



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

USGS Station Name: Not applicable		SCADA RTU Station Name: Not Applicable		DB Hydro Station Name: ORS-6 ORS-7		DB Hydro Site Name: WRLGTE WRLGTE		Agency: WMD	
Party Chief: RODRIGUEZ/EBANKS		Field Book: NONE		Page	Date of Field Work: 25-aug-14		Prepared by: H. Ehmke 23-jul-20		
BENCHMARK DATA									
Site Benchmark: WRLGTE		Site Benchmark El. 93.14 NAVD88 94.03 NGVD29		NGS Source Benchmark: L715 003 (AA6743)		NGS Source Benchmark El.: 91.437 NAVD88		+0.879 Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29) +0.94 - Historical Conversion Factor *	
SITE SPECIFIC DATA									
GW1 (ORS-6) Reference El.: 107.521 NAVD88 (Survey) 108.40 NGVD29 (Corpscon) 108.40 NGVD29 (Historical)		GW2 (ORS-7) Reference El.: 107.611 NAVD88 (Survey) 108.49 NGVD29 (Corpscon) 108.49 NGVD29 (Historical)		Existing Brass Tag Elevation (Datum): NGVD29 GW1 – 108.40 (1-2-08 WOOLPERT) 29 GW2 – 108.49 (1-2-08 WOOLPERT) 29				Calibration Port Elevation(s) (NAVD88): Not Applicable	
Ground Elevation (NAVD88): Not Taken					Pad Elevation (NAVD88): Not Applicable				

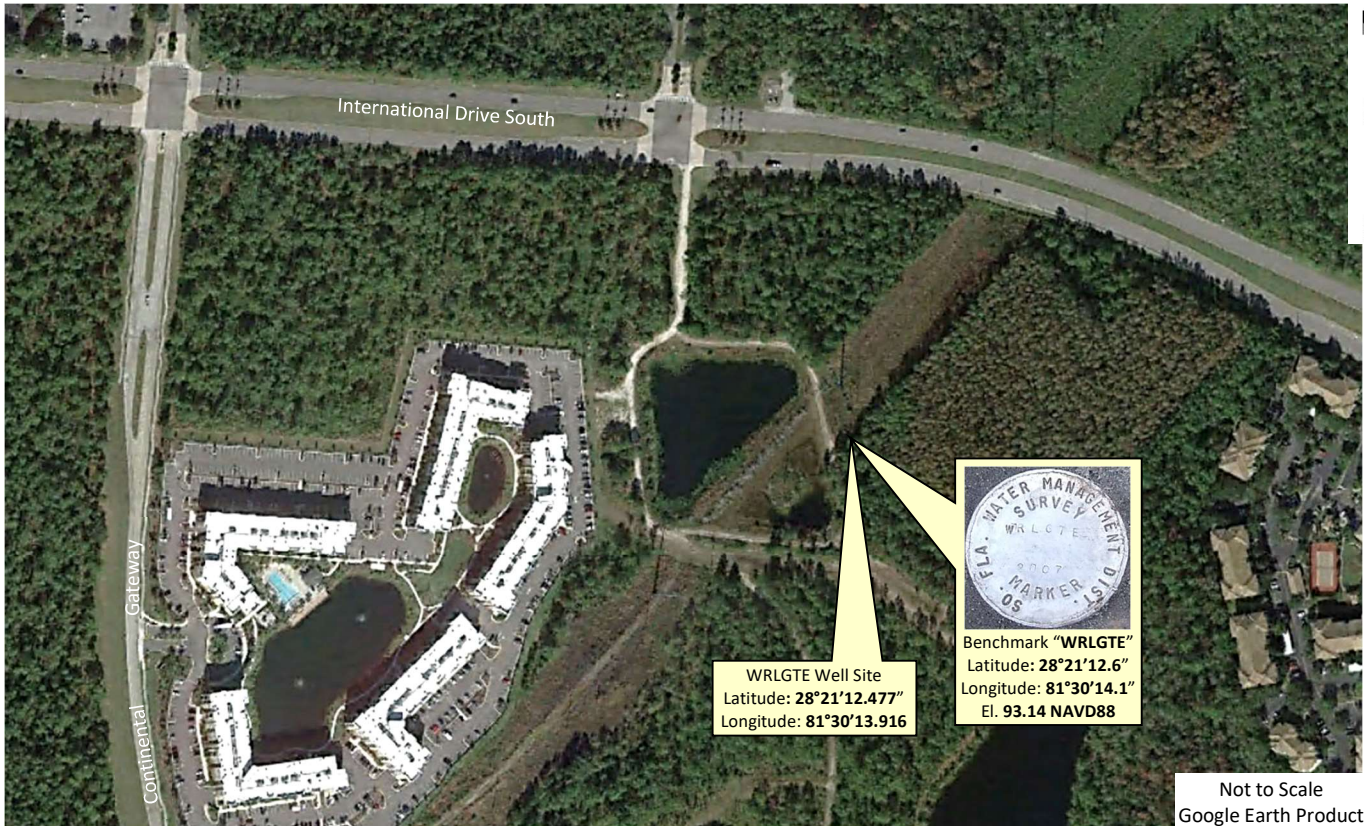
GEOGRAPHIC DATA

Section 34		Township 24 South			Range 28 East		
Well		Latitude: 28°21'12.477"		Longitude: 81°30'13.916"		Source: DBHYDRO	
		State Plane Coordinates		Northing (Y) =		Easting (X) =	

Notes:
NAVD88 – North American Vertical Datum of 1988
NGS – National Geodetic Survey
NGVD29- National Geodetic Vertical Datum of 1929
Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville FL.
Historical Conversion Factor – The difference between the NAVD88 value derived from the National Geodetic Survey Source benchmark and the value used at the time of the survey.

PICTURES

Aerial Overall Site





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Overall Well Site



Looking Northeasterly (oblique not to scale) (02-jul-19)



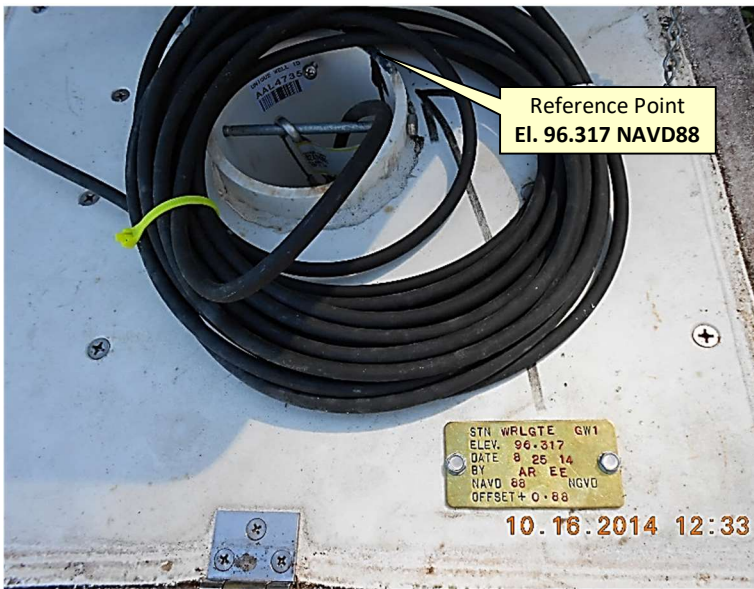
Looking Easterly (oblique not to scale) (02-jul-19)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

GW1 (ORS-6) Well Head



Looking Easterly (oblique not to scale) (16-oct-14)

Old NGVD29 Brass Tag Close-up (removed)



New NAVD88 Brass Tag Close-up (added)



GW2 (ORS-7) Well Head

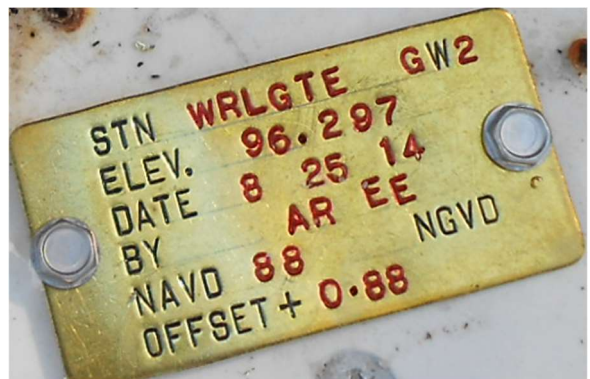


Looking Easterly (oblique not to scale) (16-oct-14)

Old NGVD29 Brass Tag Close-up (removed)



New NAVD88 Brass Tag Close-up (added)



Site Information

Site	WRLGTE
Common Name	WORLD GATEWAY PROPERTY GROUNDWATER MONITORING SITE
Location	ACCESS SR535 NORTH FROM OSCEOLA PARKWAY IN ORANGE COUNTY AND TURN LEFT INTO WORLD GATEWAY PROPERTY. PROCEED LEFT THROUGH TREES IN FRONT OF POND AND FOLLOW SHORELINE OF POND TO THE SITE LOCATED ON THE LEFT.
Site Notes	null
Contact	STEVE ANDERSON / WAYNE HERMANN

Station Information for Site WRLGTE

Station	Description	Latitude	Longitude	Xcoord	Ycoord	County	Basin	Section	Town	Range
ORS-6	WORLD GATEWAY PROPERTY - WETLAND MONITORING (GW1)	282112.477	813013.916	494106.795	1461551.173	ORA	LOWER RE	34	24	28
ORS-7	WORLD GATEWAY PROPERTY - WETLAND MONITORING (GW2)	282112.477	813013.916	494106.795	1461551.173	ORA	LOWER RE	34	24	28

Site Name	Sensor
WRLGTE	GW1

Latitude 28° 21' 12.55"	Longitude 81° 30' 14.08"	Northing 1461558	Easting 494092
Section 34	Township 24	Range 28	County Orange
			Quad Intercession City

Benchmark Information:

Name WRLGTE 2007	Existing / Set Set	NAVD88 93.14	NGVD29 94.03 <i>0.89</i>
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Reference Point Information:

Stamped Elevation (NGVD29) 97.20	Stamped Date 9-21-07	By Firm Woolpert, Inc.
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Note: Reference point at top of PVC pipe as marked.

Staff Gauge Information:

Water Elevation (NGVD29) NA	Gauge Reading NA	Time of Reading NA	Date of Reading NA
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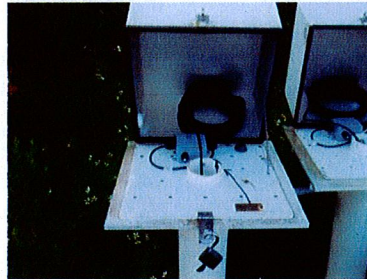
To Reach Description:

From the intersection of SR535 & HWY192 in the town of Kissimmee Florida, go north on SR535 for 1.8 miles to International Drive South. Then proceed west on International Drive South for 0.7 mile to a dirt maintenance entrance to the south past Gateway entry. Follow Dirt road south then east and south again around lake for approximately 0.2miles to the site on the left (east) side of road.

Sensor Well Area:



Sensor Well:



Tag Close-up:



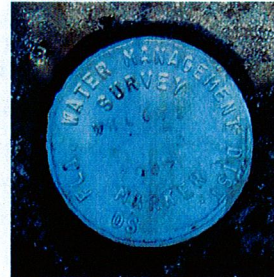
Bench Mark:



Bench Mark:



Bench Mark:



*96.317
(navd88)
corpcon*

Corpcon = +0.883

Site Name	Sensor
WRLGTE	GW2

Latitude 28° 21' 12.55"	Longitude 81° 30' 14.08"	Northing 1461558	Easting 494092
Section 34	Township 24	Range 28	County Orange
			Quad Intercession City

Benchmark Information:

Name WRLGTE 2007	Existing / Set Set	NAVD88 93.14	NGVD29 94.03
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Reference Point Information:

Stamped Elevation (NGVD29) 97.18	Stamped Date 9-21-07	By Firm Woolpert, Inc.
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Note: Reference point at top of PVC pipe as marked.

Staff Gauge Information:

Water Elevation (NGVD29) NA	Gauge Reading NA	Time of Reading NA	Date of Reading NA
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To Reach Description:

From the intersection of SR535 & HWY192 in the town of Kissimmee Florida, go north on SR535 for 1.8 miles to International Drive South. Then proceed west on International Drive South for 0.7 mile to a dirt maintenance entrance to the south past Gateway entry. Follow Dirt road south then east and south again around lake for approximately 0.2miles to the site on the left (east) side of road.

Sensor Well Area:



Sensor Well:



Tag Close-up:



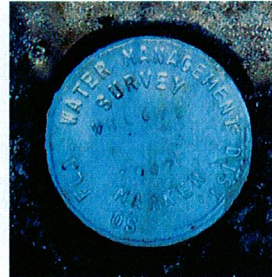
Bench Mark:



Bench Mark:



Bench Mark:



96.297
(navd 88)
corp.com

SOUTH FLORIDA WATER MANAGEMENT DISTRICT



Survey Data Entry
and Retrieval Application

Survey Data Entry and Retrieval Application (SDERA) Print Output

Control Point Search Results

Derived Data - Denoted By:
**

Designation	WRLGTE	Record State	ACCEPTED
NGS PID			
Project Name	V.D.U.P.	Date Entered/Updated	06/27/2009
Updated By	ATLAS DATA LOAD	Status	
Party Chief		Type	H/V
Monument Set By	WOOLPERT INC	Date Established	01/01/2007
County	ORANGE	Section	34
Township	24	Range	28
Quadrangle	INTERCESSION CITY	Offset (29 to 88)	
NGS Source BM		CCR Link	
Ctrl Pt Source(s)			

<u>Horizontal</u>	<u>NAD 1927</u>	<u>NAD 1983</u>	<u>Vertical</u>	<u>NGVD 1929</u>	<u>NAVD 1988</u>
Latitude		28 21 12.6	Class		
Longitude		81 30 14.1	Order	3	
Northing(Y)		1461558.0	Elevation	94.03	93.14
Easting(X)		494092.0	Measurement Unit	Feet	Feet
Class					
Order					
NAD83 Adj Year					

Field Book
WO104

Field Book Pages
28

Stamping
WRLGTE 2007

How to Reach

Description

9/12/2007 CESTNICK, WOOLPERT, INC. CONTRACTOR S FB WO104 PAGE 28
TO REACH FROM THE INTERSECTION OF STATE ROAD 535 AND HIGHWAY 192 IN THE TOWN OF
KISSIMMEE,
FLORIDA; GO NORTH ON STATE ROAD 535 FOR 1.8 MILES TO INTERNATIONAL DRIVE SOUTH.
THEN PROCEED
WEST ON INTERNATIONAL DRIVE SOUTH FOR 0.7 OF A MILE TO A DIRT MAINTENANCE
ENTRANCE TO THE SOUTH
PAST GATEWAY ENTRY. FOLLOW DIRT ROAD SOUTH THEN EAST AND SOUTH AGAIN
AROUND LAKE FOR APPROXIMATELY 0.2 OF A MILE TO THE BENCHMARK ON THE LEFT (EAST)
SIDE OF ROAD.

BENCHMARK IS +/- 20 FT WEST OF WELL, SOUTH EAST OF HIGH TENSION OVERHEAD WIRES, AND EAST OF LAKE. THE BENCHMARK IS A SFWMD DISC ON THE 8 INCH DIAMETER AND 40 INCHES DEEP CONCRETE MONUMENT INCASED BY A PVC PIPE.

DISCLAIMER:

The South Florida Water Management District (hereinafter referred to as the DISTRICT) shall not be held liable for improper or incorrect use of the data, information, apparatus, products, processes or materials described and/or contained herein. These data, information, apparatus, products, processes, materials and related graphics are not legal documents and are not intended to be used as such. The user hereby recognizes that the information, data, apparatus, products, processes and materials are dynamic and may change over time without notice. However, the DISTRICT makes no commitment to update the information, data, apparatus, products, processes or materials contained herein.

Office

Project

23 June 2014

INPUT

Geographic, NAD83
Vertical - NAVD88, U.S. Feet

OUTPUT

Geographic, NAD83
Vertical - NGVD29 (Custom), U.S. Feet

wrlgte

1/1

Latitude: 28 21 12.55
Longitude: 081 30 14.08
Elevation/Z: 0

Latitude: 28.353486111
Longitude: 81.503911111
Elevation/Z: 0.883

Remark:

REGISTRATION WORKSHEET - WRLGTE Addendum

Site Name: **WRLGTE** Today's Date: **10/21/2014** Type Recorder: **CR10**
 Activity: **Addendum** Effective Date: **10/16/2014** Start Date of Data :
 Customer: **Garnett Ritchie** Bus. Area: **SCADA Maintenance** Agency: **SFWMD** Internal Order:
 Fund:
 Project Manager: **Jim Vincent** Bus. Area: **SCADA Maintenance** Agency: **SFWMD** Contract #:
 Project Name: **VDUP** Legal Mandate: **Unknown**

Short Common Name / Description: **WRLGTE**

Proj. Mgr. Notes: **Addendum for sensor calibration to NAVD88 Surveyed Data. To convert to NGVD 29 add + 0.883**

Site Directions: **From the Florida Turnpike exit at US192, drive west for approximately 11.4 miles to SR535 (Vineland.) Turn right on to SR535 and drive for approximately 1.85 miles to International Drive South. Turn left on to International Drive South and drive for approximately .62 miles to International Avenue. Turn left at International Avenue and then drive for approximately .06 miles to a retention, then turn left and follow the perimeter of the retention pond around to the site.**

Site Address (if any):

Transportation: **4X4 Vehicle** Lock type or combination: **Abloy S** #

Recorder Location/Purpose: **Stand-Alone Recorder (Non-Flow Site)** Structure Type:

Array ID Configuration table attached **NO**

SURVEY INFORMATION

B.M. Elevation: **93.140** Date: **9/21/2007** Stamp: **WRLGTE2007**
 Agency: **SFWMD** Type: **ALUM** Datum: **NAVD 88**

Benchmark Location/ Description: **Benchmark is +/- 20 ft west of well**

COMMUNICATIONS INFORMATION

Communications System: **Loggernet** Loggernet Server: **STCLOG1** Loggernet IP Address: **141.232.83.94**

Tower: **STCLDT** Communication Type: **R.F. (V.H.F. Radio)** R.F. Code/Modem Address: **96** R.F. Access Point: **NO**

Phone Number:

RTU Address: Gateways:

WELL INFORMATION

Sensor	Customer Ref	Ref Elev	Elev Date	Top of Well	Bottom of Well	Ground Elev	Benchmark Elev	Benchmark Datum	Ref Elevation Location
GW1		96.317	8/25/2014				93.14	NAVD 88	Top of the pipe
GW2		96.297	8/25/2014				93.14	NAVD 88	Top of the pipe

Sensor	GW Sensor Location Offset	Meas Pt Elevation	GW Land Elevation	Depth of Well	Type of Well	Top of Monitored Interval	Base of Monitored Interval	Parameter Transmitted
GW1				35'	Static			
GW2				12'	Static			

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
GW1	N28° 21' 12.49"	W81° 30' 13.9"	494109.27	1461552	34	24	28	3513	Lower Reedy Creek	Orange	
GW2	N28° 21' 12.49"	W81° 30' 13.9"	494109.27	1461552	34	24	28	3513	Lower Reedy Creek	Orange	
RTU	N28° 21' 12.49"	W81° 30' 13.9"	494109.27	1461552	34	24	28	3513	Lower Reedy Creek	Orange	



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

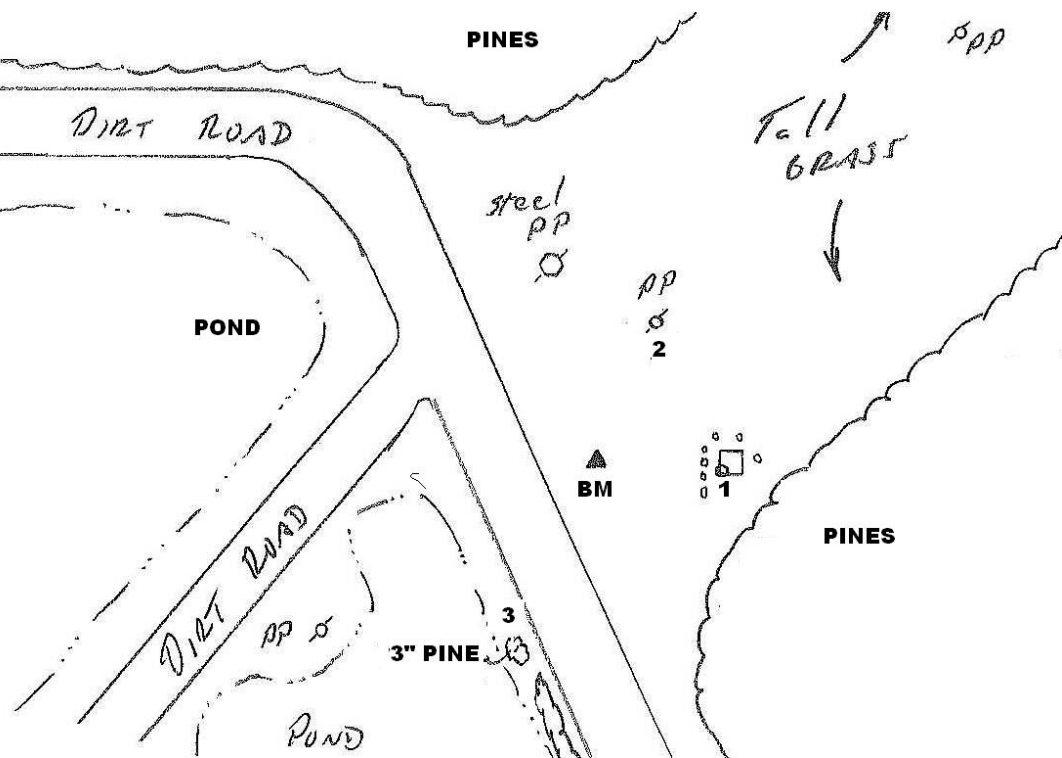
COUNTY	ORANGE	PROJECT	VDUP- Reference Elevation Audit Project # 1	DESIGNATION	WRLGTE
SECTION	34	TOWNSHIP	24S	RANGE	28E
GEOGRAPHIC INDEX OF QUAD 28081-C5					
Established by WOOLPERT			NAME OF QUADRANGLE INTERCESSION CITY		
SURVEYOR JOHN CESTNICK DATE 9 / 12 / 2007			FIELD BOOK W0104-28 PAGE		
HORIZONTAL DATUM: 1983 ZONE E					
VERTICAL DATUM: NGVD 1929 (CORPSCON) NAVD 1988					
CONTROL ACCURACY: HORIZONTAL GPS RTD VERTICAL 3					
STATE PLANE COORDINATES	X	494092	Y	1461558	EL. NGVD 29 94.03 NAVD 88 93.14
LATITUDE	28° 21' 12.6"	LONGITUDE	81° 30' 14.1"		
DESCRIPTION					

To Reach:
From the intersection of SR535 & HWY192 in the town of Kissimmee Florida, go north on SR535 for 1.8 miles to International Drive South. Then proceed west on International Drive South for 0.7 mile to a dirt maintenance entrance to the south past Gateway entry. Follow Dirt road south then east and south again around lake for approximately 0.2miles to the BM on the left (east) side of road. BM is +/- 20 west of well, SE of high tension overhead wires, and east of lake. The BM is a SFWMD disc on an 8" diameter & 40" deep concrete monument incased by a PVC pipe.

SKETCH

References:

- 270° and 1' from carsonite sign
- 270° and 25' from antenna pole.
- 207° and 95' from power pole.
- 27° and 79' from 3" pine tree.



S
M
U
R
V
E
Y

