

Identification Information:

Citation:

Citation Information:

**Mike J.
Bartholomew
Biscayne
Engineering**

Originator: Mike J. Bartholomew
Publication_Date: Unpublished material
Publication_Time: Unknown
Title: East Coast Aquifer Monitoring Wells (M1267)
Edition: 1.0
Series_Information:
Publication_Information:
Larger_Work_Citation:
Citation_Information:
Series_Information:
Publication_Information:

Description:

Purpose

Abstract: East Coast Aquifer Monitoring Wells (M1267)
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 from the intersection of Florida's Turnpike and Martin Hwy (SR-714).

Time_Period_of_Content:

Time_Period_Information:

Survey Date

Single_Date/Time:
Range_of_Dates/Times:
Beginning_Date: 20060113
Ending_Date: 20060113
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° 15' 30"
East_Bounding_Coordinate: -080° 15' 30"
North_Bounding_Coordinate: +27° 09' 47"
South_Bounding_Coordinate: +27° 09' 47"

Keywords:

Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: Well Site
Theme_Keyword: MARTIN
Theme_Keyword: M1267

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: East Coast Aquifer Monitoring Wells (M1267)
Place_Keyword: Martin County, Florida
Place_Keyword: Florida
Place_Keyword: Sec. 17 , Twp. 38S, Rge 41E

Stratum:

Temporal:

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

**Elvie Ebanks
SFWMD**

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
Postal_Code: 33406

M1267.gen

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 AJ5252 (GCY D10) and AJ5631 (B517). Vertical data was established using NGS benchmarks AJ5614 (SLR 300) and AF7129 (SLR 39). Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD88.

Completeness_Report:

Project Results

Horizontal location taken at approximate center of well.

Lat. +27°09'47.438"

Long. -080°15'30.355"

N 1029200.481

E 897290.169

New leveled elevations.

New site benchmark "M1267" is a standard S.F.W.M.D. brass disc in the concrete encasement for tape down well.

Disc elevation is 3.59' (NAVD88).

elevation is 5.04' (NGVD29)

Top of pipe elevation is 4.41' (NAVD88)

elevation is 5.86' (NGVD29)

based on NGS NAVD88 adjustment of vertical network.

Origin of NAVD88 elevation for BM "M1267" and well

"M1267" is closed bench level circuit through NGS

benchmarks AJ5614 (SLR 300) and AF7129 (SLR 39).

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 5.64 feet at benchmark AJ5614 with an

NGVD-29 value of 7.09 feet; per the NGS Adjustment of

the CERP Geodetic Vertical Control Project, as

provided by SFWMD. C equals 7.09 feet - 5.64 feet equals

1.45 feet. Well is situated North of Martin Highway

(SR-714), East of the Florida's Turnpike, within the

property of residence #3401 St. Lucie Shores Drive, Martin

County, Florida. TO REACH the well from the intersection

of Florida's Turnpike and Martin Hwy (SR-714), travel East

on Martin Hwy (SR-714) for 2.1 miles, where the road

becomes S.W. 36 St., thence continue East along S.W.

36 St. for another 0.6 miles to the intersection with St.

Lucie Shores Drive. Turn left and travel Northerly along the

curve of St. Lucie Shores Drive for 0.1 miles to residence

#3401. Well is a 2-1/2" diameter pipe. Top of well is 0.2

feet above the ground surface, and 11.9 feet (more or less)

Northeast of concrete sidewalk. Benchmark is a brass

SFWMD disc set at the end of a seawall near the

Northeast corner of the property for residence #3401,

approximately 2.3 feet Southeast of a 6' wood fence and

approximately 70.5 feet Northeast of the back of sidewalk.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal

Horizontal_Positional_Accuracy_Report:

The horizontal position of the well "M1267" was

M1267.gen

established using differential GPS. NGS points AJ5252 (GCY D10) and AJ5631 (B517) 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 AJ5614 (SLR 300) with NAVD-88 elevation, running through well and disc "M1267" and terminated on point AF7129 (SLR 39) 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 AJ5614 (SLR 300) and AF7129 (SLR 39), running through well "M1267" in accordance with Florida Minimum Technical Standards (Chapter 61g17-6, FAC).

Length of benchmark run is 2.39 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.

Process_Date: 20060216

Process_Time: 09000000

Process_Contact:

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:

Albers_Conical_Equal_Area:

Azimuthal_Equidistant:

Equidistant_Conic:

Equiangular:

General_Vertical_Near-sidereal_Perspective:

Gnomonic:

Lambert_Azimuthal_Equal_Area:

Lambert_Conformal_Conic:

Mercator:

Modified_Stereographic_for_Alaska:

Miller_Cylindrical:

Oblique_Mercator:

Oblique_Line_Point:

Orthographic:

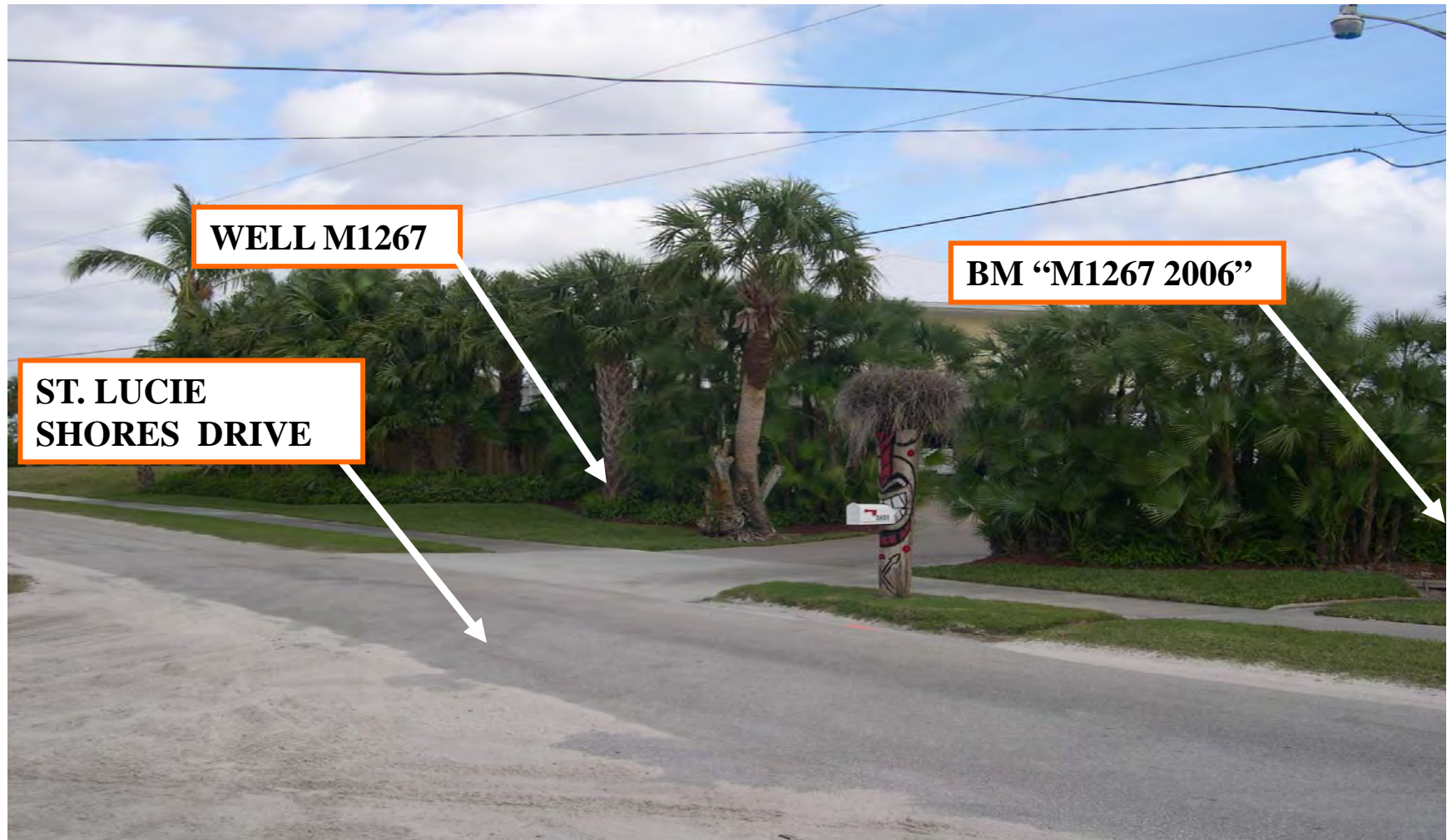
Polar_Stereographic:

Polynomial:

M1267.gen
 Robi nson:
 Si nusoi dal :
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 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:
 Di stri buti on_I nformati on:
 Di stri butor:
 Contact_I nformati on:
 Contact_Person_Pri mary:
 Contact_Organi zati on_Pri mary:
 Contact_Address:
 Standard_Order_Process:
 Di gi tal _Form:
 Di gi tal _Transfer_I nformati on:
 Di gi tal _Transfer_Opti on:
 Onl i ne_Opti on:
 Computer_Contact_I nformati on:
 Network_Address:
 Di al up_I nstructi ons:
 OffLi ne_Opti on:
 Recordi ng_Capaci ty:
 Avai l abl e_Ti me_Period:
 Ti me_Period_I nformati on:
 Si ngl e_Date/Ti me:
 Range_of_Dates/Ti mes:
 Mul ti pl e_Dates/Ti mes:
 Metadata_Reference_I nformati on:
 Metadata_Date: 20060216
 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, I nc.
 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

M1267.gen
City: Miami
State_or_Province: FL
Postal_Code: 33130
Country: USA
Contact_Voice_Telephone: (305) 324-7671
Contact_Facsimile_Telephone: (305) 324-0809
Contact_Electronic_Mail_Address: mikel@biscayneengineering.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-1267

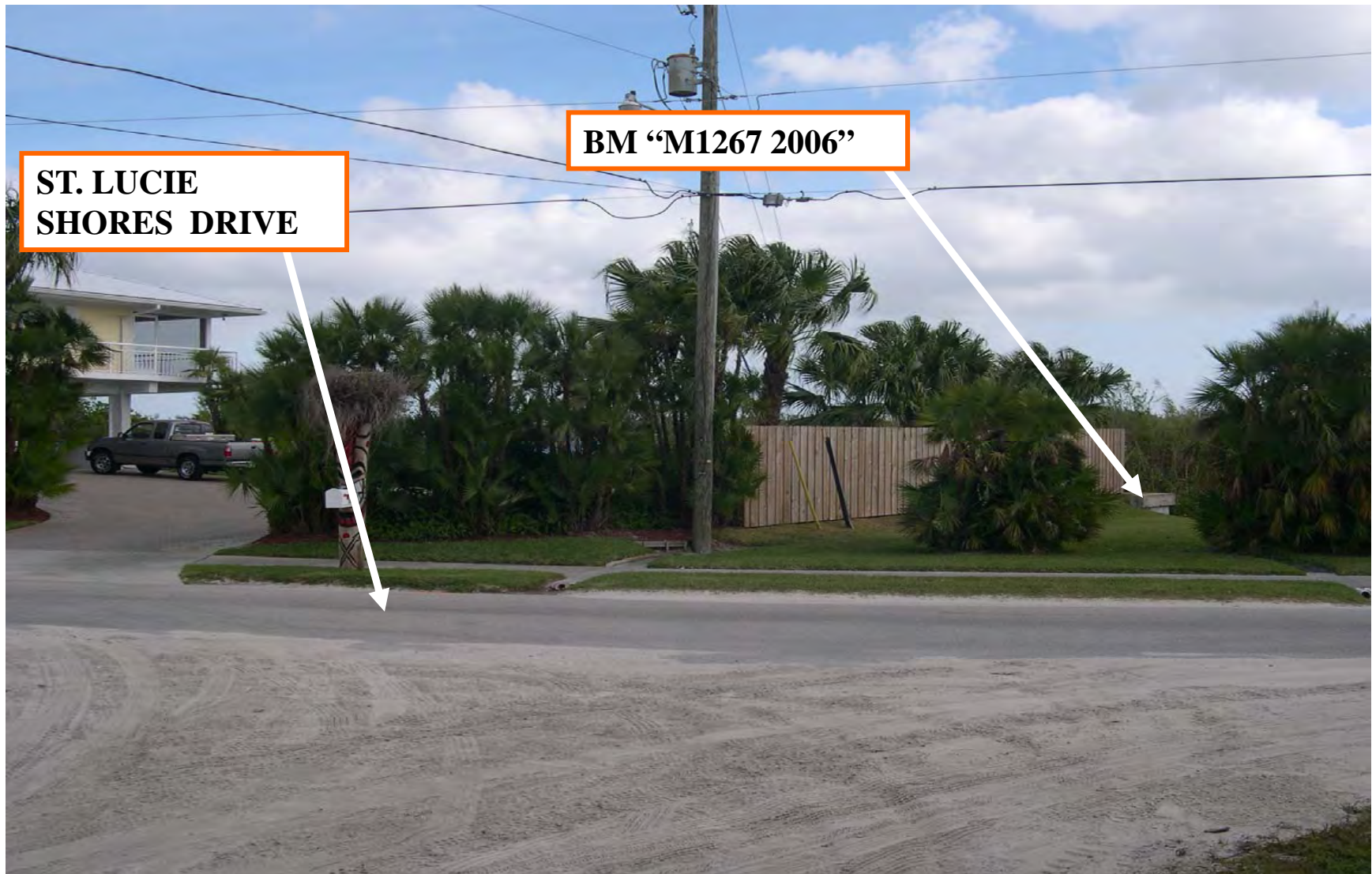


Biscayne Engineering Company, Inc.

Date of Photo: 01-15-06

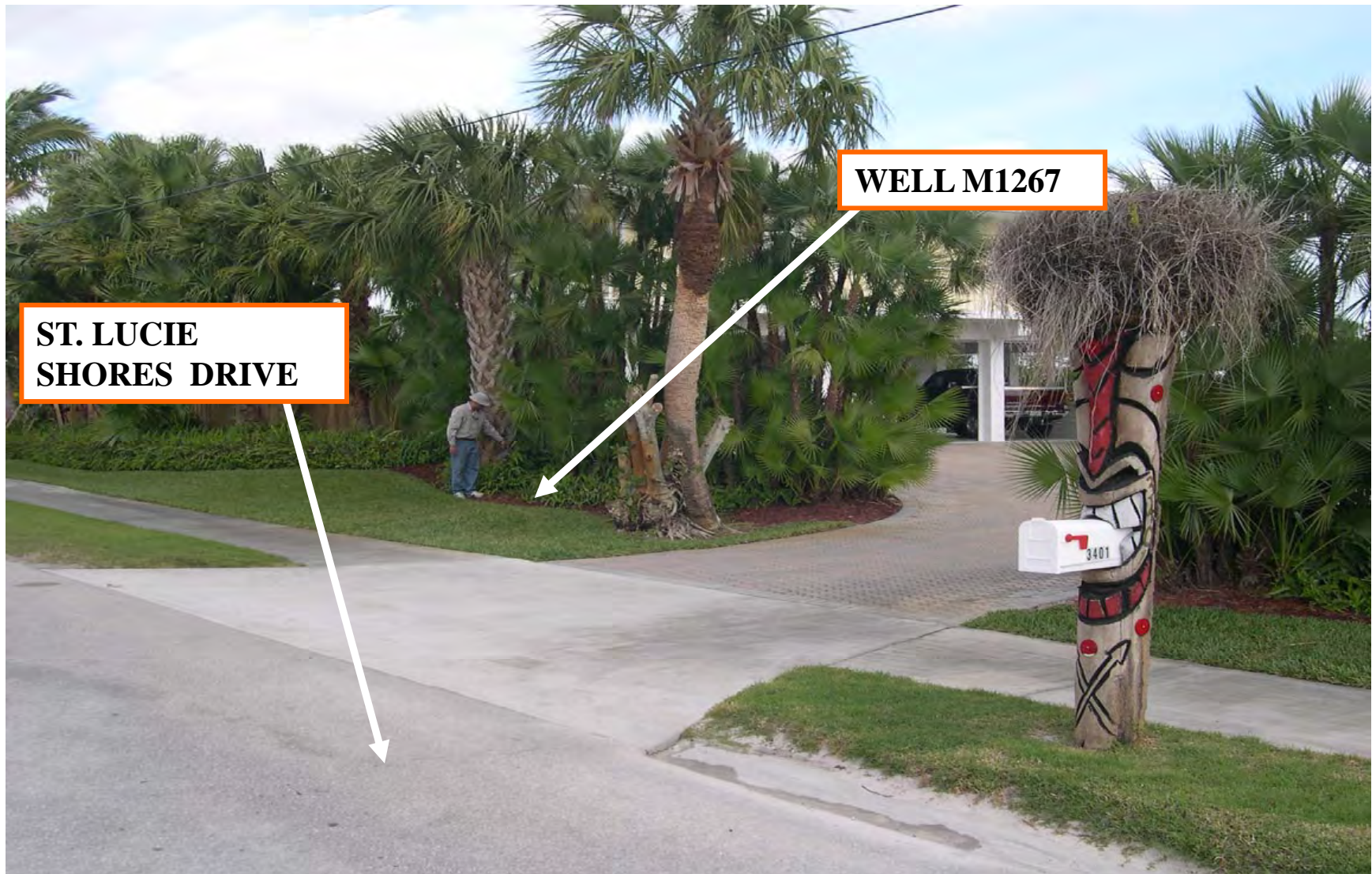
View: Looking North. BM "M1267 2006", Well "M1267"

M-1267



Biscayne Engineering Company, Inc.
Date of Photo: 01-15-06
View: Looking North. BM "M1267 2006".

M-1267



**ST. LUCIE
SHORES DRIVE**

WELL M1267

**Biscayne Engineering Company, Inc.
Date of Photo: 01-15-06
View: Looking North. Front of driveway for residence #3401.**

M-1267



Biscayne Engineering Company, Inc.
Date of Photo: 01-15-06
View: Well M-1267

M-1267



WELL M1267

Top of Pipe Elev. =

4.41' (NAVD-88)

5.86' (NGVD-29)

Biscayne Engineering Company, Inc.
Date of Photo: 01-15-06
View: Well M-1267

M-1267



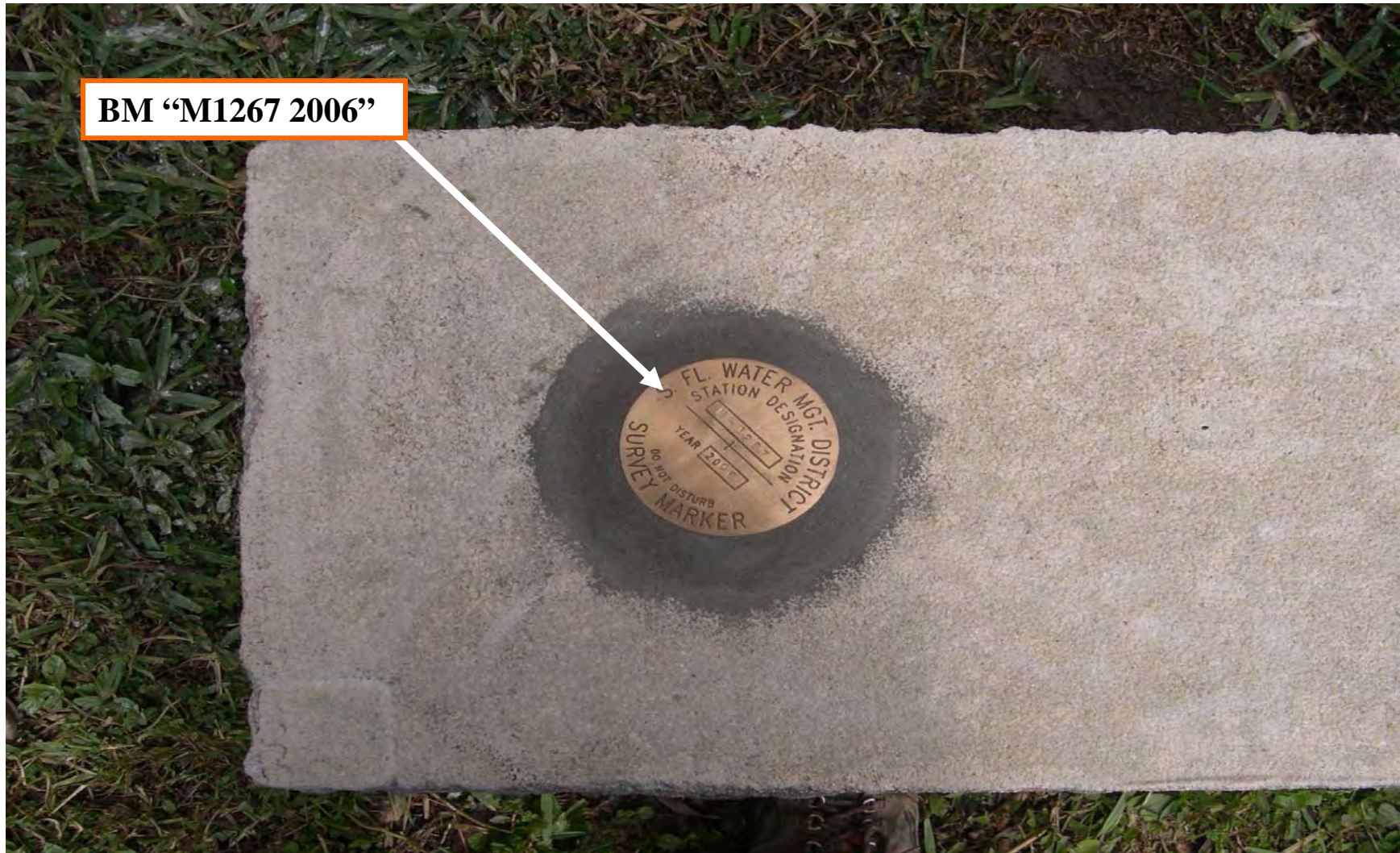
Biscayne Engineering Company, Inc.
Date of Photo: 01-15-06
View: Looking Northeast. BM "M1267 2006"

M-1267



**Biscayne Engineering Company, Inc.
Date of Photo: 01-15-06
View: Looking North. BM "M1267 2006"**

M-1267



Biscayne Engineering Company, Inc.
Date of Photo: 01-15-06
View: BM "M1267 2006".

M-1267

BM "M1267 2006"

Elev. =3.59' (NAVD-88)

Elev. =5.04' (NGVD-29)



Biscayne Engineering Company, Inc.

Date of Photo: 01-15-06

View: Benchmark "M1267 2006"

M-1267

BM "M1267 2006"

Elev. =3.59' (NAVD-88)

Elev. =5.04' (NGVD-29)



Biscayne Engineering Company, Inc.
Date of Photo: 01-15-06
View: Benchmark "M1267 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 I. IN CONC. MON.
STAMPED A 522 2001 CERP

CUT NL

CUT NL

CUT NL

CUT NL

MAG NL $\frac{1}{2}$ W

MAG NL $\frac{1}{2}$ W

REBAR

2564/01

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

12/30/05

"SITE-K"
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	ELEV	DESC	
	10.860							
SHAKE	10.600	10.600	35.110				REBAR	
	10.540							
				0.805				
TP#5				0.620	0.620	34.490	✓	WOODEN STAKE
				0.435				
	4.950							
SHAKE	3.465	3.465	37.955				✓	WOODEN STAKE
	1.980							
				14.390				
TP#6				12.470	12.470	25.485	✓	80 D SPIKE
				10.550				
	6.370							
SHAKE	4.120	4.120	29.605				✓	80 D SPIKE
	1.870							
				6.610				
TP#7				4.730	4.730	24.875	✓	80 D SPIKE
				2.850				
	6.340							
SHAKE	5.190	5.190	30.065				✓	80 D SPIKE
	4.040							
				6.030				
TP#8				4.120	4.120	25.945	✓	80 D SPIKE
				2.210				
	7.135							
SHAKE	5.035	5.035	30.980				✓	80 D SPIKE
	2.935							

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
				7.330					
TP# 9				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	✓	
				3.875				
	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

ASAME
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
				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
J.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
				6.110			
TP#25				4.220	4.220	24.820	✓
				2.330			
	5.755						
SHAKE	3.835	3.835	28.655	✓			CUT NL
	1.915						
				5.950			
TP#26				3.870	3.870	24.785	✓
				1.790			
	6.170						
SHAKE	3.835	3.835	28.620	✓			CUT NL
	1.500						
				5.410			
TP#27				3.590	3.590	25.030	✓
				1.770			
	6.430						
SHAKE	4.520	4.520	29.550	✓			CUT NL
	2.610						
				8.880			
BM				6.820	6.820	22.730	✓
				4.760			

ERR = 0.000

DESC

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

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

SAME
CREW

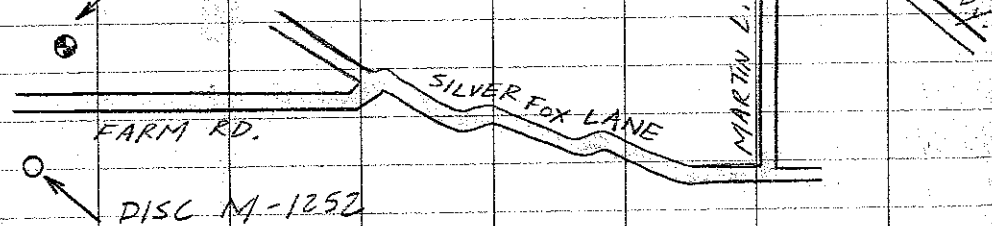
#03-77616
S.F.W.M.D

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.

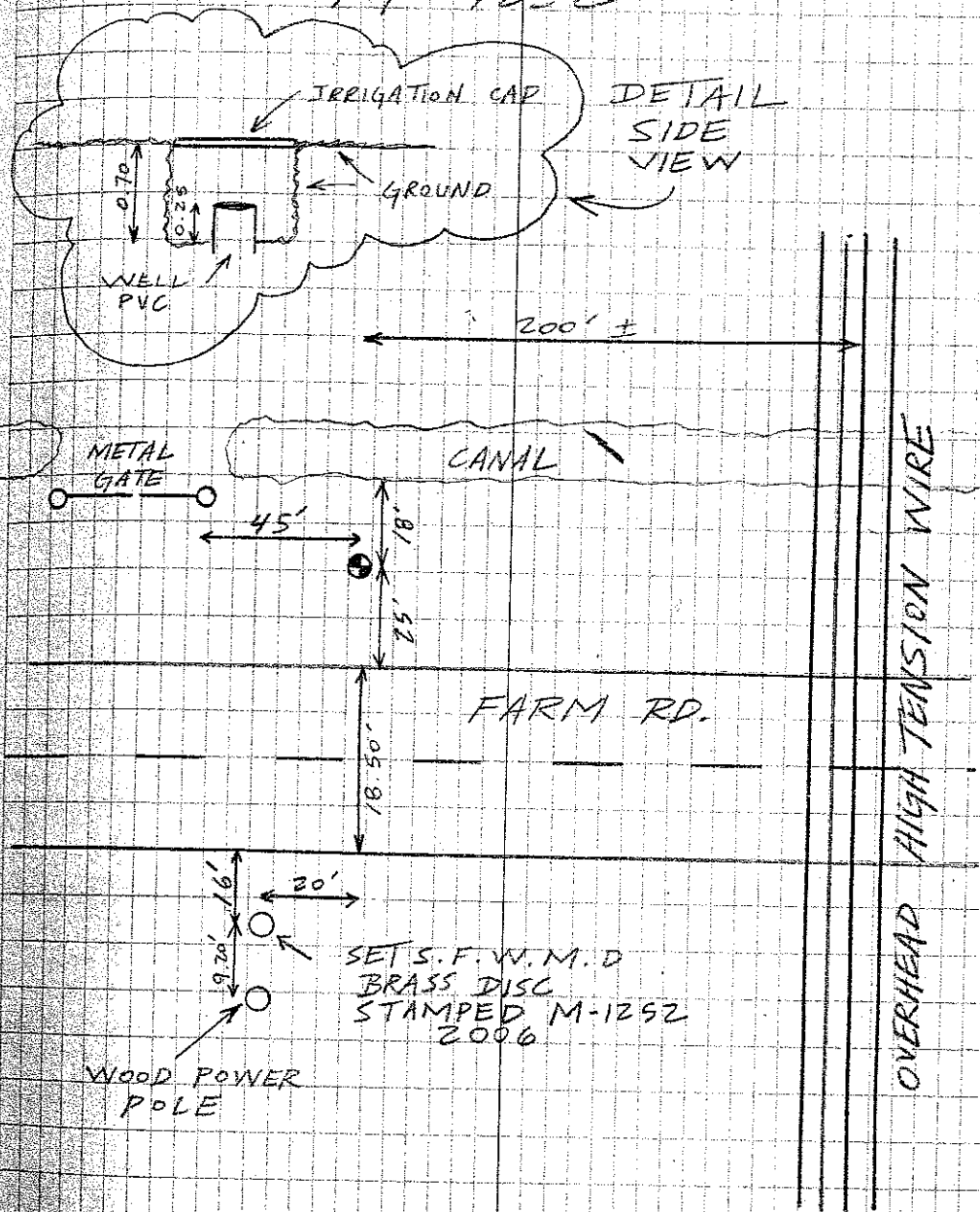
WELL M-1252



DISC M-1252

2564/08

SKETCH OF WELL SITE
M-1252



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	BM ELEV
	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 # AJ824Z (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)

BM

STA	BS	MEAN	HI	FS	MEAN ELEV	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
 C. B. SALAZAR
 A. FERNANDEZ
 1/14/06

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

"SITE - L"
 (ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	ELEV	DESC
				6.840			
WELL 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 M-1085				5.035	5.035	25.135	✓ SET S.F.W.M.D DISC STAMPED M-1085 2006
				3.370			
	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. SAME
CL CREW

#03-77616

S.F.W.M.D

1/4/06

"SITE - L"

(ELEV. CONT)

BM

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

SAME

#03-77616

CREVY

S.F.W.M.D.

1/4/06

"SITE - L"

(ELEV. CONT)

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

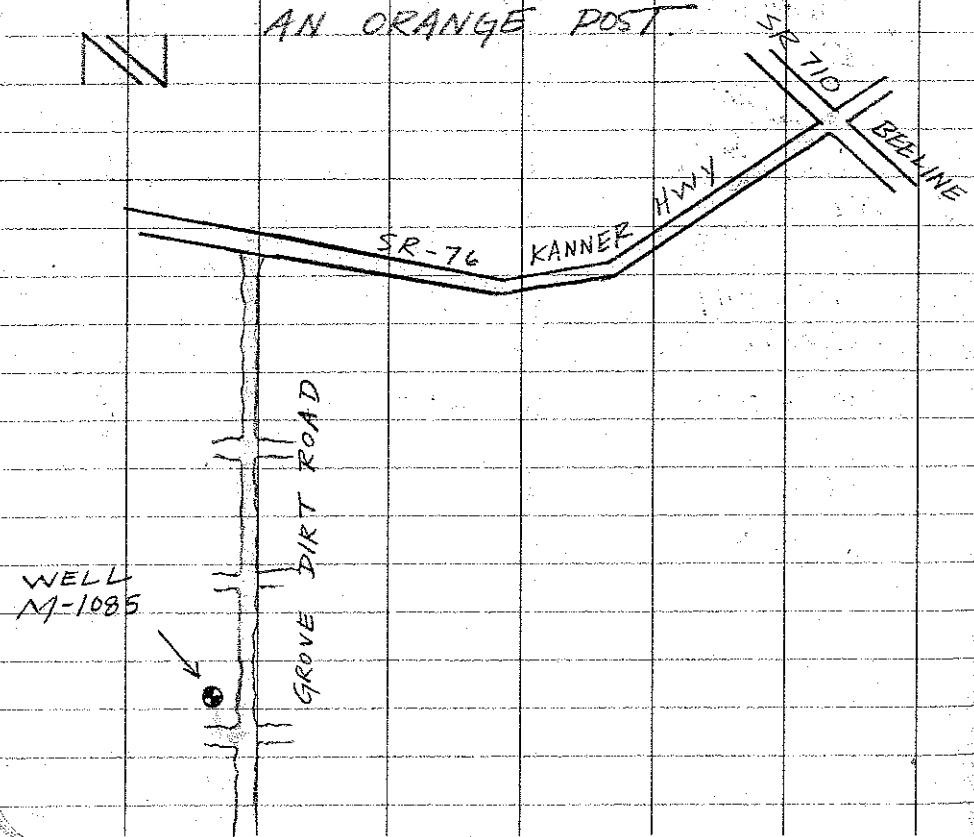
SAME
CREW

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

1/4/06

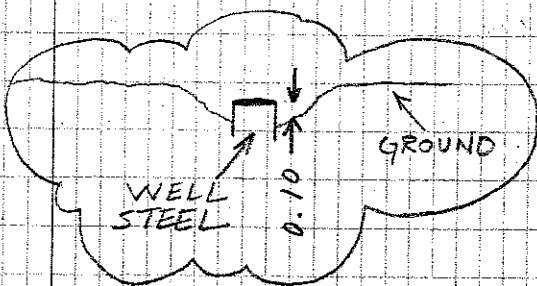
(SITE - L
DESCRIPTION)

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

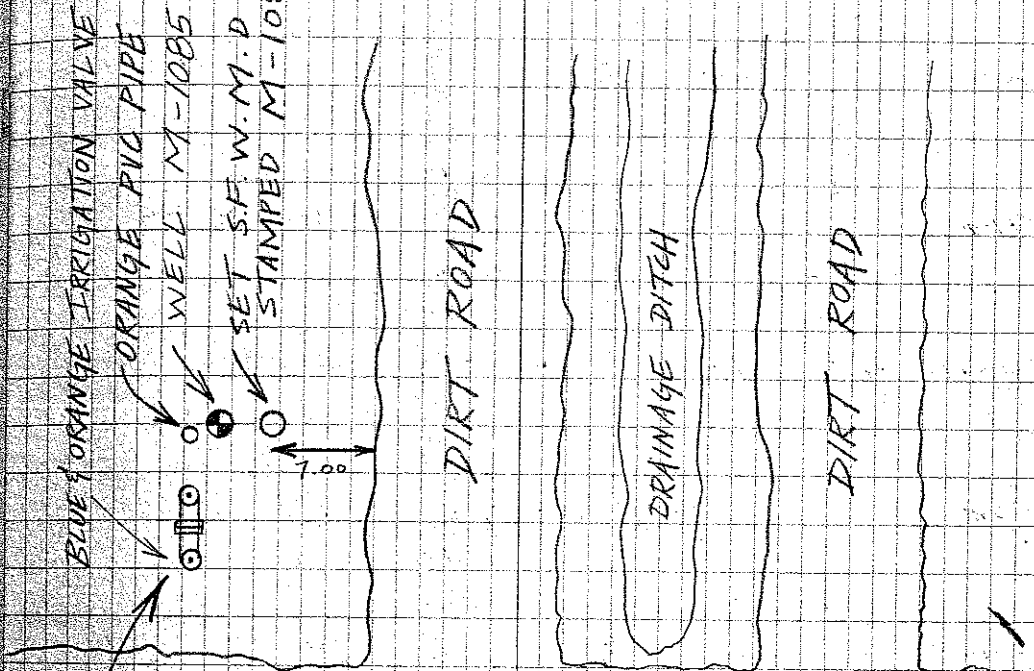


2564/15
SKETCH OF WELL SITE M-1085

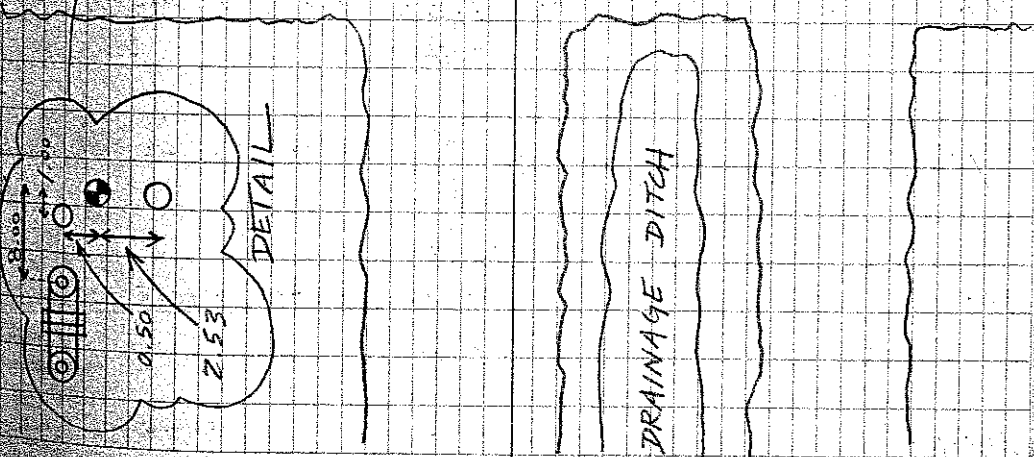
SIDE
VIEW
DETAIL



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



DIRT ROAD



A. PEDERO
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
	6.920				✓
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 88

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
				7.380				
TP#5				4.980	4.980	26.740	✓	CUT NL & TT
				2.580				
	9.240							
SHAKE	6.610	6.615	33.355	✓				CUT NL & TT
	3.990							
				2.110				
TP#6				1.100	1.100	32.355	✓	80 D SPK
				0.09				
	8.680							
SHAKE	8.000	8.000	40.255	✓				80 D SPK
	7.320							
				11.780				
TP#7				9.950	9.950	30.305	✓	CUT NL & TT
				8.120				
	7.140							
SHAKE	5.040	5.040	35.345	✓				CUT NL & TT
	2.940							
				4.300				
TP#8				2.280	2.280	33.065	✓	CUT NL & TT
				0.260				
	7.580							
SHAKE	5.875	5.875	38.940	✓				CUT NL & TT
	4.170							
				6.670				
TP#9				5.090	5.090	33.850	✓	CUT NL & TT
				3.510				

SAME #03-77616
CREW 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			5.150				
TBM#1				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			4.885				
TBM#2				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			6.760				
TP#10				5.570	5.570	33.840	✓	CUT NL & TT
				4.380				
	6.340							
SHAKE	4.770	4.770	38.610	✓				CUT NL & TT
	3.200			7.250				
TP#11				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
TP#12				7.040 4.955 2.870	4.955	30.29	✓	
SHAKE	10.670 8.770 6.870	8.770	39.060	✓				
TP#13				7.425 6.815 6.205	6.815	32.245	✓	
SHAKE	2.250 1.230 0.210	1.230	33.475	✓				
TP#14				8.410 6.490 4.570	6.490	26.985	✓	
SHAKE	5.960 4.535 3.110	4.535	31.520	✓				
TP#15				5.750 4.320 2.890	4.320	27.200	✓	
SHAKE	5.420 4.615 3.810	4.615	31.815	✓				
BM				6.860 5.830 4.800	5.830	25.985	✓	✓

ERR = 0.025

DESC

CUT NL & TT

CUT NL & TT

80 D SPIKE

80 D SPIKE

CUT NL

CUT NL

CUT NL

CUT NL

NGS # AJ 8296 (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	4.065	38.250	↓			34.185
	3.810						
WELL M-1244				6.300			
				5.940	5.940	32.310	↓
				5.580			
	5.920						
SHAKE	5.555	5.555	37.865	↓			
	5.190						
WELL M-1245				4.820			
				4.485	4.485	33.385	↓
				4.150			
	5.280						
SHAKE	4.950	4.950	38.330	↓			
	4.620						
DISC M-1244				4.980			
				4.675	4.675	33.655	↓
				4.370			
	4.560						
SHAKE	4.255	4.255	37.910	↓			
	3.950						
				3.905			
TBM#2				3.685	3.685	34.225	34.225
				3.465			

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

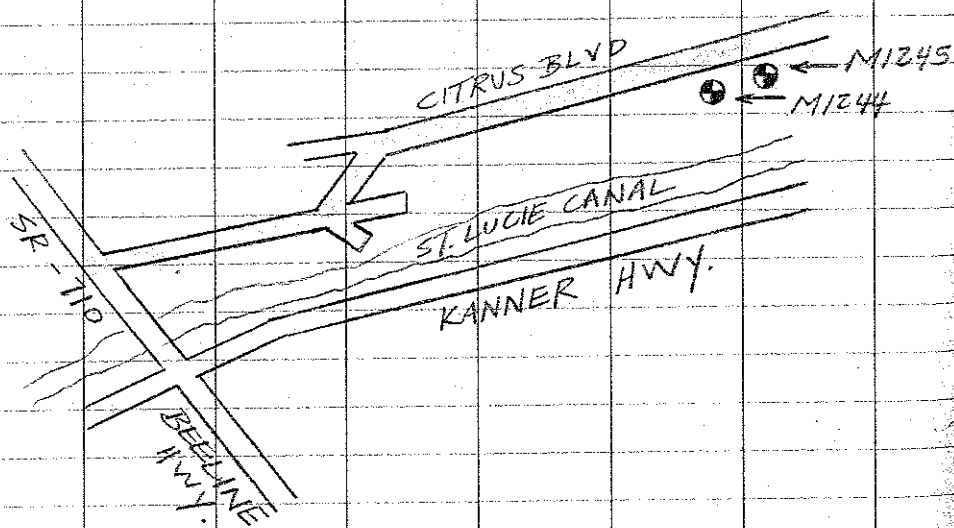
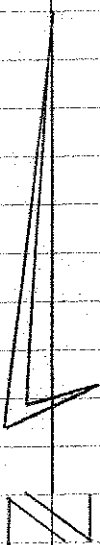
SAME
CREW

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

1/5/06

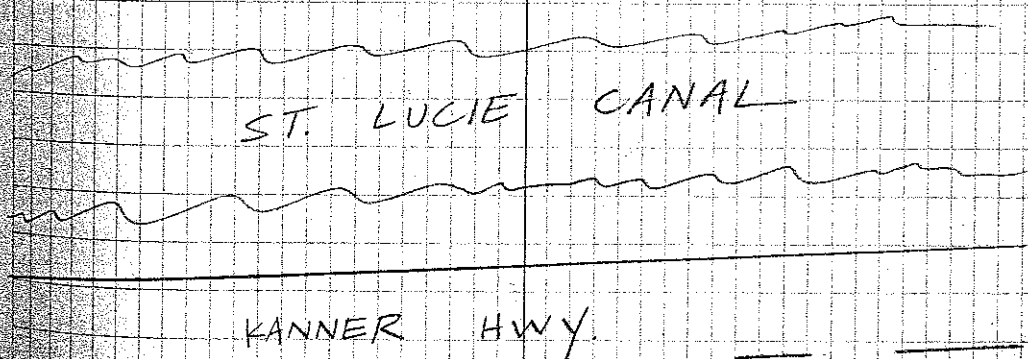
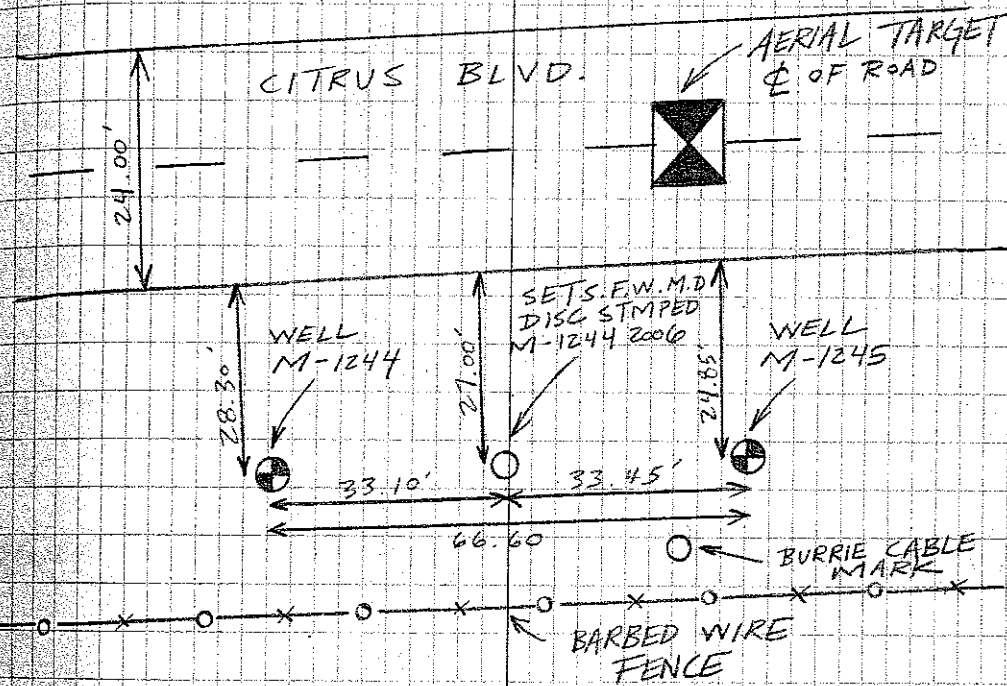
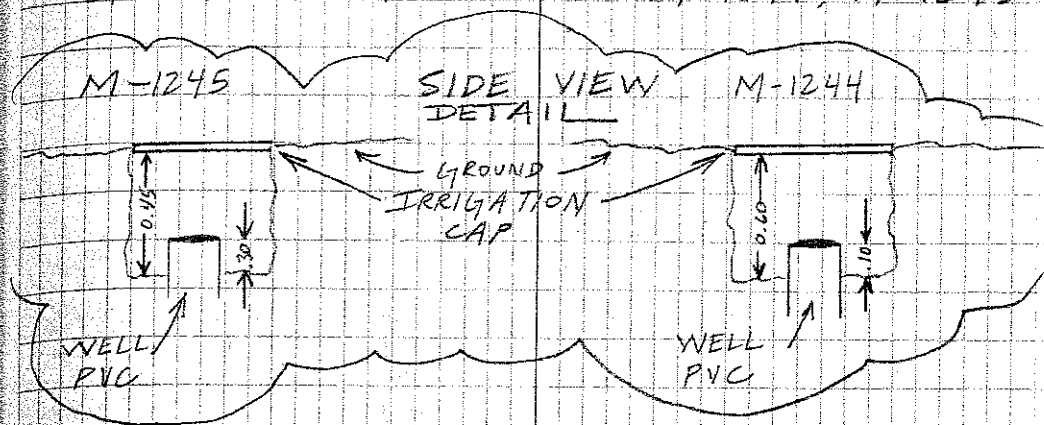
(SITE-M
DESCRIPTION)

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	HI	FS	MEAN ELEV.	BM ELEV	DESC
	6.910						
BM	5.425	5.425	29.305	↓		23.88	NGS# AJ5250 (GCOY DOB) NAVD 88 BRASS I. IN CONC. MON. STAMPED GCOY 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				6.740			
				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
				3.236				
	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	ELEV	BM	DESC
	6.680								
SHAKE	4.845 3.010	4.845	29.645	✓					CUT NL
TP#8				6.510 4.920 3.330	4.920	24.725	✓		CUT NL
SHAKE	6.420 4.810 3.200	4.810	29.535	✓					CUT NL
TP#9				8.020 5.430 2.840	5.430	24.105	✓		CUT NL
SHAKE	4.840 2.920 1.000	2.920	27.025	✓					CUT NL
TP#10				6.710 4.970 3.230	4.970	22.055	✓		CUT NL
SHAKE	8.410 6.430 4.450	6.430	28.485	✓					CUT NL
TP#11				7.200 4.880 2.560	4.880	23.605	✓		CUT NL
SHAKE	6.375 4.415 2.455	4.415	28.020	✓					CUT NL

SAME #03-77616
CREW 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 2.050	4.190	23.830	✓	CUT NL
	6.970							
SHAKE	5.330 3.690	5.330	29.160	✓				CUT NL
				6.890				
TP#13				5.080 3.270	5.080	24.080	✓	CUT NL
	7.150							
SHAKE	5.290 3.430	5.290	29.370	✓				CUT NL
				6.650				
TP#14				4.530 2.410	4.530	24.840	✓	CUT NL
	7.180							
SHAKE	4.760 2.340	4.760	29.600	✓				CUT NL
				6.880				
TP#15				4.605 2.330	4.605	24.995	✓	CUT NL
	6.190							
SHAKE	4.100 2.010	4.100	29.095	✓				CUT NL

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
			6.560			
TP#16			4.570	4.570	24.525 ✓	CUT NL
			2.590			
	6.255					
SHAKE	4.535	4.535	29.060 ✓			CUT NL
	2.815					
			7.175			
BM			6.565	6.565	22.495 ✓	
			5.955		22.48 ✓	

ERR = 0.015 ✓

NGS # AJ 5627 (X 516) NAVD 88
BRASS I.D. IN CONC. MON.
STAMPED X 516 2001

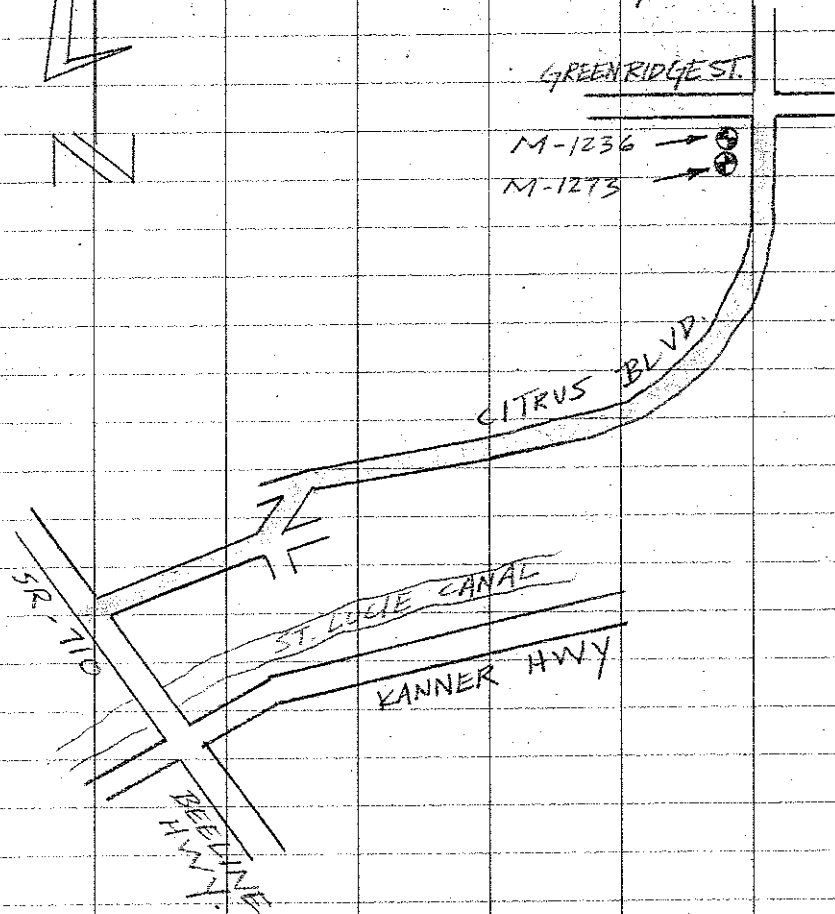
SAME
CREW

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

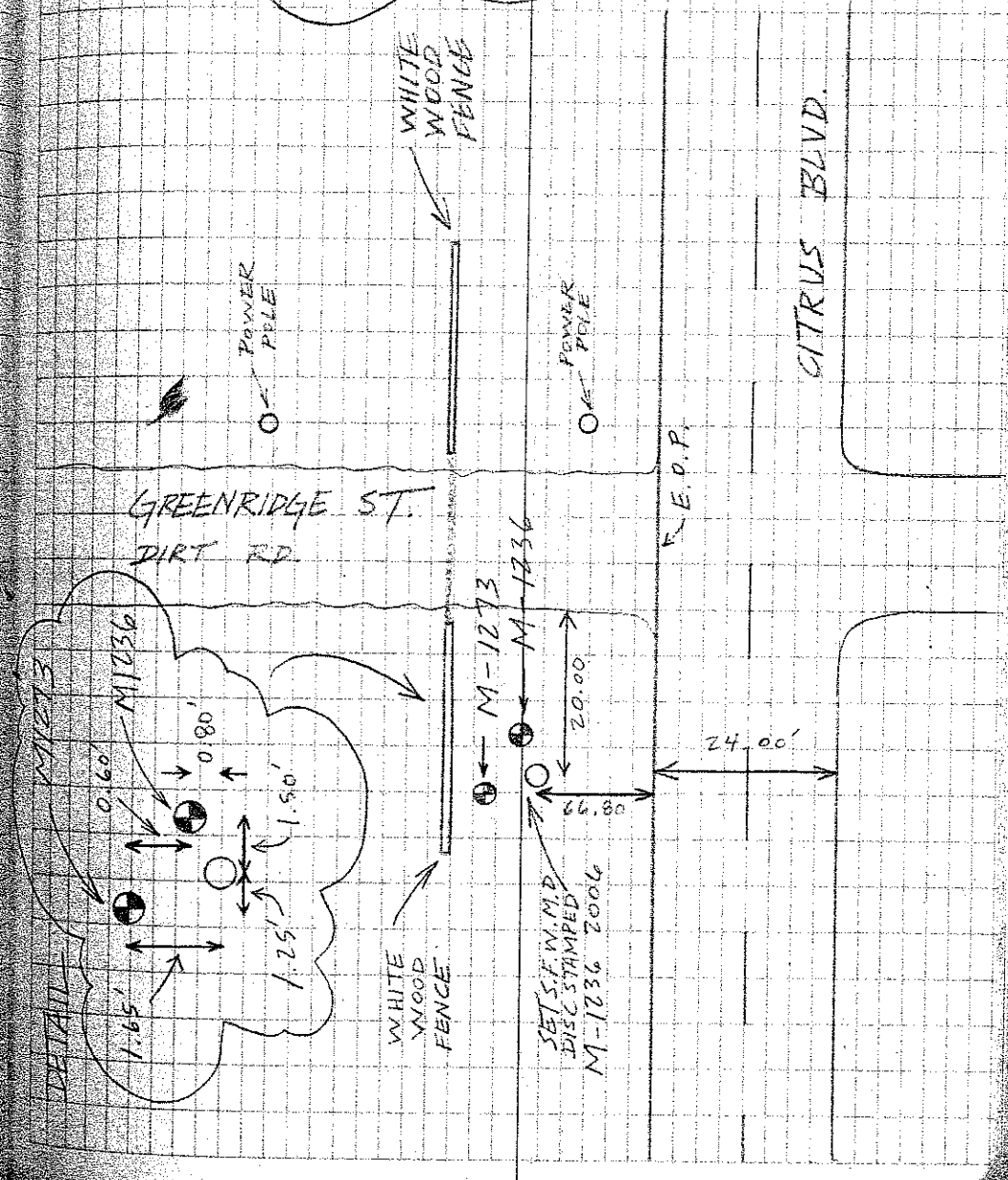
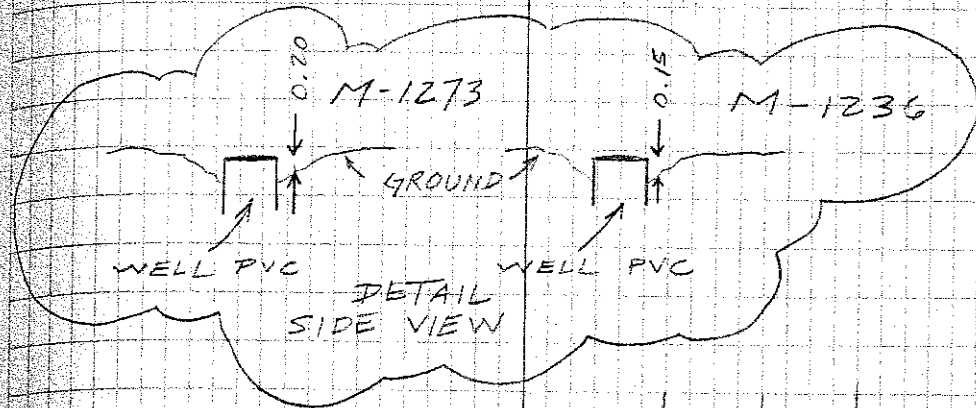
1/5/06

(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	BS	MEAN HI	FS	MEAN ELEV	BM ELEV
	8.640				
BM	7.180	7.180	28.480 ✓		21.30 ✓
	5.720				
DISC			10.050		
M-1274			7.910	7.910	20.570 ✓
			5.770		
	9.420				
SHAKE	7.580	7.580	28.150 ✓		
	5.740				
WELL			8.420		
M-1274			7.110	7.110	21.040 ✓
			5.800		
	8.260				
SHAKE	7.025	7.025	28.065 ✓		
	5.790				
TP #1			2.890		
			1.680	1.680	26.385 ✓
			0.470		
	12.590				
SHAKE	11.725	11.725	38.110 ✓		
	10.860				
TP #2			1.285		
			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	BM ELEV
	12.480					
SHAKE	11.710	11.710	49.065	✓		
	10.940					
				2.790		
TP#3				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 ✓
				1.230		52.19 ✓

ERR = 0.015 ✓

DESC

CUT NL

CUT NL

CUT NL

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

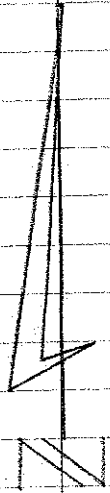
SAME
CREW.

1/11/06

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

(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.



SR-714 MARTIN HWY.

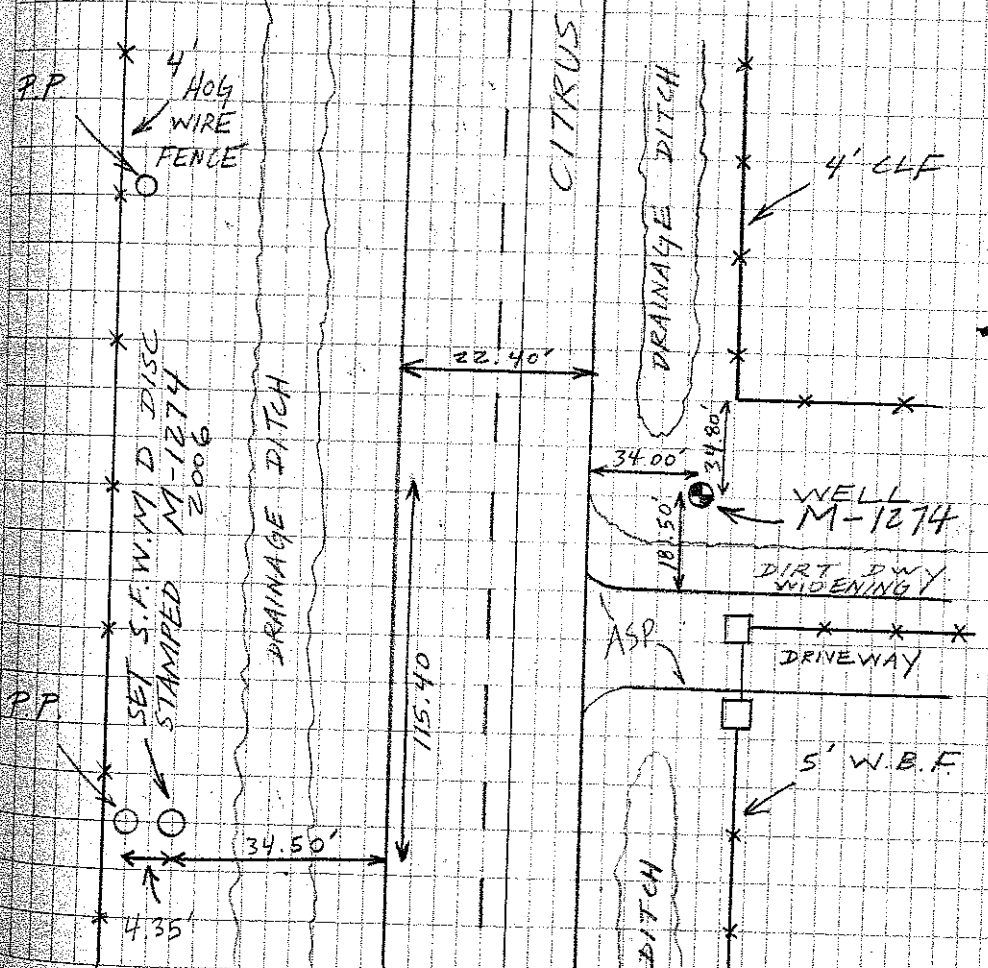
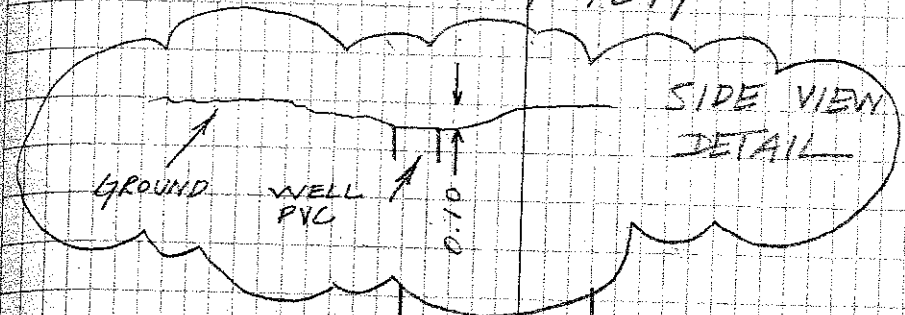
I-95

CITRUS BLVD. SR-76A

WELL
M-1274



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							

IESC
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	BM ELEV	DESC
TP#5				7.060 4.955 2.850	4.955	30.450	✓	CUT NL
SHAKE	6.810 4.455 2.100	4.455	34.905				✓	CUT NL
TP#6				6.635 4.555 2.475	4.555	30.350	✓	CUT NL
SHAKE	6.730 4.695 2.660	4.695	35.045				✓	CUT NL
TP#7				6.700 4.650 2.600	4.650	30.395	✓	CUT NL
SHAKE	6.720 4.665 2.610	4.665	35.060				✓	CUT NL
TP#8				6.570 4.770 2.970	4.770	30.290	✓	CUT NL
SHAKE	7.430 5.620 3.810	5.620	35.910				✓	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.	BM	DESC
DISC M-1037			8.910 7.370 5.830	7.370	29.540	✓	SET S.F.W.M.D DISC STAMPED M-1037 2006
SHAKE	6.440 5.285 4.130	5.285	33.825	✓			"
WELL M-1037			6.030 4.640 3.250	4.640	29.185	✓	TOP OF PIPE WELL M-1037 "PVC"
SHAKE	7.320 5.525 3.730	5.525	34.710	✓			"
TP#9			6.230 4.420 2.610	4.420	30.290	✓	CUT NL
SHAKE	6.540 4.740 2.940	4.74	35.030	✓			CUT NL
TP#10			6.690 4.635 2.580	4.635	30.395	✓	CUT NL
SHAKE	6.610 4.560 2.510	4.560	34.955	✓			CUT NL
TP#11			6.630 4.600 2.570	4.600	30.355	✓	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	BM ELEV	DESC
	6.555					
SHAKE	4.475 2.395	4.475	34.830 ✓			CUT NL
TP#12			6.730 4.380 2.030	4.380	30.450 ✓	CUT NL
SHAKE	6.890 4.780 2.670	4.780	35.230 ✓			CUT NL
TP#13			7.200 4.785 2.370	4.785	30.445 ✓	CUT NL
SHAKE	7.655 5.045 2.435	5.045	35.490 ✓			CUT NL
TP#14			7.100 4.950 2.800	4.950	30.540 ✓	CUT NL
SHAKE	6.385 4.315 2.245	4.315	34.855 ✓			CUT NL
TP#15			6.400 4.050 1.700	4.050	30.805 ✓	CUT NL
SHAKE	6.690 4.980 3.270	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"

(ELEV. CONT)

1/12/06

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

I 95 85 A06 RM1

NGS # AF 715B. (A 0%) NAVD 88
FOOT BRASS D. IN CONC GUARDRAIL
STAMPED I 95 85 A06 RM 1

SAME
CREW

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

1/10/06

(SITE - P
DESCRIPTION)

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

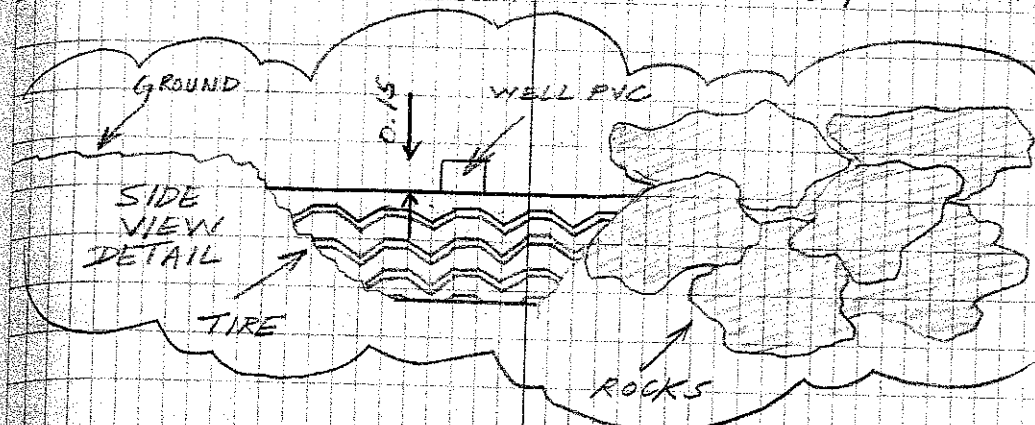
N

SR-714 MARTIN HWY

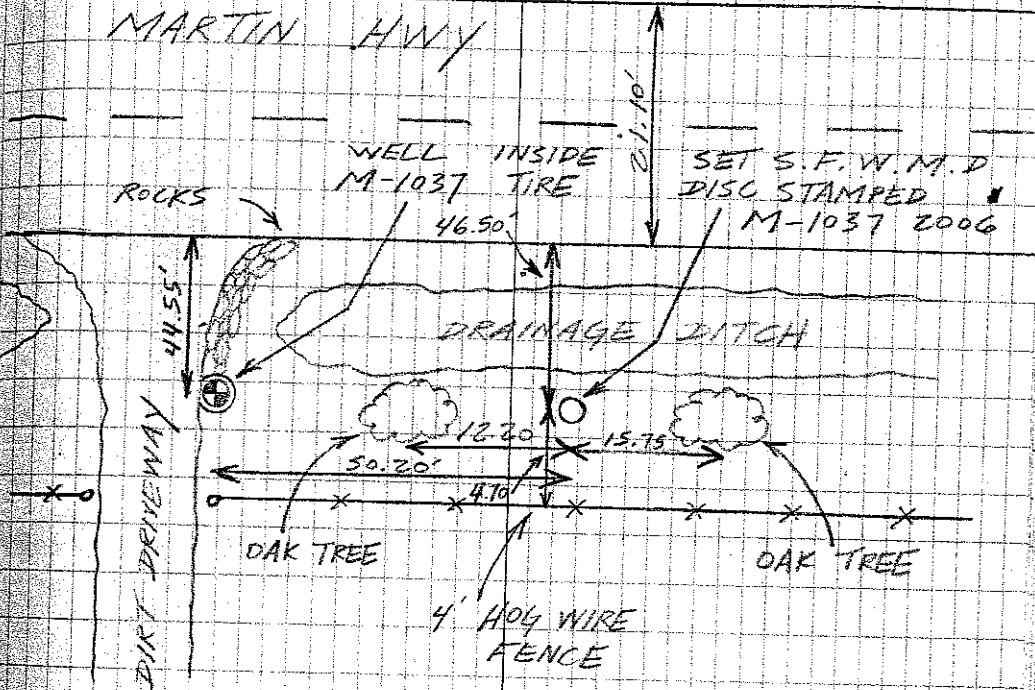
WELL M-1037

I-95

2564/38
SKETCH FOR WELL SITE M-1037



MARTIN HWY



STA	BS	MEAN	HI	FS	MEAN	ELEV	B.M. ELEV
	3.560						
BM	3.060	3.060	46.440	J			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	J			
	3.930						
TP#2							
					6.700		
					5.240	5.240	29.505
					3.780		
	6.500						
SHAKE	4.975	4.975	34.480	J			
	3.450						
TP#3							
					6.890		
					5.310	5.31	29.170
					3.730		
	7.200						
SHAKE	5.760	5.760	34.930	J			
	4.320						
TP#4							
					6.640		
					5.120	5.120	29.810
					3.600		
	6.210						
SHAKE	4.575	4.575	34.385	J			
	2.940						

#03-77616
S.F.W.M.D.
" SITE - Q "
(ESTABLISH
ELEV ON
WELL M-1248)

I 95 85 A11
NGS # AF7173 (A11) NAVD 88
FDOT BRASS D. IN CONC MON.
STAMPED I 95 85 A11

CUT NL

CUT NL

60 D SPIKE

60 D SPIKE

60 D SPIKE

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
			6.580				
TP# 5			4.970	4.970	29.415	✓	60 D SPIKE
			3.360				
	6.500						
SHAKE	5.685	5.685	35.100	✓			60 D SPIKE
	4.870						
			5.640				
DISC			4.930	4.930	30.170	✓	SET S.F.W.M.D DISC STAMPED M-1248 2006
M-1248			4.220				
	5.980						
SHAKE	5.270	5.270	35.440	✓			" "
	4.560						
			5.890				
WELL			5.185	5.185	30.255	✓	TOP OF PIPE WELL M-1248 (PVC)
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	✓	60 D SPIKE
			4.900				
	6.530						
SHAKE	4.920	4.920	34.335	✓			60 D SPIKE
	3.310						
			6.160				
TP# 7			4.525	4.525	29.810	✓	60 D SPIKE
			2.890				

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	DESC
	6.655								
SHAKE	5.130	5.130	34.940	✓					60 D SPIKE
	3.605								
				7.210					
TP#8				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								
				6.510					
TP#9				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								
				6.770					
TP#10				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								
				0.750					
BM				0.420	0.420	46.495	46.41		NGS # AF 7174 (A11 RMI) NAVD 88
				0.090					FDOT BRASS D. IN CONC. GUARDRAIL
									STAMPED I 95 85 A11 RM No.1
									ERR = 0.025

I 95 85 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

1/12/06

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

(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.

C-23 CANAL

BOAT
RAMP

WELL
M-1248

STUART WEST
BLVD.

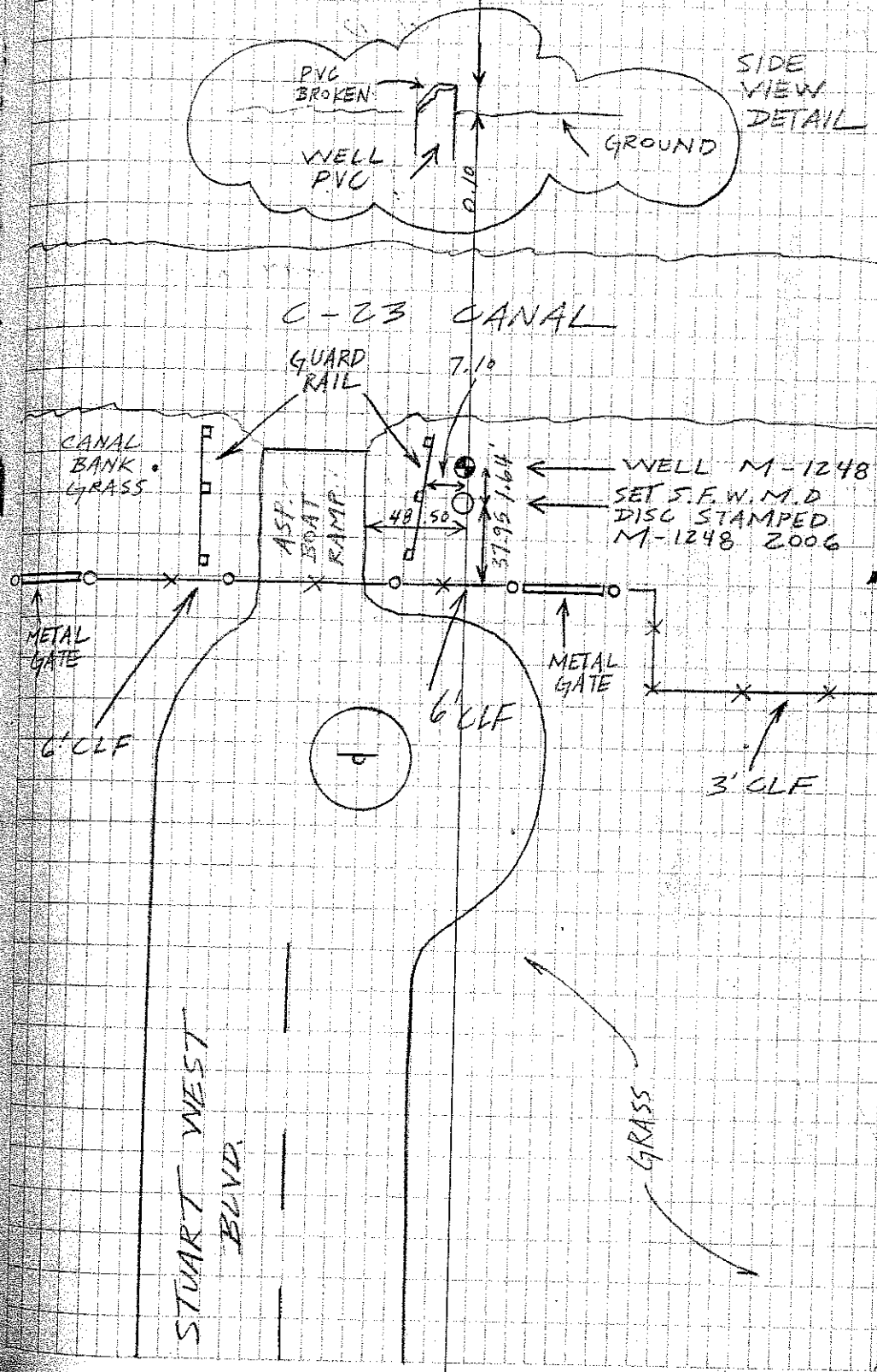
I-95

MARTIN HWY SR-714

SR-76A
CITRUS BLVD

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	✓			5.640 ✓
	3.480						
				7.210			
TP#1				5.170	5.170	4.455	✓
				3.130			
	6.850						
SHAKE	5.125	5.125	9.580	✓			
	3.400						
				7.830			
TP#2				5.940	5.940	3.640	✓
				4.080			
	6.550						
SHAKE	4.615	4.615	8.255	✓			
	2.680						
				6.080			
TP#3				4.350	4.350	3.905	✓
				2.640			
	7.225						
SHAKE	5.475	5.475	9.380	✓			
	3.725						
				9.110			
TP#4				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.W.M.D

1/13/06

"SITE - R"
(ELEV. CONT)

BM

STA	BS	MEAN	HI	FS	MEAN	ELEV	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 6.080 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				7.9050 6.575 5.245	6.575	2.970	✓

DESC

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

MAG NL & TT

MAG NL & TT

MAG NL & TT

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 & TT

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
				7.170			
TP#12				5.425	5.425	3.915	✓
				3.680			
	6.015			✓			
SHAKE	4.305	4.305	8.220				
	2.595						
				6.500			
TP#13				4.570	4.570	3.650	✓
				2.670			
	7.760			✓			
SHAKE	5.870	5.870	9.520				
	3.980						
				6.770			
TP#14				5.050	5.050	4.470	✓
				3.330			
	7.680			✓			
SHAKE	5.615	5.615	10.085				
	3.550						
				4.910			
TP#15				4.430	4.430	5.655	✓
				3.950			
	6.500			✓			
SHAKE	5.070	5.070	10.725				
	3.640						
				7.690			✓
BM				5.230	5.230	5.495	5.480
				7.770			✓

DESC CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

BRASS D.

BRASS D.

NGS # AF 7129 (SLR 39) HAND 88
BRASS D. IN CONC OF FISHING PIER
STAMPED SLR 39 1972 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	BM ELEV	DESC
	5.850							
TBM# 1	5.690 5.530	5.690	8.675				2.985	MAG NL & TT
				4.550				
WELL M-1267				4.270 3.990	4.270	4.405		TOP OF PIPE WELL M-1267 (PVC)
	4.590							
SHAKE	4.245 3.900	4.245	8.65					" "
				5.645				
DISC M-1267				5.065 4.485	5.065	3.585		SET S.F.W.M.D DISC STAMPED M-1267 2006
	5.840							
SHAKE	5.260 4.680	5.260	8.345					" "
				6.140				
TBM# 2				5.870 5.600	5.870	2.975	2.97	MAG NL & TT
						ERROR	0.005	

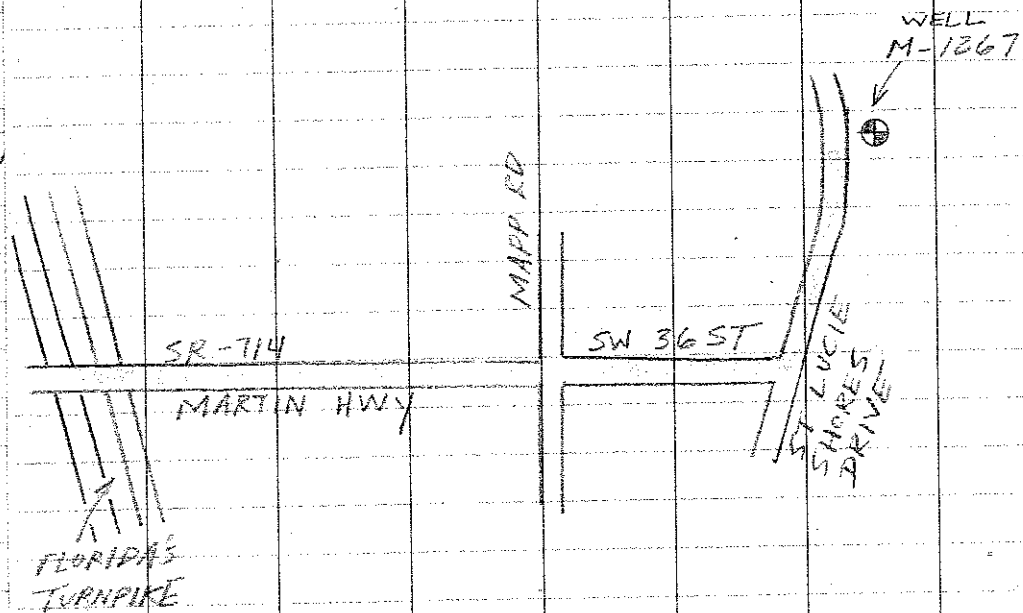
SAME
CREW

1/13/06

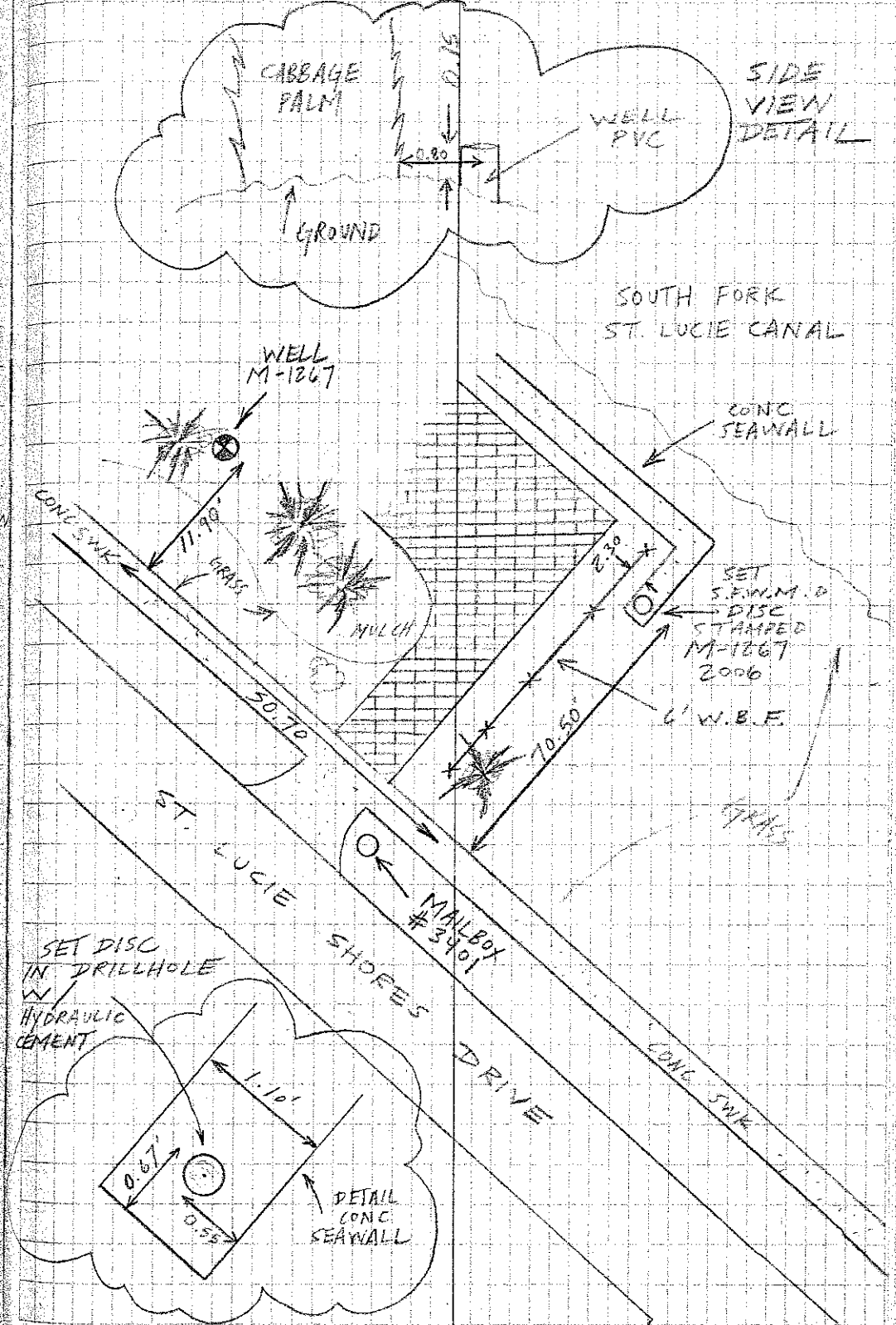
#03-77616
S.F.W.M.D.

(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.E.W.M.D.

"SITE - S"

1/17/06

(ESTABLISH
ELEV. ON WELL
M-1043)

STA	BS	MEAN	HI	FS	MEAN ELEV	BM ELEV
	13.170					14.85
BM	11.865	11.865	26.715	✓		
	10.560					
				1.220		
TP#1				0.780	0.780	25.935
				0.340		
	11.350					
SHAKE	10.410	10.410	36.345	✓		
	9.470					
				7.150		
TP#2				6.0350	6.035	30.310
				4.920		
	11.480					
SHAKE	10.640	10.640	40.950	✓		
	9.800					
				11.920		
TP#3				10.730	10.730	30.220
				9.540		
	1.460					
SHAKE	0.860	0.860	31.080	✓		
	0.260					
				9.380		
TP#4				8.320	8.320	22.760
				7.260		
	3.300					
SHAKE	2.580	2.580	25.340	✓		
	1.860					

DESC
NGS #AJ5264 (GUY DZZ) NAYD 88
BRASS D. IN CONC MON.
STAMPED GUY DZZ 2001

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.

1/17/06

" SITE - S "
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN ELEV	BM ELEV	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. REJERO
T. LOPEZ
A. LOPEZ

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

1/13/06

"SITE - S"
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV	DESC
	7.290							
SHAKE	6.175	6.175	36.485	✓				CUT NL
	5.060							
TP# 8				11.490				
				10.550	10.550	25.935	✓	CUT NL
				9.610				
	1.760							
SHAKE	1.320	1.320	27.255	✓				CUT NL
	0.980							
TP# 9				13.450				
				12.155	12.155	15.100	✓	CUT NL
				10.860				
	3.670							
SHAKE	2.155	2.155	17.255	✓				CUT NL
	0.640							
TP# 10				8.540				
				6.495	6.495	10.760	✓	CUT NL
				4.450				
	11.530							
SHAKE	9.985	9.985	20.745	✓				CUT NL
	8.440							
TP# 11				2.760				
				1.760	1.760	13.985	✓	CUT NL
				0.760				
	10.850							
SHAKE	9.100	9.100	28.085	✓				CUT NL
	7.250							

SAME
CREW

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

1/18/06

"SITE - S"
(ELEV. CONT)

STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV
				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	16.682
				7.745			ERR = 0.010

DESC

CUT NL

CUT NL

NGS # 4J5265 (GUY D23) NAVD 83
BRASS I. IN CONC MON.
STAMPED GUY 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
	5.620					
TEM#1	5.405 5.190	5.405	27.880	✓		22.475
				1.830		
WELL M-1043				1.630 1.430	1.630	26.250 ✓
	2.430					
SHAKE	2.360 2.270	2.350	28.600	✓		
				6.490		
DISC M-1043				6.420 6.350	6.420	22.180 ✓
	9.140					
SHAKE	8.945 8.750	8.945	31.125	✓		
				8.825		
TEM#2				8.575 8.325	8.575	22.550 ✓ 22.550 ✓ ERR = 0.000 ✓

DESC

MAG NL & TT

TOP OF PIPE WELL M-1043 (PVC)

"

SET S.F.W.M.D DISC STAMPED M-1043 2006

"

MAG NL & TT

"

"

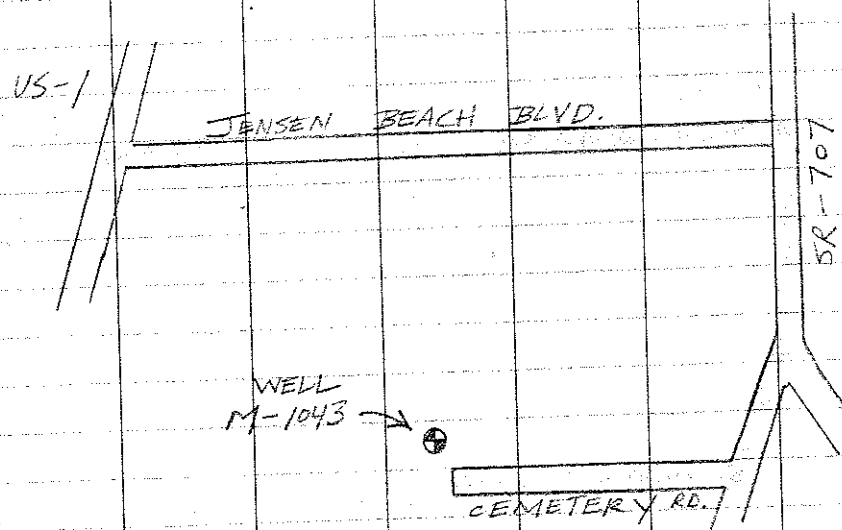
NAME
CREW

1/18/06

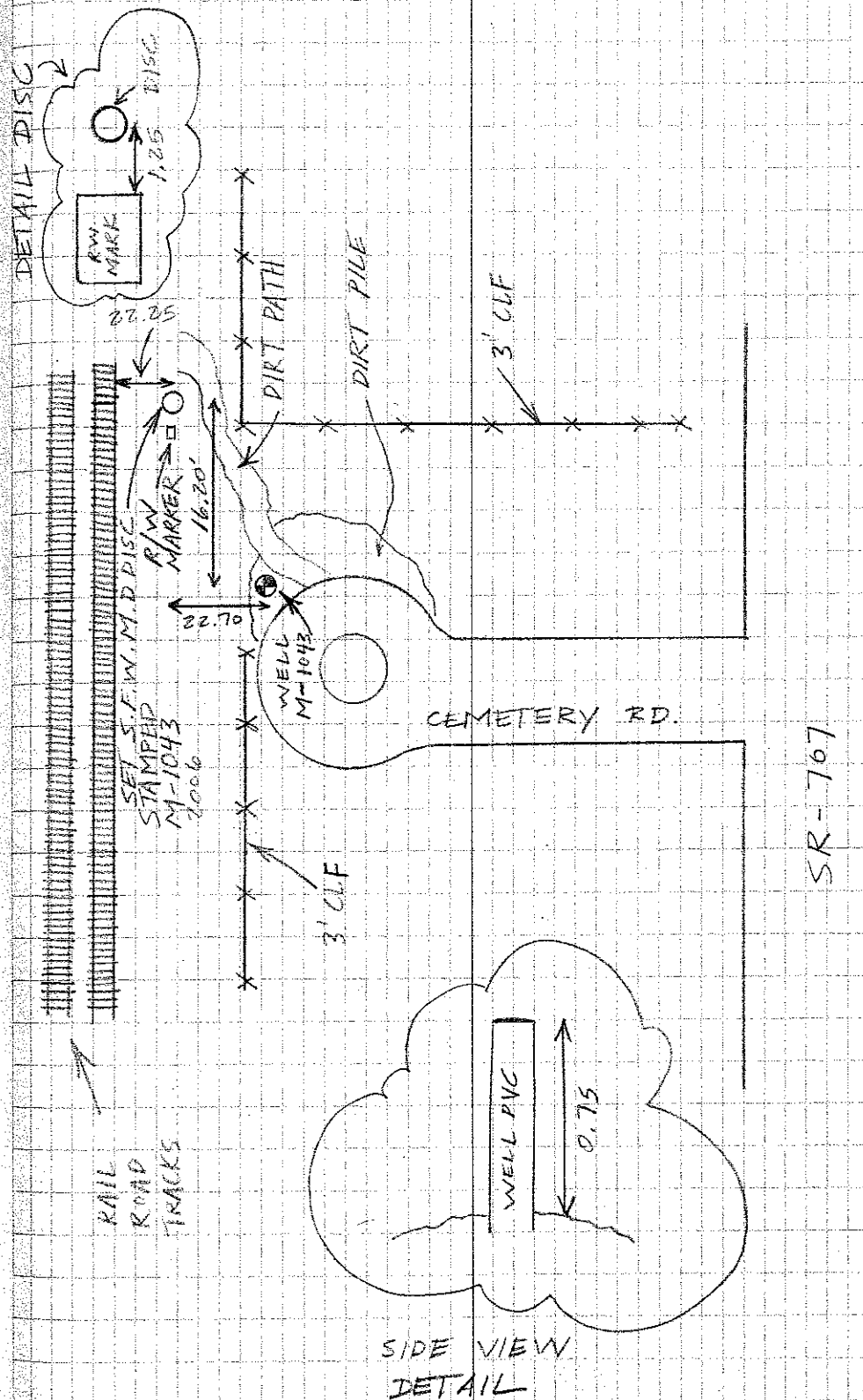
#03 77616
S.F.W.M.D

(SITE - 5
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF
US-1 AND JENSEN BEACH BLVD
TRAVEL EAST ON JENSEN BEACH
BLVD FOR 2.85 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 ALLSAINTS
EPISCOPAL CHURCH CEMETERY
AND TRAVEL WEST ON THE
CEMETERY RD. FOR 0.33 TO
THE BACK OF THE CEMETERY.
THE WELL IS TO THE RIGHT
AND BEHIND A LARGE PILE
OF DIRT.



SKETCH OF WELL SITE M-1043



SAME
CREW

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

1/13/06

SITE - T

(ESTABLISH
ELEV ON WELL
SITE M-1259)

STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV
	9.710						12.410
BM	7.875	7.875	20.285	✓			
	6.040						
TP#1				6.120			
				4.760	4.760	15.525	✓
				3.400			
	6.360						
SHAKE	4.780	4.780	20.305	✓			
	3.200						
TP#2				6.140			
				4.530	4.530	15.775	✓
				2.920			
	6.330						
SHAKE	4.540	4.54	20.315	✓			
	2.750						
TP#3				6.115			
				4.545	4.545	15.770	✓
				2.975			
	6.530						
SHAKE	4.150	4.150	19.920	✓			
	1.770						
TBM#1				7.030			
				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
				7.305			
TBM#2				6.465	6.465	14.355	✓
				5.625			
	9.130						
SHAKE	7.635	7.635	21.990				✓
	6.140						
				6.760			
TP#4				5.045	5.045	16.945	✓
				3.330			
	6.360						
SHAKE	4.380	4.380	21.325				✓
	2.400						
				7.140			
TP#5				5.130	5.130	16.195	✓
				3.120			
	6.780						
SHAKE	4.440	4.440	20.635				✓
	2.100						
				7.030			
TP#6				4.975	4.975	15.660	✓
				2.920			
	6.800						
SHAKE	4.540	4.540	20.200				✓
	2.280						
				6.320			
TP#7				4.370	4.370	15.830	✓
				2.420			

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.W.M.D

1/18/06

"SITE - T"

(ELEV. CONT)

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

DESC

CUT NL

CUT NL

CUT NL

CUT NL

CUT NL

NGS # AJ 5621 (M516) NAVD 88
 BRASS D. IN CONC MON.
 STAMPED M516 2001

A. REDERO
T. LOPEZ
A. LOPEZ

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

"SITE-T"

2/22/06

(ELEV CONT)

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

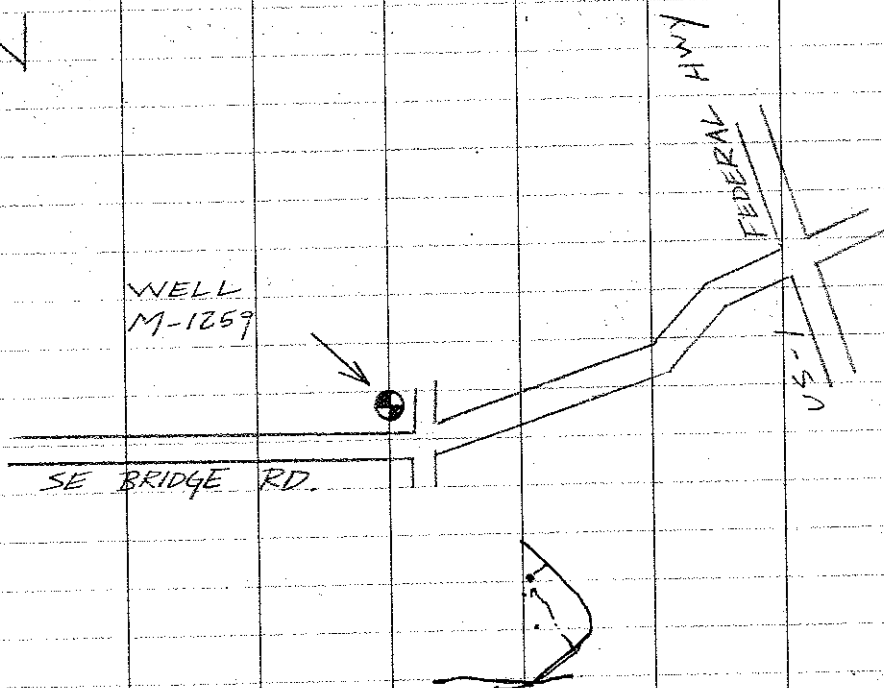
SAME
CREW

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

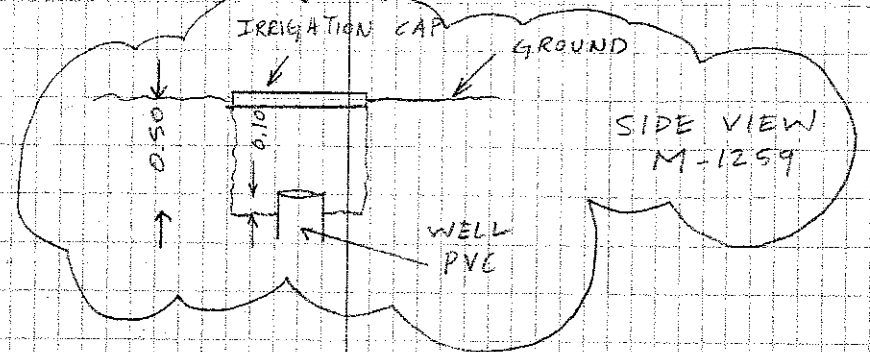
(SITE-T
DESCRIPTION)

DIRECTIONS - FROM THE INTERSECTION OF US-1
AND BRIDGE RD. SR-708. 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!

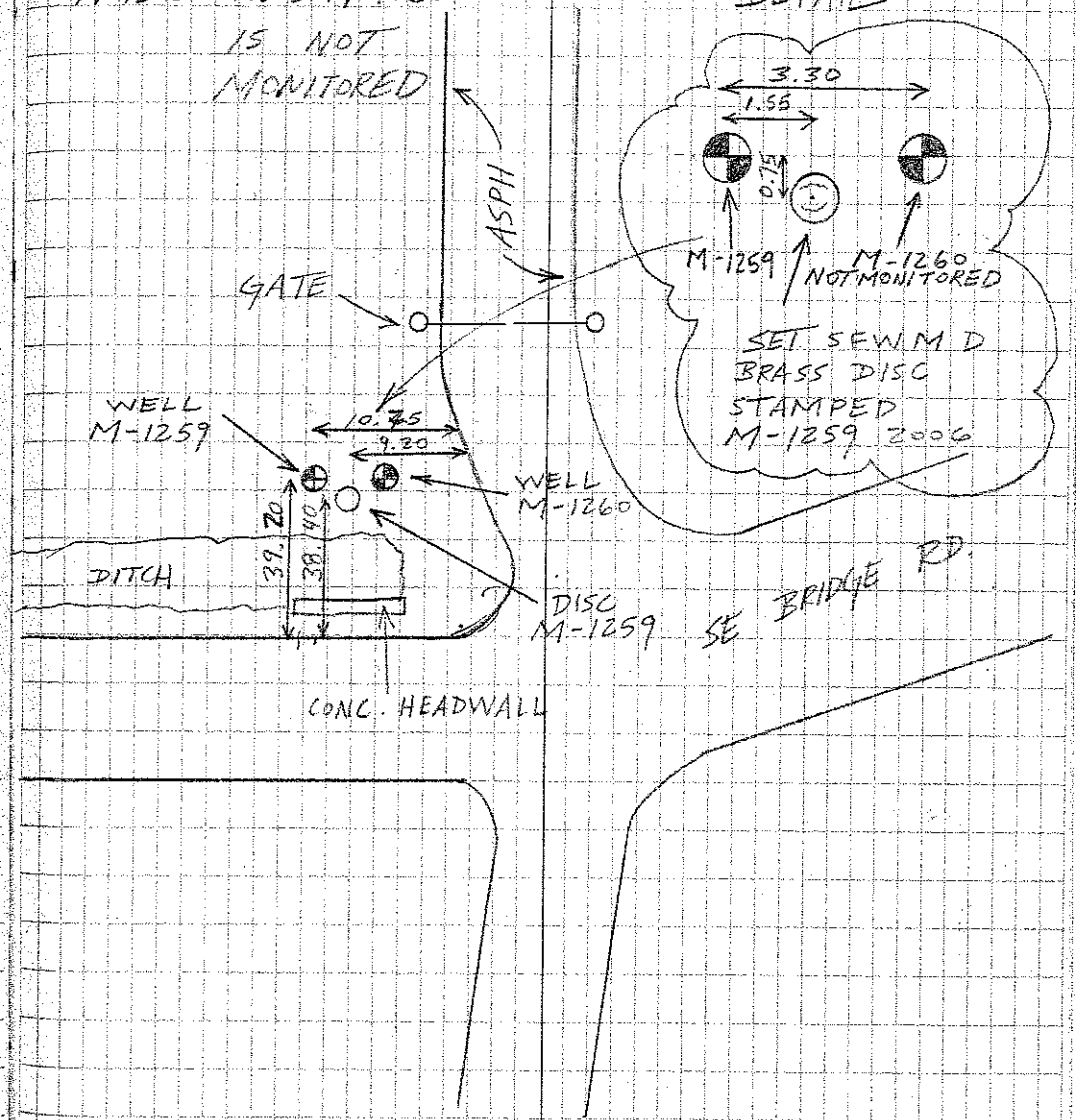
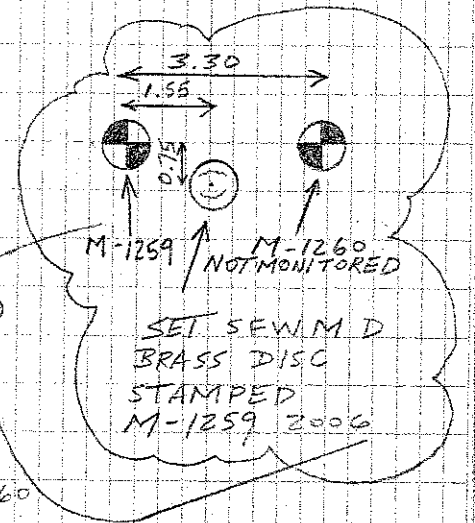


2564 / 59
M-1259
SKETCH OF WELL SITE



NOTE: WELL M-1260
IS NOT
MONITORED

DETAIL





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 04/11/06

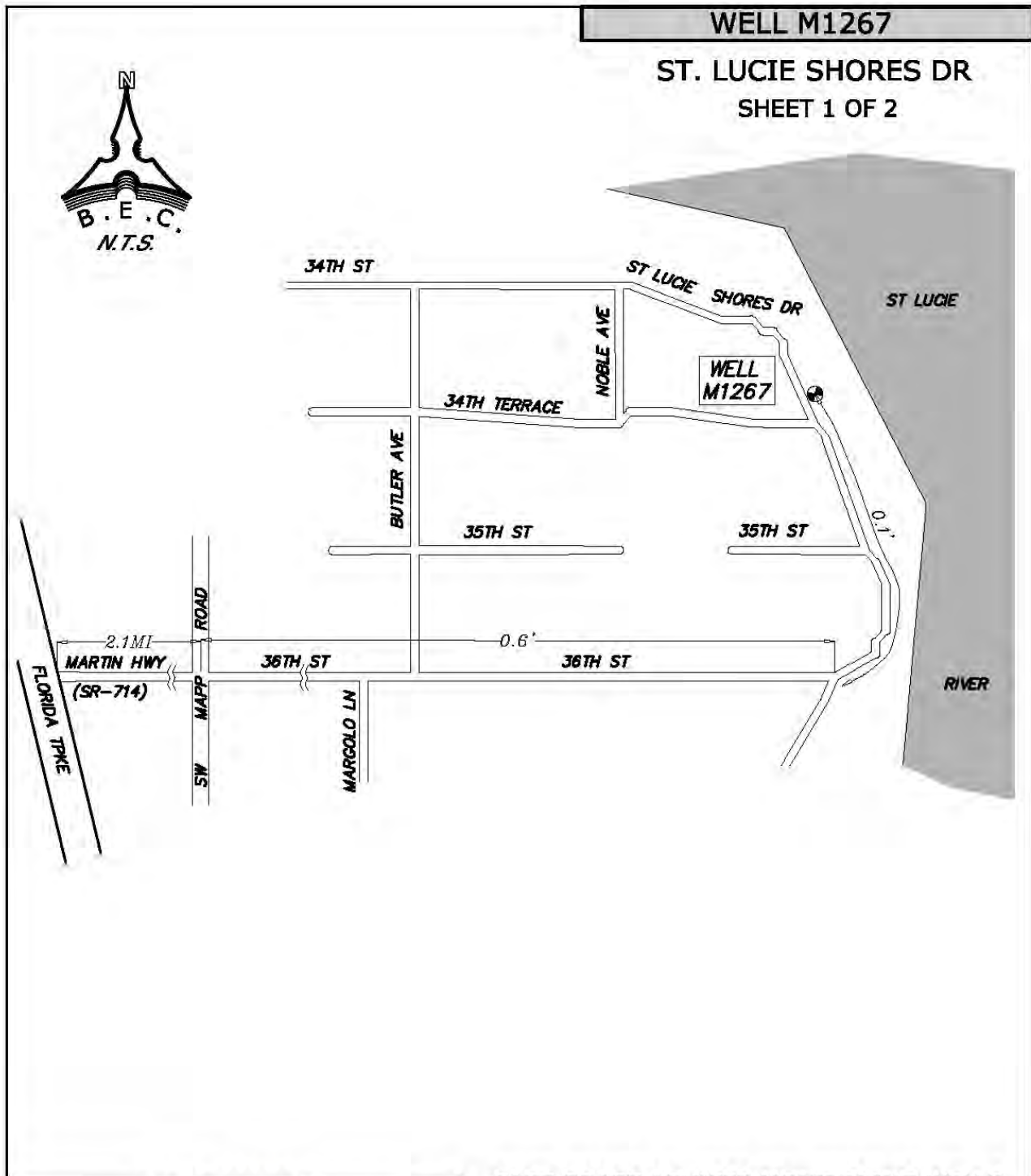
COUNTY	MARTIN	PROJECT	ST. LUCIE SHORES DR.	DESIGNATION	M1267 2006
SECTIONS	<u>17</u>	TOWNSHIP	<u>38S</u>	RANGE	<u>41E</u>
GEOGRAPHIC INDEX OF QUAD <u>Florida</u>					
Established by Biscayne Engineering Company, Inc.			NAME OF QUADRANGLE <u>PALM CITY #2603</u>		
SURVEYOR <u>Mike J. Bartholomew</u> DATE <u>04 / 11 / 2006</u>			FIELD BOOK <u>2564</u> PAGE <u>43</u>		
HORIZONTAL DATUM: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/> Other _____ (circle one) ZONE <u>0901 (EAST)</u>					
VERTICAL DATUM: MSL 1929 <input type="checkbox"/> 1988 <input checked="" type="checkbox"/> Other _____ (circle one)					
CONTROL ACCURACY: HORIZONTAL 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> SUB-METER (circle one) VERTICAL 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/>					
STATE PLANE COORDINATES <u>M1267 (U.S. Survey feet)</u>		X= <u>897364.333</u>		Y= <u>1029178.029</u> DISC EL.= <u>3.59'</u> (NAVD-88)	
LATITUDE <u>M1267 27°09'47.211"N</u>			LONGITUDE <u>080°15'29.536"W</u>		
DESCRIPTION					
Benchmark is situated North of Martin Highway (SR-714), East of the Florida's Turnpike, at the rear of residence #3401 St. Lucie Shores Drive, Martin County, Florida.					
TO REACH the benchmark from the intersection of Florida's Turnpike and Martin Hwy (SR-714), travel East on Martin Hwy (SR-714) for 2.1 miles, where the road becomes S.W. 36 St., thence continue East along S.W. 36 St. for another 0.6 miles to the intersection with St. Lucie Shores Drive. Turn left and travel Northerly along the curve of St. Lucie Shores Drive for 0.1 miles to residence #3401. Benchmark is a brass SFWMD disc set at the end of a seawall near the Northeast corner of the property for residence #3401, approximately 2.3 feet Southeast of a 6' wood fence and approximately 70.5 feet Northeast of the back of sidewalk.					
Note: Origin of NAVD88 elevation for BM "M1267" is closed bench level circuit through NGS benchmarks AJ5614 (SLR 300) and AF7129 (SLR 39).					

SKETCH: SEE PAGE 2 and 3



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 04/11/06



WELL M1267

EAST COAST AQUIFER MONITORING WELLS

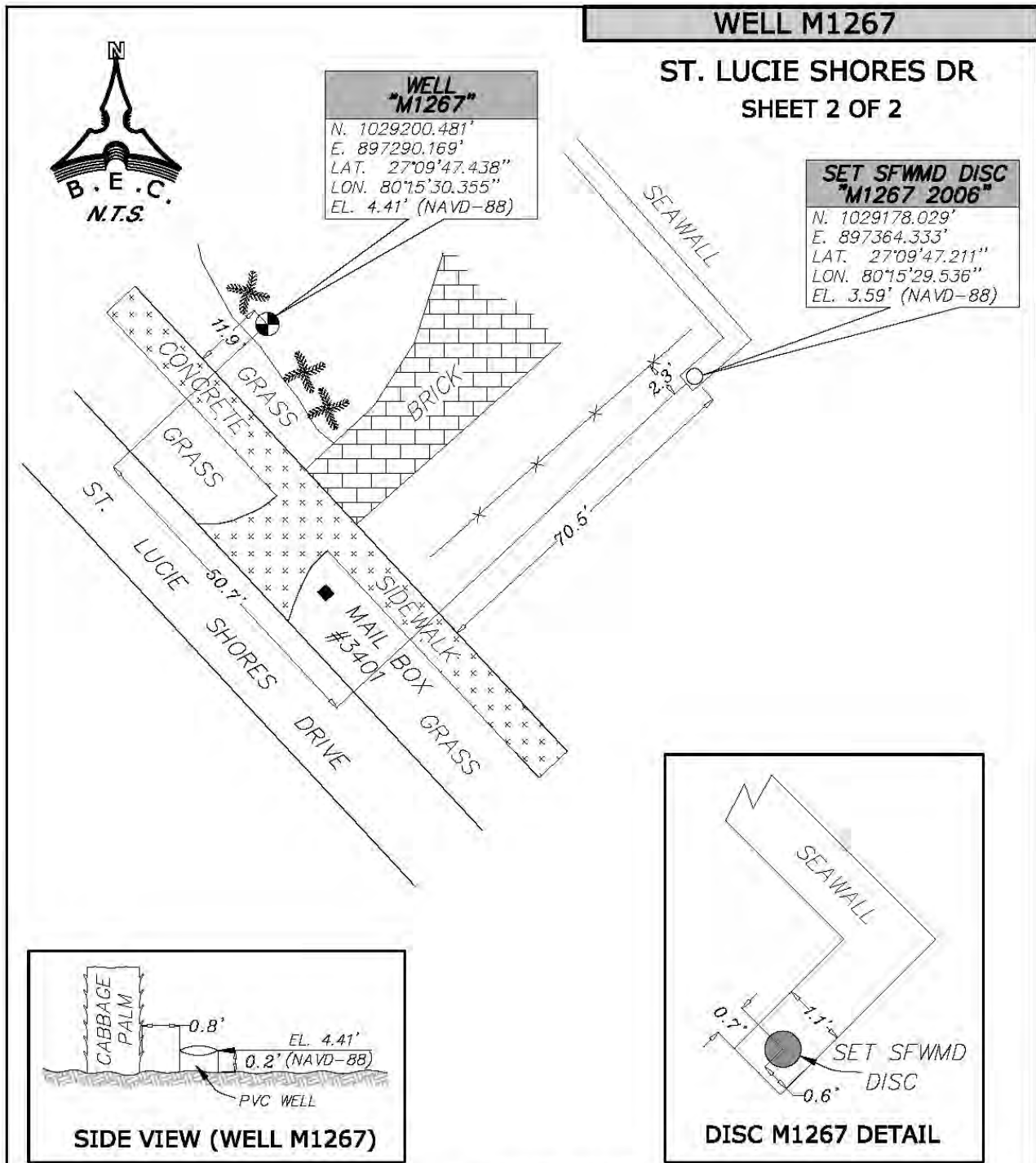
F:\SURVEY\PROJECTS\77609\477616-SF\MD (MARTIN COUNTY)-PHASE IIA\DWG\NorthVelle-phase-2_GPS.dwg 4/11/2006 8:29:45 AM EDT

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					



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 04/11/06



WELL M1267 EAST COAST AQUIFER MONITORING WELLS

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

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.
 Line/Part: L26232 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
1676	9055	AJ5614	SLR 300	2.1191	2.1624	
1677	9056*	AF7129	SLR 39	2.0719	2.1142	

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 27, 2006

AJ5614 *****

AJ5614 DESIGNATION - SLR 300

AJ5614 PID - AJ5614

AJ5614 STATE/COUNTY- FL/MARTIN

AJ5614 USGS QUAD - PALM CITY (1983)

AJ5614

AJ5614 *CURRENT SURVEY CONTROL

AJ5614

AJ5614* NAD 83(1986)- 27 10 22. (N) 080 15 47. (W) SCALED

AJ5614* NAVD 88 - 1.718 (meters) 5.64 (feet) ADJUSTED

AJ5614

AJ5614 GEOID HEIGHT- -27.43 (meters) GEOID03

AJ5614 DYNAMIC HT - 1.716 (meters) 5.63 (feet) COMP

AJ5614 MODELED GRAV- 979,112.2 (mgal) NAVD 88

AJ5614

AJ5614 VERT ORDER - FIRST CLASS II

AJ5614

AJ5614.The horizontal coordinates were scaled from a topographic map and have
 AJ5614.an estimated accuracy of +/- 6 seconds.

AJ5614

AJ5614.The orthometric height was determined by differential leveling
 AJ5614.and adjusted by the National Geodetic Survey in November 2001.

AJ5614

AJ5614.The geoid height was determined by GEOID03.

AJ5614

AJ5614.The dynamic height is computed by dividing the NAVD 88

AJ5614.geopotential number by the normal gravity value computed on the
 AJ5614.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ5614.degrees latitude (g = 980.6199 gals.).

AJ5614

AJ5614.The modeled gravity was interpolated from observed gravity values.

AJ5614

AJ5614; North East Units Estimated Accuracy

AJ5614;SPC FL E - 314,760. 273,030. MT (+/- 180 meters Scaled)

AJ5614

AJ5614 SUPERSEDED SURVEY CONTROL

AJ5614

AJ5614.No superseded survey control is available for this station.

AJ5614

AJ5614_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL730057(NAD 83)

AJ5614_MARKER: DD = SURVEY DISK

AJ5614_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.

AJ5614_SP_SET: PIER SURFACE

AJ5614_STAMPING: SLR 300 JAX 1992

AJ5614_MARK LOGO: USE

AJ5614_MAGNETIC: N = NO MAGNETIC MATERIAL

AJ5614_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

AJ5614_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ5614+SATELLITE: SATELLITE OBSERVATIONS - June 27, 2002

AJ5614

AJ5614 HISTORY - Date Condition Report By

AJ5614 HISTORY - 1992 MONUMENTED USE
AJ5614 HISTORY - 20010920 GOOD GCYI
AJ5614 HISTORY - 20020627 GOOD GCYI

AJ5614

AJ5614

AJ5614

STATION DESCRIPTION

AJ5614'DESCRIBED BY G.C.Y., INCORPORATED 2001 (PA)

AJ5614'THE MARK IS LOCATED 2.9 KM (1.8 MI) SOUTHWEST OF STUART, 16.5 KM (10.2
AJ5614'MI)

AJ5614'NORTHWEST OF HOBE SOUND AND 25.4 KM (15.8 MI) NORTHEAST OF INDIANTOWN

AJ5614'IN THE LEIGHTON PARK AND BOAT RAMP IN SECTION 17, TOWNSHIP 38 SOUTH,

AJ5614'RANGE 41 EAST.

AJ5614'

AJ5614'MARTIN COUNTY - RECREATION AND PARKS.

AJ5614'

AJ5614'TO REACH THE MARK FROM THE INTERSECTION OF MARTIN DOWNS BOULEVARD

AJ5614'(S.R. 714) AND KANNER HIGHWAY (S.R. 76) GO WEST ON MARTIN DOWNS

AJ5614'BOULEVARD, ACROSS THE ST. LUCIE RIVER, 1.5 KM (0.95 MI) TO S.W.

AJ5614'CORNELL AVE,

AJ5614'TURN SOUTH ON S.W. CORNELL TO ENTRANCE TO LEIGHTON PARK. GO EAST TO

AJ5614'MARK SET NEAR WEST END OF FISHING CATWALK.

AJ5614'

AJ5614'MARK IS 2.4 M (8 FT) EAST OF THE WEST END OF THE WEST CONCRETE FISHING

AJ5614'PIER

AJ5614', SOUTH OF THE SR 714 BRIDGES ACROSS THE SOUTH FORK OF THE ST LUCIE

AJ5614'RIVER, 1.2 M (3.8 FEET) SOUTH OF THE NORTH EDGE OF FISHING PIER AND

AJ5614'1.2 M (3.8

AJ5614'FT) NORTH OF THE SOUTH EDGE OF FISHING PIER.

AJ5614'MARK IS A U.S. ARMY CORPS OF ENGINEERS STANDARD DISK SET IN FISHING

AJ5614'PIER

AJ5614'SURFACE.

AJ5614'

AJ5614

AJ5614

STATION RECOVERY (2002)

AJ5614

AJ5614'RECOVERY NOTE BY G.C.Y., INCORPORATED 2002 (PA)

AJ5614'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:00

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

Line/Part: L26232 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation
1676	9055	AJ5614	SLR 300	2.1191	2.1624
1677	9056*	AF7129	SLR 39	2.0719	2.1142

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 27, 2006

AF7129 *****

AF7129 DESIGNATION - SLR 39
 AF7129 PID - AF7129
 AF7129 STATE/COUNTY- FL/MARTIN
 AF7129 USGS QUAD - PALM CITY (1983)

*CURRENT SURVEY CONTROL

AF7129*	NAD 83(1986)-	27 10 26.	(N)	080 15 39.	(W)	SCALED
AF7129*	NAVD 88	- 1.670	(meters)	5.48	(feet)	ADJUSTED

AF7129	GEOID HEIGHT-	-27.43	(meters)			GEOID03
AF7129	DYNAMIC HT -	1.668	(meters)	5.47	(feet)	COMP
AF7129	MODELED GRAV-	979,112.2	(mgal)			NAVD 88

AF7129 VERT ORDER - FIRST CLASS II

AF7129.The horizontal coordinates were scaled from a topographic map and have an estimated accuracy of +/- 6 seconds.

AF7129.The orthometric height was determined by differential leveling and adjusted by the National Geodetic Survey in November 2001.

AF7129.The geoid height was determined by GEOID03.

AF7129.The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (g = 980.6199 gals.).

AF7129.The modeled gravity was interpolated from observed gravity values.

	North	East	Units	Estimated Accuracy
AF7129; SPC FL E	- 314,890.	273,250.	MT	(+/- 180 meters Scaled)

SUPERSEDED SURVEY CONTROL

AF7129	NAVD 88 (06/15/91)	1.669 (m)	5.48 (f)	UNKNOWN	2 2
AF7129	NGVD 29 (09/01/92)	2.114 (m)	6.94 (f)	ADJUSTED	2 2

AF7129.Superseded values are not recommended for survey control.
 AF7129.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AF7129.[See file dsdata.txt](#) to determine how the superseded data were derived.

AF7129_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL732059(NAD 83)
 AF7129_MARKER: DD = SURVEY DISK
 AF7129_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
 AF7129_SP_SET: FISHING PIER
 AF7129_STAMPING: SLR 39 1972 JAX FL
 AF7129_MARK LOGO: USE
 AF7129_MAGNETIC: N = NO MAGNETIC MATERIAL

AF7129_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AF7129

AF7129	HISTORY	- Date	Condition	Report By
AF7129	HISTORY	- 1972	MONUMENTED	USE
AF7129	HISTORY	- 1986	GOOD	FLDT
AF7129	HISTORY	- 20010718	GOOD	GCYI
AF7129	HISTORY	- 20020627	GOOD	GCYI

AF7129

AF7129

STATION DESCRIPTION

AF7129

AF7129'DESCRIBED BY FLORIDA DEPARTMENT OF TRANSPORTATION 1986

AF7129'IN STUART.

AF7129'AT STUART, AT THE CENTER OF THE CONCRETE FISHING PIER ON THE SOUTH
AF7129'SIDE OF STATE ROAD 714 BRIDGE OVER ST. LUCIE RIVER, 49.0 FEET WEST OF
AF7129'THE EAST END OF THE CONCRETE FISHING PIER, 3.0 FEET SOUTH OF THE
AF7129'NORTHEGE OF THE PIER AND 3.0 FEET NORTH OF THE SOUTH EDGE OF THE
AF7129'PIER.

AF7129'THE MARK IS ABOVE LEVEL WITH PIER.

AF7129

STATION RECOVERY (2001)

AF7129

AF7129'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001

AF7129'RECOVERED AS DESCRIBED.

AF7129

AF7129

STATION RECOVERY (2002)

AF7129

AF7129'RECOVERY NOTE BY G.C.Y., INCORPORATED 2002 (PA)

AF7129'RECOVERED AS DESCRIBED WITH THE FOLLOWING EXCEPTION -

AF7129'MODIFIED LATITUDE AND LONGITUDE USING WAAS CORRECTED

AF7129'HANDHELD GPS.

AF7129'

*** retrieval complete.

Elapsed Time = 00:00:01

The NGS Data Sheet

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

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.34

1 National Geodetic Survey, Retrieval Date = APRIL 10, 2006

AJ5631 *****

AJ5631 DESIGNATION - B 517

AJ5631 PID - AJ5631

AJ5631 STATE/COUNTY- FL/MARTIN

AJ5631 USGS QUAD - PALM CITY (1983)

AJ5631

AJ5631 *CURRENT SURVEY CONTROL

AJ5631

AJ5631* NAD 83(1999)- 27 09 41.99302(N) 080 18 08.63033(W) ADJUSTED

AJ5631* NAVD 88 - 5.074 (meters) 16.65 (feet) ADJUSTED

AJ5631

AJ5631 X - 956,568.379 (meters) COMP

AJ5631 Y - -5,597,565.704 (meters) COMP

AJ5631 Z - 2,894,154.718 (meters) COMP

AJ5631 LAPLACE CORR- -2.32 (seconds) DEFLEC99

AJ5631 ELLIP HEIGHT- -22.27 (meters) (12/12/02) GPS OBS

AJ5631 GEOID HEIGHT- -27.31 (meters) GEOID03

AJ5631 DYNAMIC HT - 5.066 (meters) 16.62 (feet) COMP

AJ5631 MODELED GRAV- 979,110.0 (mgal) NAVD 88

AJ5631

AJ5631 HORZ ORDER - FIRST

AJ5631 VERT ORDER - FIRST CLASS II

AJ5631 ELLP ORDER - FOURTH CLASS I

AJ5631

AJ5631.The horizontal coordinates were established by GPS observations

AJ5631.and adjusted by the National Geodetic Survey in December 2002..

AJ5631

AJ5631.The orthometric height was determined by differential leveling

AJ5631.and adjusted by the National Geodetic Survey in November 2001..

AJ5631

AJ5631.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AJ5631

AJ5631.The Laplace correction was computed from DEFLEC99 derived deflections.

AJ5631

AJ5631.The ellipsoidal height was determined by GPS observations

AJ5631.and is referenced to NAD 83.

AJ5631

AJ5631.The geoid height was determined by GEOID03.

AJ5631

AJ5631.The dynamic height is computed by dividing the NAVD 88

AJ5631.geopotential number by the normal gravity value computed on the

AJ5631.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ5631.degrees latitude (g = 980.6199 gals.).

AJ5631

AJ5631.The modeled gravity was interpolated from observed gravity values.

AJ5631

AJ5631; North East Units Scale Factor Converg.

AJ5631;SPC FL E - 313,508.370 269,138.124 MT 1.00000016 +0 19 06.5

AJ5631;SPC FL E - 1,028,568.71 882,997.33 sFT 1.00000016 +0 19 06.5

AJ5631;UTM 17 - 3,004,533.384 569,114.534 MT 0.99965897 +0 19 06.5

AJ5631

AJ5631! - Elev Factor x Scale Factor = Combined Factor
 AJ5631!SPC FL E - 1.00000350 x 1.00000016 = 1.00000366
 AJ5631!UTM 17 - 1.00000350 x 0.99965897 = 0.99966247
 AJ5631
 AJ5631 SUPERSEDED SURVEY CONTROL
 AJ5631
 AJ5631 NAVD 88 (12/12/02) 5.07 (m) 16.6 (f) LEVELING 3
 AJ5631
 AJ5631.Superseded values are not recommended for survey control.
 AJ5631.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AJ5631.[See file dsdata.txt](#) to determine how the superseded data were derived.
 AJ5631
 AJ5631_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL6911504533(NAD 83)
 AJ5631_MARKER: F = FLANGE-ENCASED ROD
 AJ5631_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
 AJ5631_STAMPING: B 517 2001
 AJ5631_MARK LOGO: FL-085
 AJ5631_PROJECTION: FLUSH
 AJ5631_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 AJ5631_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AJ5631_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AJ5631+SATELLITE: SATELLITE OBSERVATIONS - June 27, 2002
 AJ5631_ROD/PIPE-DEPTH: 24.4 meters
 AJ5631
 AJ5631 HISTORY - Date Condition Report By
 AJ5631 HISTORY - 2001 MONUMENTED GCYI
 AJ5631 HISTORY - 20020513 GOOD MAPTEC
 AJ5631 HISTORY - 20020627 GOOD GCYI
 AJ5631
 AJ5631 STATION DESCRIPTION
 AJ5631
 AJ5631'DESCRIBED BY G.C.Y., INCORPORATED 2001 (KFK)
 AJ5631'THE MARK IS LOCATED 6.3 KM (3.9 MI) SOUTHWEST OF STUART, 18.9 KM (11.7
 AJ5631'MI)
 AJ5631'NORTHWEST OF HOBE SOUND AND 21.5 KM (13.4 MI) NORTHEAST OF INDIANTOWN
 AJ5631'NEAR THE NORTH RIGHT-OF-WAY OF S.R. 714 IN SECTION 14, TOWNSHIP 38
 AJ5631'SOUTH,
 AJ5631'RANGE 40 EAST.
 AJ5631'
 AJ5631'FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY.
 AJ5631'
 AJ5631'TO REACH THE MARK FROM THE INTERSECTION OF FLORIDA TURNPIKE AND S.R.
 AJ5631'714, GO EAST ON S.R. 714 0.2 KM (0.1 MI) TO THE INTERSECTION WITH SW
 AJ5631'ARMELLINI
 AJ5631'AVENUE. MARK IS LOCATED IN NORTHWEST QUADRANT OF INTERSECTION.
 AJ5631'
 AJ5631'THE MARK IS 12.4 M (40.8 FT) NORTH OF NORTH EDGE OF PAVEMENT OF S.R.
 AJ5631'714, 4.6
 AJ5631'M (15.1 FT) NORTHEAST OF A WOOD POWER POLE, 5.4 M (17.8 FT) SOUTHEAST
 AJ5631'OF A
 AJ5631'WOOD POWER POLE, 5.3 M (17.4 FT) WEST OF WEST EDGE OF PAVEMENT OF S.W.
 AJ5631'ARMELLINI AVE. AND 21.4 M (70.2 FT) NORTHWEST OF A WOOD POWER POLE ON
 AJ5631'EAST SIDE OF SW ARMELLINI AVE. AND 0.3 M (1.0 FT) EAST OF A CARSONITE
 AJ5631'WITNESS
 AJ5631'POST.
 AJ5631'ACCESS IS THROUGH AN ALUMINUM ACCESS CAP.
 AJ5631'
 AJ5631'NOTE - MAGNET PLACED INSIDE PVC SLEEVE NEXT TO STAINLESS ROD.
 AJ5631'
 AJ5631'

AJ5631
AJ5631 STATION RECOVERY (2002)
AJ5631
AJ5631'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AJ5631'STATION RECOVERY (2002)
AJ5631'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)
AJ5631'RECOVERED AS DESCRIBED.
AJ5631'
AJ5631'
AJ5631
AJ5631 STATION RECOVERY (2002)
AJ5631
AJ5631'RECOVERY NOTE BY G.C.Y., INCORPORATED 2002 (PA)
AJ5631'RECOVERED IN GOOD CONDITION.

*** 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 = 7.34

1 National Geodetic Survey, Retrieval Date = APRIL 10, 2006

AJ5252 *****

AJ5252 DESIGNATION - GCY D10

AJ5252 PID - AJ5252

AJ5252 STATE/COUNTY- FL/MARTIN

AJ5252 USGS QUAD - PALM CITY (1983)

AJ5252

AJ5252 *CURRENT SURVEY CONTROL

AJ5252

AJ5252* NAD 83(1999)- 27 09 14.07397(N) 080 19 08.46725(W) ADJUSTED

AJ5252* NAVD 88 - 6.084 (meters) 19.96 (feet) ADJUSTED

AJ5252

AJ5252 X - 955,010.622 (meters) COMP

AJ5252 Y - -5,598,230.580 (meters) COMP

AJ5252 Z - 2,893,390.629 (meters) COMP

AJ5252 LAPLACE CORR- -2.20 (seconds) DEFLEC99

AJ5252 ELLIP HEIGHT- -21.17 (meters) (09/27/01) GPS OBS

AJ5252 GEOID HEIGHT- -27.26 (meters) GEOID03

AJ5252 DYNAMIC HT - 6.074 (meters) 19.93 (feet) COMP

AJ5252 MODELED GRAV- 979,108.5 (mgal) NAVD 88

AJ5252

AJ5252 HORZ ORDER - FIRST

AJ5252 VERT ORDER - FIRST CLASS II

AJ5252 ELLP ORDER - FOURTH CLASS II

AJ5252

AJ5252.The horizontal coordinates were established by GPS observations

AJ5252.and adjusted by the National Geodetic Survey in September 2001..

AJ5252

AJ5252.The orthometric height was determined by differential leveling

AJ5252.and adjusted by the National Geodetic Survey in November 2001..

AJ5252

AJ5252.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AJ5252

AJ5252.The Laplace correction was computed from DEFLEC99 derived deflections.

AJ5252

AJ5252.The ellipsoidal height was determined by GPS observations

AJ5252.and is referenced to NAD 83.

AJ5252

AJ5252.The geoid height was determined by GEOID03.

AJ5252

AJ5252.The dynamic height is computed by dividing the NAVD 88

AJ5252.geopotential number by the normal gravity value computed on the

AJ5252.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ5252.degrees latitude (g = 980.6199 gals.).

AJ5252

AJ5252.The modeled gravity was interpolated from observed gravity values.

AJ5252

AJ5252; North East Units Scale Factor Converg.

AJ5252;SPC FL E - 312,640.005 267,495.427 MT 0.99999739 +0 18 38.9

AJ5252;SPC FL E - 1,025,719.75 877,607.91 sFT 0.99999739 +0 18 38.9

AJ5252;UTM 17 - 3,003,665.315 567,472.398 MT 0.99965620 +0 18 38.9

AJ5252

AJ5252! - Elev Factor x Scale Factor = Combined Factor
 AJ5252!SPC FL E - 1.00000333 x 0.99999739 = 1.00000072
 AJ5252!UTM 17 - 1.00000333 x 0.99965620 = 0.99965952
 AJ5252
 AJ5252 SUPERSEDED SURVEY CONTROL
 AJ5252
 AJ5252.No superseded survey control is available for this station.
 AJ5252
 AJ5252_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL6747203665(NAD 83)
 AJ5252_MARKER: DH = HORIZONTAL CONTROL DISK
 AJ5252_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AJ5252_STAMPING: GCY D10 2001
 AJ5252_MARK LOGO: FL-085
 AJ5252_PROJECTION: FLUSH
 AJ5252_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 AJ5252_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AJ5252+STABILITY: SURFACE MOTION
 AJ5252_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AJ5252+SATELLITE: SATELLITE OBSERVATIONS - July 19, 2001
 AJ5252

AJ5252	HISTORY	- Date	Condition	Report By
AJ5252	HISTORY	- 20010508	MONUMENTED	GCYI
AJ5252	HISTORY	- 20010719	GOOD	GCYI

 AJ5252
 AJ5252 STATION DESCRIPTION
 AJ5252
 AJ5252'DESCRIBED BY G.C.Y., INCORPORATED 2001 (MDL)
 AJ5252'THE STATION IS LOCATED 8.3 KM (5.2 MI) SOUTHWEST OF STUART, 21.3 KM
 AJ5252'(13.2 MI)
 AJ5252'NORTHWEST OF HOBE SOUND AND 20.8 KM (12.9 MI) NORTHEAST OF INDIANTOWN
 AJ5252'IN
 AJ5252'THE WEST RIGHT OF WAY OF C.R. 76-A (LOOP ROAD) IN SECTION 22, TOWNSHIP
 AJ5252'38
 AJ5252'SOUTH, RANGE 40 EAST, MARTIN COUNTY, FLORIDA.
 AJ5252'
 AJ5252'TO REACH THE STATION FROM THE INTERSECTION OF THE SUNSHINE STATE
 AJ5252'PARKWAY AND S.R. 714, GO WEST ON S.R. 714, 1.4 KM (0.9 MI) TO THE
 AJ5252'INTERSECTION
 AJ5252'WITH C.R. 76-A (LOOP ROAD), THEN SOUTH ON LOOP ROAD, 0.9 KM (0.5 MI)
 AJ5252'TO THE
 AJ5252' STATION ON THE RIGHT.
 AJ5252'
 AJ5252'THE STATION IS 2.6 M (8.5 FT) WEST OF THE WEST EDGE OF PAVEMENT OF
 AJ5252'C.R.76-A,
 AJ5252'33.2 M (109 FT) NORTH OF THE DRIVEWAY INTO ADDRESS 4289 AND 0.7 M (2.3
 AJ5252'FT)
 AJ5252'EAST OF A CARSONITE WITNESS POST .
 AJ5252'REFERENCES-
 AJ5252'GCY, INC. MAG NAIL AND WASHER IN WOOD POWER POLE - 356 DEG. MAG. AZ.,
 AJ5252'45.44M
 AJ5252'(149.07 FT)
 AJ5252'GCY, INC. MAG NAIL AND WASHER IN WEST EDGE OF PAVEMENT C.R. 76-A - 26
 AJ5252'DEG.
 AJ5252'MAG.
 AJ5252'AZ., 8.63 M (28.30 FT)
 AJ5252'GCY, INC. MAG NAIL AND WASHER IN WEST EDGE OF PAVEMENT C.R. 76-A -
 AJ5252'162 DEG.
 AJ5252'MAG. AZ., 8.84 M (29.00 FT)
 AJ5252'GCY, INC. MAG NAIL AND WASHER IN WOOD POWER POLE - 198 DEG. MAG. AZ.,
 AJ5252'29.13 M

AJ5252' (95.57 FT)

AJ5252'

AJ5252'NOTE-

AJ5252'DEEP ONE MAGNET BURIED AT NORTH SIDE OF MONUMENT.

AJ5252'

AJ5252'

AJ5252'

AJ5252'

AJ5252'

AJ5252

AJ5252

STATION RECOVERY (2001)

AJ5252

AJ5252'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (MDL)

AJ5252'RECOVERED AS DESCRIBED.

*** retrieval complete.

Elapsed Time = 00:00:00

LEVEL RUN

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-88	NOTES
	NGS BM	4.49							
01/13/06	AJ5614	3.99	3.99	9.63				5.64	
	(SLR 300)	3.48							
					7.21				
(FB 2564, PG 43...)	TP#1				5.17	5.17	4.46		
					3.13				
		6.85							
	SHAKE	5.13	5.13	9.58					
		3.40							
					7.83				
	TP#2				5.94	5.94	3.64		
					4.05				
		6.55							
	SHAKE	4.62	4.62	8.26					
		2.68							
					6.06				
	TP#3				4.35	4.35	3.91		
					2.64				
		7.23							
	SHAKE	5.48	5.48	9.38					
		3.73							
					9.11				
	TP#4				7.09	7.09	2.29		
					5.07				
		8.41							
	SHAKE	6.92	6.92	9.21					
		5.43							
					7.35				
	TP#5				5.38	5.38	3.83		
					3.41				
		4.09							
	SHAKE	2.22	2.22	6.05					
		0.35							
					4.86				
	TP#6				2.87	2.87	3.18		
					0.88				
		7.91							
	SHAKE	6.08	6.08	9.26					
		4.25							
					7.46				
	TP#7				5.79	5.79	3.48		
					4.11				
		7.00							
	SHAKE	5.44	5.44	8.91					
		3.87							
					7.45				
	TBM#1				5.93	5.93	2.99		
					4.40				

LEVEL RUN

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-88	NOTES
		7.74							
	SHAKE	6.56	6.56	9.55					
		5.38							
	TBM#2				7.91				
					6.58	6.58	2.97		
					5.25				
	SHAKE	7.50							
		5.83	5.83	8.80					
		4.15							
	TP#8				6.89				
					5.32	5.32	3.48		
					3.75				
	SHAKE	7.38							
		5.71	5.71	9.18					
		4.03							
	TP#9				7.83				
					6.00	6.00	3.18		
					4.17				
	SHAKE	4.95							
		2.96	2.96	6.14					
		0.97							
	TP#10				4.18				
					2.31	2.31	3.83		
					0.44				
	SHAKE	7.18							
		5.21	5.21	9.04					
		3.24							
	TP#11				8.23				
					6.75	6.75	2.30		
					5.26				
	SHAKE	9.06							
		7.05	7.05	9.34					
		5.03							
	TP#12				7.17				
					5.43	5.43	3.92		
					3.68				
	SHAKE	6.02							
		4.31	4.31	8.22					
		2.60							
	TP#13				6.50				
					4.57	4.57	3.65		
					2.64				
	SHAKE	7.76							
		5.87	5.87	9.52					
		3.98							
	TP#14				6.77				
					5.05	5.05	4.47		
					3.33				
	SHAKE	7.68							
		5.62	5.62	10.09					
		3.55							

LEVEL RUN

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-88	NOTES
					4.91				
	TP#15				4.43	4.43	5.66		
					3.95				
		6.50							
	SHAKE	5.07	5.07	10.73					
		3.64							
	NGS BM				7.69				ERROR
	AF7129				5.23	5.23	5.50	5.48	-0.02
	(SLR 39)				2.77				
		5.85							
	TBM#1	5.69	5.69	8.68				2.99	
		5.53							
	WELL				4.55				TOP OF PIPE
	M1267				4.27	4.27	4.41		WELL
					3.99				M1267
		4.59							
	SHAKE	4.25	4.25	8.65					
		3.90							
	DISK				5.65				SET SFWMD
	M1267				5.07	5.07	3.59		DISK STAMPED
					4.49				M 1267 2006
		5.84							
	SHAKE	5.26	5.26	8.85					
		4.68							
01/13/06					6.14				ERROR
(FB 2564, PG 47)	TBM#2				5.87	5.87	2.98	2.97	0.00
					5.60				

LEVEL RUN

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-29	NOTES
	NGS BM	4.49							
01/13/06	AJ5614	3.99	3.99	11.08				7.09	
	(SLR 300)	3.48							
					7.21				
(FB 2564, PG 43...)	TP#1				5.17	5.17	5.91		
					3.13				
		6.85							
	SHAKE	5.13	5.13	11.03					
		3.40							
					7.83				
	TP#2				5.94	5.94	5.09		
					4.05				
		6.55							
	SHAKE	4.62	4.62	9.71					
		2.68							
					6.06				
	TP#3				4.35	4.35	5.36		
					2.64				
		7.23							
	SHAKE	5.48	5.48	10.83					
		3.73							
					9.11				
	TP#4				7.09	7.09	3.74		
					5.07				
		8.41							
	SHAKE	6.92	6.92	10.66					
		5.43							
					7.35				
	TP#5				5.38	5.38	5.28		
					3.41				
		4.09							
	SHAKE	2.22	2.22	7.50					
		0.35							
					4.86				
	TP#6				2.87	2.87	4.63		
					0.88				
		7.91							
	SHAKE	6.08	6.08	10.71					
		4.25							
					7.46				
	TP#7				5.79	5.79	4.93		
					4.11				
		7.00							
	SHAKE	5.44	5.44	10.36					
		3.87							
					7.45				
	TBM#1				5.93	5.93	4.44		
					4.40				

LEVEL RUN

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-29	NOTES
		7.74							
	SHAKE	6.56	6.56	11.00					
		5.38							
					7.91				
	TBM#2				6.58	6.58	4.42		
					5.25				
		7.50							
	SHAKE	5.83	5.83	10.25					
		4.15							
					6.89				
	TP#8				5.32	5.32	4.93		
					3.75				
		7.38							
	SHAKE	5.71	5.71	10.63					
		4.03							
					7.83				
	TP#9				6.00	6.00	4.63		
					4.17				
		4.95							
	SHAKE	2.96	2.96	7.59					
		0.97							
					4.18				
	TP#10				2.31	2.31	5.28		
					0.44				
		7.18							
	SHAKE	5.21	5.21	10.49					
		3.24							
					8.23				
	TP#11				6.75	6.75	3.75		
					5.26				
		9.06							
	SHAKE	7.05	7.05	10.79					
		5.03							
					7.17				
	TP#12				5.43	5.43	5.37		
					3.68				
		6.02							
	SHAKE	4.31	4.31	9.67					
		2.60							
					6.50				
	TP#13				4.57	4.57	5.10		
					2.64				
		7.76							
	SHAKE	5.87	5.87	10.97					
		3.98							
					6.77				
	TP#14				5.05	5.05	5.92		
					3.33				
		7.68							
	SHAKE	5.62	5.62	11.54					
		3.55							

LEVEL RUN

DATE	STA	BS	MEAN	HI	FS	MEAN	ELEV	BM ELEV. NAVD-29	NOTES
					4.91				
	TP#15				4.43	4.43	7.11		
					3.95				
		6.50							
	SHAKE	5.07	5.07	12.18					
		3.64							
	NGS BM				7.69				ERROR
	AF7129				5.23	5.23	6.95	6.936338	-0.01
	(SLR 39)				2.77				
		5.85							
	TBM#1	5.69	5.69	10.13				4.44	
		5.53							
	WELL				4.55				TOP OF PIPE
	M1267				4.27	4.27	5.86		WELL
					3.99				M1267
		4.59							
	SHAKE	4.25	4.25	10.10					
		3.90							
	DISK				5.65				SET SFWMD
	M1267				5.07	5.07	5.04		DISK STAMPED
					4.49				M 1267 2006
		5.84							
	SHAKE	5.26	5.26	10.30					
		4.68							
01/13/06					6.14				ERROR
(FB 2564, PG 47)	TBM#2				5.87	5.87	4.43	4.42	0.00
					5.60				