Specific Purpose Survey of the Monitoring Well Structure AIR 19-G Orange County, Florida

South Florida Water Management District's Purchase Order number 4500001788

Keith and Schnars project number 16434.07 Task 22006 Report Date: September 05, 2006 Submittal: First

**Prepared for:** 

# South Florida Water Management District

**Prepared by:** 



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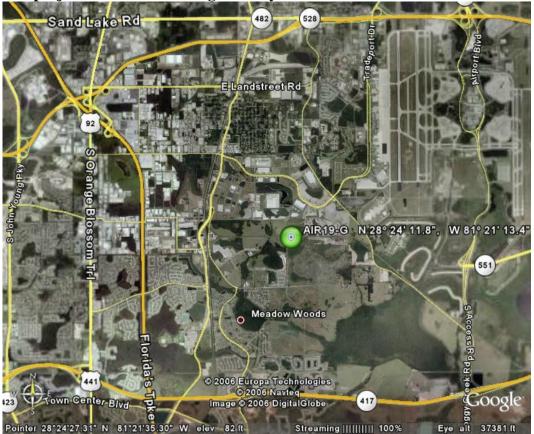
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#### **PURPOSE**

To establish vertical data (NAVD 1988 and NGVD 1929) on the Monitoring Wells at the structure.

#### LOCATION OF PROJECT

The project is located in Orange County.



#### **ITEMS DELIVERED TO THE DISTRICT**

- 1. Electronic copy of field notes.
- 2. Electronic copy of all computation sheets.
- 3. CORPSMET 95 file.
- 4. Site photographs.
- 5. Surveyor's Report.

#### DATUM FOR THE PROJECT

The vertical datum for the project is North American Datum of 1988 (NAVD '88). National Geodetic Survey vertical control monuments with published NAVD '88 elevations were used as the basis for this survey. The National Geodetic Vertical Datum of 1929 (NGVD '29) shown were computed using CORPSCON version 6.0 program.

#### LEVELING METHODS

Benchmark AIR 19-G was constructed at the site. The elevations were established from BM N 122 with a Topcon AT-F2 conventional level and three-wire observation method.

#### VERTICAL CONTROL

BM N 122	Elevation:	NAVD 1988	90.90'	NGVD 1929		
Found in National Geodetic Survey Database	Lat	itude	28°26'28" (Scaled)			
State/County FL/Orange	Lor	ngitude	-81°20'12" (Scaled)			
USGS QUAD Pine Castle (1980)						
Horiz. Order (Preliminary) Class (Preliminary)			DESCRIBED BY COAST AND GEODETIC SURVEY 1945			
			1.5 MI S FROM PINE O STATE HIGHWAY NO CASTLE, THENCE 1.5 ROAD, AT THE PINE MILE NORTH OF THE SOUTH OF THE POST NORTH OF A POINT Y OVER THE PAVED ST CENTERLINE OF THE THE NORTH END OF N 122 1945. NOTE P MC COY AFB. THE PO ROAD ANYMORE. TH BUILDING 140, 8595 A NW OF THE COMMIS	3 A FROM T MILE EAST CASTLE ARM MAIN HANG HEADQUAR WHERE A PO CREET, 24 FE PAVED STR A CONCRET INECASTLE . OWER LINE I HE MARK IS AVENUE C, A	THE POST OFFIC ALONG A ASPH AY AIR FIELD, A GAR, ABOUT 0.6 TERS, ABOUT 3 WER LINE CRO ET WEST OF TH EET, IRON DISH E CULVERT. ST ARMY AIR FIEL DOES NOT CROS DIRECTLY WES ND ABOUT 500	E AT PINE IALT ABOUT 1.0 5 MILE 30 FEET SSES IE CAUPED D IS NOW SS THE ST OF

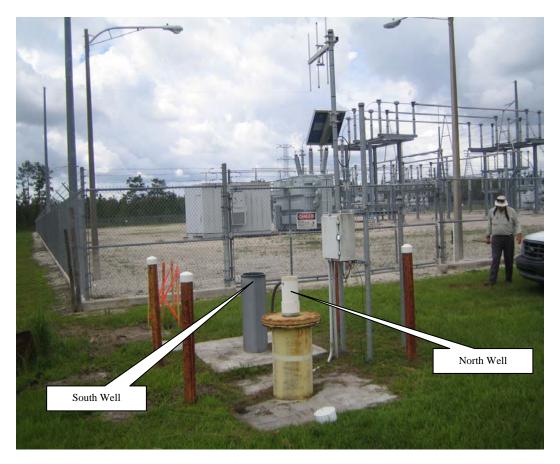
## PROJECT RESULTS

## WELL SITE AIR 19-G

South Monitoring Well	North Monitoring Well
Monitoring Well AIR 19-G:	Monitoring Well AIR 19-G:
Reference mark:	Reference mark:
<u>Set mark on N. side PVC pipe</u>	<u>Set mark on N. side PVC pipe</u>
<u>With initials K&amp;S.</u>	<u>With initials K&amp;S.</u>
New Reference	New Reference
Mark El. <u>89.418'</u>	Mark El. <b>90.058</b> <sup>•</sup>
(NGVD '29)	(NGVD '29)
(Wrote -0.930' to NAVD 1988).	(Wrote -0.930' to NAVD 1988).
Initials:	Initials:
<u>K&amp;S</u>	<u>K&amp;S</u>
<u>B.L., J.B., D.T.</u>	<u>B.L., J.B., D.T.</u>
Date:	Date:
<u>8/26/06</u>	<u>8/26/06</u>
written at the mark:	written at the mark:
El. <b>89.38'</b>	El. <b>90.01'</b>
Date: <b>00/00/00</b>	Date: <b>00/00/00</b>
By: <b>None</b>	By: <u>None</u>
Reference Mark location:	Reference Mark location:

# PROJECT PHOTO

# WELL SITE AIR 19-G



#### PROJECT PHOTO

## WELL SITE AIR 19-G SOUTH WELL



#### PROJECT PHOTO

#### WELL SITE AIR 19-G NORTH WELL



# PROJECT PHOTO

## WELL SITE AIR 19-G



#### PROJECT PHOTO

## WELL SITE AIR 19-G



#### Comments:

Party Chief: <u>B. LANDRY</u> Field Book: <u>1165</u> Page <u>26-40</u> Bench Mark: "<u>N 122"</u> El. <u>90.90'</u>, Vertical Datum: <u>NAVD1988</u> Offset: <u>0.930'</u> SFWMD VALUE (add this value to convert to NGVD 1929) Offset: <u>0.930'</u> NGS VALUE (add this value to convert to NGVD 1929) NAVD 88 - North American Vertical Datum of 1988 NGVD29 -National Geodetic Vertical Datum of 1929 NAD 83-99 (Horizontal Datum) North American Datum NGS- National Geodetic Survey SFWMD- South Florida Water Management District PVC- Polyvinyl Chloride

#### SURVEYOR'S CERTIFICATION

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

> **KEITH and SCHNARS, PA. L.B. number 1337**

By:

Date of Survey August 26, 2006 Kenneth T. Glass, PSM Professional Surveyor and Mapper State of Florida Certificate No. 5713

$W_{\text{ED}} = 0.62, 2.3, 2.002$		
Jog # 16434.07		1165 - 26
LDC CR 527, OR ANDO CREW B.A. LANDRY VIL		
FOR SEWMO- MONITORING WELLS (AIRIG-G) D.L. THOMAS' M	THIS BENCHRUL IS BASED ON	L NAND'88
WORK BENCH RUNS J. W. BENTTON ?		
EQUIP TOPCON AT EZ (BOSINS), LEVEL ROD		
WEATHER P. CLOUDY 920		┼╴┼╌┼╌┼╶┼╶┽╶┽╼┼╌┽╶┼╼┽╶┼╼┽╶┼╶┥ <del>╎╎╹╡╹╋╍╋╝╡╺╋╍╎╍┥╶┥╼┥╴╎╍╋╺╞╸┥</del> ╸
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6.07		
TP2 - 540 5403 500 500 500		
	PK NAU - WEST EDGE OF DAETAN	YLER DRIVE
16.21		
<u> </u>		
TP3 - 582 5817 - 542 5420		
<u>H173</u>	PK NAIL - WEST EDGE OF DAETTU	YLER DRIVE
17.45		
	PK NALL - FAST EDGE OF DAETUY	YLER DRIVE
	(ABOUT 100' SOUTH OF &	OF BARNSTARLE PL
5,39		
	PK NAIL	
<u>3/26</u> <u>1/2,98</u> <u>20,40</u>		
1304 1087		

8-23-06		CONT. FROM PG, 26		1165-27
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8-23-06	SAME CREW; CONT. FROM P	6,27		- 28
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		6.47	ELEV ADJEL REMARKS	+++++++++++++++++++++++++++++++++++++++
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6,68		<u> </u>		┿╾╄╼ <del>╄╺╄╺</del> ╧╼ <b>┦</b> ┍ <del>╴</del> ╴╴╄╼╌╄╼╶╄╸┥
TP 14 5 57	5.570	5.32 5.323	SIALUE DESC AS TOP 13	┝╌┼╌┼╌┤ ┿╴┿╍┿╌┼╍┿╼┨
N H HG		4,2,1		
16.71		15.97		
6.62		6.52		
M S SO	5.5.2	5.40/ 5.410		
4,39	7	430	Same dese as the 14	
6.54				
		6.63		
N 397		5.302 5517	SAME DESC AS TP 15	
		6.55		
		6.49		
		5.20 5.203	SAME DESC AS TP 6	
430		3.92		
<b>G.23</b>		15-61		
6,43		6.50		
TP 18 5.28	5.283	5.37 5,373	SAME DESC AS TO 17	
		4.29		
15.85		16.18		
G.G.7		6.60		┟╼╂╼╌┼╼┨
TP 19 m 5.51	5,507		SAME DESC ASTR 18	
N 434		4.3		
16.52		16 36		
TP 20 10 5 25		6.62		
	5.253		SAME DESC AS TP 19	
ИЛИЗ		4 29		
15.76		16.36		
22011				

Bin         Lask         Min         P2         DX         Min         P2           4 10         5 (5 (1))         5 (10) <th>8-23-06 SAME CREW; CONT. FRO</th> <th>v 28</th> <th></th> <th>1165-29</th>	8-23-06 SAME CREW; CONT. FRO	v 28		1165-29
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TP: 22     N     2.547.     N     5.787.     S     5.787.       TP: 22     N     175.35     1.257.     S     5.787.     S       TP: 23     N     5.746     5.443.     S     S       TP: 24     N     5.747.     S     S       SAME bizs A TP 21     SAME bizs A TP 21       TP: 24     SAME bizs A TP 21       SAME bizs A TP 21     SAME bizs A TP 21       SAME bizs A TP 21     SAME bizs A TP 21       SAME bizs A TP 21     SAME bizs A TP 21       SAME bizs A TP 21     SAME bizs A TP 21       SAME bizs A TP 23     SAME bizs A TP 21       SAME bizs A TP 23     SAME bizs A TP 23	16,413	1591		
TP: 22     N     2.547.     N     5.787.     S     5.787.       TP: 22     N     175.35     1.257.     S     5.787.     S       TP: 23     N     5.746     5.443.     S     S       TP: 24     N     5.747.     S     S       SAME bizs A TP 21     SAME bizs A TP 21       TP: 24     SAME bizs A TP 21       SAME bizs A TP 21     SAME bizs A TP 21       SAME bizs A TP 21     SAME bizs A TP 21       SAME bizs A TP 21     SAME bizs A TP 21       SAME bizs A TP 21     SAME bizs A TP 21       SAME bizs A TP 23     SAME bizs A TP 21       SAME bizs A TP 23     SAME bizs A TP 23				
MISS.         V24           17.005         16.18           17.005         16.18           17.005         16.18           17.005         16.18           17.005         16.18           17.005         16.18           17.005         16.18           17.005         16.18           16.26         16.27           16.26         16.29           16.26         16.29           16.26         16.29           16.26         16.29           16.26         16.29           16.26         16.29           16.26         16.29           16.26         16.29           16.26         16.29           16.27         16.29           16.28         16.29           16.29         16.29           16.20         16.29           16.21         16.29           17.22         16.29           18.29         16.29           18.29         16.29           18.29         16.29           18.29         16.29           18.29         16.29           18.29         16.23           18		M + 1 + 4		
17.45         6.18           17.925         3.44         3.431         0.57           13.52         13.431         0.57         17.725         5.846         5.856           14.53         15.53         15.637         15.737         3.646         5.66         15.637           17.725         15.737         15.737         3.646         5.63         15.637         15.737         3.646         5.64         15.21         15.737         3.646         5.64         15.21         15.737         3.646         5.64         15.21         15.737         3.646         5.64         15.21         15.737         3.646         5.64         15.22         15.737         3.646         5.65         15.64         15.22         15.737         3.646         5.65         15.64         15.62         15.62         15.62         15.62         15.62         15.62         15.62         15.62         15.63         16.63			SAME DEG AS TP 21	
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H.35         H.35           16.39         10.19           16.34         2.32           17724         5.41           17725         1.4765           17727         1.4765           17727         1.4765           16.38         1.4765           17727         1.4765           17727         1.4765           16.38         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17728         1.4765           17728         1.4744 <th></th> <th></th> <th></th> <th>· · · · · · · · · · · · · · · · · · ·</th>				· · · · · · · · · · · · · · · · · · ·
H.35         H.35           16.39         10.19           16.34         2.32           17724         5.41           17725         1.4765           17727         1.4765           17727         1.4765           16.38         1.4765           17727         1.4765           17727         1.4765           16.38         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17728         1.4765           17728         1.4744 <th>660</th> <th></th> <th></th> <th>n or han a na maga maga sa sa</th>	660			n or han a na maga maga sa
H.35         H.35           16.39         10.19           16.34         2.32           17724         5.41           17725         1.4765           17727         1.4765           17727         1.4765           16.38         1.4765           17727         1.4765           17727         1.4765           16.38         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17727         1.4765           17728         1.4765           17728         1.4744 <th></th> <th>0 N 5 73 5 730</th> <th></th> <th>teres as a constraint of the second sec</th>		0 N 5 73 5 730		teres as a constraint of the second sec
16.35         10.35           5.36         5.31           7724         5.31           5.36         5.37           7724         5.32           5.36         5.36           7724         5.36           5.36         5.36           7724         5.193           5.36         7.52           7724         5.193           5.36         7.52           6.33         1.52           6.33         1.52           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           7724         5.193           11558         6.621      <	<u> </u>	4.59		
6.864     6.87       #P241     S.24       M.07     4.47       H.07     4.40       H.07     5.44       H.07     5.44       H.07     5.44       H.07     5.44       H.07     5.44       H.178     4.300       M.178     1.721       H.178     1.721       H.178     1.721       H.178     1.721       H.178     1.721       H.178     1.721       H.178     1.725	16.39	17-19		· · · · · · · · · · · · · · · · · · ·
P24     5721     5.313     5.737     5.737       H-57     H-60     1221       H-57     H-60       5.64     1221       H-25     5.88       H-25     1.293       H-25     1.293       H-25     1.293       H-26     1.293       H-25     1.293       H-26     1.293       H-27     1.293				
HP 24     5,21     5,213     5,74     5,737       H,67     H,60     12,21       H,67     12,21       H,67     12,21       H,67     12,21       H,60     12,21       H,26     12,88       H,25     12,89       H,260     12,89       H,25     12,89       H,26     14,90       H,26     14,90       H,26     14,90       H,26     14,90       H,26     14,90       H,27     14,90       H,28 <t< th=""><th></th><th>6.87</th><th></th><th>e el l'en e de al al al al al al a</th></t<>		6.87		e el l'en e de al al al al al al a
H.67     H.60       15.44     17.21       17.25     14.50       14.50     17.83       14.50     17.83       14.50     17.83       14.50     17.83       14.50     17.83       14.50     17.83       14.50     17.23       15.58     14.52       15.58     16.03       15.58     16.03       17.24     17.24       15.58     16.03       15.58     16.03       17.24     17.24       15.58     16.03       17.24     17.24       15.58     16.03       16.04     12.5       15.58     16.03       17.24     17.24       17.24     17.25       15.58     16.03       17.24     17.25       15.58     16.03       17.24     17.26       17.25     17.26			SAME DESC AS TP 23	An I al I a A A A A A A A A A A A A A A A A A A
TP 25     G.02     5,88       TP 25     H.50     H.783       100     1,283     H.783       117     20     1,283       117     20     1,283       117     20     1,283       117     20     1,283       117     20     1,283       117     20     1,283       117     20     1,283       117     20     1,283       117     1,173     1,295       117     1,173     1,25       1108     1,125       1108     1,125       1108     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740       117     1,1740		4.60		ال جانب ال ال الحاد الله الم
178 25     179 25     14.900     179 23     179 23     179 23       178 25     14.900     14.923     14.923     14.923       178 26     14.925     14.925     14.925       178 26     19.193     14.925     14.925       178 26     19.193     16.53     14.925       178 26     11.06     14.25     15.98       178 26     11.06     14.25       110 6     14.25     15.98       110 6     14.25     15.98       110 6     14.25     15.98       110 6     14.25     15.98       110 6     14.25     15.98       110 6     14.25     15.98       110 6     14.25     15.98       110 6     14.25     15.98       110 6     14.25     15.98       110 6     14.25     15.98       110 7     15.58     15.947       110 8     14.90       111 9     14.90       112 2     16.54				
TP 25       N       4.900       N       4.783       A.7283         3.800       D.59       D.59       D.59       D.59       D.59         41.20       14.20       14.20       D.59       D.59         4.33       4.44       D.59       D.59       D.59         4.33       4.44       D.59       D.59       D.59         4.6.33       4.44       D.59       D.59       D.59         4.6.33       4.44       D.59       D.59       D.59         4.04       D.59       D.59       D.59       D.59         5.58       4.44       D.59       D.59       D.59         5.58       4.04       D.59       D.59       D.59         5.68       6.49       D.555       D.547       D.546         779 127       N. 479       D.555       D.547       D.547         3.60       M.790       D.555       D.547       D.548         14.22       4.64       D.429       D.547       D.548				
3.60         N         3.59           14.22         14.25           6.33         4.44           17.24         5.19           5.19         5.19           406         14.25           15.58         6.49           5.88         6.49           17.27         9           5.88         6.49           5.88         6.49           17.27         9           9.555         5.547           5.60         9           17.27         9           9.470         9	6.00			
B.82         B.157           W1.70         H.70           W1.70         S.34           M.06         H.25           H.06         H.25           IS.58         IG.03           M.710         S.555           SAME DESC AS TP 26           SAME DESC AS TP 26			SAME DESC AS TO 24	
GL33         GL44           TP 26         S 19         S 19 3         9         S 34         S 2013           4106         0         0         0         S 2013         S 2013         S 2013           15.58         16.03         16.03         16.03         S 2013         S 2013         S 2013           5.88         16.03         16.03         16.03         S 2013         S 2013         S 2013           5.88         16.03         16.03         16.03         S 2017         S 2017         S 2017           10.00         10.05         10.05         10.05         S 2017         S 2017         S 2017           10.00         10.05         10.05         10.05         S 2017         S 2017         S 2017           10.00         10.05         10.05         10.05         10.05         10.05         10.05           10.00         10.05         10.05         10.05         10.05         10.05         10.05           10.00         10.05         10.05         10.05         10.05         10.05         10.05           10.00         10.05         10.05         10.05         10.05         10.05         10.05	3.82	<b>359</b>		
TTP :26     N     5:19     5:19       4     06     4:25       15:58     16:03       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:09       5:68     6:01	14.70	14.20		
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┍┿╼╪╌╪╍╪╶╪╍╪╶╪╌╪╼ ╋ <del>╋┙┊╶╪╍╪╶╪╍╪╶┊╸╞</del> ╌	┼╪╤╤╪╍┠╌╪╾╬╌╬╌╬╌╬╍╦╧╪╌╎╴╬╸╬ ╋ <del>╕╋╺╔╺╋╹</del> ╋╌╋╼╬╌┨╌╪╍╧╼╪╌╎╴╬╸┇╸╋	18.03					
	╄ <del>╺╸╪╺┲╪╸╋╞╼</del> ┨╌┠╾ <del>┇</del> ╶┾╌╡╺┾╌┽╴╊╶╊╸ <del>┝╺┥╌┥╸┥╺┥╸╿╸╞╺╡╸╡</del> ╴╫╌╡						
┝┼┿╅┿╍┝┽╴┼┿┥┾╋┿┼┼┿┿╸	<del>╡╴╪╺╞╺╪╍╪┙╋╶</del> ╛╌╆╍╃╸┼╌┠╸╪╴╄╌╪╼╏╶╡ ╄╾╄╾╅╌┯┲┎╊╶╋╼┿╸┵╌┠╌╽╴╿╾┳╼┽╌╂╺╫╴	┿╹╔┺╵┲┶╴┶╴╸╴╋╼╴╵╄╌┿╸					
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	<del>┎╶╕┍╶╸┥╸┇╶╽╶┆╶╡╶╡┊╡╶╡╶┥</del> ╶┥	╪╪╪┥╪╪┿╴╅┄┱┊╏╏╍╍╞╶┆╞┿┿┿ ┿╢┪╈┅╴╅┥╷╷╏╺╍╌╡╎╏┟╌					
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8-25-06 SAI	ME CREW; CONT. FROM	PG. 35			······································			1165-36
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LAC       TRADEFORT PRIVE EXTENSIVE ALLERS       CREW       R.A. LANDERY [2]].         FDB       SFPAIND - MON THRUNC WE UN ALE 19.4C       R.L. JORDANI TA.,         MARK       SENANT RUN       P.L. JORDAN R.         Eaule       TOREAD AT FZ. (BESLIS), PRISUL POLE         WERTIER       P. L. JORDAN R.         ALLE       P. L. JORDAN R.         WERTIER       P. L. JORDAN R.         BM.       BS.         MIN.       MY.         WE TO		
FDS     SEMAND     MORE     Descharder     Descharder       WORK     BESCHIEUNS     (D)     (D)     (D)       BAULD     MD     (D)     (D)     (D)       BAULD     MD     (D)     (D)     (D)       WERNER     P. CONDY     PC       BM     ES     MN     HT       GPS     MN     HT     PS       WERNER     P. CONDY     PC       BM     ES     MN       GPS     MN       GPS     MN       GPS     MN       GPS     MN       GPS     STR       STR     S.750       SERN     7.30       TR PD     MARD       N     U.0       N     U.0       S.81     7.30       PK NAIL - E.O.P.	Joz # 16434,07	
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MORK       BESIDEN RUNN         EGUIP       TDF2DN ATFFZ (205115), PRISM POLE         WERNER       P. C. NINAL         WERNER       P. C. NINA         BM       IES         MAN       MT         ISS       MAN         ISS       MAN         ISS       MAN         ISS       MAN         ISS       MAN         ISS       MAN         ISS       S.75         IF       S.80         IF       S.90         IF       <	FOR SEWAD- MONTHEING WELL AIR 9-G	
EAULE       TPREDUMENT F2. ( $B > 51 + 52$ .)       Parket       Parket <th>MORK BENGH RUN</th> <th></th>	MORK BENGH RUN	
WERNIER $P C L _ W N' P P $ EM $BS$ $MN$ $HT$ $FS$ $MN$ $ELEU$ $ADJ EL$ $REMARKS$ $P$ $NALL > E. D. P$ $SIEL$ $TP 39$ $SIEL$ $SIEL$ $REMARKS$ $PK NALL > E. D. P$ $SIEL$ $REMARKS$ $TP 8D$ $SIEL$ $SIEL$ $REMARKS$ $PK NALL > E. D. P$	EQUIP TOPCON AT-F2 (BOSILE) PRISA POLE	
BM       IES       MIN       IPT       IPS       MIN         6.95       6.95       6.95       6.95       6.95       6.95         TP 79       0       41.55       5.750       90.755       90.755         172.55       7.30       90.755       9K. NAIL - E.o.P.       90.755         5.81       7.30       9K. NAIL - E.o.P.       90.755         3.41       4.90       9.4.20       9.4.20		
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Citation: Citation\_Information: Kenneth T. Glass Originator: Kenneth T. Glass, P.S.M. (ed.) Publication\_Date: 20060826 Publication\_Time: Unknown Title: S.F.W.M.D. Monitoring Well **Keith & Schnars** Edition: Well Site AIR 19-G Publication\_Information: Publication\_Place: Not Published Publisher: None Online\_Linkage: kglass@keithandschnars.com Description: Abstract: South Florida Water Management District Well Site AIR 19-G Purpose: To establish reference elevations in NAVD 1988 and NGVD 1929 datum at the Monitoring Well(s). Time\_Period\_of\_Content: Time\_Period\_Information: Single\_Date/Time: Calendar\_Date: 20060826 Currentness\_Reference: Publication Date Status: Progress: Complete Maintenance\_and\_Update\_Frequency: Unknown Spatial\_Domain: Boundi ng\_Coordi nates: West\_Boundi ng\_Coordi nate: 81°21'13.6" East\_Boundi ng\_Coordi nate: 81°21'13.6" North\_Boundi ng\_Coordi nate: 28°24'11.8" South\_Boundi ng\_Coordi nate: 28°24'11.8" Keywords: Theme: Theme\_Keyword\_Thesaurus: Specific Purpose Survey Theme\_Keyword: Monitoring Well(s) PI ace: Place\_Keyword\_Thesaurus: Orange County Place\_Keyword: S.F.W.M.D. Monitoring Well AIR 19-G Place\_Keyword: SEC. 18 - T24S - R30E Access\_Constraints: Key for lock needed to gain access to Monitoring Wells. Use\_Constraints: Call South Florida Water Management District for key. Point\_of\_Contact: Contact\_Information: Howard J. Ehmke II Contact\_Person\_Primary: Contact\_Person: Howard J. Ehmke **District Contact** Contact\_Organization: South Florida Water Management District Contact\_Position: P.S.M. Contact\_Address: Address\_Type: mailing and physical address Address: Acceler 8 Suite 150 2301 Centerpark West Drive City: West Palm Beach State\_or\_Province: Florida Postal \_Code: 33409 Country: USA Contact\_Voi ce\_Tel ephone: (561) 242-5520 ext 4064 Contact\_Electronic\_Mail\_Address: hehmke@sfwmd.gov Hours\_of\_Service: 8:00 am to 5:00 pm EST Data\_Quality\_Information: Attri bute\_Accuracy: Attri bute\_Accuracy\_Report: Page 1

AIR 19-G. met The horizontal location of the benchmark was taken from a hand held G.P.S. unit. The vertical data was collected using a Topcon AT-F2 Level. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD 1988 with an offset supplied to convert to NGVD 1929. Logical\_Consistency\_Report: Vertical data on the monitoring well was established Air19 Well Report using the site benchmark. Completeness\_Report: 89. 418' (NGVD 1929) AIR 19-G South Monitoring Well. Offset written at wells (-) 0.930' to NAVD 1988. 90.058' (NGVD 1929) AIR 19-G North Monitoring Well. Offset written at wells (-) 0.930' to NAVD 1988. AIR 19-G was the site benchmark used for this survey. NAVD 1988 elevation 83.872' Posi ti onal \_Accuracy: Hori zontal \_Posi ti onal \_Accuracy: Horizontal\_Positional\_Accuracy\_Report: The horizontal position of the benchmark was established using a hand held GPS. Quantitative\_Horizontal\_Positional\_Accuracy\_Assessment: Hori zontal \_Posi ti onal \_Accuracy\_Val ue: Lat. 28°24' 11.8" Long. 81°21'13.6" Hori zontal \_Positional \_Accuracy\_Explanation: Value derived by hand-held GPS unit. Verti cal \_Posi ti onal \_Accuracy: Verti cal \_Posi ti onal \_Accuracy\_Report: The onsite benchmark was used to establish the elevations on the monitoring well(s) in this report. Quantitative\_Vertical\_Positional\_Accuracy\_Assessment: Vertical\_Positional\_Accuracy\_Value: 0.031 ft. NAVD88 Vertical\_Positional\_Accuracy\_Explanation: Better than 0.03ft. x\_sq. root of miles of the level loop. Li neage: Process Step: Process\_Description: Level Line Differential leveling was performed using a Topcon AT-F2 level. The onsite benchmark AIR 19-G was used to determine the monitoring well elevation. Elevations were written at the wells in NGVD 1929 with an offset provided to convert the elevations to NAVD 1988. Process\_Date: 20060826 Spatial\_Reference\_Information: Hori zontal\_Coordi nate\_System\_Definition: Geographic: Latitude\_Resolution: 28°24'11.8" Longi tude\_Resol uti on: 81°21'13.6" Geographic\_Coordinate\_Units: Degrees, minutes, and decimal seconds Distribution\_Information: Distributor: Contact\_Information: Contact\_Organi zati on\_Pri mary: Contact\_Organization: Keith and Schnars, P.A. Contact\_Person: Kenneth T. Glass, P.S.M. Contact\_Position: Director of Surveying and Mapping Lakel and Contact\_Address: Address\_Type: mailing and physical address Address: 2525 Drane Field Rd., Suite 7 City: Lakel and State\_or\_Province: Florida Postal\_Code: 33811 Country: Polk Contact\_Voi ce\_Tel ephone: (863)-646-4771 Contact\_Facsimile\_Telephone: (863)-646-3378 Contact\_El ectronic\_Mail\_Address: kgl ass@kei thandschnars.com Hours\_of\_Service: 8:00-5:00 est. Distribution\_Liability: None Metadata\_Reference\_Information: Metadata\_Date: 20060905

Metadata\_Contact: Contact\_Person\_Primary: Contact\_Person: Kenneth T. Glass, P.S.M. Contact\_Organization: Keith and Schnars, P.A. Contact\_Position: Director of Surveying and Mapping Lakel and Contact\_Address: Address\_Type: mailing and physical address Address: 2525 Drane Field Rd., Suite 7 City: Lakel and State\_or\_Province: FL Postal\_Code: 33811 Country: USA Contact\_Voice\_Tel ephone: (863) 646-4771 Contact\_Facsimile\_Tel ephone: (863) 646-3378 Contact\_El ectronic\_Mail\_Address: kgl ass@kei thandschnars.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: 19940608

#### The NGS Data Sheet

See file <u>dsdata.txt</u> for more information about the datasheet.

```
AK1788
 AK1788 DESIGNATION - M 122
 AK1788
         PTD
                     _
                        AK1788
AK1788
         STATE/COUNTY- FL/ORANGE
        USGS QUAD - PINE CASTLE (1980)
 AK1788
 AK1788
                                  *CURRENT SURVEY CONTROL
 AK1788
 AK1788
                                               081 20 19.
 AK1788* NAD 83(1986)- 28 26 54.
                                        (N)
                                                               (W)
                                                                        SCALED
AK1788* NAVD 88
                                28.843
                                                       94.63
                                        (meters)
                                                               (feet)
                                                                       ADJUSTED
 AK1788
         GEOID HEIGHT-
 AK1788
                                -27.80
                                        (meters)
                                                                       GEOID03
 AK1788
         DYNAMIC HT
                                 28.801 (meters)
                                                       94.49
                                                               (feet)
                                                                       COMP
 AK1788
         MODELED GRAV-
                            979,188.9
                                                                       NAVD 88
                                         (mgal)
 AK1788
 AK1788
         VERT ORDER - FIRST
                                   CLASS IT
 AK1788
 AK1788. This mark is at Orlando Int'l Airport (MCO)
 AK1788
 AK1788. The horizontal coordinates were scaled from a topographic map and have
 AK1788.an estimated accuracy of +/- 6 seconds.
 AK1788
 AK1788. The orthometric height was determined by differential leveling
 AK1788.and adjusted by the National Geodetic Survey in June 1991..
 AK1788
 AK1788. The geoid height was determined by GEOID03.
 AK1788
 AK1788. The dynamic height is computed by dividing the NAVD 88
AK1788.geopotential number by the normal gravity value computed on the AK1788.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AK1788.degrees latitude (g = 980.6199 gals.).
 AK1788
 AK1788. The modeled gravity was interpolated from observed gravity values.
 AK1788
 AK1788;
                             North
                                            East
                                                     Units Estimated Accuracy
 AK1788;SPC FL E
                          455,940.
                                         166,830.
                                                       ΜТ
                                                           (+/- 180 meters Scaled)
 AK1788
 AK1788
                                  SUPERSEDED SURVEY CONTROL
 AK1788
 AK1788
        NGVD 29 (??/??/92)
                               29.129
                                                       95.57
                                                               (f) ADJ UNCH
                                                                                1 2
                                       (m)
 AK1788
 AK1788.Superseded values are not recommended for survey control.
 AK1788.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AK1788. See file dsdata.txt to determine how the superseded data were derived.
 AK1788
 AK1788_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM668469(NAD 83)
AK1788_MARKER: DB = BENCH MARK DISK
AK1788_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
 AK1788_SP_SET: CULVERT HEADWALL
AK1788_STAMPING: M 122 1945
AK1788_MARK LOGO: USE
 AK1788 MAGNETIC: N = NO MAGNETIC MATERIAL
 AK1788_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AK1788+STABILITY: SURFACE MOTION
 AK1788 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AK1788+SATELLITE: SATELLITE OBSERVATIONS - April 15, 2005
 AK1788
 AK1788
        HISTORY
                     - Date
                                 Condition
                                                   Report By
 AK1788 HISTORY
                     - 1945
                                 MONUMENTED
                                                   USE
                     - 1945
 AK1788
        HISTORY
                                                   NGS
                                 GOOD
                     - 1973
 AK1788
         HISTORY
                                 GOOD
                                                   LOCENG
 AK1788
                     - 19901113 GOOD
        HISTORY
                                                   FL-095
                     - 19960316 GOOD
 AK1788
        HISTORY
                                                   USPSQD
 AK1788
         HISTORY
                     - 20050326 GOOD
                                                   GEOCAC
AK1788
                     - 20050415 GOOD
         HISTORY
                                                   TNDTV
 AK1788
 AK1788
                                  STATION DESCRIPTION
```

```
file:///Z/Recorder_wells/AIR19/Contractors%20well%20report%2026-aug-06/Benchmarks/NGS%20Source%20Bench/M122.htm[8/8/2015 8:11:14 AM]
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DATASHEETS

AK1788 AK1788'DESCRIBED BY NATIONAL GEODETIC SURVEY 1945 AK1788'1.5 MI S FROM PINE CASTLE. AK1788'1.5 MILE SOUTH ALONG STATE HIGHWAY NO. 3A FROM THE POST OFFICE AT AK1788'PINE CASTLE, THENCE 1.5 MILE EAST ALONG A ASPHALT ROAD, AT THE AK1788'PINE CASTLE ARMY AIR FIELD, ABOUT 0.2 MILE SOUTH OF THE MAIN GATE, AK1788'ABOUT 0.1 MILE NORTH OF POST HEADQUARTERS, AT A RAILROAD CROSSING, AK1788'51 FEET NORTH OF THE CENTERLINE OF THE RAILROAD CROSSING, 24 FEET AK1788'WEST OF THE CENTERLINE OF THE PAVED STREET LEADING TO POST AK1788 HEADQUARTERS, BRONZE DISK SET IN THE NORTH END OF A CONCRETE CULVERT. AK1788 STAMPED M 122 1945. NOTE-- PINECASTLE ARMY AIR FIELD IS NOW MC COY AK1788 AFB. ABOUT 750 FEET SOUTH OF MAIN GATE TO MC COY AFB ALONG ENTRANCE AK1788'ROAD, 23 FEET WEST OF CNETERLINE PAVING, 22.6 FEET SOUTHEAST OF AK1788'POWER POLE I-95, 26 FEET EAST OF SEWAGE LIFT STATION 3. AK1788 AK1788 STATION RECOVERY (1973) AK1788 AK1788'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM) 1973 AK1788'RECOVERED IN GOOD CONDITION. AK1788 AK1788 STATION RECOVERY (1990) AK1788 AK1788'RECOVERY NOTE BY ORANGE COUNTY FLORIDA 1990 AK1788'3-INCH US ENGINEERING DEPT-HARBOR SURVEY BRASS DISK IN NORTH END OF AK1788'1-FT BY 21-FT CONCRETE HEADWALL WITH WINGWALL ON WEST SIDE OF AK1788'DAETWYLER DRIVE, ABOUT 23 FT (7.0 M) WEST OF THE CENTER LINE OF AK1788'DAETWYLER DRIVE, ABOUT 420 FT (128.0 M) NORTH OF THE CENTER LINE OF AK1788'IST STREET, ABOUT 575 FT (175.3 M) SOUTH OF THE CENTER LINE OF AK1788'JETPORT DRIVE, AND ABOUT 40 FT (12.2 M) SOUTHEAST OF POWER POLE AK1788 NUMBER 821551. T23S, R30E, SECTION 32. (DESCRIPTION SOURCE--THE AK1788'ORANGE COUNTY ENGINEERING DEPARTMENT.) AK1788 AK1788 STATION RECOVERY (1996) AK1788 AK1788'RECOVERY NOTE BY US POWER SQUADRON 1996 AK1788'RECOVERED IN GOOD CONDITION. AK1788 AK1788 STATION RECOVERY (2005) AK1788 AK1788'RECOVERY NOTE BY GEOCACHING 2005 (MAG) AK1788'RECOVERED IN GOOD CONDITION. AK1788 AK1788 STATION RECOVERY (2005) AK1788 AK1788'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (ADJ) AK1788'RECOVERED IN GOOD CONDITION. \*\*\* retrieval complete.

Elapsed Time = 00:00:00

#### The NGS Data Sheet

See file <u>dsdata.txt</u> for more information about the datasheet.

```
AK1791
 AK1791 DESIGNATION - N 122
                     _
 AK1791
        PID
                        AK1791
AK1791
        STATE/COUNTY- FL/ORANGE
 AK1791
        USGS QUAD - PINE CASTLE (1980)
 AK1791
                                 *CURRENT SURVEY CONTROL
 AK1791
 AK1791
                                               081 20 12.
 AK1791* NAD 83(1986)- 28 26 28.
                                        (N)
                                                               (W)
                                                                       SCALED
AK1791* NAVD 88
                               27.706
                                                      90.90
                                        (meters)
                                                               (feet)
                                                                       ADJUSTED
 AK1791
        GEOID HEIGHT-
                                -27.81
 AK1791
                                         (meters)
                                                                       GEOID03
 AK1791
        DYNAMIC HT
                                 27.665 (meters)
                                                       90.76
                                                              (feet)
                                                                       COMP
 ak1791
        MODELED GRAV-
                            979,187.6
                                                                       NAVD 88
                                         (mgal)
 AK1791
 AK1791
        VERT ORDER - FIRST
                                   CLASS IT
 AK1791
 AK1791. This mark is at Orlando Int'l Airport (MCO)
 AK1791
 AK1791. The horizontal coordinates were scaled from a topographic map and have
 AK1791.an estimated accuracy of +/- 6 seconds.
 AK1791
 AK1791. The orthometric height was determined by differential leveling
 AK1791.and adjusted by the National Geodetic Survey in June 1991..
 AK1791
 AK1791. The geoid height was determined by GEOID03.
 AK1791
 AK1791. The dynamic height is computed by dividing the NAVD 88
AK1791.geopotential number by the normal gravity value computed on the AK1791.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AK1791.degrees latitude (g = 980.6199 gals.).
 AK1791
 AK1791. The modeled gravity was interpolated from observed gravity values.
 AK1791
 AK1791;
                             North
                                            East
                                                    Units Estimated Accuracy
 AK1791;SPC FL E
                          455,140.
                                        167,020.
                                                       ΜТ
                                                          (+/- 180 meters Scaled)
 AK1791
 AK1791
                                  SUPERSEDED SURVEY CONTROL
 AK1791
        NGVD 29 (??/??/92) 27.991 (m)
 AK1791
                                                      91.83
                                                             (f) ADJ UNCH
                                                                               1 2
 AK1791
 AK1791.Superseded values are not recommended for survey control.
 AK1791.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AK1791. See file dsdata.txt to determine how the superseded data were derived.
 AK1791
 AK1791_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM670461(NAD 83)
AK1791_MARKER: DB = BENCH MARK DISK
AK1791_SETTING: 30 = SET IN A LIGHT STRUCTURE
 AK1791_SP_SET: CULVERT
AK1791_STAMPING: N 122 1945
AK1791_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
 AK1791_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AK1791+SATELLITE: SATELLITE OBSERVATIONS - April 15, 2005
 AK1791
 AK1791
        HISTORY
                     - Date
                                 Condition
                                                   Report By
 AK1791
        HISTORY
                     - 1945
                                 MONUMENTED
                                                   CGS
 AK1791
                     - 20050326 GOOD
        HISTORY
                                                   GEOCAC
                     - 20050415 GOOD
 AK1791
        HISTORY
                                                   TNDTV
 AK1791
 AK1791
                                  STATION DESCRIPTION
 AK1791
 AK1791'DESCRIBED BY COAST AND GEODETIC SURVEY 1945
 AK1791'1.5 MI S FROM PINE CASTLE.
 AK1791'1.5 MILES SOUTH ALONG STATE HIGHWAY NO. 3A FROM THE POST OFFICE
 AK1791'AT PINE CASTLE, THENCE 1.5 MILE EAST ALONG A ASPHALT ROAD, AT THE
 AK1791'PINE CASTLE ARMY AIR FIELD, ABOUT 1.0 MILE NORTH OF THE MAIN
 AK1791'HANGAR, ABOUT 0.6 MILE SOUTH OF THE POST HEADQUARTERS, ABOUT 30
```

file:///Z|/Recorder\_wells/AIR19/Contractors%20well%20report%2026-aug-06/Benchmarks/NGS%20Source%20Bench/N122.htm[8/8/2015 8:12:54 AM]

AK1791'FEET NORTH OF A POINT WHERE A POWER LINE CROSSES OVER THE PAVED AK1791'STREET, 24 FEET WEST OF THE CENTERLINE OF THE PAVED STREET, AK1791'IRON DISK SET IN THE NORTH END OF A CONCRETE CULVERT. STAMPED AK1791'N 122 1945. NOTE-- PINECASTLE ARMY AIR FIELD IS NOW MC COY AFB. AK1791'THE POWER LINE DOES NOT CROSS THE ROAD ANYMORE. THE MARK IS AK1791'DIRECTLY WEST OF BUILDING 140, 8595 AVENUE C, AND ABOUT 500 FEET AK1791'NW OF THE COMMISSARY STORE. AK1791 AK1791 STATION RECOVERY (2005) AK1791 AK1791'RECOVERY NOTE BY GEOCACHING 2005 (MAG) AK1791'RECOVERED IN GOOD CONDITION AK1791 AK1791 STATION RECOVERY (2005) AK1791 AK1791'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (ADJ) ALL BUILDINGS IN AK1791'MARK FOUND IN HEADWALL ON THE WEST SIDE OF AVENUE C. AK1791'THE AREA ARE GONE. MARK IS APPROXIMATELY MIDWAY BETWEEN EAST AK1791'LANDSTREET ROAD AND 3RD STREET. \*\*\* retrieval complete. Elapsed Time = 00:00:00



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

					Rev. 4/0	01		
COUNTY	PROJECT		DESIGNATION					
Orange				Well Site AIR 19-G				
SECTION <u>18</u>	SECTION <u>18</u> TOWNSHIP <u>24</u> S		ł	RANGE	<u>30</u> EAST			
GEOGRAPHIC INDEX OF QUAD								
Established by <u>Keith and Schnars,</u> Recovered by	<u>P.A.</u>	NAME OF QUADRANGLE PINE CASTLE						
SET CLASS "C" MONUNENT WITH BRASS DISK.	SFWMD							
SURVEYOR B. LANDRY (Keith and Schnars)FIELD BOOK, 1165, pgs. 26-40DATE 08/26/2006FIELD BOOK, 1165, pgs. 26-40								
HORIZONTAL DATUM: 1983 with 1999 correction, ZONE East								
VERTICAL DATUM: NGVD 1929 and NAVD 1988								
CONTROL ACCURACY: HORIZO	NTAL HAND-HEL	D GPS	, 3 <sup>rd</sup> Order VE	ERTICAL				
STATE PLANE COORDINATES         X = 542432         Y = 1479491         EL. (NGVD 1929)								
					84.802'			
					EL. (NAVD 1988)			
					83.872'			
LATITUDE <u>28º 24' 11.8"</u> LONGITUDE <u>81º 21' 13.6"</u>								
DESCRIPTION								
South Florida Water Management District brass disk set in concrete monument stamped AIR 19-G / 2006								
The benchmark is located in south Orlando								
From Interstate 4 and State Road 417 (Central Florida Greeneway) travel north along State Road 417 (Central Florida Greeneway) 12.5 miles +- to Landstar Blvd; then travel north along								
Landstar Blvd. 2.0 miles to were Landstar Blvd. dead ends into Wetherbee Road; Take a left on Wetherbee Rd.								
And head north for a distance of 0.7 miles to a rail road crossing; on the south side of the rail road track and the								
East side of Werherbee Rd. there is a access road leading to a substation; take the access Rd. a Distance 1.4 miles to the substation. The Benchmark is located 3.5' west of the northeast fence corner								
And 9.1' north of the north fence line.								
						_		
Notable Land marks:								