	10.640	40.950	✓				CUT NL
	9.800							
				11.920				
TP#3				10.730	10.730	30.220	✓	CUT NL
				9.540				
	1.460							
SHAKE	0.860	0.860	31.080	✓				CUT NL
	0.260							
				9.380				
TP#4				8.320	8.320	22.760	✓	CUT NL
				7.260				
	3.300							
SHAKE	2.580	2.580	25.340	✓				CUT NL
	1.860							

SAME  
CREW

#03-77616  
S.F.W.M.D.

1/17/06

" SITE - S "

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM	DESC
TBM#1				3.860 2.865 1.870	2.865	22.475	✓		MAG NL & TT
SHAKE	4.180 3.195 2.210	3.195	25.670	✓					MAG NL & TT
TBM#2				4.120 3.120 2.120	3.120	22.550	✓		MAG NL & TT
SHAKE	3.780 2.770 1.760	2.770	25.320	✓					MAG NL & TT
TP#5				3.270 2.560 1.950	2.560	22.760	✓		CUT NL
SHAKE	9.300 8.240 7.180	8.240	31.000	✓					CUT NL
TP#6				1.380 0.780 0.180	0.780	30.220	✓		CUT NL
SHAKE	12.400 11.220 10.040	11.220	41.440	✓					CUT NL
TP#7				11.960 11.130 10.300	11.130	30.310	✓		CUT NL



A. REDERO  
T. LOPEZ  
A. LOPEZ

#03 - 77616  
S.F.W.M.D.

1/18/06

"SITE - S"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV	DESC
	7.290							
SHAKE	6.175 5.060	6.175	36.485	✓				CUT NL
TP# 8				11.490 10.550 9.610	10.550	25.935	✓	CUT NL
SHAKE	1.760 1.320 0.880	1.320	27.255	✓				CUT NL
TP# 9				13.450 12.155 10.860	12.155	15.100	✓	CUT NL
SHAKE	3.670 2.155 0.640	2.155	17.255	✓				CUT NL
TP# 10				8.540 6.495 4.450	6.495	10.760	✓	CUT NL
SHAKE	11.530 9.985 8.440	9.985	20.745	✓				CUT NL
TP# 11				2.760 1.760 0.760	1.760	18.985	✓	CUT NL
SHAKE	10.850 9.100 7.250	9.100	28.085	✓				CUT NL

SAME  
CREW

#03-77616  
S.F.W.M.D

1/18/06

"SITE - S"

(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM
				8.590				
TP#12				7.370	7.370	20.715	✓	
				6.150				
	5.460							
SHAKE	4.620	4.620	25.335	✓				
	3.780							
				9.545			✓	
BM				8.645	8.645	16.690	16.680	✓
				7.745				

ERR = 0.010

DESC

CUT NL

CUT NL

NGS # 4J5265 (GCY D23) NAVD 88  
BRASS D. IN CONC MON.  
STAMPED GCY D23 2001

SAME  
CREW

#03-77616  
S.F.W.M.D.

1/18/06

"SITE - 5"  
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	BM ELEV	DESC
	5.620						
TRM#1	5.405	5.405	27.980	✓		22.475	MAG NL & TT
	5.190						
WELL M-1043				1.930			
				1.630	1.630	26.250	✓
				1.430			TOP OF PIPE WELL M-1043 (PVC)
	2.430						
SHAKE	2.360	2.350	28.600	✓			" "
	2.270						
DISC M-1043				6.490			
				6.420	6.420	22.180	✓
				6.350			SET S.F.W.M.D DISC STAMPED M-1043 2006
	7.140						
SHAKE	8.945	8.945	31.125	✓			" "
	8.750						
TRM#2				8.825			
				8.575	8.575	22.550	22.550
				8.325			ERR = 0.000
							MAG NL & TT

SKETCH OF WELL SITE M-1043

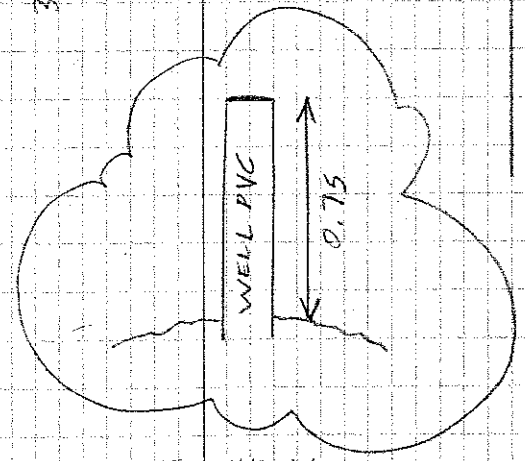
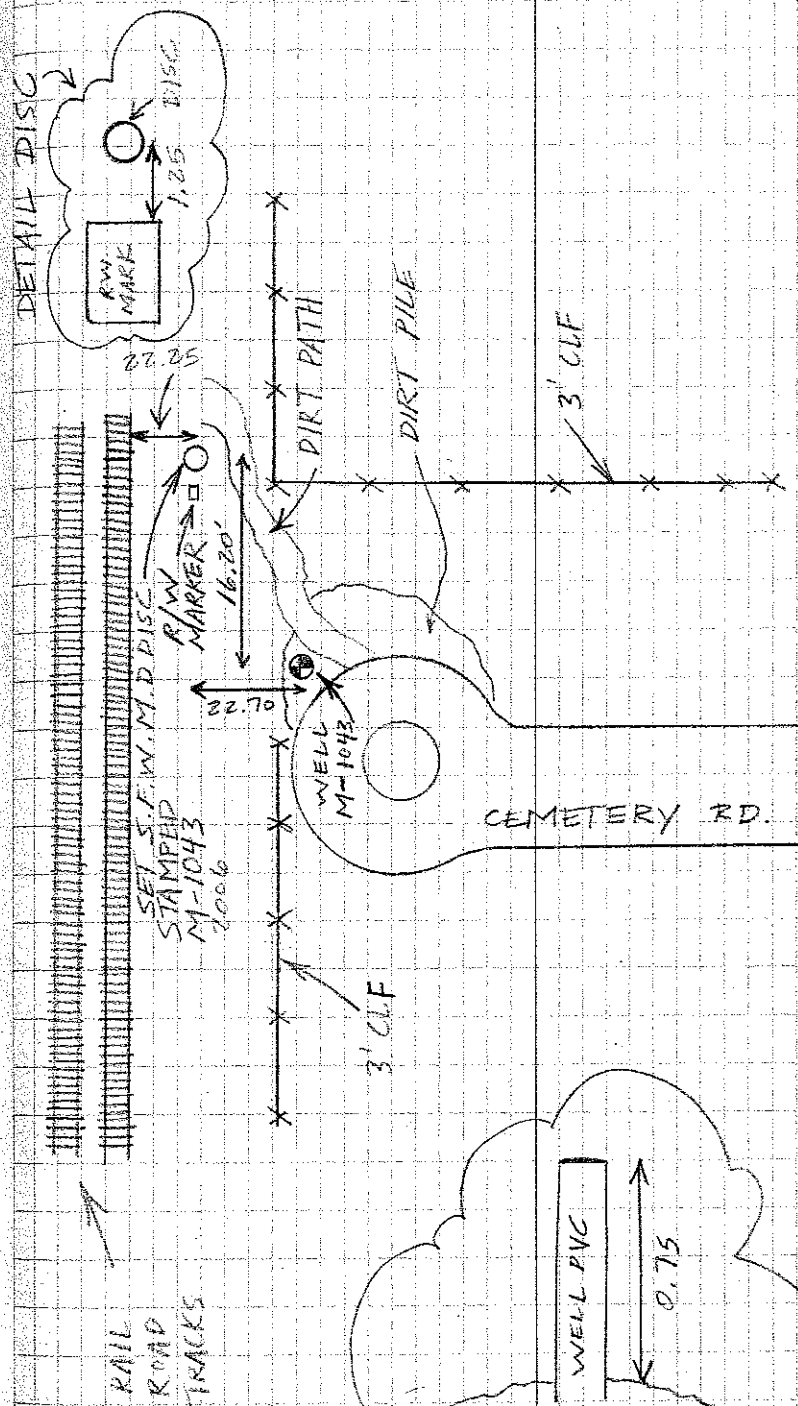
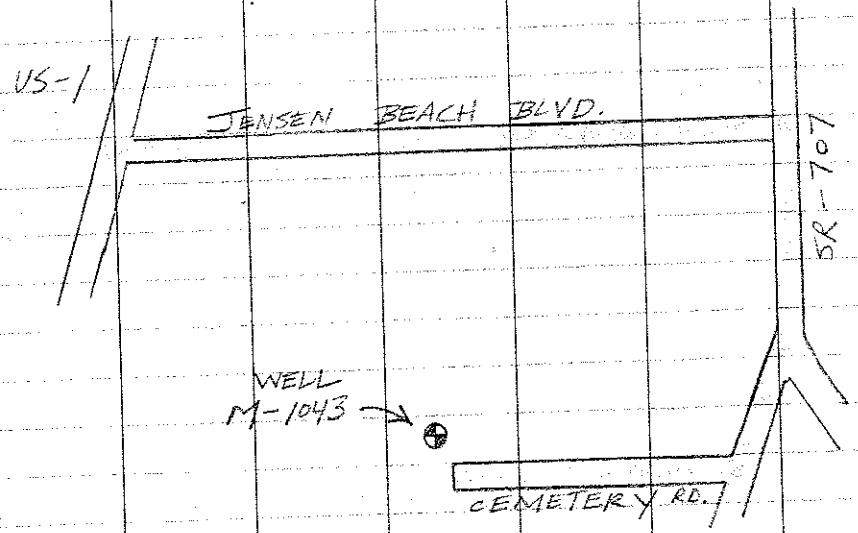
GAME  
CREW

#03-77616  
S.F.W.M.D

1/18/06

(SITE - S  
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF  
US-1 AND JENSEN BEACH BLVD  
TRAVEL EAST ON JENSEN BEACH  
BLVD FOR 2.55 MILES TO  
SR-707, TURN RIGHT AND  
HEAD SOUTH FOR 0.9 MILES  
UNTIL THE ROAD FORKS, TAKE  
THE RIGHT FORK AND THEN  
TURN RIGHT INTO THE AILSAWTS  
EPISCOPAL CHURCH CEMETERY  
AND TRAVEL WEST ON THE  
CEMETERY RD. FOR 0.35 TO  
THE BACK OF THE CEMETERY.  
THE WELL IS TO THE RIGHT  
AND BEHIND A LARGE PILE  
OF DIRT.



SR-707

SIDE VIEW  
DETAIL

SAME  
CREW

#03-77616  
S.F.W.M.D

1/13/06

SITE - T<sup>N</sup>

(ESTABLISH  
ELEV ON WELL  
SITE M-1259)

STA	BS	MEAN	HI	FS	MEAN	ELEV	ELEV	BM
	9.710						12.410	✓
BM	7.875	7.875	20.285	✓			—	
	6.040							
				6.120				
TP#1				4.760	4.760	15.525		✓
				3.400				
	6.360							
SHAKE	4.780	4.780	20.305	✓				
	3.200							
				6.140				
TP#2				4.530	4.530	15.775		✓
				2.920				
	6.330							
SHAKE	4.540	4.54	20.315	✓				
	2.750							
				6.115				
TP#3				4.545	4.545	15.770		✓
				2.975				
	6.530							
SHAKE	4.150	4.150	19.920	✓				
	1.770							
				7.030				
TPM#1				5.350	5.350	14.570		✓
				3.670				
	7.100							
SHAKE	6.250	6.250	20.820	✓				
	5.400							

DESC

NGS # AJ 5248 (GCY DOS) NAVD 88  
BRASS D. IN CONC MON.  
STAMPED GCY DOS 2001

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

MAG NL & TT

MAG NL & TT

SAME  
CREW

#03-77616  
S.F.W.M.D.

1/18/06

"SITE - T"  
(ELEV CONT.)

STA	BS	MEAN	HI	FS	MEAN	ELEV	EM ELEV
TBM#2				7.305 6.465 5.625	6.465	14.355	✓
SHAKE	9.130 7.635 6.140	7.635	21.990				✓
TP#4				6.760 5.045 3.330	5.045	16.945	✓
SHAKE	6.360 4.380 2.400	4.380	21.325				✓
TP#5				7.140 5.130 3.120	5.130	16.195	✓
SHAKE	6.780 4.440 2.100	4.440	20.635				✓
TP#6				7.030 4.975 2.920	4.975	15.660	✓
SHAKE	6.800 4.540 2.280	4.540	20.200				✓
TP#7				6.320 4.370 2.420	4.370	15.830	✓

DESC

MAG NL § TT

MAG NL § TT

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

SAME  
CREW

#03-77616  
S.F.V.M.D

1/19/06

"SITE - T"

(ELEV. CONT)

STA	BS	MEAN HI	FS	MEAN ELEV	BM ELEV
SHAKE	6.940 4.700 2.460	4.700	20.530 ✓		
TP#8			6.860 4.690 2.520	4.690	15.840 ✓
SHAKE	6.900 4.590 2.280	4.590	20.430 ✓		
TP#9			6.660 4.970 3.280	4.970	15.460 ✓
SHAKE	6.385 4.735 3.085	4.735	20.195 ✓		
BM			8.520 8.010 7.500	8.010	12.185 12.150 ERR = 0.035 ✓

DESC

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

NGS # AJ 5621 (MS16) NAVD 88  
BRASS D. IN CONC MON.  
STAMPED MS16 2001

A. REDERO  
T. LOPEZ  
A. LOPEZ

#03-77616  
S.F.W.M.D.

"SITE-T"  
(ELEV CONT)

2/22/06

STA	BS	MEAN	HI	FS	MEAN ELEV	BM ELEV
	4.620					
TBM#1	4.355 4.090	4.355	18.925			14.570
				6.030		
WELL M-1259				5.660 5.290	5.660	13.265
	5.575					
SHAKE	5.205 4.835	5.205	18.470			
				5.190		
DISC M-1259				4.830 4.470	4.830	13.640
	5.700					
SHAKE	5.345 4.990	5.345	18.985			
				4.890		
TBM#2				4.620 4.350	4.620	14.365 14.355

DESC

MAG NL & TT

See pg 55

TOP OF PIPE WELL M-1259 (PVC)

"

"

SET S.F.W.M.D. DISC STAMPED M-1259 2006

"

"

MAG NL & TT



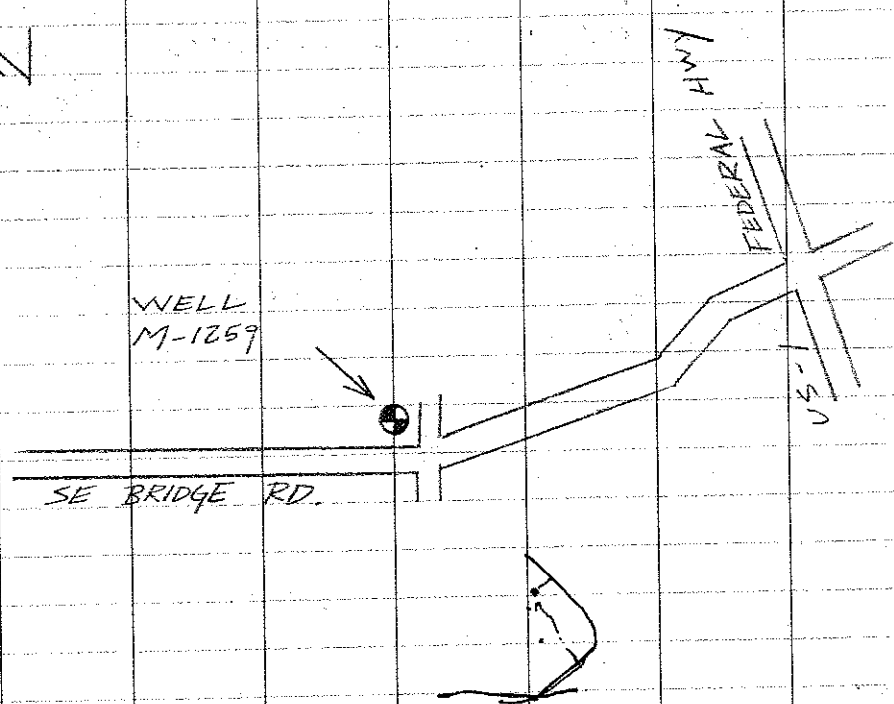
SAME  
CREW

#03-77616  
S.F.V.V.M.D

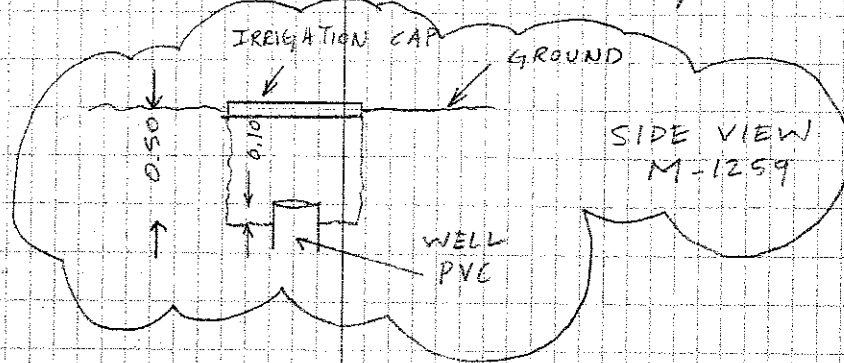
(SITE-T  
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF US-1  
AND BRIDGE RD. SR-703 TRAVEL  
WEST ON BRIDGE RD. FOR 2.0  
MILES TO THE BEND IN THE  
ROAD. THE WELL IS ON THE  
RIGHT AND WEST OF THE  
PAVED SIDE ROAD, NORTH OF  
DRAINAGE DITCH.

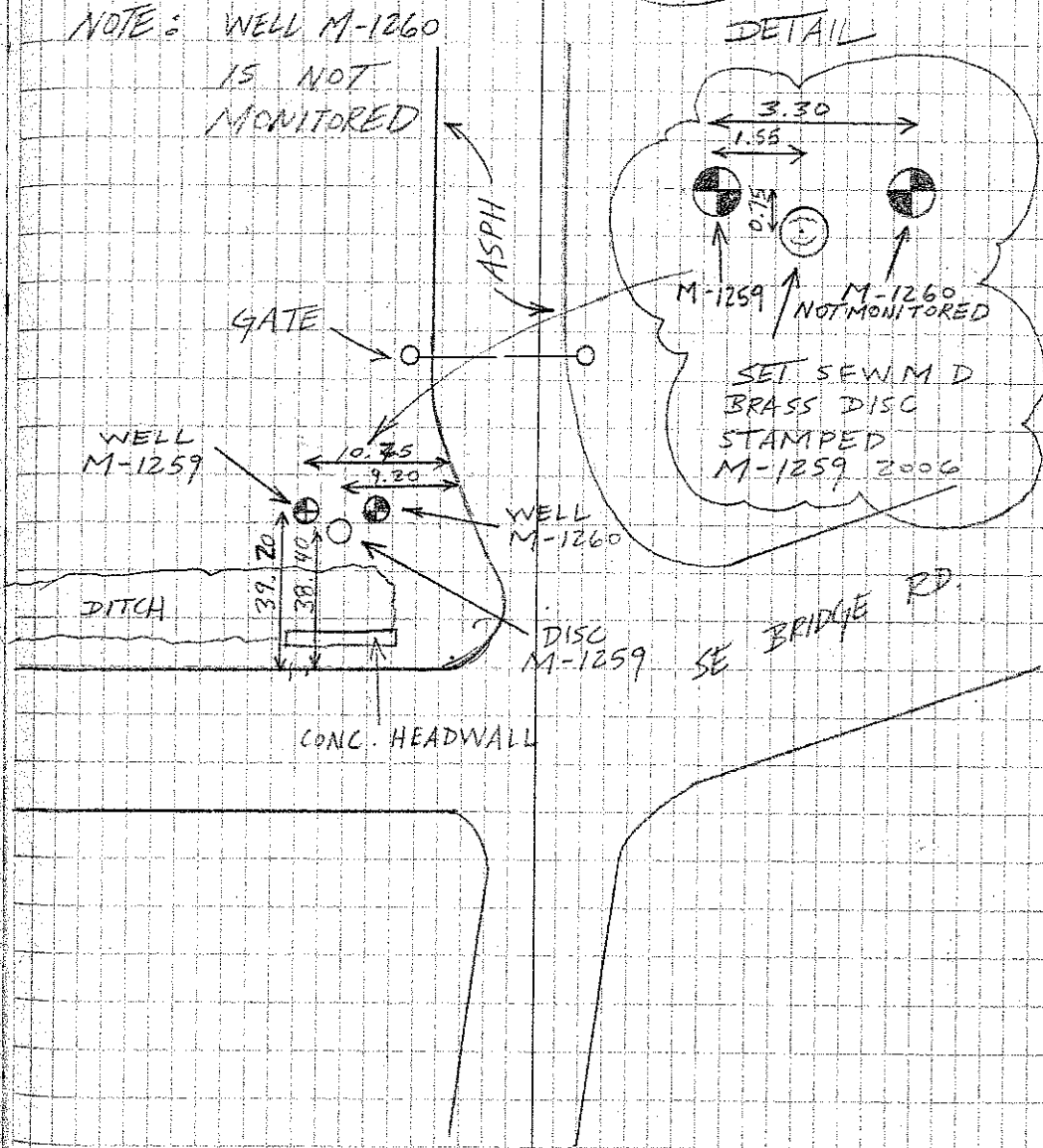
was dirt road before!



2564 / 59  
SKETCH OF WELL SITE M-1259



NOTE: WELL M-1260  
IS NOT  
MONITORED





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 04/11/06

COUNTY	MARTIN	PROJECT	CITRUS BLVD.	DESIGNATION	M1244 2006
SECTION	<u>36</u>	TOWNSHIP	<u>39S</u>	RANGE	<u>39E</u>
GEOGRAPHIC INDEX OF QUAD <u>Florida</u>					
Established by Biscayne Engineering Company, Inc.			NAME OF QUADRANGLE <u>INDIANTOWN #2504</u>		
SURVEYOR <u>Mike J. Bartholomew</u> DATE <u>04 /11 / 2006</u>			FIELD BOOK <u>2564</u> PAGE <u>16</u>		
HORIZONTAL DATUM: 1927 <input type="checkbox"/> <b>1983</b> <input checked="" type="checkbox"/> Other _____ (circle one) ZONE <u>0901 (EAST)</u>					
VERTICAL DATUM: MSL 1929 <input type="checkbox"/> <b>1988</b> <input checked="" type="checkbox"/> Other _____ (circle one)					
CONTROL ACCURACY: HORIZONTAL 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> <b>SUB-METER</b> (circle one) VERTICAL 1 <input type="checkbox"/> 2 <input type="checkbox"/> <b>3</b> <input checked="" type="checkbox"/>					
STATE PLANE COORDINATES <u>M1244</u> (U.S. Survey feet)		X= <u>851823.454</u>	Y= <u>982851.284</u>	DISC EL.= <u>33.65'</u> (NAVD-88)	
LATITUDE <u>M1244 27°02'10.858"N</u>			LONGITUDE <u>080°23'56.176"W</u>		
<b>DESCRIPTION</b>					
Benchmark is situated approximately 4 miles East of State Road 710 (Warfield Blvd.), North of the St. Lucie Canal along the South side of Citrus Blvd. (SR-726) Martin County, Florida.					
<b>TO REACH</b> the benchmark from the intersection of Warfield Blvd. (SR-710) and Citrus Blvd. (SR-726), travel East on Citrus Blvd. (SR-726) for 4 miles. Benchmark is a brass SFWMD disc set approximately 0.3 miles East of a drainage canal bridge, 27 feet South of the South edge of pavement of Citrus Blvd. (SR-726) and 33 feet (±) Westerly of an aerial target on the centerline of Citrus Blvd. and 33.0 feet Easterly of the green irrigation valve box of well "M-1244".					
Note: Origin of NAVD88 elevation for BM "M1244" is closed bench level circuit through NGS benchmarks AJ8247 (M522) and AJ8246 (L522).					

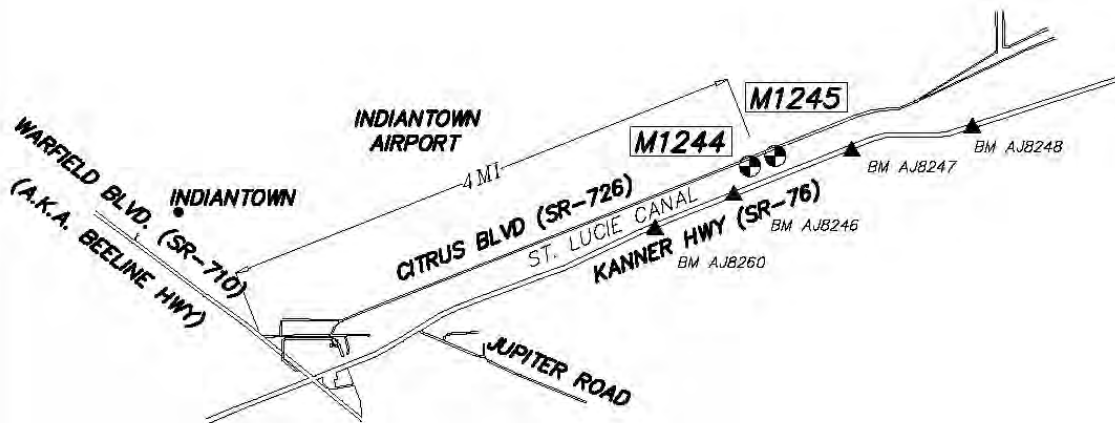
SKETCH: SEE PAGE 2 and 3



**WELL M1244, M1245**

**CITRUS BLVD.**

**SHEET 1 OF 2**



**WELL M1244, M1245**

**EAST COAST AQUIFER MONITORING WELLS**

F:\SURVEY\PROJECTS\77609\477616-SFVMD\MARTIN COUNTY-PHASE IIA\DWG\NorthVelle-phase-2\_GPS.dwg 4/11/2006 8:29:45 AM EDT

PREPARED FOR:

SOUTH FLORIDA  
WATER MANAGEMENT  
DISTRICT



**FIELD BOOK:**

2564

**DATE:**

04-11-06

**ORDER No.:**

03-77616

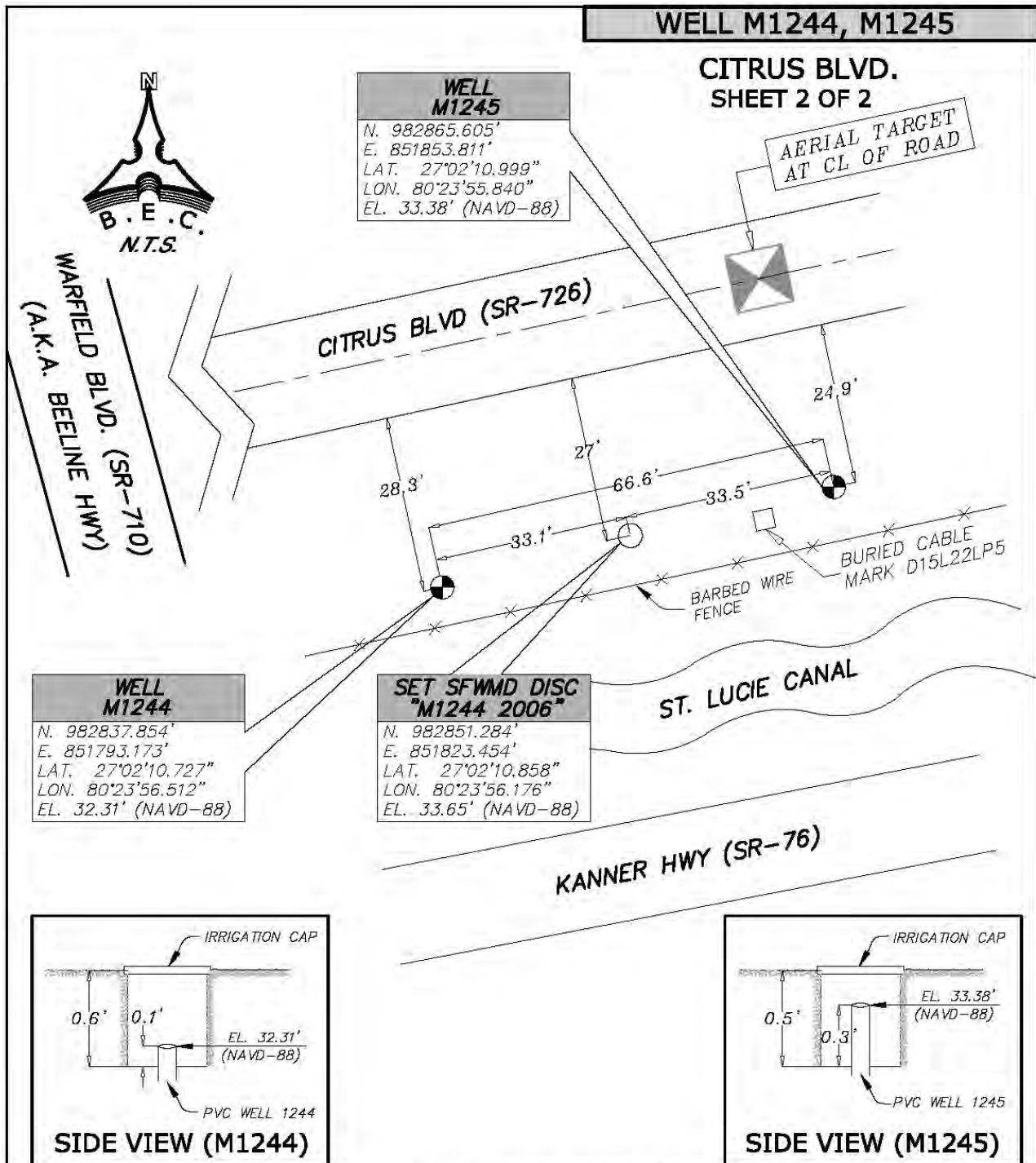
**BY:**

I.V.



PREPARED BY:  
**BISCAYNE ENGINEERING COMPANY, INC.**  
Consulting Engineers Planners Surveyors

529 WEST FLAGLER ST, MIAMI, FL. 33130 — TEL. (305)324-7671 — FAX (305)324-0809  
LB #0129



**WELL M1244, M1245** **EAST COAST AQUIFER MONITORING WELLS**

PREPARED FOR: SOUTH FLORIDA WATER MANAGEMENT DISTRICT

FIELD BOOK: 2564    DATE: 04-11-06    ORDER No.: 03-77616    ST: I.V.

PREPARED BY: **BISCAYNE ENGINEERING COMPANY, INC.**  
 Consulting Engineers Planners Surveyors  
 529 WEST FLAGLER ST, MIAMI, FL. 33130 - TEL. (305)324-7671 -- FAX (305)324-0809  
 LB #0129

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26243 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated  
 & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
1759	2919	AJ8247	M 522	7.8358	7.9957	
1760	2920	AJ8248	N 522	7.9196	8.0812	

## The NGS Data Sheet

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

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.30

1 National Geodetic Survey, Retrieval Date = JANUARY 16, 2006

```

AJ8247 *****
AJ8247 DESIGNATION - M 522
AJ8247 PID - AJ8247
AJ8247 STATE/COUNTY- FL/MARTIN
AJ8247 USGS QUAD - INDIANTOWN (1983)
AJ8247
AJ8247 *CURRENT SURVEY CONTROL
AJ8247
AJ8247* NAD 83(1999)- 27 02 11.05808(N) 080 23 21.06516(W) ADJUSTED
AJ8247* NAVD 88 - 7.579 (meters) 24.87 (feet) ADJUSTED
AJ8247
AJ8247 X - 949,144.517 (meters) COMP
AJ8247 Y - -5,605,244.599 (meters) COMP
AJ8247 Z - 2,881,800.400 (meters) COMP
AJ8247 LAPLACE CORR- -1.73 (seconds) DEFLEC99
AJ8247 ELLIP HEIGHT- -19.25 (meters) (12/12/02) GPS OBS
AJ8247 GEOID HEIGHT- -26.84 (meters) GEOID03
AJ8247 DYNAMIC HT - 7.568 (meters) 24.83 (feet) COMP
AJ8247 MODELED GRAV- 979,097.1 (mgal) NAVD 88
AJ8247
AJ8247 HORZ ORDER - FIRST
AJ8247 VERT ORDER - FIRST CLASS II
AJ8247 ELLP ORDER - THIRD CLASS I
AJ8247
AJ8247.The horizontal coordinates were established by GPS observations
AJ8247.and adjusted by the National Geodetic Survey in December 2002.
AJ8247
AJ8247.The orthometric height was determined by differential leveling
AJ8247.and adjusted by the National Geodetic Survey in April 2002.
AJ8247
AJ8247.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ8247
AJ8247.The Laplace correction was computed from DEFLEC99 derived deflections.
AJ8247
AJ8247.The ellipsoidal height was determined by GPS observations
AJ8247.and is referenced to NAD 83.
AJ8247
AJ8247.The geoid height was determined by GEOID03.
AJ8247
AJ8247.The dynamic height is computed by dividing the NAVD 88
AJ8247.geopotential number by the normal gravity value computed on the
AJ8247.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8247.degrees latitude (g = 980.6199 gals.).
AJ8247
AJ8247.The modeled gravity was interpolated from observed gravity values.
AJ8247
AJ8247;
AJ8247;SPC FL E - North East Units Scale Factor Converg.
AJ8247;UTM 17 - 2,990,614.238 560,583.299 MT 0.99964531 +0 16 39.6
AJ8247
AJ8247! - Elev Factor x Scale Factor = Combined Factor
    
```

DATASHEETS

AJ8247!SPC FL E - 1.00000302 x 0.99998650 = 0.99998952  
 AJ8247!UTM 17 - 1.00000302 x 0.99964531 = 0.99964833

AJ8247

AJ8247 SUPERSEDED SURVEY CONTROL

AJ8247

AJ8247 NAVD 88 (12/12/02) 7.58 (m) 24.9 (f) LEVELING 3

AJ8247

AJ8247.Superseded values are not recommended for survey control.

AJ8247.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AJ8247.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ8247

AJ8247\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6058390614(NAD 83)

AJ8247\_MARKER: F = FLANGE-ENCASED ROD

AJ8247\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

AJ8247\_STAMPING: M 522 2001 CERP

AJ8247\_MARK LOGO: NONE

AJ8247\_PROJECTION: RECESSED 8 CENTIMETERS

AJ8247\_MAGNETIC: O = OTHER; SEE DESCRIPTION

AJ8247\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AJ8247\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ8247+SATELLITE: SATELLITE OBSERVATIONS - April 24, 2002

AJ8247\_ROD/PIPE-DEPTH: 24.4 meters

AJ8247

AJ8247	HISTORY	- Date	Condition	Report By
--------	---------	--------	-----------	-----------

AJ8247	HISTORY	- 20010903	MONUMENTED	FOST
--------	---------	------------	------------	------

AJ8247	HISTORY	- 20020424	GOOD	MAPTEC
--------	---------	------------	------	--------

AJ8247

AJ8247 STATION DESCRIPTION

AJ8247

AJ8247'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ8247'THE MONUMENT IS LOCATED 4.05 MILES (6.52 KM) EAST OF INDIANTOWN, FL.

AJ8247'AND 9.85 MILES (15.85 KM) WEST OF

AJ8247'THE I-95 AND STATE ROAD 76 INTERCHANGE SOUTHWEST OF STUART, FL.,

AJ8247'SECTION 36, TOWNSHIP 39 SOUTH,

AJ8247'RANGE 39 EAST.

AJ8247'

AJ8247'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.

AJ8247'

AJ8247'TO REACH MONUMENT FROM THE JUNCTION OF THE STATE ROAD 710 RAMP AND

AJ8247'STATE ROAD 76 IN

AJ8247'INDIANTOWN, GO EAST 4.05 MILES (6.52 KM) ALONG STATE ROAD 76 TO THE

AJ8247'MONUMENT LOCATION ON THE

AJ8247'SOUTH (RIGHT) SIDE OF THE ROAD IN THE RIGHT OF WAY. THE MONUMENT

AJ8247'LOCATION IS 0.2 MILES (0.32 KM)

AJ8247'WEST OF THE ENTRANCE TO PAYSON PARK THOROBRED TRAINING CENTER.

AJ8247'

AJ8247'THE MONUMENT IS 120.0 FEET (35.58 M) SOUTH OF THE CENTERLINE OF THE

AJ8247'ROAD, 4.0 FEET (1.22 M) NORTH OF A

AJ8247'WOODEN FENCE, 142.5 FEET (43.43 M) EAST OF POWER POLE NO. 279, 101.7

AJ8247'FEET (31.00 M) EAST OF THE EASTERN

AJ8247'MOST OF TWO PALM TREES IN THE FENCELINE AND 73.6 FEET (22.43 M) SOUTH

AJ8247'OF TELEPHONE PEDESTAL

AJ8247'SL1A11. ACCESS TO THE DATUM POINT (TOP OF A STAINLESS STEEL ROD) IS

AJ8247'HAD THROUGH A 5 INCH LOGO CAP.

AJ8247'NOTE A MAGNET WAS PLACED INSIDE THE PVC PIPE.

AJ8247'

AJ8247

AJ8247 STATION RECOVERY (2002)

AJ8247

AJ8247'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

# DATASHEETS

AJ8247'THE MONUMENT IS LOCATED 4.05 MILES (6.52 KM) EAST OF INDIANTOWN, FL.  
AJ8247'AND 9.85 MILES (15.85 KM)  
AJ8247'WEST OF  
AJ8247'THE I-95 AND STATE ROAD 76 INTERCHANGE SOUTHWEST OF STUART, FL.,  
AJ8247'SECTION 36, TOWNSHIP 39  
AJ8247'SOUTH,  
AJ8247'RANGE 39 EAST.  
AJ8247'  
AJ8247'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.  
AJ8247'  
AJ8247'TO REACH MONUMENT FROM THE JUNCTION OF THE STATE ROAD 710 RAMP AND  
AJ8247'STATE ROAD 76 IN  
AJ8247'INDIANTOWN, GO EAST 4.05 MILES (6.52 KM) ALONG STATE ROAD 76 TO THE  
AJ8247'MONUMENT LOCATION ON  
AJ8247'THE  
AJ8247'SOUTH (RIGHT) SIDE OF THE ROAD IN THE RIGHT OF WAY. THE MONUMENT  
AJ8247'LOCATION IS 0.2 MILES (0.32  
AJ8247'KM)  
AJ8247'WEST OF THE ENTRANCE TO PAYSON PARK THOROBRED TRAINING CENTER.  
AJ8247'  
AJ8247'THE MONUMENT IS 120.0 FEET (35.58 M) SOUTH OF THE CENTERLINE OF THE  
AJ8247'ROAD, 4.0 FEET (1.22 M)  
AJ8247'NORTH OF A  
AJ8247'WOODEN FENCE, 142.5 FEET (43.43 M) EAST OF POWER POLE NO. 279, 101.7  
AJ8247'FEET (31.00 M) EAST OF THE  
AJ8247'EASTERN  
AJ8247'MOST OF TWO PALM TREES IN THE FENCELINE AND 73.6 FEET (22.43 M) SOUTH  
AJ8247'OF TELEPHONE  
AJ8247'PEDESTAL  
AJ8247'SL1A11. ACCESS TO THE DATUM POINT (TOP OF A STAINLESS STEEL ROD) IS  
AJ8247'HAD THROUGH A 5 INCH  
AJ8247'LOGO CAP.  
AJ8247'NOTE A MAGNET WAS PLACED INSIDE THE PVC PIPE.  
AJ8247'  
AJ8247'STATION RECOVERY (2002)  
AJ8247'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)  
AJ8247'RECOVERED AS DESCRIBED.  
AJ8247'  
AJ8247'

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

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26243 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
1758	2918	AJ8246	L 522	8.1594	8.3259	
1759	2919	AJ8247	M 522	7.8358	7.9957	

## The NGS Data Sheet

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

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.30

1 National Geodetic Survey, Retrieval Date = JANUARY 16, 2006

AJ8246 \*\*\*\*\*

AJ8246 DESIGNATION - L 522

AJ8246 PID - AJ8246

AJ8246 STATE/COUNTY- FL/MARTIN

AJ8246 USGS QUAD - INDIANTOWN (1983)

AJ8246

AJ8246 \*CURRENT SURVEY CONTROL

AJ8246

AJ8246\* NAD 83(1999)- 27 01 52.48285(N) 080 24 17.76425(W) ADJUSTED

AJ8246\* NAVD 88 - 7.914 (meters) 25.96 (feet) ADJUSTED

AJ8246

AJ8246 X - 947,647.054 (meters) COMP

AJ8246 Y - -5,605,761.849 (meters) COMP

AJ8246 Z - 2,881,291.316 (meters) COMP

AJ8246 LAPLACE CORR- -1.77 (seconds) DEFLEC99

AJ8246 ELLIP HEIGHT- -18.87 (meters) (12/12/02) GPS OBS

AJ8246 GEOID HEIGHT- -26.80 (meters) GEOID03

AJ8246 DYNAMIC HT - 7.902 (meters) 25.93 (feet) COMP

AJ8246 MODELED GRAV- 979,095.8 (mgal) NAVD 88

AJ8246

AJ8246 HORZ ORDER - FIRST

AJ8246 VERT ORDER - FIRST CLASS II

AJ8246 ELLP ORDER - THIRD CLASS I

AJ8246

AJ8246.The horizontal coordinates were established by GPS observations

AJ8246.and adjusted by the National Geodetic Survey in December 2002.

AJ8246

AJ8246.The orthometric height was determined by differential leveling

AJ8246.and adjusted by the National Geodetic Survey in April 2002.

AJ8246

AJ8246.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AJ8246

AJ8246.The Laplace correction was computed from DEFLEC99 derived deflections.

AJ8246

AJ8246.The ellipsoidal height was determined by GPS observations

AJ8246.and is referenced to NAD 83.

AJ8246

AJ8246.The geoid height was determined by GEOID03.

AJ8246

AJ8246.The dynamic height is computed by dividing the NAVD 88

AJ8246.geopotential number by the normal gravity value computed on the

AJ8246.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ8246.degrees latitude (g = 980.6199 gals.).

AJ8246

AJ8246.The modeled gravity was interpolated from observed gravity values.

AJ8246

AJ8246; North East Units Scale Factor Converg.

AJ8246;SPC FL E - 299,005.288 259,043.981 MT 0.99998420 +0 16 13.6

AJ8246;UTM 17 - 2,990,035.251 559,023.835 MT 0.99964301 +0 16 13.6

AJ8246

AJ8246! - Elev Factor x Scale Factor = Combined Factor



DATASHEETS

AJ8246!SPC FL E - 1.00000296 x 0.99998420 = 0.99998716  
 AJ8246!UTM 17 - 1.00000296 x 0.99964301 = 0.99964597

AJ8246

AJ8246 SUPERSEDED SURVEY CONTROL

AJ8246

AJ8246 NAVD 88 (12/12/02) 7.91 (m) 26.0 (f) LEVELING 3

AJ8246

AJ8246.Superseded values are not recommended for survey control.

AJ8246.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AJ8246.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ8246

AJ8246\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK5902490035(NAD 83)

AJ8246\_MARKER: DD = SURVEY DISK

AJ8246\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AJ8246\_STAMPING: L 522 2001 CERP

AJ8246\_MARK LOGO: USE

AJ8246\_PROJECTION: RECESSED 8 CENTIMETERS

AJ8246\_MAGNETIC: O = OTHER; SEE DESCRIPTION

AJ8246\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AJ8246+STABILITY: SURFACE MOTION

AJ8246\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ8246+SATELLITE: SATELLITE OBSERVATIONS - April 24, 2002

AJ8246

AJ8246	HISTORY	- Date	Condition	Report By
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AJ8246	HISTORY	- 20010903	MONUMENTED	FOST
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AJ8246	HISTORY	- 20020424	GOOD	MAPTEC
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AJ8246

AJ8246 STATION DESCRIPTION

AJ8246

AJ8246'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ8246'THE MONUMENT IS LOCATED 3.05 MILES (4.91 KM) EAST OF INDIANTOWN, FL.

AJ8246'AND 10.85 MILES (17.46 KM) WEST OF

AJ8246'THE I-95 AND STATE ROAD 76 INTERCHANGE SOUTHWEST OF STUART, FL.,

AJ8246'SECTION 35, TOWNSHIP 39 SOUTH,

AJ8246'RANGE 39 EAST.

AJ8246'

AJ8246'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.

AJ8246'

AJ8246'TO REACH MONUMENT FROM THE JUNCTION OF THE STATE ROAD 710 RAMP AND

AJ8246'STATE ROAD 76 IN

AJ8246'INDIANTOWN, GO EAST 3.05 MILES (4.91 KM) ALONG STATE ROAD 76 TO THE

AJ8246'MONUMENT LOCATION ON THE

AJ8246'NORTH (LEFT) SIDE OF THE ROAD IN THE RIGHT OF WAY BETWEEN THE ROAD AND

AJ8246'ST. LUCIE CANAL. THE

AJ8246'MONUMENT LOCATION IS 0.3 MILES (0.48 KM) EAST OF THE EASTERN MOST

AJ8246'ENTRANCE TO THE ST. LUCIE MOBILE

AJ8246'VILLAGE AT 11500 SW KANNER ROAD (STATE ROAD 76).

AJ8246'

AJ8246'THE MONUMENT IS 22.5 FEET (6.86 M) NORTH OF THE CENTERLINE OF THE

AJ8246'ROAD, 3.0 FEET (0.91 M) SOUTH OF

AJ8246'THE NORTH GUARDRAIL AND 3.0 FEET (0.91 M) SOUTH OF A CARSONITE WITNESS

AJ8246'POST. NOTE A MAGNET WAS

AJ8246'BURIED NEARBY AT AN UNSPECIFIED POSITION.

AJ8246'

AJ8246

AJ8246 STATION RECOVERY (2002)

AJ8246

AJ8246'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AJ8246'THE MONUMENT IS LOCATED 3.05 MILES (4.91 KM) EAST OF INDIANTOWN, FL.

AJ8246'AND 10.85 MILES (17.46

# DATASHEETS

AJ8246'KM) WEST OF  
AJ8246'THE I-95 AND STATE ROAD 76 INTERCHANGE SOUTHWEST OF STUART, FL.,  
AJ8246'SECTION 35, TOWNSHIP 39  
AJ8246'SOUTH,  
AJ8246'RANGE 39 EAST.  
AJ8246'  
AJ8246'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.  
AJ8246'  
AJ8246'TO REACH MONUMENT FROM THE JUNCTION OF THE STATE ROAD 710 RAMP AND  
AJ8246'STATE ROAD 76 IN  
AJ8246'INDIANTOWN, GO EAST 3.05 MILES (4.91 KM) ALONG STATE ROAD 76 TO THE  
AJ8246'MONUMENT LOCATION ON  
AJ8246'THE  
AJ8246'NORTH (LEFT) SIDE OF THE ROAD IN THE RIGHT OF WAY BETWEEN THE ROAD AND  
AJ8246'ST. LUCIE CANAL.  
AJ8246'THE  
AJ8246'MONUMENT LOCATION IS 0.3 MILES (0.48 KM) EAST OF THE EASTERN MOST  
AJ8246'ENTRANCE TO THE ST.  
AJ8246'LUCIE MOBILE  
AJ8246'VILLAGE AT 11500 SW KANNER ROAD (STATE ROAD 76).  
AJ8246'  
AJ8246'THE MONUMENT IS 22.5 FEET (6.86 M) NORTH OF THE CENTERLINE OF THE  
AJ8246'ROAD, 3.0 FEET (0.91 M)  
AJ8246'SOUTH OF  
AJ8246'THE NORTH GUARDRAIL AND 3.0 FEET (0.91 M) SOUTH OF A CARSONITE WITNESS  
AJ8246'POST. NOTE A  
AJ8246'MAGNET WAS  
AJ8246'BURIED NEARBY AT AN UNSPECIFIED POSITION.  
AJ8246'  
AJ8246'STATION RECOVERY (2002)  
AJ8246'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)  
AJ8246'RECOVERED AS DESCRIBED.  
AJ8246'  
AJ8246'

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

# The NGS Data Sheet

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

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.30

1 National Geodetic Survey, Retrieval Date = JANUARY 16, 2006

AJ8256 \*\*\*\*\*

AJ8256 DESIGNATION - R 522

AJ8256 PID - AJ8256

AJ8256 STATE/COUNTY- FL/MARTIN

AJ8256 USGS QUAD - INDIAN TOWN SE (1983)

AJ8256

AJ8256 \*CURRENT SURVEY CONTROL

AJ8256

AJ8256\* NAD 83(1999)- 27 03 08.09722(N) 080 19 46.12516(W) ADJUSTED

AJ8256\* NAVD 88 - 6.653 (meters) 21.83 (feet) ADJUSTED

AJ8256

AJ8256 X - 954,850.744 (meters) COMP

AJ8256 Y - -5,603,464.659 (meters) COMP

AJ8256 Z - 2,883,363.547 (meters) COMP

AJ8256 LAPLACE CORR- -2.17 (seconds) DEFLEC99

AJ8256 ELLIP HEIGHT- -20.32 (meters) (12/12/02) GPS OBS

AJ8256 GEOID HEIGHT- -27.00 (meters) GEOID03

AJ8256 DYNAMIC HT - 6.643 (meters) 21.79 (feet) COMP

AJ8256 MODELED GRAV- 979,100.8 (mgal) NAVD 88

AJ8256

AJ8256 HORZ ORDER - FIRST

AJ8256 VERT ORDER - FIRST CLASS II

AJ8256 ELLP ORDER - THIRD CLASS I

AJ8256

AJ8256.The horizontal coordinates were established by GPS observations

AJ8256.and adjusted by the National Geodetic Survey in December 2002.

AJ8256

AJ8256.The orthometric height was determined by differential leveling

AJ8256.and adjusted by the National Geodetic Survey in April 2002.

AJ8256

AJ8256.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AJ8256

AJ8256.The Laplace correction was computed from DEFLEC99 derived deflections.

AJ8256

AJ8256.The ellipsoidal height was determined by GPS observations

AJ8256.and is referenced to NAD 83.

AJ8256

AJ8256.The geoid height was determined by GEOID03.

AJ8256

AJ8256.The dynamic height is computed by dividing the NAVD 88

AJ8256.geopotential number by the normal gravity value computed on the

AJ8256.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ8256.degrees latitude (g = 980.6199 gals.).

AJ8256

AJ8256.The modeled gravity was interpolated from observed gravity values.

AJ8256

AJ8256;		North	East	Units	Scale	Factor	Converg.
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AJ8256;SPC	FL E	- 301,370.158	266,518.664	MT	0.99999578	+0 18	17.9
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AJ8256;UTM	17	- 2,992,399.313	566,495.968	MT	0.99965458	+0 18	17.9
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AJ8256

AJ8256! - Elev Factor x Scale Factor = Combined Factor

DATASHEETS

AJ8256!SPC FL E - 1.00000319 x 0.99999578 = 0.99999897  
 AJ8256!UTM 17 - 1.00000319 x 0.99965458 = 0.99965777

AJ8256

AJ8256 SUPERSEDED SURVEY CONTROL

AJ8256

AJ8256 NAVD 88 (12/12/02) 6.65 (m) 21.8 (f) LEVELING 3

AJ8256

AJ8256.Superseded values are not recommended for survey control.

AJ8256.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AJ8256.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ8256

AJ8256\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6649692399(NAD 83)

AJ8256\_MARKER: DD = SURVEY DISK

AJ8256\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AJ8256\_STAMPING: R 522 2001 CERP

AJ8256\_MARK LOGO: USE

AJ8256\_PROJECTION: RECESSED 8 CENTIMETERS

AJ8256\_MAGNETIC: O = OTHER; SEE DESCRIPTION

AJ8256\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AJ8256+STABILITY: SURFACE MOTION

AJ8256\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ8256+SATELLITE: SATELLITE OBSERVATIONS - April 24, 2002

AJ8256

AJ8256	HISTORY	- Date	Condition	Report By
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AJ8256	HISTORY	- 20010904	MONUMENTED	FOST
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AJ8256	HISTORY	- 20020424	GOOD	MAPTEC
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AJ8256

AJ8256 STATION DESCRIPTION

AJ8256

AJ8256'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ8256'THE MONUMENT IS LOCATED 6.05 MILES (9.74 KM) WEST OF THE I-95 AND

AJ8256'STATE ROAD 76 INTERCHANGE

AJ8256'SOUTHWEST OF STUART, FL. AND 7.85 MILES (12.63 KM) EAST OF INDIANTOWN,

AJ8256'FL., SECTION 27, TOWNSHIP 39

AJ8256'SOUTH, RANGE 40 EAST.

AJ8256'

AJ8256'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.

AJ8256'

AJ8256'TO REACH MONUMENT FROM THE INTERCHANGE OF I-95 AND STATE ROAD 76

AJ8256'SOUTHWEST OF STUART, GO

AJ8256'WEST 6.05 MILES (9.74 KM) ALONG STATE ROAD 76 TO THE MONUMENT LOCATION

AJ8256'ON THE NORTH (RIGHT) SIDE

AJ8256'OF THE ROAD IN THE RIGHT OF WAY. THE MONUMENT IS LOCATED AT THE GATE 4

AJ8256'ENTRANCE TO THE CALUSA

AJ8256'CREEK TREE FARM AND RANCH.

AJ8256'

AJ8256'THE MONUMENT IS 71.5 FEET (21.79 M) NORTH OF THE CENTERLINE OF THE

AJ8256'ROAD, 4.0 FEET (1.22 M) SOUTH OF A

AJ8256'FENCE POST, 42.5 FEET (12.95 M) NORTHWEST OF THE CENTER OF A HEADWALL,

AJ8256'10.5 FEET (3.20) WEST OF THE

AJ8256'CENTER OF A DIRT ROAD LEADING TO GATE 4 OF THE CALUSA CREEK TREE FARM

AJ8256'AND RANCH AND 11.8 FEET

AJ8256'(3.60 M) WEST OF THE CENTER OF GATE 4. NOTE A MAGNET WAS BURIED NEARBY

AJ8256'AT AN UNSPECIFIED

AJ8256'POSITION.

AJ8256'

AJ8256

AJ8256 STATION RECOVERY (2002)

AJ8256

AJ8256'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

# DATASHEETS

AJ8256'THE MONUMENT IS LOCATED 6.05 MILES (9.74 KM) WEST OF THE I-95 AND  
AJ8256'STATE ROAD 76  
AJ8256'INTERCHANGE  
AJ8256'SOUTHWEST OF STUART, FL. AND 7.85 MILES (12.63 KM) EAST OF INDIANTOWN,  
AJ8256'FL., SECTION 27,  
AJ8256'TOWNSHIP 39  
AJ8256'SOUTH, RANGE 40 EAST.  
AJ8256'  
AJ8256'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.  
AJ8256'  
AJ8256'TO REACH MONUMENT FROM THE INTERCHANGE OF I-95 AND STATE ROAD 76  
AJ8256'SOUTHWEST OF  
AJ8256'STUART, GO  
AJ8256'WEST 6.05 MILES (9.74 KM) ALONG STATE ROAD 76 TO THE MONUMENT LOCATION  
AJ8256'ON THE NORTH  
AJ8256'(RIGHT) SIDE  
AJ8256'OF THE ROAD IN THE RIGHT OF WAY. THE MONUMENT IS LOCATED AT THE GATE 4  
AJ8256'ENTRANCE TO THE  
AJ8256'CALUSA  
AJ8256'CREEK TREE FARM AND RANCH.  
AJ8256'  
AJ8256'THE MONUMENT IS 71.5 FEET (21.79 M) NORTH OF THE CENTERLINE OF THE  
AJ8256'ROAD, 4.0 FEET (1.22 M)  
AJ8256'SOUTH OF A  
AJ8256'FENCE POST, 42.5 FEET (12.95 M) NORTHWEST OF THE CENTER OF A HEADWALL,  
AJ8256'10.5 FEET (3.20) WEST  
AJ8256'OF THE  
AJ8256'CENTER OF A DIRT ROAD LEADING TO GATE 4 OF THE CALUSA CREEK TREE FARM  
AJ8256'AND RANCH AND 11.8  
AJ8256'FEET  
AJ8256'(3.60 M) WEST OF THE CENTER OF GATE 4. NOTE A MAGNET WAS BURIED NEARBY  
AJ8256'AT AN UNSPECIFIED  
AJ8256'POSITION.  
AJ8256'  
AJ8256'STATION RECOVERY (2002)  
AJ8256'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)  
AJ8256'RECOVERED AS DESCRIBED.  
AJ8256'  
AJ8256'

\*\*\* retrieval complete.  
Elapsed Time = 00:00:01



DATASHEETS

AJ8248!SPC FL E - 1.00000302 x 0.99998877 = 0.99999179  
 AJ8248!UTM 17 - 1.00000302 x 0.99964758 = 0.99965060  
 AJ8248  
 AJ8248 SUPERSEDED SURVEY CONTROL  
 AJ8248  
 AJ8248 NAVD 88 (12/12/02) 7.66 (m) 25.1 (f) LEVELING 3  
 AJ8248  
 AJ8248.Superseded values are not recommended for survey control.  
 AJ8248.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 AJ8248.[See file dsdata.txt](#) to determine how the superseded data were derived.  
 AJ8248  
 AJ8248\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6208090938(NAD 83)  
 AJ8248\_MARKER: DD = SURVEY DISK  
 AJ8248\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
 AJ8248\_STAMPING: N 522 2001 CERP  
 AJ8248\_MARK LOGO: USE  
 AJ8248\_PROJECTION: RECESSED 20 CENTIMETERS  
 AJ8248\_MAGNETIC: O = OTHER; SEE DESCRIPTION  
 AJ8248\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 AJ8248+STABILITY: SURFACE MOTION  
 AJ8248\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 AJ8248+SATELLITE: SATELLITE OBSERVATIONS - April 24, 2002  
 AJ8248  
 AJ8248 HISTORY - Date Condition Report By  
 AJ8248 HISTORY - 20010904 MONUMENTED FOST  
 AJ8248 HISTORY - 20020424 GOOD MAPTEC  
 AJ8248  
 AJ8248 STATION DESCRIPTION  
 AJ8248  
 AJ8248'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)  
 AJ8248'THE MONUMENT IS LOCATED 5.0 MILES (8.05 KM) EAST OF INDIANTOWN, FL.  
 AJ8248'AND 8.9 MILES (14.32 KM) WEST OF THE  
 AJ8248'I-95 AND STATE ROAD 76 INTERCHANGE SOUTHWEST OF STUART, FL., SECTION  
 AJ8248'31, TOWNSHIP 39 SOUTH,  
 AJ8248'RANGE 40 EAST.  
 AJ8248'  
 AJ8248'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.  
 AJ8248'  
 AJ8248'TO REACH MONUMENT FROM THE JUNCTION OF THE STATE ROAD 710 RAMP AND  
 AJ8248'STATE ROAD 76 IN  
 AJ8248'INDIANTOWN, GO EAST 5.0 MILES (8.05 KM) ALONG STATE ROAD 76 TO THE  
 AJ8248'MONUMENT LOCATION ON THE  
 AJ8248'NORTH (LEFT) SIDE OF THE ROAD IN THE RIGHT OF WAY. THE MONUMENT  
 AJ8248'LOCATION IS A CONCRETE POST SET  
 AJ8248'39.2 FEET (11.95 M) SOUTHWEST OF THE EAST GATE POST OF THE WESTERN  
 AJ8248'MOST ENTRANCE OF A NURSERY  
 AJ8248'AT 8775 SW KANNER ROAD (STATE ROAD 76).  
 AJ8248'  
 AJ8248'THE MONUMENT IS 48.6 FEET (14.81 M) NORTH OF THE CENTERLINE OF THE  
 AJ8248'ROAD, 37.0 FEET (11.28 M) SOUTH OF  
 AJ8248'A POWER POLE WITH GUY WIRE ON THE WEST SIDE OF ENTRANCE GATE AND 85.8  
 AJ8248'FEET (26.15 M) WEST OF THE  
 AJ8248'WEST END OF A DRIVEWAY CULVERT (8775 SW KANNER ROAD (STATE ROAD 76)).  
 AJ8248'NOTE A MAGNET WAS BURIED  
 AJ8248'NEARBY AT AN UNSPECIFIED POSITION.  
 AJ8248'  
 AJ8248  
 AJ8248 STATION RECOVERY (2002)  
 AJ8248  
 AJ8248'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

# DATASHEETS

AJ8248'THE MONUMENT IS LOCATED 5.0 MILES (8.05 KM) EAST OF INDIANTOWN, FL.  
AJ8248'AND 8.9 MILES (14.32 KM)  
AJ8248'WEST OF THE  
AJ8248'I-95 AND STATE ROAD 76 INTERCHANGE SOUTHWEST OF STUART, FL., SECTION  
AJ8248'31, TOWNSHIP 39  
AJ8248'SOUTH,  
AJ8248'RANGE 40 EAST.  
AJ8248'  
AJ8248'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.  
AJ8248'  
AJ8248'TO REACH MONUMENT FROM THE JUNCTION OF THE STATE ROAD 710 RAMP AND  
AJ8248'STATE ROAD 76 IN  
AJ8248'INDIANTOWN, GO EAST 5.0 MILES (8.05 KM) ALONG STATE ROAD 76 TO THE  
AJ8248'MONUMENT LOCATION ON  
AJ8248'THE  
AJ8248'NORTH (LEFT) SIDE OF THE ROAD IN THE RIGHT OF WAY. THE MONUMENT  
AJ8248'LOCATION IS A CONCRETE  
AJ8248'POST SET  
AJ8248'39.2 FEET (11.95 M) SOUTHWEST OF THE EAST GATE POST OF THE WESTERN  
AJ8248'MOST ENTRANCE OF A  
AJ8248'NURSERY  
AJ8248'AT 8775 SW KANNER ROAD (STATE ROAD 76).  
AJ8248'  
AJ8248'THE MONUMENT IS 48.6 FEET (14.81 M) NORTH OF THE CENTERLINE OF THE  
AJ8248'ROAD, 37.0 FEET (11.28 M)  
AJ8248'SOUTH OF  
AJ8248'A POWER POLE WITH GUY WIRE ON THE WEST SIDE OF ENTRANCE GATE AND 85.8  
AJ8248'FEET (26.15 M)  
AJ8248'WEST OF THE  
AJ8248'WEST END OF A DRIVEWAY CULVERT (8775 SW KANNER ROAD (STATE ROAD 76)).  
AJ8248'NOTE A MAGNET WAS  
AJ8248'BURIED  
AJ8248'NEARBY AT AN UNSPECIFIED POSITION.  
AJ8248'  
AJ8248'STATION RECOVERY (2002)  
AJ8248'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)  
AJ8248'RECOVERED AS DESCRIBED.  
AJ8248'  
AJ8248'

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



**LEVEL RUN**

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-88	NOTES
	<b>NGS BM</b>	6.82							
<b>01/05/06</b>	<b>AJ8247</b>	4.91	4.91	29.78				<b>24.87</b>	
	<b>(M522)</b>	3.00							
					5.06				
<b>(FB 2564, PG 16...)</b>	<b>TP#1</b>				2.99	2.99	<b>26.80</b>		
					0.91				
		6.70							
	<b>SHAKE</b>	4.40	4.40	31.20					
		2.10							
					6.83				
	<b>TP#2</b>				4.63	4.63	<b>26.57</b>		
					2.43				
		6.88							
	<b>SHAKE</b>	4.86	4.86	31.42					
		2.83							
					6.27				
	<b>TP#3</b>				4.33	4.33	<b>27.10</b>		
					2.38				
		6.51							
	<b>SHAKE</b>	4.68	4.68	31.77					
		2.84							
					6.40				
	<b>TP#4</b>				4.65	4.65	<b>27.12</b>		
					2.90				
		7.38							
	<b>SHAKE</b>	4.60	4.60	31.72					
		1.82							
					7.38				
	<b>TP#5</b>				4.98	4.98	<b>26.74</b>		
					2.58				
		9.24							
	<b>SHAKE</b>	6.61	6.61	33.35					
		3.99							
					2.11				
	<b>TP#6</b>				1.10	1.10	<b>32.25</b>		
					0.09				
		8.68							
	<b>SHAKE</b>	8.00	8.00	40.25					
		7.32							
					11.78				
	<b>TP#7</b>				9.95	9.95	<b>30.30</b>		
					8.12				
		7.14							
	<b>SHAKE</b>	5.04	5.04	35.34					
		2.94							
					4.30				
	<b>TP#8</b>				2.28	2.28	<b>33.06</b>		
					0.26				

**LEVEL RUN**

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-88	NOTES
		7.58							
	SHAKE	5.88	5.88	38.94					
		4.17							
	TP#9				6.67				
					5.09	5.09	33.85		
					3.51				
	SHAKE	6.85							
		5.31	5.31	39.15					
		3.76							
	TBM#1				5.15				
					4.97	4.97	34.18		
					4.79				
	SHAKE	4.94							
		4.76	4.76	38.94					
		4.58							
	TBM#2				4.89				
					4.72	4.72	34.22		
					4.56				
	SHAKE	5.70							
		5.19	5.19	39.41					
		4.67							
	TP#10				6.76				
					5.57	5.57	33.84		
					4.38				
	SHAKE	6.34							
		4.77	4.77	38.61					
		3.20							
	TP#11				7.25				
					5.56	5.56	33.05		
					3.86				
	SHAKE	4.21							
		2.19	2.19	35.24					
		0.17							
	TP#12				7.04				
					4.96	4.96	30.29		
					2.87				
	SHAKE	10.67							
		8.77	8.77	39.06					
		6.87							
	TP#13				7.43				
					6.82	6.82	32.24		
					6.21				
	SHAKE	2.25							
		1.23	1.23	33.47					
		0.21							
	TP#14				8.41				
					6.49	6.49	26.98		
					4.57				
	SHAKE	5.96							
		4.54	4.54	31.52					
		3.11							

**LEVEL RUN**

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-88	NOTES
					5.75				
	TP#15				4.32	4.32	27.20		
					2.89				
		5.42							
	SHAKE	4.62	4.62	31.81					
		3.81							
	NGS BM				6.86				ERROR
	AJ8246				5.83	5.83	25.98	25.96	-0.02
	(L522)				4.80				
		4.32							
	TBM#1	4.07	4.07	38.25				34.18	
		3.81							
	WELL				6.30				TOP OF PIPE
	M1244				5.94	5.94	32.31		WELL
					5.58				M 1244
		5.92							
	SHAKE	5.56	5.56	37.86					
		5.19							
	WELL				4.82				TOP OF PIPE
	M1245				4.49	4.49	33.38		WELL
					4.15				M 1245
		5.28							
	SHAKE	4.95	4.95	38.33					
		4.62							
	DISK				4.98				SET SFWMD
	M1244				4.68	4.68	33.65		DISK STAMPED
					4.37				M 1244 2006
		4.56							
	SHAKE	4.26	4.26	37.91					
		3.95							
01/05/06					3.91				ERROR
(FB 2564, PG 20)	TBM#2				3.69	3.69	34.22	34.22	0.00
					3.47				