Specific Purpose Survey of Weather Tower Big Pine Upland Collier County, Florida Prepared for:

South Florida Water Management District

Prepared by:



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South Florida Water Management District's Purchase Order number 4500012430

Keith and Associates project number 07050.02, Task 001 Report Date: September 4, 2007 Submittal: First

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PURPOSE

To establish (NAVD 1988 and NGVD 1929) vertical data at the site. Set a site benchmark and elevate the well. Locate the antenna base and guy-wires.

LOCATION OF PROJECT The project is located in Collier County, Florida.



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.
- 6. District Benchmark Sheet.
- 7. AutoCad drawing.

DATUM FOR THE PROJECT

The vertical datum for the project is National Geodetic Vertical Datum (NGVD) of 1929 and North American Vertical Datum (NAVD) of 1988. NGVD 1929 elevations and offset were derived using Vertcon version 6.0.1. Horizontal datum is NAD (North American Datum) 1983/90.

GPS PROCCEDURES AND EQUIPMENT

Vertical data on the site benchmark was established using the following methods. Due to the obstructions at the site benchmark a PK nail was set in a clear area near the site benchmark. That PK nail was occupied a total of three times consisting of four-hour GPS static sessions each time connecting it to three different National Geodetic Survey first order vertical and horizontal monuments surrounding the PK nail. The National Geodetic Survey monuments were also connected to each other by four-hour GPS static sessions.

Trimble 5700 receivers and Zephyr model number 39105.00 antennas (without ground plane) were used for all static sessions.

The baseline files were processed and adjusted using Trimble Geomatics Office version 1.62. The three adjusted values were averaged to obtain the final elevation of the PK nail. All the baselines passed the Chi Square Test at 95% confidence level. The expected accuracy for the elevations of site benchmark "PINE 2007" is \pm 0.10'. A three-wire level loop was then run from the PK nail to site benchmark "PINE 2007" and back to the PK nail.

HORIZONTAL LOCATIONS

Horizontal locations at the site were obtained using a Trimble 5700 receiver and RTK cellular link.

VERTICAL AND HORIZONTAL CONTROL

Q-498	Elevation:	NAVD 1988	29.682'	NGVD 1929	31.132'
PID AJ6501	Latitude	26°10'20.62973"		From	
				NGVD	
				29.txt file	
State/County	Longitude	-80°53'37.72971"			
FL/Collier					
USGS QUAD California Slough (1974)					
Vertical Order First		The horizontal coordi	hates were e	established by	GPS
Class II		observations and adju	usted by the	National Geod	detic
		Survey in February 20	007 . The or	thometric heig	ht was
Horizontal Order First		determined by differen	ntial leveling	and adjusted	by the
	ALL at		IC SURVEY	in December	2001.
Benchmark		The mark is about 28	.3 mi (45.5 k	(m) west of An	dytown,
		Section 36 Townshin	49 South	Range 34 Fas	4), III t To
0-498	San Porta	reach the mark from t	he junction	of Snake Road	1 and
R AD AN	Sal an	Interstate Highway 7	5 (exit 14) n	ear Andytown,	go west
	EAS. /	on Interstate Highwa	y 75 for 2.35	5 mi (3.78 km)	to the
		east end of bridge nu	mber 03028	33 and the mai	rk on the
		left, a stainless steel r	od driven in	to the ground	at a
	135 920011	depth of 14.2 ft (4.3 m	n) with a NG	S logo cap flue	sh with
and a set the set	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the ground and level	with the wes	stbound lanes	OT cod 0 4 ft
MARINE MARKEN STATE	2 18 1- 1	(12.2 cm) below the la	b, the uaturn	I point is reces	Located
		60.3 ft (18.4 m) north	of the cente	rline of the ea	astbound
	1	lanes of Interstate Hid	hway 75, 52	2.3 ft (15.9 m)	south
A SHE AND A SHE	M NOT NOT	of the centerline of th	e westboun	d lanes of Inte	rstate
		Highway 75, 40.8 ft (12.4 m) nort	heast of the ne	ortheast
		bridge rail of the east	bound lanes	s, 33.4 ft (10.2	m)
A SHARE STORE		southeast of southeas	st bridge rail	of the westbo	ound
	N. MERCENSING	lanes and 11.0 ft (3.4	m) east of a	a carsonite with	1ess
		inch NGS logo	the datum p	ont is had the	Sugn a 5-
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VERTICAL AND HORIZONTAL CONTROL (CONTINUED)

FLGPS RON AZ MK		Elevation:	NAVD 1988	19.687'				
PID AC4658	Lat	itude	26°45'43.45599"		From NGVD			
State/County FL/Miami-Dade	Lor	ngitude	-80°46'28.94143"		29.txt me			
USGS QUAD Fortymile Bend (1995)								
Vertical Order First Class II			The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic					
Horizontal Order First			determined by differen	ntial leveling	and adjusted	by the		
Benchmark FLGPS RON AZ MK			NATIONAL GEODET The station is located Miami, 37.50 km (23. Station, in Section 18 the west concrete hea over an east-west ca way. To reach the sta Highway 41 and Stat west for 29.44 km (18 junction of Shark Valle 0.32 km (0.20 mi) on Corp spillway facility. mi) on Highway 41 to an airboat sightseeing Located 19.66 m (64. center of Highway 41, palm tree, 4.08 m (13) center of bridge and carsonite witness pos	IC SURVEY about 83.02 30 mi) south , T 54 S, R 3 adwall for a v nal. Owners ation from the e Road 997 .30 mi) on 1 ey Road. C Highway 41 Continue v a bridge ov g facility and 5 ft) north fr 9.20 m (30 3.4 ft)west fr 0.91 m (3.0 t.	in March 200. 2 km (51.60 mineast of Monro 36 in the south wooden bridge shiphighway ie intersection near Sweetwa Highway 41 to ontinue west for to a bridge ar vest for 0.56 km ver an east-weither the station or om the approx .2 ft) east from om the approx ft) north from a	2.) west of be n end of right-of- of U.S. ater, go the or nd U.S. m (0.35 st canal, n right. imate n a 25-cm imate a		
	the state							

VERTICAL AND HORIZONTAL CONTROL (CONTINUED)

CATHAM 3		Elevation:	NAVD 1988	5.400'	NGVD 1929	6.831'
PID AC0569	Lati	tude	25°51'47.96810"		From NGVD 29.txt file	
State/County FL/Collier	Lor	gitude	-81°06'05.70748"			
USGS QUAD Monroe Station (1995)						
Vertical Order First Class I			The horizontal coordir observations and adju	nates were e isted by the	established by National Geoc	GPS detic
Horizontal Order First			Survey in February 20 determined by differer NATIONAL GEODET The mark is about 77. Naples, about 84.15 Miami, in Section 15, East, Collier County, I Department of Trans the intersection of U.S State Road 29 in Carr Highway 41 6.9 km (Ochopee, continue so km (12.61 mi) to the v the mark on the right, go northwest on U.S. the mark on the left. T southwest of the center (128.0 ft) northwest of of the south concrete U.S. Highway 41), 58. southwest corner of th m (1.0 ft) northeast o mark is a disk set flus monument, projecting and about 0.61 m (2.0	JU/. The offinitial leveling IC SURVEY 5 km (48.15 km (52.29 m Township 5: Florida. Owr portation. T 5. Highway 4 hestown, go 4.3 mi) to the outheast on vest edge of also from th Highway 41 he mark is 9 er lipe af U.S f (parallel to endwall of a .43 m (191.7 he south cor f a carsonite h in the top 5 cm (0.17 0 ft) below th	nometric heigh and adjusted in June 1991. mi) southeas ni) northwest of 3 South, Rang hership - Florid o reach the ma 11 (Tamiami T southeast on e post office in U.S. Highway Monroe Station 6.9 km 4.26 m 51.02 m (167.2 c. Highway) the box culvert (b 7 ft)southwest herete endwall, witness post. of a concrete ft) above the g he level of the	t was by the t of f west je 32 la ark from rail) and U.S. 41 20.3 on and center ni) and t ft) 39.01 m west end beneath of the , and 0.30 The ground highway.

VERTICAL CONTROL SITE BENCHMARK

Latitude 25°59'58.4" Elevation derived from GPS. Elevation derived from GPS. State/County FL/Collier Longitude -80°55'29.4" Image: Construction of the state of th	PINE 2007	Elevation	on: NAVD 1988	10.9'	NGVD 1929	12.4'
State/County FL/Collier Longitude -80°55'29.4" USGS QUAD West of Horseshoe Head Image: Constraint of the intersection U.S. 41 for approximately 31.7 miles to the intersection U.S. 41 for approximately 31.7 miles to the intersection U.S. 41 for approximately 31.7 miles to the intersection U.S. 41 and 11-Mil Road (Oil Well Road) on the right, turn right heading north on 11-Mile Road for approximately 12.5 miles to Weather Tower Big Pine Upland and the mark on the left . The mark is a 3-1/2" SFWMD brass disk set on the concrete pad for the weather tower.		Latitude	25°59'58.4"	Elevation derived from GPS.		Elevation derived from GPS.
USGS QUAD West of Horseshoe Head Vertical Order Third Horizontal Order Third Benchmark PINE 2007 Benchmark PINE 2007 Benchma	State/County FL/Collier	Longitude	-80°55'29.4"			
Vertical Order Third Horizontal Order Third Benchmark PINE 2007 Big Pine Upland and the mark on the left . The mark is a 3-1/2' SFWMD brass disk set on the concrete pad for the weather tower.	USGS QUAD West of Horseshoe Head					
	West of Horseshoe Head Vertical Order Third Horizontal Order Third	Benchmark PINE 2007	From the intersection and U.S. 41 (Tamara approximately 31.7 r Road (Oil Well Road 11-Mile Road for app Big Pine Upland and SFWMD brass disk s tower.	n of Krome Ave hi Trail) proceed miles to the inte d) on the right, to proximately 12.3 the mark on th set on the conc	nue (S.W. 177 th I west on U.S. 4 rsection U.S. 4 urn right headir 5 miles to Weat e left . The mar rete pad for the	¹ Avenue) ¹ for 1 and 11-Mile 1 g north on her Tower k is a 3-1/2" weather

SITE PHOTOS



Big Pine Upland Tower

SITE PHOTOS (CONTINUED)



Big Pine Upland Well

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SITE PHOTOS (CONTINUED)



Big Pine Upland Solar Panels

SITE PHOTOS (CONTINUED)



Big Pine Upland Rain Gauge



07/23/07 Keith and Associates, Inc. Weather Tower



07/23/07 Keith and Associates, Inc. Benchmark PINE 2007 Location



07/23/07 Keith and Associates, Inc. Benchmark PINE 2007



07/23/07 Keith and Associates, Inc. Solar Panel



07/23/07 Keith and Associates, Inc. North Guy Anchor



07/23/07 Keith and Associates, Inc. Southeast Guy Anchor



07/23/07 Keith and Associates, Inc. Southwest Guy Anchor



07/23/07 Keith and Associates, Inc. Well Pipe

PROJECT RESULTS

Well Site Big Pine Upland

Reference mark: Fnd. X-Mark.

New Information at the site:

Mark El. <u>15.4</u>' (NGVD 29). Mark El. <u>14.0</u>' (NAVD 88).

Initials: <u>K&A</u> Date:<u>09/24/07</u> Offset : <u>1.45'</u>

Previous Information at the site: <u>None</u> Reference Mark Elevation(s) El. <u>N/A</u> Date: <u>N/A</u> Initals: <u>N/A</u> Reference Mark location N/A

<u>DTW</u> (Distance to water inside well)

Reference mark: <u>Same as Fnd. Mark above</u> El. <u>11.4'</u> (NGVD 29) Measurement to water: <u>4.02'</u> Date: <u>09/24/07</u> Time: <u>1:59 p.m.</u>



Comments

Elevations shown hereon are NGVD 1929 datum unless noted otherwise. Party Chief: D. Ferels, Field Book: 273 Pages 33, 35, 41 Bench Mark: "PINE 2007" El. 10.9', Vertical Datum: NAVD1988 El. 12.4', Vertical Datum: NGVD1929 Offset: 1.45' SFWMD VALUE (subtract this value to convert to NAVD 1988) Offset: 1.45' NGS VALUE (subtract this value to convert to NAVD 1988) The offset values referred to as "SFWMD VALUE" and "NGS VALUE" were derived by subtracting the NAVD 1988 value from the NGVD 1929 value at Benchmark PINE 2007. The NGVD 1929 value was derived using Vertcon version 6.0.1. 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** L.B. - Licensed Business **GPS** – Global Positioning System **RTK – Real Time Kinematic PK – Parker Krylon**

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.

By:

Michael M. Mossey, PSM Professional Surveyor and Mapper State of Florida Certificate No. 5660

Date of Survey September 24, 2007

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HERE S		┟┝╪┊╔╏╡╡╏╞┥╡┩ ╵╴	<u>┥┥╎┥╿╎╎╎┥</u> ┿┿┿┽┥╎╎ ┥┥╎╎╡┥┥┥┥┥┥ ┥╵┝╋╋╋┥	┥╏╎╎╎┦┨╘╠┥┥╄╉╷┝╎┉┉┥┦╿<u>╆</u>┾ ┫
	<u>╶┼╎┼╎╞</u> ╎╎╎╎┛╎╎╹╎╃╵ [┍] ┝┛┝╲ <mark>┦</mark> ╎╶┆╌ [╔] ┍ ┊ ┙╹┈╹╡			╴╏╏╎╎╎╎╡┥┥┝┝┫╏┢┧┥┉╎╏╍ ┪┫
MCKINNEY				
	┉┿┿┿┽┥╎╎╎┿┥╋┿┿┥╎┥╎╍┝┿╎╎┽╧╎╷┿┿┥╎╎╴╎╎╎╎╎		╷╶┊╵╻┥┥╎╵╎╶┥┥╎╎╵╵┥┥╎╎╎╵┥┥╎╎╎╵┥┥┥╎╎╵╵┥┥┥	
	┶┼┶┼┥╎╎╏╎╉┼┼┽╎┝╏┝╧┿╪┧┝╎┿╎╎╶╆╌┾┥┥┍╲╝╱╝╝		┼ ╴╎╷╷┍╎╎┫┥╞┥┼┽┽┥┥╡ ╵┽ [╋] ╎╎╎ [╋] ╬╎╎╎╴╴	
				┼┲┽┼╎┾╤╤╏┽┼╤╋┿┦╏╎╎╷╍┿┿┽┫
				╈┫╗╧╧╧╧╧╧╧╧╋
		╞╋┥┥		
		<mark>┝╍╬╼┿┥╋╋┥┥╎╋╋┥┥┥╋</mark>	╶╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴	
				┽┨┉╾┧╎╸┧╎╸┽┝╌┥╼┠╼┯╸╎╵╎╎╎╿┝┥┥┥
	3.3/3 14600	2 . 1,60>	DAD. CHECK ERROR	╅╴┫╍╋╍┥╴┤┉╏╌┥┑┥┝╌╞╴┽╴┫╴╋╼╁╸┥╼┦╴╿╴┝╌╄╼╄╼┨
┟╺╁╌╞╍╎╼╎╴╿╶╎╌╎╴╎╴╎				
	┼┼╾╋┥╎╎┾╋┿┫╎┿┲┿┥┽╎┽┧╎╗┩┑╝╶┸╱╎╷╏┾┿╍╎╎╎┉		<u>╶╶┤┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼</u> ┥┥┥╴	
				┼╼╊╌╎┝╌┼╾┥╌┥╴╄╌╋╌╎╴╢╌╎╌╿╌┥╴┥╴┥╸┥
	╺╬┶┼╾┽╴╎╶┼╾┥╍╊╶┼╍╎╌┨╶╬╍╎╌┾╾┽╸┨┲┶╼┼╸┝╶╋┍┥┍╋╎╴╢╍┝╶╢╼┿		<u>╸╷┾╴╎┶┾╌┼╪┶┨┽┶┽┝╋┽┥┨╂┽╈┽┝╋╎╎╎</u> ┾╋┽╎┼┼┿╋┤╎╎	
	╶┨╍╊╍┾╾┨╴╎╴╵╼╇╾┿╍┫┅┪╍┿╍╡╍╋╴╊╸┥╍╴┨╴┨╍╎╴╎╴┽╍╇╼┼╸╎╶╬╸┥╋┑┥╸┥╶╸┨╴┦╸		╴╴╴╞┼ ┇╞╎╎┉╪╡╞╎╏╏╻┍┽╡╋╪┧┍ ┿╎┠╎ ╕┥┥┥ ╏╶┽┿┿╋╇┿┿╅╻╻╸	┿┲┲┿┅┼╌┼╶┨╞╾┦╼┽╎╼┨╼┶┥╎╎╎╎╷╻╻╸┙╸
				╈┲┲┿┯┽┊╏╨┿╶┾┥╶╅╌┝┫╶┿╼┽╴╎╶╎╶┦╶╄╼╅╼┫
┠┿┿┿┿┿┼┲	╍┾╪╶┼┶╾┼╶╞╾┥╴┨╋╎╴╋┑┥┑┥╸┥┙┥┙┥┙┙┙┙┙┙┙┙╸╴╴╸╸╸			
┣╁┿┼┿┿╋┨╎╎╏	╶┼┿╁┾╅┿╪┿╋┿┿╪┼╏╎╍╬╎╏╎╋┿╬┽╎╏╏╎┝╍╎╎┠╎┝┯┥╎┠	╞╌╎╴╏╶╎╴┠╼╅╌┝╼╉╌┽╼╋╌┝╌┠╴┨╴╶┊╣╴	╴╴┠ ╞╒┝╎╎╎╎┥┥┥┥┫╎╎╎┶╡┝┥┶╎╎┨╎┶┥╎┿╡┥╎╎╏╎╍┥┿┪┥	
┠╍┾╍╁┊┧╴┧╸┥╼╇╍┧╼┿╼╋	┷ <mark>┊╪╋╪╅╎┉┊╏┉╊┿┿┿╪╗╵┉╪╉┿╴┨┾╊┼╎╏╏╵┉╂╊┿╊╋┿┼</mark> ┼		╊ ┇┼┼┊╬╎╏╎┉┥┿╊┥╎╎╎╎╄┥╎╎╎╋ ┥╄┽┾┽┾┼┾╋┽╄┿┿┿╄┾	<u>╞</u> ╋ ┇╋╋┥┥┥┥┥┥
				╊ ╶┨╵╪╶┼╶╎╶┥╶╞┥╴╋╺╎╺╋╸┝╸┥╵┥ ╹
┰┰╎┿┽┽┿┿┿┥┫	╶╄┥┼╎╍┿╏╗┥┑┙╋╋┶╎╎╎╎╎╎╏╎┛╏┙┥╎╷┙┛╵╎╵┙	╞╶┦┼┼┠╏┼┉╪╼┧╌┽╍┿╼╋╼┿╼┨╶╶╝		
	<u>╶┼╼╤╬╶┾╍┾┉┞╶╊╍┧┉╂╍╂┉╄╌╬╼╪╾┥┉╎╴╏╶╎╌╁╶┞╴┠╶╞╼╪╤┽┯┥╴</u> ┤┅┾ ┥┥┓┣┝╶╠╶┇╺╿ ╸	╞┼╞╍╄╼┨╌┼╍╁╸╄╺┾╸┼╸┼╍┨╶┊╣╴	── ──────────────────────────────────	
			╴╴ <mark>╞┤╎╎╎╎┼┼┿╝╎╎╏╏╎┽┽┿┿╎╎╅┿╪╸╎╷┿┽┽┿╢╎╏┾┥┶</mark> ┿╢┥	┊╍╊╾┥╶┼╶┾╍┞╶╅╶┧╼╋╼┥╴┞╴╄╼┯╋╼┥
				<mark>╎╶╊╍╎╍╎╶┼╶╎╴┥╸┥╌┩╸┧┉╎╴┥╻┿╼╄╶╿╴╄╼┨</mark>
	╶╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴		╴╴ <mark>╏╧╏╎╎╎╗╪╇╎┨╎╎╖╼╆┊┍╍╎┨╎╷┝┽╅╽╓╎╷┥┥╸</mark>	
			┙╴┙╴┥╌┥╌┥╌┥╌┥╌┥╌┥╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴	<mark>╎┨╎╎╎┿┿┥╎┽╎┝╎┲╎╎╎╎╷╷╷╷╷╷</mark>
				╞╍┨╌╿╴╎┅┦╍╡┅╎╶╎╍┥╴╞╍╎╶┫╸╎╶┨╶╎╶┨╶╎╌┨╴╟╍╞╍┝╌╎╶┨
┈╋╴╪╌╋╍┿╼╋╤╋╼╋╴╡╴┫╴	╶ ╏╋╺┝╌╎╺╋╺┥╸┥╸┥╺╎┍┥╸┥╺┥╸┥╸┥╸┥╶╎╶╎╶╽╺┥╸ ╡╴╎╴┥╴┨╌╟╌╎╌╢╸╄╴┠╼	╺╉┯┿╍╋╋╋╋╋		
┠╌╂╍╪╍┼╌┼╼┾╍╆╼┾╾╋╌┠	<u>┦┙╊┙╛╏╴╶┧╍┇╍┿╼┥╍╊╼┥╍╬┙╴╴┼╍╊╍┧╴┠╶╽╴╎╴╏╶╎╴╎╴╏╶╎╶╎╴┨╶╶╶╶╶╴╴</u>	╶┽┽┼╏┽╎┼╎┦╍┝┿┥┿╣╶▓╷	· · · · · · · · · · · · · · · · · · ·	
			┍╴╎╌╎┉┦┨┾┉╎╴╎╴╎╴╢╌┨┿╵┥╾┥┑╎╴╏╴╎╺╄╍┨╾┦┉ <u>┠┥╪╼</u> ╎╌╎╌╎╴╎ _{╸┥┥} ┥┥┥╸┨╴╎╴╎╴╏╴╎╼┧╸┤╶ _┥ ╼┥	╾╂┼┼┼┼┽╾┼┼┽╎╍┨╎╌┝┽╎┥┥╽╸
				╺┫┙╢╵┦╌╎╶╉╴╏╌┿╾╏╶╋╍╎╴╎╌┝╼╋╼┥╍╄═╃╌┧╴┨╶┨
┟╷╷╎╎╷╷┥┥╸	╺╋╍╏╶╴┋╍╬╍┾╍╊╼┞╼╏┊┊╎╴┇╌╎╍┣╼┥╧╣┙┥╎┨╍╏╴╄╍┾╾╃╼┼╺╡╧┼╍╄╼┼╍┥╌┤╴┨╌╎	╶┟┼┼╞┇╏┝┝╻┥ ┥┊╏╏╢		
	┑┥┽╎╶╢╌┼╌┥╍╢╾┝╌┝╌╢╼╢╌╎╴╎╶┥╌╢╌╎╴╏╌╢╴╎╌╎╌╎╌┝╌┾╌┼╌╎╌╢╌╏╶╎╶╢╶╿ ╶╎	┈╄┿┽┱╊┽╄┾┉╄┾┉┥┨┼┊┦╶╣╝		
				╶╊╈┿╪┿┿┧╎┯╃╫┯╾╋╇┥┯┥╫╎╎╫┯┿╇┥┫
	<u>┥</u> <u>┥</u>			╶╊┿┽┿╧╧┿╌╎╶┟╍┽╶╞╾┨╶┾╍╬╼╬╍╎╌┦╶╎╶┠╍┝╼╁╸┫
┝┅┧╌┊╴╎╴╎╴╎╴╎╴╎╸╋╍╋╍	╉╪╍╴┊╶╴╷╌┍╼╍┲╍┥┅╴┾╴┇╴╴╴╴╴╸╸╸╸╴╴╴┊╸╴╴╴╴╴╴╴	╺┼╾┥╾╂╞╴╎╴╎╶╎╶┤╶┥╍┥╾┽╼┫		
	┑ <mark>┥╤╡╤┥┉╎╴╎╴╎╴╎╴╎╶╽┑┠╍┧╼┥╼┥╼┥┥┥┥┥┥┥┥┥┥┥┥┥┥┥╴┥╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎</mark>	┼┼┿╋┿┿┼┼╎┼┽┾┿┫╶╣	┍╴╔╺╬╍┿╍╋╍╫╴┧╴╎╴╏╍┨╍┥╍┽╾╀╍╎╴╎╴╎╴╎╴╢╸╋╍┝╍┝╼┼╍╎╴╿╴╎╴┨╴┥╌┫╾┥╼┦╴╎╌┦	╼╊╼╬╌╎╶╎╌╄╼╎╴╎┝╌╆╶┨╍┽╍╃┈╽╴╎╎╎╎╷┥┷┥╷┨
				╺╋┲┼╌┊╏╺┾╍┼╶┧╌┧╼┿╌┨┈┧╼┿╌┨╴╴
╶╴╻╴┼╶┼╍┼╍┼╍┼╍┼╼┼	<u>┤</u> <u>┤</u> ╷╷╷╷╷╷╷╴┙┝┙╧╴┥╖┨╴╎╴╏╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴┝╌┣╸┫╼┝╾┿╸┥╌╢┈╎			
	╋╶╴╴╴╴╴╴┥╍╼╊╍┾╍┼╶╬╌╞╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴╴		╶╴┠┼┼┿┯╼┲┲┲╌┥╴┠╎╎╎┍┿╼┲┲┽╧┥╏╎╎┝┯┲╼┯╷╎╎╎╻╖┲╼╼╤╎╎╎┝┱	
		┽╾┧╍┟╴╏╶╎╌┥╾┽╾┥╼┧╼┥╴┨╶┊╝	╴╴╴ <mark>╞╶╎╴┤╍┝┉┝┉┦┉╄┉┼╸┤╴┨╶╎╶╽┍╍┝╍╪╍╢╍╎┅╎╴┨╶┤╶╷╍╆╍┡╍╎╌╎╶╎╶╎╶╎╶╎╶╎╶╎╶╎╶╎╴┨╺┽╍┥╼┤╸╎╶╎╴╎</mark>	╶╂╌┾╍╈╍╎╶╎┝╍╈╍┦╶╎╶┼╍╉╍╎╴╎╴┾╍╬╍┝╧┥╴╎╶╽╌┾╼┨
	┼╌┝╼╋╍╄╍┽╌╎╴╎╴╏╴╎╴┋╴╎╶╍┥╍╃╸╇╶┥╍╋╸╃╼┥╸┊╸╸╸╸╸┥╴╴╴╴╴╴╴╴╴			╶┨┼┼╄╍┝╼┼┼┼╋╍┝╼┝╴┤┝╋┥┼┼┼╌┝╍┝╼┼╌┤┼┥
		╺┥┥┥┨┝┥┥╧┥╵┥╧╧┥		
	<u>╪</u> ╶╗┝╾╎╴╏╴╎╴┠╌┝╼ <mark>╋╶╈╍╎┅╎╴</mark> ┦╴┨╶╢ [╋] ┝╌┨╶╎╴╎┅┝┼╴╎╴╎╴╎┅┝╍╋╾┼╾┾╼┨╼┽╼┼╸┦		╴┈ <mark>┢┯┿┽┼╴┊╶┦╴┦╴┦╌╿╍╊╍┧┅╪╌┥╌╽╛┊╴┦╸┧┅┝╍╊╶┩╶┥┊╸┥╷┥╸┥╴┥╴┥╸</mark>	╶┫┉╢┉╬╶┼╌╎╸╣╴┇╴╎╌╎╼┥╾┇╴┇╼┨╸╴╎╶╢╻╸╹╴╹
			╴ <u></u>	╶┨╶╊╼┥╌╡╶┼╌┤╴┽╸┫╴╎┉╎╾╡╶┧╸┽╸┥╶╎╴╎╴┦╺╢
	┼┼┊┼┉╓┿╍┲┅┽┥╏╏┼┼┼┼┼╎╎╏╏╎╎╏┠╎╎╏╏╎╎┝╍┝┥╛╏╎╎┠╍╿┥┥┤╏			<u>╶</u> ╢╌ <u>┝╼┾</u> ╎╎╒┥╎╎┊╿╎╌ <u>┨</u> ╎┝┅ ┝┍╿┍╿┥ ┥┙┦╎┥┩
	┪┙╹╶╶╶╶┙┙┙┥╼┝╼┎┥╸╏╶╶╶╶╶╶╶╶╶╶╶╶╶╶╶╶╶╶╴╴╸	┉╈╍╋╼┝╼╋╼┝╴┥╴┥╴┥╴		
	╋┳╊╌╁╶┧╴┫╌┥╍┝╍╊╼╪╍┼╶┧╴┥╴┫╴╢╍╞╍╎╴┇╶╎╴┦╴╎╶┥╴┥╴┨╶┢╍┼╼┨╶┢╍┼╼┨╴╢		╶╴┋╴╎╶┝╍╋╍╬╌╎╶╎╴┥╸┫╴┫╴╎╴┥┥╋╍╢╍╏╴╏╴┫╴╎╴┥╺┿╍┥╍╎╸┥╍╋╍╢╸╎╴╎╸┿╸	╶╉┼┼┯╤╎┝┯╤╢┲╾╎┠╍╾╎╷╎┦╷┤┥┥┥┻┥┨
				╺╁┼┼┲╪┽┽┿┿┼╏╌╋╍┟╴╎╌┥┥╴┦╺┿╺╃╶┨
	┝ ╘┍┥┥┥ ╎╎╎╏╎ _{┙┥┥┥╵} ╎╎ <mark>┊╪╪</mark> ┥╎╏╎╎ <mark>╞╋╶</mark> ┽┤╎╎ <mark>╷╸╋╞</mark> ┼┝┑╷┥╎			<u>╶</u> <u>┛┙╴┍</u> <u>┙</u>
┟╎┈╬╍┾╍┼╍┼╍┼╍┼╍┼╸╉╸	<u>╋</u> <u>╋</u> <u>╋</u> <u>╋</u> <u>╋</u> <u>╋</u> <u>╋</u> <u>╋</u> <u>╋</u> <u>╋</u>	┽┽╁╂╄┼┽╁╂╃╢┿╉┨╶▓	┣╍╧┿╍┝╍╛╋┉┝╍┥╋╗╡╃┝╍╛╃╴╎╴╬╌╢╸┨╴╢╸╎╴┨╶┝┥╸┥╴┥╸╸	
	┝╼┲┲┲┲╍╴┲┲┲╍┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲┲	╈╪╪╋╧╎╎┾┿┿┥╎╎┾┿┥╶	╶╶┟╬┿╾╎┟╎╎┥╎╬╋╋┿┥╈╋┿┥╎╎╎╎┥╋┿┿┥╎╎╎╎╎╎╎╎	╶┨┧┊╞╞┼╍╡╍╎┝┲╬╍┠╺╬╍╎╴┧╷╎┥┥┥┯┯┯╌┦
╞┥┼┼┼╎╏╎╢┉┠┉	┝╌╎┊╎╎╶╞╌╎╎┊╍┨╌┝╼┽╼┼╌┝╶╃╶┽╸┥╴╏╴╴╴╸╸╸╸╸╸╸╴╴╴╴╴╸			╈╋╪╴╴╴╴╴╴╴╴
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	<u>╎╫╶╪╌┍</u> ╎╎╎╍╬┅╎╴╋╎╎┼╍┧╴╏╴╅╼╇╸┤┅┿╍╇╍╋╷╎╶╋╼╋╴┥╌┥┥╴┥╴┥╴╸	╈╋┼╋┿┥┼┼┿┥╎┼┦╶▓	╴╴ ┠╪┼┾╪╈┊╎╎╎┊┧┊╷╎┊╎╎┊╎╎╧╎╎┿╤╪<mark>╕</mark>╋╡╎╎╎┾┿┿┿┥┙┊╷╷╵╴ ┿	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
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	╊ <mark>╼╊╌┊┊┊┊╌┝╍┾╍┽╶┊╺╋</mark> ╾╏┇┇╏┇┥┥┥╎╴╎╌╋╌┝╍┿╼╬┅┼╶╎╼┽╶┼╶┨╍┼╶┋┝╴┤╶┊┦	╆╋┼┼╂╊╋╇┼┼┼╋┿┼┼┦┈쮋	╴╴ ╹╴╷┥┥┥╷╎╎╷┥┥┥╹┊╵╎╵╵╵╎╵╎╵╎╵╎╵╎╵╵╵╵╵╵╵╵╵╵╵╵╵╵╵╵╵╵╵╵╵	
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SOUTH FLORIDA WATER MANAGEMENT DISTRICT

				<i>Rev. 4/01</i>					
COUNTY Collier	PROJECT Bi	g Pine Upland	DESIGN	ATION					
	w	eather Tower "PINE"		007"					
SECTION Est. 28	TOWNSHIP	51 South	RANGE	<u>34 East</u>					
GEOGRAPHIC INDEX OF QUAD									
Established by Keith and Associa	ites	NAME OF QUADRA	NGLE						
		West of Horseshoe Head							
SURVEYOR <u>D. Ferels</u> DATE <u>09/24/2007</u> FIELD BOOK <u>273</u> PAGES <u>33-35, 41</u>									
HORIZONTAL DATUM: 1983/99	ZONE E								
VERTICAL DATUM: NGVD 192	9 and NAVD	1988 Benchma	ark was	established by GPS					
CONTROL ACCURACY: HORIZONTAL Third VERTICAL Third									
STATE PLANE COORDINATES	X 675481	Y 512999		NGVD 1929 EL. <u>12.4'</u>					
				NAVD 1988 EL. <u>10.9'</u>					
LATITUDE 26°00'01.6 "		LOI	NGITUDE	-80°55'33.9"					
	DESC	RIPTION							
To Reach:									
From the intersection of Krome Avenue (S.W. 177 th Avenue)	and U.S. 41 (Tamami Tr	ail) proceed	west on U.S. 41 for					
approximately 31.7 miles to the intersection	on U.S. 41 and 11-M	ile Road (Oil Well Road) r Tower Big Bing Upland	on the righ	nt, turn right heading					
The mark is a 3-1/2" SFWMD brass disk	set on the concrete p	ad for the weather tower	r.						
of Krome Avenue (S.W. 177 th Avenue).									
Notable Land marks:									

SKETCH

See Attached photos.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = MAY 9, 2016
AC0569 DESIGNATION - CATHAM 3
            - AC0569
AC0569 PID
AC0569 STATE/COUNTY- FL/COLLIER
AC0569 COUNTRY - US
AC0569 USGS OUAD - MONROE STATION (1995)
AC0569
AC0569
                            *CURRENT SURVEY CONTROL
AC0569
AC0569* NAD 83(2011) POSITION- 25 51 47.96851(N) 081 06 05.70594(W) NO CHECK
AC0569* NAD 83(2011) ELLIP HT- -22.598 (meters) (06/27/12) NO CHECK
AC0569* NAD 83(2011) EPOCH - 2010.00
AC0569* NAVD 88 ORTHO HEIGHT - 1.646 (meters)
                                               5.40 (feet) ADJUSTED
AC0569
AC0569 NAD 83(2011) X - 888,332.987 (meters)
                                                               COMP
AC0569 NAD 83(2011) Y - -5,673,802.689 (meters)
AC0569 NAD 83(2011) Z - 2,765,434.778 (meters)
                                                              COMP
                                                              COMP
AC0569 LAPLACE CORR -
AC0569 GEOID HEIGHT -
                             -1.21 (seconds)
                                                              DEFLEC12B
                          -24.221 (meters)
                                                              GEOID12B
AC0569 DYNAMIC HEIGHT -
                              1.643 (meters)
                                                  5.39 (feet) COMP
AC0569 MODELED GRAVITY - 979,008.6 (mgal)
                                                              NAVD 88
AC0569
AC0569 VERT ORDER - FIRST CLASS I
AC0569
AC0569 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AC0569 Standards:
AC0569
             FGDC (95% conf, cm)
                                 Standard deviation (cm)
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             Horiz Ellip SD N SD E SD h (unitless)
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AC0569 -----
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                                     2.75 2.87 5.72
AC0569 NETWORK 6.88 11.21
                                                         -0.10956726
AC0569 -----
AC0569 Click here for local accuracies and other accuracy information.
AC0569
AC0569
AC0569. The horizontal coordinates were established by GPS observations
AC0569.and adjusted by the National Geodetic Survey in June 2012.
AC0569
AC0569.NAD 83(2011) refers to NAD 83 coordinates where the reference
AC0569.frame has been affixed to the stable North American tectonic plate. See
AC0569.NA2011 for more information.
AC0569
AC0569. The horizontal coordinates are valid at the epoch date displayed above
AC0569.which is a decimal equivalence of Year/Month/Day.
AC0569
AC0569.No horizontal observational check was made to the station.
AC0569.
AC0569. The orthometric height was determined by differential leveling and
AC0569.adjusted by the NATIONAL GEODETIC SURVEY
AC0569.in June 1991.
```

AC0569

AC0569.Significant digits in the geoid height do not necessarily reflect accuracy. AC0569.GEOID12B height accuracy estimate available here. AC0569 AC0569. The X, Y, and Z were computed from the position and the ellipsoidal ht. AC0569 AC0569. The Laplace correction was computed from DEFLEC12B derived deflections. AC0569 AC0569. The ellipsoidal height was determined by GPS observations AC0569.and is referenced to NAD 83. AC0569 AC0569. The dynamic height is computed by dividing the NAVD 88 AC0569.geopotential number by the normal gravity value computed on the AC0569.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 AC0569.degrees latitude (g = 980.6199 gals.). AC0569 AC0569. The modeled gravity was interpolated from observed gravity values. AC0569 AC0569. The following values were computed from the NAD 83(2011) position. AC0569 AC0569; North East Units Scale Factor Converg. AC0569; SPC FL E-169,477.823189,818.399MT0.99994246-0.239.5AC0569; SPC FL E-556,028.49622,762.53sFT0.99994246-0.239.5AC0569; UTM17-2,860,551.980489,821.873MT0.999960128-0.239.5 AC0569 AC0569! AC0569!- Elev Factor xScale Factor =Combined FactorAC0569!SPC FL E- 1.00000355 x0.99994246 =0.99994601AC0569!UTM 17- 1.00000355 x0.999960128 =0.999960483 AC0569 AC0569: Primary Azimuth Mark AC0569:SPC FL E - CATHAM 3 AZ MK Grid Az 090 31 36.5 AC0569:UTM 17 - CATHAM 3 AZ MK 090 31 36.5 AC0569 Distance Geod. Az | AC0569| PID Reference Object AC0569| dddmmss.s | AC0569| AC4474 CATHAM 2 24.837 METERS 02523 AC0569| AC4758 CATHAM 3 AZ MK AC0569 | AC4758 CATHAM 3 AZ MK APPROX. 0.6 KM 0902857.0 | AC0569 | AC4462 AIRWAY BCN 18 N OF 40 MI BEND APPROX.19.8 KM 0993036.8 | AC0569| AC0570 CATHAM 3 RM 3 26.427 METERS 19136 | 29.935 METERS 27321 AC0569| AC0567 CATHAM 3 RM 4 27.622 METERS 31843 AC0569| CW8059 CATHAM 2 RM 2 AC0569 AC0569 SUPERSEDED SURVEY CONTROL AC0569 AC0569 NAD 83(2007) - 25 51 47.96857(N) 081 06 05.70671(W) AD(2002.00) 0

 AC0569
 NAD 83 (2007) - 25 51 47.96857 (N)
 081 06 05.70671 (W) AD (2002.00)

 AC0569
 ELLIP H (02/10/07) -22.561 (m)
 GP (2002.00)

 AC0569
 NAD 83 (1999) - 25 51 47.96810 (N)
 081 06 05.70748 (W) AD () 1

 AC0569
 ELLIP H (12/12/02) -22.556 (m)
 GP () 4

 AC0569
 NAD 83 (1990) - 25 51 47.96628 (N)
 081 06 05.70742 (W) AD () 1

 AC0569
 NAD 83 (1986) - 25 51 47.96342 (N)
 081 06 05.71597 (W) AD () 1

 AC0569
 NAD 27 - 25 51 46.60794 (N)
 081 06 06.45491 (W) AD () 1

 AC0569
 NAVD 88 (12/12/02) 1.65 (m)
 5.4 (f) LEVELING 3

 AC0569
 NGVD 29 (22/22/92) 2 082 (m)
 6 83 (f) ADJ UNCH

) 4 1) 1 AC0569 NGVD 29 (??/??/92) 2.082 (m) 6.83 (f) ADJ UNCH 1 1 AC0569 NGVD 29 (07/19/86) 2.08 (m) 6.8 (f) LEVELING AC0569 AC0569.Superseded values are not recommended for survey control. AC0569 AC0569.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AC0569.See file dsdata.txt to determine how the superseded data were derived. AC0569 AC0569 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ8982160551 (NAD 83) AC0569 AC0569 MARKER: DS = TRIANGULATION STATION DISK AC0569 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT AC0569 STAMPING: CATHAM 3 1961 AC0569 MARK LOGO: CGS AC0569 PROJECTION: PROJECTING 5 CENTIMETERS AC0569 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET AC0569 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AC0569+STABILITY: SURFACE MOTION AC0569 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR AC0569+SATELLITE: SATELLITE OBSERVATIONS - July 19, 2007 AC0569HISTORY- DateConditionReportAC0569HISTORY- 1961MONUMENTEDCGSAC0569HISTORY- 1965GOODCGSAC0569HISTORY- 1965GOODCGSAC0569HISTORY- 1971GOODLOCENGAC0569HISTORY- 1971GOODUSPSQDAC0569HISTORY- 1983GOODUSPSQDAC0569HISTORY- 1990MARK NOT FOUNDUSPSQDAC0569HISTORY- 19920226GOODNGSAC0569HISTORY- 19991231GOODUSPSQDAC0569HISTORY- 20010909GOODLDBLSAC0569HISTORY- 2002GOODMAPTECAC0569HISTORY- 20070719GOODINDIVAC0569HISTORY- 20130624MARK NOT FOUNDFL-021AC0569HISTORY- 20130624MARK NOT FOUNDFL-021AC0569HISTORY- 20130624MARK NOT FOUNDFL-021 AC0569 Report By AC0569 AC0569 STATION DESCRIPTION AC0569 AC0569'DESCRIBED BY COAST AND GEODETIC SURVEY 1961 (SCM) AC0569'STATION IS LOCATED ABOUT 17-1/2 MILES EAST OF THE VILLAGE OF AC0569'EVERGLADES ABOUT 13.0 MILES SOUTHEAST OF OCHOPEE AND ABOUT 0.15 AC0569'MILE WEST OF MONROE STATION. STATION, A STANDARD DISK SET IN AC0569'A 12X12 INCH CONCRETE MONUMENT AND STAMPED CATHAM 3 1961 IS ABOUT AC0569'50 YARDS SOUTHWEST OF THE SOUTHWEST CORNER OF A CONCRETE BRIDGE, AC0569'47-1/2 FEET SOUTHWEST OF A UTILITY POLE AND 0.5 FEET WEST OF A AC0569'STEEL WITNESS POST WITH METAL SIGN. THE MARK PROJECTS 6 AC0569'INCHES. AC0569' AC0569'CATHAM 2 1956, A STANDARD DISK SET IN A 12X12 INCH CONCRETE AC0569'MONUMENT AND STAMPED CATHAM 2 1956 IS 95 FEET SOUTH OF THE AC0569'CENTERLINE OF U.S. HIGHWAY NO. 41 AND 49 FEET NORTHWEST OF A AC0569'UTILITY POLE. THE MARK IS FLUSH WITH THE GROUND. AC0569' AC0569'TO REACH FROM THE JUNCTION OF U.S. HIGHWAY NO. 41 AND STATE AC0569'HIGHWAY NO. 27 WHICH IS ABOUT 20 MILES NORTH OF HOMESTEAD, GO AC0569'WEST ON U.S. HIGHWAY NO. 41 FOR 21.8 MILES TO FORKS AT FORTY AC0569'MILE BEND. CONTINUE NORTHWEST ON U.S. HIGHWAY NO. 41 FOR 20.4 AC0569'MILES TO MONROE STATION ON LEFT (SOUTH) SIDE OF HIGHWAY. AC0569'CONTINUE WEST ON U.S. HIGHWAY NO. 41 FOR 0.15 MILE TO STATION ON AC0569'LEFT (SOUTH) SIDE OF HIGHWAY AS DESCRIBED. AC0569' AC0569'TO REACH AZIMUTH MARK FROM STATION, GO EAST ON U.S. HIGHWAY AC0569'NO. 41 FOR 0.35 MILE TO AZIMUTH MARK ON LEFT (NORTH) SIDE OF AC0569'HIGHWAY AS DESCRIBED. AC0569' AC0569'REFERENCE MARK NO. 2, A STANDARD DISK SET IN A 12X12 INCH AC0569'CONCRETE MONUMENT AND STAMPED CATHAM 2 NO 2 1956 IS 106 FEET

AC0569'SOUTH OF THE CENTERLINE OF U.S. HIGHWAY NO. 41 AND 30 FEET AC0569'NORTHEAST OF A 12 INCH TREE. THE MARK PROJECTS 2 INCHES. AC0569' AC0569'REFERENCE MARK NO 3, A STANDARD DISK SET IN A 12X12 INCH CONCRETE AC0569'MONUMENT AND STAMPED CATHAM 3 NO 3 1961 IS 18-1/2 FEET EAST OF AC0569'AN 8 INCH CYPRESS TREE 20-1/2 FEET NORTHWEST OF AN 8 INCH CYPRESS AC0569'TREE AND 24-1/2 FEET NORTHEAST OF A 12 INCH CYPRESS TREE. THE AC0569'MARK PROJECTS 8 INCHES. AC0569' AC0569'REFERENCE MARK NO. 4, A STANDARD DISK SET IN A 12X12 INCH AC0569'CONCRETE MONUMENT AND STAMPED CATHAM 3 NO 4 1961 IS 46-1/2 FEET AC0569'SOUTHEAST OF A UTILITY POLE AND 55-1/2 FEET SOUTH OF A 12 INCH AC0569'CYPRESS TREE. THE MARK PROJECTS 6 INCHES. AC0569' AC0569'A TRAVERSE CONNECTION WAS MADE TO CATHAM 2 1956 AND THE DISTANCE AC0569'IS SHOWN. AC0569' AC0569'AZIMUTH MARK, A STANDARD DISK SET IN A 12X12 INCH CONCRETE AC0569'MONUMENT AND STAMPED CATHAM 3 1961 IS 25-1/2 FEET NORTH OF AC0569'CENTERLINE OF U.S. HIGHWAY NO. 41, 4-1/2 FEET WEST OF AN 18 INCH AC0569'TREE WITH TRIANGLE BLAZE, 11 FEET SOUTH OF THE SOUTH BANK OF CANAL AC0569'AND 2.5 FEET WEST OF WITNESS POST WITH METAL SIGN. THE MARK AC0569'PROJECTS 6 INCHES. AC0569' AC0569'HEIGHT OF LIGHT ABOVE STATION MARK 34 METERS. AC0569 STATION RECOVERY (1965) AC0569 AC0569 AC0569'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1965 (RRG) AC0569'THE STATION, REFERENCE MARKS, AND AZIMUTH MARK FOUND IN GOOD AC0569'CONDITION. AC0569' AC0569'THE STATION IS LOCATED AT MONROE STATION, ABOUT 0.05 MILE WEST AC0569'OF THE JUNCTION OF U.S. HIGHWAY 41 AND STATE HIGHWAY 94, 168 FEET AC0569'SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 41, 210 FEET SOUTHWEST AC0569'OF THE SOUTHWEST CORNER OF HIGHWAY BRIDGE NO. 96, 1.0 FOOT WEST AC0569'OF A METAL WITNESS POST, ABOUT 2 FEET BELOW THE LEVEL OF THE AC0569'HIGHWAY AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.6 AC0569'FOOT. THE STANDARD TRIANGULATION STATION DISK IS STAMPED AC0569'CATHAM 3 1961. AC0569' AC0569'CATHAM 3 R.M. 3, IS A REFERENCE MARK DISK STAMPED CATHAM 3 NO 3 AC0569'1961, 254 FEET SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 41, AC0569'86.6 FEET SOUTH-SOUTHWEST OF THE STATION MARK, 1.5 FEET NORTHEAST AC0569'OF A METAL WITNESS POST, ABOUT 3 FEET BELOW THE LEVEL OF THE AC0569'HIGHWAY AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.6 AC0569'FOOT. AC0569' AC0569'CATHAM 3 R.M. 4, IS A REFERENCE MARK DISK STAMPED CATHAM 4 NO 4 AC0569'1961, 173 FEET SOUTH OF THE CENTER LINE OF THE HIGHWAY, 289 FEET AC0569'SOUTHWEST OF THE SOUTHWEST CORNER OF THE HIGHWAY BRIDGE NO. 96, AC0569'98.2 FEET WEST OF THE STATION MARK, 2.0 FEET EAST OF A METAL AC0569'WITNESS POST, 2 FEET BELOW THE LEVEL OF THE HIGHWAY AND SET IN AC0569'THE TOP OF A CONCRETE POST PROJECTING 0.7 FOOT. AC0569' AC0569'CATHAM AZIMUTH IS LOCATED ABOUT 0.3 MILE EAST OF THE STATION AC0569'ALONG THE NORTH SIDE OF THE HIGHWAY, 25 FEET NORTH OF THE CENTER AC0569'LINE OF THE HIGHWAY, 6 FEET SOUTH OF THE SOUTH EDGE OF THE CANAL, AC0569'2.0 FEET WEST OF A METAL WITNESS POST, ABOUT LEVEL WITH THE AC0569'HIGHWAY AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.5

AC0569'FOOT.

Page 5 of 7

AC0569 AC0569 STATION RECOVERY (1965) AC0569 AC0569'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1965 AC0569'AT MONROE STATION. AC0569'AT MONROE STATION, 261 FEET SOUTHWEST OF THE CENTER OF THE AC0569'JUNCTION OF U.S. HIGHWAY 41 AND STATE HIGHWAY 94, 168 FEET AC0569'SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 41, 47 1/2 FEET SOUTHWEST AC0569'OF TELEPHONE POLE NO. 18124, 210 FEET SOUTHWEST OF THE SOUTHWEST AC0569'CORNER OF HIGHWAY BRIDGE NO. 96, 86.6 FEET NORTH-NORTHEAST OF AC0569'CATHAM 3 R. M. 3 DESCRIBED, 98.2 FEET EAST OF CATHAM 3 R.M. 4 AC0569'DESCRIBED, 1.0 FEET WEST OF A METAL WITNESS POST, ABOUT 2 FEET AC0569'BELOW THE LEVEL OF THE HIGHWAY AND SET IN THE TOP OF A CONCRETE AC0569'POST PROJECTING 0.6 FOOT. AC0569 AC0569 STATION RECOVERY (1971) AC0569 AC0569'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM) 1971 (ERB) AC0569'CATHAM 3 1961 EXCELLENT AC0569' AC0569'CATHAM 3 NO. 3 1961 EXCELLENT AC0569' AC0569'CATHAM 3 NO. 4 1961 EXCELLENT AC0569' AC0569'CATHAM 2 NO. 2 1956 EXCELLENT AC0569' AC0569'CATHAM 2 1956 EXCELLENT AC0569' AC0569'CATHAM 3 1961 (AZ MARK) EXCELLENT AC0569' AC0569'DESCRIPTION IS ADEQUATE. AC0569 AC0569 STATION RECOVERY (1983) AC0569 AC0569'RECOVERY NOTE BY US POWER SQUADRON 1983 AC0569'AT MONROE STATION, 261 FEET SOUTHWEST OF THE CENTER OF THE JUNCTION AC0569'OF U.S. HIGHWAY 41 AND STATE HIGHWAY 94, 168 FEET SOUTH OF CENTERLINE AC0569'OF U.S. HIGHWAY 41, 47 1/2 FEET SOUTHWEST OF TELEPHONE POLE NO 18124, AC0569'210 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF HIGHWAY BRIDGE NO 96 AC0569'(030096), 86.6 FEET NORTH NORTHEAST OF CATHAM 3 RM 3, 98.2 FEET EAST AC0569'OF CATHAM 3 R.M. 4, 1.0 FEET WEST OF A METAL WITNESS POST, ABOUT 2 AC0569'FEET BELOW THE LEVEL OF T HE HIGHWAY AND SET IN THE TOP OF A CONCRETE AC0569'POST PROJECTING 0.6 FEET. AC0569 STATION RECOVERY (1990) AC0569 AC0569 AC0569'RECOVERY NOTE BY US POWER SOUADRON 1990 (HEA) AC0569'MARK NOT FOUND. AC0569 AC0569 STATION RECOVERY (1992) AC0569 AC0569'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992 AC0569'78.0 KM (48.45 MI) EASTERLY ALONG U.S. HIGHWAY 41 FROM THE JUNCTION AC0569'OF STATE HIGHWAY IN NAPLES, 64.1 M (210.3 FT) SOUTHWEST OF THE AC0569'SOUTHWEST CORNER OF A BRIDGE, 51.2 M (168.0 FT) SOUTH OF THE AC0569'CENTERLINE OF THE HIGHWAY, 29.9 M (98.1 FT) EAST OF REFERENCE MARK 4, AC0569'0.6 M (2.0 FT) BELOW THE LEVEL OF THE HIGHWAY, 0.3 M (1.0 FT) AC0569'NORTHEAST OF A WITNESS POST, AND THE MONUMENT PROJECTS 0.08 M (0.26 AC0569'FT) ABOVE THE GROUND SURFACE.

DATASHEETS

Page 6 of 7

AC0569 AC0569 STATION RECOVERY (1999) AC0569 AC0569'RECOVERY NOTE BY US POWER SQUADRON 1999 AC0569'RECOVERED IN GOOD CONDITION. AC0569 AC0569 STATION RECOVERY (2001) AC0569 AC0569'RECOVERY NOTE BY LD BRADLEY LAND SURVEYORS 2001 (JCH) AC0569'THE MARK IS ABOUT 77.5 KM (48.15 MI) SOUTHEAST OF NAPLES, ABOUT 84.15 AC0569'KM (52.29 AC0569'MI) NORTHWEST OF WEST MIAMI, IN SECTION 15, TOWNSHIP 53 SOUTH, RANGE AC0569'32 EAST, AC0569'COLLIER COUNTY, FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF AC0569'TRANSPORTATION. AC0569' AC0569'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 41 (TAMIAMI AC0569'TRAIL) AND AC0569'STATE ROAD 29 IN CARNESTOWN, GO SOUTHEAST ON U.S. HIGHWAY 41 6.9 KM AC0569'(4.3 MI) TO AC0569'THE POST OFFICE IN OCHOPEE, CONTINUE SOUTHEAST ON U.S. HIGHWAY 41 20.3 AC0569'KM AC0569'(12.61 MI) TO THE WEST EDGE OF MONROE STATION AND THE MARK ON THE AC0569'RIGHT, ALSO AC0569'FROM THE OASIS VISITOR CENTER GO NORTHWEST ON U.S. HIGHWAY 41 6.9 KM AC0569'(4.26 MI) AC0569'AND THE MARK ON THE LEFT. AC0569' AC0569'THE MARK IS 51.02 M (167.4 FT) SOUTHWEST OF THE CENTERLINE OF U.S. AC0569'HIGHWAY 41. AC0569'39.01 M (128.0 FT) NORTHWEST OF (PARALLEL TO HIGHWAY) THE WEST END OF AC0569'THE SOUTH AC0569'CONCRETE ENDWALL OF A BOX CULVERT (BENEATH U.S. HIGHWAY 41), 58.43 M AC0569'(191.7 FT) AC0569'SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTH CONCRETE ENDWALL, AND AC0569'0.30 M AC0569'(1.0 FT) NORTHEAST OF A CARSONITE WITNESS POST. THE MARK IS A DISK SET AC0569'FLUSH IN AC0569'THE TOP OF A CONCRETE MONUMENT, PROJECTING 5 CM (0.17 FT) ABOVE THE AC0569'GROUND AND AC0569'ABOUT 0.61 M (2.0 FT) BELOW THE LEVEL OF THE HIGHWAY. AC0569' AC0569'NOTE - A MAGNET WAS BURIED 6 CM (0.2 FT) BELOW THE LEVEL OF THE AC0569'GROUND, 0.18 M AC0569'(0.6 FT) NORTH OF THE MARK. AC0569 AC0569 STATION RECOVERY (2002) AC0569 AC0569'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP) AC0569'THE MARK IS ABOUT 77.5 KM (48.15 MI) SOUTHEAST OF NAPLES, ABOUT 84.15 AC0569'KM (52.29 AC0569'MI) NORTHWEST OF WEST MIAMI, IN SECTION 15, TOWNSHIP 53 SOUTH, RANGE AC0569'32 EAST, AC0569'COLLIER COUNTY, FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF AC0569'TRANSPORTATION. AC0569' AC0569'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 41 (TAMIAMI AC0569'TRAIL) AND AC0569'STATE ROAD 29 IN CARNESTOWN, GO SOUTHEAST ON U.S. HIGHWAY 41 6.9 KM AC0569'(4.3 MI) TO

AC0569'THE POST OFFICE IN OCHOPEE, CONTINUE SOUTHEAST ON U.S. HIGHWAY 41 20.3 AC0569'KM AC0569'(12.61 MI) TO THE WEST EDGE OF MONROE STATION AND THE MARK ON THE AC0569'RIGHT, ALSO AC0569'FROM THE OASIS VISITOR CENTER GO NORTHWEST ON U.S. HIGHWAY 41 6.9 KM AC0569'(4.26 MI) AC0569'AND THE MARK ON THE LEFT. AC0569' AC0569'THE MARK IS 51.02 M (167.4 FT) SOUTHWEST OF THE CENTERLINE OF U.S. AC0569'HIGHWAY 41, AC0569'39.01 M (128.0 FT) NORTHWEST OF (PARALLEL TO HIGHWAY) THE WEST END OF AC0569'THE SOUTH AC0569'CONCRETE ENDWALL OF A BOX CULVERT (BENEATH U.S. HIGHWAY 41), 58.43 M AC0569'(191.7 FT) AC0569'SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTH CONCRETE ENDWALL, AND AC0569'0.30 M AC0569'(1.0 FT) NORTHEAST OF A CARSONITE WITNESS POST. THE MARK IS A DISK SET AC0569'FLUSH IN AC0569'THE TOP OF A CONCRETE MONUMENT, PROJECTING 5 CM (0.17 FT) ABOVE THE AC0569'GROUND AND AC0569'ABOUT 0.61 M (2.0 FT) BELOW THE LEVEL OF THE HIGHWAY. AC0569' AC0569'NOTE - A MAGNET WAS BURIED 6 CM (0.2 FT) BELOW THE LEVEL OF THE AC0569'GROUND, 0.18 M AC0569'(0.6 FT) NORTH OF THE MARK. AC0569' AC0569'STATION RECOVERY (2002) AC0569'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP) AC0569'RECOVERED AS DESCRIBED. AC0569 AC0569 STATION RECOVERY (2007) AC0569 AC0569'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (AM) AC0569'RECOVERED BY KEITH AND ASSOCIATES AC0569 AC0569 STATION RECOVERY (2013) AC0569 AC0569'RECOVERY NOTE BY COLLIER COUNTY FLORIDA 2013 (MLB) AC0569'MARK NOT FOUND. *** retrieval complete. Elapsed Time = 00:00:03

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.Line/Part: L26219SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrainedMark IDSSNPIDDesignationGeopotentialElevationCodes13790882AC4658FLGPS RON AZ MK5.88066.0007

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = MAY 9, 2016
AC4658 DESIGNATION - FLGPS RON AZ MK
            - AC4658
AC4658 PID
AC4658 STATE/COUNTY- FL/MIAMI-DADE
AC4658 COUNTRY - US
AC4658 USGS QUAD - FORTYMILE BEND (1995)
AC4658
AC4658
                           *CURRENT SURVEY CONTROL
AC4658
AC4658* NAD 83(2011) POSITION- 25 45 43.45632(N) 080 46 28.94147(W) ADJUSTED
AC4658* NAD 83(2011) ELLIP HT- -18.686 (meters) (06/27/12) ADJUSTED
AC4658* NAD 83(2011) EPOCH - 2010.00
AC4658* NAVD 88 ORTHO HEIGHT - 5.542 (meters) 18.18 (feet) ADJUSTED
AC4658
AC4658 NAD 83(2011) X - 921,471.664 (meters)
                                                             COMP
AC4658 NAD 83(2011) Y - -5,673,467.008 (meters)
                                                             COMP
AC4658 NAD 83(2011) Z - 2,755,338.390 (meters)
                                                             COMP
AC4658 LAPLACE CORR -
                             -1.29 (seconds)
                                                             DEFLEC12B
AC4658 GEOID HEIGHT -
                             -24.214 (meters)
                                                             GEOID12B
AC4658 DYNAMIC HEIGHT -
                              5.533 (meters)
                                                18.15 (feet) COMP
AC4658 MODELED GRAVITY - 979,026.9 (mgal)
                                                             NAVD 88
AC4658
AC4658 VERT ORDER - FIRST CLASS II
AC4658
AC4658 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AC4658 Standards:
AC4658
             FGDC (95% conf, cm)
                                 Standard deviation (cm)
                                                         CorrNE
             Horiz Ellip SD N SD E SD h (unitless)
AC4658
AC4658 -----
                ____
                      _____
                                         _____
                                                ____
                                                        _____
AC4658 NETWORK 3.13 4.17
                                    1.30 1.26 2.13
                                                        -0.07231582
AC4658 ------
AC4658 Click here for local accuracies and other accuracy information.
AC4658
AC4658
AC4658. The horizontal coordinates were established by GPS observations
AC4658.and adjusted by the National Geodetic Survey in June 2012.
AC4658
AC4658.NAD 83(2011) refers to NAD 83 coordinates where the reference
AC4658.frame has been affixed to the stable North American tectonic plate. See
AC4658.NA2011 for more information.
AC4658
AC4658. The horizontal coordinates are valid at the epoch date displayed above
AC4658.which is a decimal equivalence of Year/Month/Day.
AC4658
AC4658. The orthometric height was determined by differential leveling and
AC4658.adjusted by the NATIONAL GEODETIC SURVEY
AC4658.in March 2002.
AC4658
AC4658.Significant digits in the geoid height do not necessarily reflect accuracy.
```

AC4658.GEOID12B height accuracy estimate available here. AC4658 AC4658. The X, Y, and Z were computed from the position and the ellipsoidal ht. AC4658 AC4658. The Laplace correction was computed from DEFLEC12B derived deflections. AC4658 AC4658. The ellipsoidal height was determined by GPS observations AC4658.and is referenced to NAD 83. AC4658 AC4658. The dynamic height is computed by dividing the NAVD 88 AC4658.geopotential number by the normal gravity value computed on the AC4658.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 AC4658.degrees latitude (q = 980.6199 gals.). AC4658 AC4658. The modeled gravity was interpolated from observed gravity values. AC4658 AC4658. The following values were computed from the NAD 83(2011) position. AC4658 North East Units Scale Factor Converg. AC4658; AC4658; SPC FL E-158,276.488222,599.874MT0.99994748+00552.5AC4658; SPC FL E-519,278.78730,313.09sFT0.99994748+00552.5AC4658; UTM17-2,849,354.466522,592.163MT0.999960630+00552.5 AC4658 AC4658!-Elev FactorxScale Factor=Combined FactorAC4658!SPC FL E-1.00000294x0.99994748=0.99995042AC4658!UTM17-1.00000294x0.99960630=0.99960923 AC4658:SPC FL E - T 237 AC4658 UTM 17 - T 237 AC4658 Grid Az 091 12 13.7 091 12 13.7 Distance Geod. Az | dddmmss.s | AC4658 | PID Reference Object AC4658| AC4658| AC0523 T 237 APPROX. 0.5 KM 0911806.2 | AC4658| AC4647 FLGPS RON APPROX. 0.5 KM 0922526.6 | AC4658 AC4658 SUPERSEDED SURVEY CONTROL AC4658 AC4658 NAD 83(2007) - 25 45 43.45649(N) 080 46 28.94187(W) AD(2002.00) 0 AC4658ELLIP H (02/10/07) -18.659 (m)GP(2002.00)AC4658NAD 83(1999) - 25 45 43.45599(N)080 46 28.94143(W) AD() 1

 AC4658
 ELLIP H (12/13/01) -18.675 (m)
 GP() 5

 AC4658
 NAD 83(1990) - 25 45 43.45467 (N)
 080 46 28.94114 (W) AD() 1

 AC4658
 NAVD 88 (12/12/02) 5.54 (m)
 18.2 (f) LEVELING 3

) 51 AC4658 NGVD 29 (02/04/91) 6.0 (m) RAPSU86 model used GPS OBS AC4658 AC4658.Superseded values are not recommended for survey control. AC4658 AC4658.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums. AC4658.See file dsdata.txt to determine how the superseded data were derived. AC4658 AC4658 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ2259249354 (NAD 83) AC4658 AC4658 MARKER: DH = HORIZONTAL CONTROL DISK AC4658 SETTING: 34 = SET IN THE FOOTINGS OF SMALL/MEDIUM STRUCTURES AC4658 SP SET: BRIDGE RETAINING WALL AC4658 STAMPING: FLGPS RON AZ MK 1989 AC4658 MARK LOGO: NGS

AC4658 MAGNETIC: N = NO MAGNETIC MATERIAL AC4658 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AC4658+STABILITY: SURFACE MOTION AC4658 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR AC4658+SATELLITE: SATELLITE OBSERVATIONS - February 16, 2016 AC4658

 AC4658
 HISTORY
 - Date
 Condition

 AC4658
 HISTORY
 - 1989
 MONUMENTED

 AC4658
 HISTORY
 - 20010920
 GOOD

 AC4658
 HISTORY
 - 2002
 GOOD

 AC4658
 HISTORY
 - 20070724
 GOOD

 AC4658
 HISTORY
 - 20120530
 GOOD

 AC4658
 HISTORY
 - 20130916
 GOOD

 AC4658
 HISTORY
 - 20160216
 GOOD

 Report By NGS LDBLS MAPTEC INDIV INDIV SFLWMD INDIV AC4658 AC4658 STATION DESCRIPTION AC4658 AC4658'DESCRIBED BY NATIONAL GEODETIC SURVEY 1989 AC4658'THE STATION IS LOCATED ABOUT 83.02 KM (51.60 MI) WEST OF MIAMI, 37.50 AC4658'KM (23.30 MI) SOUTHEAST OF MONROE STATION, IN SECTION 18, T 54 S, R 36 AC4658'E, IN THE SOUTH END OF THE WEST CONCRETE HEADWALL FOR A WOODEN BRIDGE AC4658'OVER AN EAST-WEST CANAL. OWNERSHIP--HIGHWAY RIGHT-OF-WAY. AC4658'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 41 AND AC4658'STATE ROAD 997 NEAR SWEETWATER, GO WEST FOR 29.44 KM (18.30 MI) ON AC4658'HIGHWAY 41 TO THE JUNCTION OF SHARK VALLEY ROAD. CONTINUE WEST FOR AC4658'0.32 KM (0.20 MI) ON HIGHWAY 41 TO A BRIDGE AND U.S. CORP SPILLWAY AC4658'FACILITY. CONTINUE WEST FOR 0.56 KM (0.35 MI) ON HIGHWAY 41 TO A AC4658'BRIDGE OVER AN EAST-WEST CANAL, AN AIRBOAT SIGHTSEEING FACILITY AND AC4658'THE STATION ON RIGHT. AC4658'LOCATED 19.66 M (64.5 FT) NORTH FROM THE APPROXIMATE CENTER OF HIGHWAY AC4658'41, 9.20 M (30.2 FT) EAST FROM A 25-CM PALM TREE, 4.08 M (13.4 FT) AC4658'WEST FROM THE APPROXIMATE CENTER OF BRIDGE AND 0.91 M (3.0 FT) NORTH AC4658'FROM A CARSONITE WITNESS POST. AC4658'DESCRIBED BY R.L. MALLOY. AC4658 AC4658 STATION RECOVERY (2001) AC4658 AC4658'RECOVERY NOTE BY LD BRADLEY LAND SURVEYORS 2001 (JCH) AC4658'THE MARK IS ABOUT 114.2 KM (70.94 MI) SOUTHEAST OF NAPLES, ABOUT 47.5 AC4658'KM (29.50 AC4658'MI) WEST OF WEST MIAMI IN DADE COUNTY, FLORIDA. OWNERSHIP - MICCOSUKEE AC4658'INDIAN AC4658'TRIBE. AC4658' AC4658'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 41 (TAMIAMI AC4658'TRAIL) AND AC4658'THE FLORIDA TURNPIKE (ABOUT 8.5 KM (5.25 MI) WEST OF WEST MIAMI), GO AC4658'WEST ON AC4658'U.S. HIGHWAY 41 (TAMIAMI TRAIL) 9.7 KM (6.0 MI) TO ITS INTERSECTION AC4658'WITH STATE AC4658'ROAD 997, CONTINUE WEST ON U.S. HIGHWAY 41 28.9 KM (17.94 MI) TO AC4658'CONCRETE WEIR, AC4658'STRUCTURE S12B, CONTINUE WEST ON U.S. HIGHWAY 41 0.5 KM (0.32 MI) TO A AC4658'MICCOSUKEE INDIAN AIRBOAT TOUR FACILITY AND THE MARK ON THE RIGHT. AC4658' AC4658'THE MARK IS 4.7 KM (2.89 MI) EAST ON U.S. HIGHWAY 41 FROM CONCRETE AC4658'WEIR AC4658'STRUCTURE NUMBER S12A, 19.96 M (65.5 FT) NORTH OF THE CENTERLINE OF AC4658'THE AC4658'HIGHWAY, 4.05 M (13.3 FT) WEST OF THE CENTER OF A WOOD DECKED BRIDGE,

DATASHEETS

Page 4 of 5

AC4658'0.70 M AC4658'(2.3 FT) SOUTH OF THE NORTH EDGE OF A RETAINING WALL, 0.15 M (0.5 FT) AC4658'NORTH OF AC4658'THE SOUTH EDGE OF A RETAINING WALL. MARK IS A DISK SET FLUSH IN THE AC4658'TOP OF THE AC4658'WEST END OF THE SOUTH CONCRETE ABUTMENT (RETAINING WALL) OF A WOOD AC4658 DECKED AC4658'BRIDGE SPANNING A CANAL ABOUT 1.82 M (6.0 FT) ABOVE THE LEVEL OF THE AC4658'HIGHWAY. AC4658' AC4658' AC4658 AC4658 STATION RECOVERY (2002) AC4658 AC4658'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP) AC4658'THE MARK IS ABOUT 114.2 KM (70.94 MI) SOUTHEAST OF NAPLES, ABOUT 47.5 AC4658'KM (29.50 AC4658'MI) WEST OF WEST MIAMI IN DADE COUNTY, FLORIDA. OWNERSHIP - MICCOSUKEE AC4658'INDIAN AC4658'TRIBE. AC4658' AC4658'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 41 (TAMIAMI AC4658'TRAIL) AND AC4658'THE FLORIDA TURNPIKE (ABOUT 8.5 KM (5.25 MI) WEST OF WEST MIAMI), GO AC4658'WEST ON AC4658'U.S. HIGHWAY 41 (TAMIAMI TRAIL) 9.7 KM (6.0 MI) TO ITS INTERSECTION AC4658'WITH STATE AC4658'ROAD 997, CONTINUE WEST ON U.S. HIGHWAY 41 28.9 KM (17.94 MI) TO AC4658'CONCRETE WEIR, AC4658'STRUCTURE S12B, CONTINUE WEST ON U.S. HIGHWAY 41 0.5 KM (0.32 MI) TO A AC4658'MICCOSUKEE INDIAN AIRBOAT TOUR FACILITY AND THE MARK ON THE RIGHT. AC4658' AC4658'THE MARK IS 4.7 KM (2.89 MI) EAST ON U.S. HIGHWAY 41 FROM CONCRETE AC4658'WEIR AC4658'STRUCTURE NUMBER S12A, 19.96 M (65.5 FT) NORTH OF THE CENTERLINE OF AC4658'THE AC4658'HIGHWAY, 4.05 M (13.3 FT) WEST OF THE CENTER OF A WOOD DECKED BRIDGE, AC4658'0.70 M AC4658'(2.3 FT) SOUTH OF THE NORTH EDGE OF A RETAINING WALL, 0.15 M (0.5 FT) AC4658'NORTH OF AC4658'THE SOUTH EDGE OF A RETAINING WALL. MARK IS A DISK SET FLUSH IN THE AC4658'TOP OF THE AC4658'WEST END OF THE SOUTH CONCRETE ABUTMENT (RETAINING WALL) OF A WOOD AC4658'DECKED AC4658'BRIDGE SPANNING A CANAL ABOUT 1.82 M (6.0 FT) ABOVE THE LEVEL OF THE AC4658'HIGHWAY. AC4658' AC4658'STATION RECOVERY (2002) AC4658'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP) AC4658'RECOVERED AS DESCRIBED. AC4658' AC4658' AC4658 AC4658 STATION RECOVERY (2007) AC4658 AC4658'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DF) AC4658'RECOVERED BY KEITH AND ASSOCIATES AC4658 STATION RECOVERY (2012) AC4658 AC4658

AC4658'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2012 (MAR) AC4658'RECOVERED IN GOOD CONDITION. AC4658 AC4658 AC4658 STATION RECOVERY (2013) AC4658 AC4658'RECOVERY NOTE BY S FL WATER MGMT DIST 2013 (TM) AC4658'RECOVERED AS DESCRIBED AC4658 AC4658 AC4658 AC4658'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2016 (JKG) AC4658'RECOVERED IN GOOD CONDITION.

*** retrieval complete. Elapsed Time = 00:00:04

From the "ngvd29.txt"	file provided by NGS for	the CERP Geodetic Vertical	Control Pro	oject.
Line/Part: L26224	SSN+: mark floated, S	SSN*: mark constrained, S	SN#: mark	floated & constrained
Mark ID SSN PID	Designation	Geopotential	Elevation	Codes
640 2003 AJ6501	Q 498	9.2993	9.4891	

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = MAY 9, 2016
AJ6501 DESIGNATION - Q 498
            - AJ6501
AJ6501 PID
AJ6501 STATE/COUNTY- FL/COLLIER
AJ6501 COUNTRY - US
AJ6501 USGS QUAD - CALIFORNIA SLOUGH (1974)
AJ6501
AJ6501
                            *CURRENT SURVEY CONTROL
AJ6501
AJ6501* NAD 83(2011) POSITION- 26 10 20.62972(N) 080 53 37.72883(W) ADJUSTED
AJ6501* NAD 83(2011) ELLIP HT- -15.676 (meters)
                                                  (06/27/12) ADJUSTED
AJ6501*<u>NAD 83(2011) EPOCH - 201</u>0.00
AJ6501* NAVD 88 ORTHO HEIGHT - 9.047 (meters)
                                               29.68 (feet) ADJUSTED
AJ6501
AJ6501 NAD 83(2011) X - 906,525.824 (meters)
                                                               COMP
AJ6501 NAD 83(2011) Y - -5,655,719.412 (meters)
AJ6501 NAD 83(2011) Z - 2,796,209.162 (meters)
                                                               COMP
                                                               COMP
AJ6501 LAPLACE CORR -
                                                               DEFLEC12B
                               0.88 (seconds)
AJ6501 GEOID HEIGHT -
                              -24.726 (meters)
                                                               GEOID12B
AJ6501 DYNAMIC HEIGHT -
                                9.032 (meters)
                                                 29.63 (feet) COMP
AJ6501 MODELED GRAVITY - 979,036.1 (mgal)
                                                               NAVD 88
AJ6501
AJ6501 VERT ORDER - FIRST CLASS II
AJ6501
AJ6501 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ6501 Standards:
AJ6501
             FGDC (95% conf, cm)
                                  Standard deviation (cm)
                                                           CorrNE
             Horiz Ellip SD N SD E SD h (unitless)
AJ6501
AJ6501 -----
                _____
                      _____
                                           _____
                                                 ____
                                                          _____
AJ6501 NETWORK 0.95 1.55
                                     0.40 0.38 0.79 0.09062593
AJ6501 -----
AJ6501 Click here for local accuracies and other accuracy information.
AJ6501
AJ6501
AJ6501. The horizontal coordinates were established by GPS observations
AJ6501.and adjusted by the National Geodetic Survey in June 2012.
AJ6501
AJ6501.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ6501.frame has been affixed to the stable North American tectonic plate. See
AJ6501.NA2011 for more information.
AJ6501
AJ6501. The horizontal coordinates are valid at the epoch date displayed above
AJ6501.which is a decimal equivalence of Year/Month/Day.
AJ6501
AJ6501. The orthometric height was determined by differential leveling and
AJ6501.adjusted by the NATIONAL GEODETIC SURVEY
AJ6501.in December 2001.
AJ6501
AJ6501.Significant digits in the geoid height do not necessarily reflect accuracy.
```

AJ6501.GEOID12B height accuracy estimate available here. AJ6501 AJ6501. The X, Y, and Z were computed from the position and the ellipsoidal ht. AJ6501 AJ6501. The Laplace correction was computed from DEFLEC12B derived deflections. AJ6501 AJ6501. The ellipsoidal height was determined by GPS observations AJ6501.and is referenced to NAD 83. AJ6501 AJ6501. The dynamic height is computed by dividing the NAVD 88 AJ6501.geopotential number by the normal gravity value computed on the AJ6501.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 AJ6501.degrees latitude (q = 980.6199 gals.). AJ6501 AJ6501. The modeled gravity was interpolated from observed gravity values. AJ6501 AJ6501. The following values were computed from the NAD 83(2011) position. AJ6501 East Units Scale Factor Converg. North AJ6501;

 AJ6501;
 North
 East
 Units
 Scale
 Factor
 Converg.

 AJ6501;SPC FL E
 203,717.824
 210,614.957
 MT
 0.99994257
 +0
 02
 48.6

 AJ6501;SPC FL E
 668,364.23
 690,992.57
 sFT
 0.99994257
 +0
 02
 48.6

 AJ6501;UTM
 17
 2,894,780.297
 510,611.336
 MT
 0.99960139
 +0
 02
 48.6

 AJ6501

 AJ6501!
 - Elev Factor x
 Scale Factor =
 Combined Factor

 AJ6501!SPC FL E
 - 1.00000246 x
 0.99994257 =
 0.99994503

 AJ6501!UTM 17
 - 1.00000246 x
 0.99960139 =
 0.99960385

 AJ6501 Distance Geod. Az | AJ6501| PID Reference Object dddmmss.s | AJ65011 23.304 METERS 35057 AJ6501| AH2084 I75 G 36 1 AJ6501 AJ6501 SUPERSEDED SURVEY CONTROL AJ6501 AJ6501NAD 83(2007) - 26 10 20.62985(N)080 53 37.72947(W)AD(2002.00)AJ6501ELLIP H (02/10/07) -15.659 (m)GP(2002.00)AJ6501NAD 83(1999) - 26 10 20.62973(N)080 53 37.72971(W)AD(AJ6501ELLIP H (12/12/02) -15.651 (m)GP(2AJ6501NAVD 88 (12/12/02) 9.05 (m)29.7 (f)LEVELING AJ6501 AJ6501.Superseded values are not recommended for survey control. AJ6501 AJ6501.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums. AJ6501.See file dsdata.txt to determine how the superseded data were derived. AJ6501 AJ6501 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ1061194780 (NAD 83) AJ6501 AJ6501 MARKER: F = FLANGE-ENCASED RODAJ6501 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+) AJ6501 STAMPING: Q 498 2000 AJ6501 MARK LOGO: NGS AJ6501 PROJECTION: RECESSED 12 CENTIMETERS AJ6501 MAGNETIC: N = NO MAGNETIC MATERIAL AJ6501 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL AJ6501 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR AJ6501+SATELLITE: SATELLITE OBSERVATIONS - July 24, 2007 AJ6501 ROD/PIPE-DEPTH: 4.3 meters AJ6501 AJ6501 HISTORY - Date Condition Report By

AJ6501 HISTORY - 2000 MONUMENTED FLDEP AJ6501 HISTORY - 20010516 GOOD LDBLS AJ6501 HISTORY - 2002 GOOD AJ6501 HISTORY - 20070724 GOOD MAPTEC INDIV AJ6501 AJ6501 STATION DESCRIPTION AJ6501 AJ6501'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM) AJ6501'THE MARK IS ABOUT 28.3 MI (45.5 KM) WEST OF ANDYTOWN, 2.7 MI (4.3 KM) AJ6501'WEST OF SNAKE ROAD (I-75 EXIT 14) , IN SECTION 36, TOWNSHIP 49 SOUTH, AJ6501'RANGE 34 EAST. TO REACH THE MARK FROM THE JUNCTION OF SNAKE ROAD AND AJ6501'INTERSTATE HIGHWAY 75 (EXIT 14) NEAR ANDYTOWN, GO WEST ON INTERSTATE AJ6501'HIGHWAY 75 FOR 2.35 MI (3.78 KM) TO THE EAST END OF BRIDGE NUMBER AJ6501'030283 AND THE MARK ON THE LEFT, A STAINLESS STEEL ROD DRIVEN INTO THE AJ6501'GROUND AT A DEPTH OF 14.2 FT (4.3 M) WITH A NGS LOGO CAP FLUSH WITH AJ6501'THE GROUND AND LEVEL WITH THE WESTBOUND LANES OF INTERSTATE HIGHWAY AJ6501'75, THE DATUM POINT IS RECESSED 0.4 FT (12.2 CM) BELOW THE LEVEL OF AJ6501'THE NGS LOGO CAP. LOCATED 60.3 FT (18.4 M) NORTH OF THE CENTERLINE OF AJ6501'THE EASTBOUND LANES OF INTERSTATE HIGHWAY 75, 52.3 FT (15.9 M) SOUTH AJ6501'OF THE CENTERLINE OF THE WESTBOUND LANES OF INTERSTATE HIGHWAY 75, AJ6501'40.8 FT (12.4 M) NORTHEAST OF THE NORTHEAST BRIDGE RAIL OF THE AJ6501'EASTBOUND LANES, 33.4 FT (10.2 M) SOUTHEAST OF SOUTHEAST BRIDGE RAIL AJ6501'OF THE WESTBOUND LANES AND 11.0 FT (3.4 M) EAST OF A CARSONITE WITNESS AJ6501'POST. NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO AJ6501'CAP. AJ6501 STATION RECOVERY (2001) AJ6501 AJ6501 AJ6501'RECOVERY NOTE BY LD BRADLEY LAND SURVEYORS 2001 (JCH) AJ6501'THE MARK IS ABOUT 45.5 KM (28.3 MI) WEST OF ANDYTOWN, ABOUT 79.3 KM AJ6501'(49.3 MI) AJ6501'EAST OF I-75 (EXIT 15) OVERPASS OVER COUNTY ROAD 951 NEAR NAPLES IN AJ6501'ESTIMATED AJ6501'SECTION 1, TOWNSHIP 50 SOUTH, RANGE 34 EAST, COLLIER COUNTY, FLORIDA. AJ6501'OWNERSHIP-FLORIDA DEPARTMENT OF TRANSPORTATION AJ6501' AJ6501'TO REACH THE MARK FROM THE INTERSECTION OF I-75 AND SNAKE ROAD (I-75 AJ6501'EXIT 14, AJ6501'41.8 KM (26.0 MI) WEST OF ANDYTOWN) GO WEST ON I-75 3.8 KM (2.35 MI) AJ6501'TO THE AJ6501'EAST END OF A CONCRETE BRIDGE, NO. STR H 030283, AND THE MARK ON THE AJ6501'LEFT IN AJ6501'THE MEDIAN OF I-75. AJ6501' AJ6501'THE MARK IS A STAINLESS STEEL ROD DRIVEN INTO THE GROUND WITH AN NGS AJ6501'LOGO CAP AJ6501'FLUSH WITH THE GROUND. THE DATUM POINT IS RECESSED 0.12 M (0.4 FT) AJ6501'BELOW THE AJ6501'LEVEL OF THE NGS LOGO CAP AND APPROXIMATELY LEVEL WITH BOTH LANES OF AJ6501'I-75, AJ6501'18.29 M (60.0 FT) NORTH FROM THE CENTERLINE OF THE EASTBOUND LANES OF AJ6501'I-75, AJ6501'15.97 M (52.4 FT) SOUTH FROM THE CENTERLINE OF THE WESTBOUND LANES OF AJ6501'I-75, AJ6501'12.41 M (40.7 FT) NORTHEAST OF THE NORTHEAST GUARDRAIL OF THE AJ6501'EASTBOUND LANES, AJ6501'10.33 M (33.9 FT) SOUTHEAST OF THE SOUTHEAST GUARDRAIL OF THE AJ6501'WESTBOUND LANES, AJ6501'3.66 M (12.0 FT) EAST FROM THE TOP OF SLOPE (SLOPE DOWN TO CANAL AJ6501'BELOW) AND

AJ6501'3.29 M (10.8 FT) EAST OF A CARSONITE WITNESS POST. AJ6501' AJ6501'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE LOGO CAP AJ6501'(ACCESS AJ6501'COVER). AJ6501 AJ6501 STATION RECOVERY (2002) AJ6501 AJ6501'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP) AJ6501'RECOVERED AS DESCCRIBED AJ6501' AJ6501'NOTE SEE L26127 AJ6501' AJ6501'STATION RECOVERY (2002) AJ6501' AJ6501'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP) AJ6501'RECOVERED AS DESCRIBED. AJ6501 AJ6501 STATION RECOVERY (2007) AJ6501 AJ6501'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DF) AJ6501'RECOVERED BY KEITH AND ASSOCIATES *** retrieval complete.

Elapsed Time = 00:00:02

Keith and Associates, Inc.

Pompano Beach, Florida

G PINE UPLA	ND	PARTY CHIEF	D. FERELS	DATE:	August 1	3, 2007		Datum:	NA VD88	FIELD BOOK 273	PAGES	33.000	
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	3.649												
вМ	3.478	3.477	15.080			11.603	11.603						PK NAIL (ELEVATION ESTABLISHED
	3.305	0.001											BY GPS (4) 4-HOUR OBSERVATIONS
													FROM 3 DIFFERENT NGS MONUMENTS
STADIA		34.400											
	5.285			5.690									
TP1	4.970	4.972	14.539	5.513	5.513	9.567		69.70	0.000169421	0.000169421	9.567	2.916	
	4.660	-0.002		5.337	0.000			-0.90					
	14.915			16.540				-0.90					
STADIA		62.500			35.300								
	6.163			5.300									
TP2	5.333	5.336	14.885	4.990	4.990	9.549		124.50	0.000302625	0.000472047	9.548	2.910	
	4.513	-0.003		4.680	0.000			0.50					
	16.009			14.970				-0.40					
STADIA		165.000			62.000								
				1 0 0 0									
	4.410			4.883									
ТРЗ	4.098	4.096	15.021	3.958	3.960	10.925		349.30	0.000849052	0.001321099	10.923	3.329	SET 3-1/2" SFWMD BRASS DISK
	3.780	0.002		3.040	-0.002			-19.30					IN CONCRETE PAD FOR WEATHER
	12.288			11.881				-19.70					TOWER BIG PINE UPLAND
STADIA		63.000			184.300								

5/9/2016

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G PINE UPLAN	1D	PARTY CHIEF	D. FERELS	DATE:	August 1	3, 2007	Datum:		NA VD88	FIELD BOOK 273	PAGES	33.000	
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	1.720			1.362									
TP4	1.200	1.200	15.188	1.032	1.033	13.988		128.70	0.000312834	0.001633933	13.986	4.263	FOUND MARK ON TOP OF METAL
	0.680	0.000		0.705	-0.001			-2.70					PIPE, NORTH SIDE OF TOWER.
	3.600			3.099				-22.40					
STADIA		104.000			65.700								
	5.710			6.470									
TP5	5.175	5.172	14.656	5.700	5.703	9.484		257.00	0.000624696	0.002258629	9.482	2.890	
	4.630	0.003		4.940	-0.003			-49.00					
	15.515	100.000		17.110	152,000			-71.40					
STADIA		108.000			153.000								
	5 800			5 680									
TP6	5.560	5 560	15 101	5 1 1 5	5 1 1 5	9.5/1		113.00	0.000274672	0.002705810	0 538	2 907	
110	5 320	0.000	15.101	4 550	0.000	3.341		-113.00	0.000214012	0.002733013	3.550	2.301	
	16 680	0.000		15 345	0.000			-76 40					
STADIA	10.000	48.000		10.010	113.000			10.10					
				3.675									
BM				3.495	3.495	11.606	11.603	84.00	0.000204181	0.003000000	11.603	3.537	BM CHECK ON PK NAIL AS DESCRIBED ABOVE
				3.315	0.000	ľ		12.00					
				10.485				-64.40					
					36.000								
							LOR=	1234.20	CHECK VALUES T	O VERIFY SAME			
									OR TO SEE THEY	ARE WITHIN			
	TOTAL + =	584.900		TOTAL - =	649.300			1234.20	THIRD ORDER SPE	ECS(MAX DIFF. 3	33 FT.)		
					-64.40								
					RAW CL	OSURE=	0.003						
					ERROR PE	R FOOT=	0.000						
		MTS A	LLOWABLE	ERROR	FOR THIRD	ORDER=	0.015						
					ACTUAL	ERROR=	0.003	RED I	F BADGREEN IF	GOOD			

copy and insert to expand worksheet

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G PINE UPLA	ND	PARTY CHIEF	D. FERELS	DATE:	August 1	3, 2007		Datum:	NGVD29	FIELD BOOK 273	PAGES	33.000	
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	3.649												
BM	3.478	3.477	16.530			13.053	13.053						PK NAIL (ELEVATION ESTABLISHED
	3.305	0.001											BY GPS (4) 4-HOUR OBSERVATIONS
													FROM 3 DIFFERENT NGS MONUMENTS
STADIA		34.400											NGVD 1929 VALUE DERIVED FROM VERTCON
	5.285			5.690									
TP1	4.970	4.972	15.989	5.513	5.513	11.017		69.70	0.000000000	0.000000000	11.017	3.358	
	4.660	-0.002		5.337	0.000			-0.90					
	14.915			16.540				-0.90					
STADIA		62.500			35.300								
	6.163			5.300									
TP2	5.333	5.336	16.335	4.990	4.990	10.999		124.50	0.000000000	0.000000000	10.999	3.352	
	4.513	-0.003		4.680	0.000			0.50					
	16.009			14.970				-0.40					
STADIA		165.000			62.000								
	4.410			4.883									
TP3	4.098	4.096	16.471	3.958	3.960	12.375		349.30	0.000000000	0.000000000	12.375	3.772	SET 3-1/2" SFWMD BRASS DISK
	3.780	0.002		3.040	-0.002			-19.30					IN CONCRETE PAD FOR WEATHER
	12.288			11.881				-19.70					TOWER BIG PINE UPLAND
STADIA		63.000			184.300								

5/9/2016

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G PINE UPLAND		PARTY CHIEF	D. FERELS	DATE:	E: August 13, 2007		Datum:		NGVD29	FIELD BOOK 273	PAGES	33.000	
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	1.720			1.362									
TP4	1.200	1.200	16.638	1.032	1.033	15.438		128.70	0.000000000	0.000000000	15.438	4.705	FOUND MARK ON TOP OF METAL
	0.680	0.000		0.705	-0.001			-2.70					PIPE, NORTH SIDE OF TOWER.
	3.600			3.099				-22.40					
STADIA		104.000			65.700								
	5.710			6.470									
TP5	5.175	5.172	16.106	5.700	5.703	10.934		257.00	0.000000000	0.000000000	10.934	3.333	
	4.630	0.003		4.940	-0.003			-49.00					
	15.515			17.110				-71.40					
STADIA		108.000			153.000								
	5.800			5.680									
TP6	5.560	5.560	16.551	5.115	5.115	10.991		113.00	0.000000000	0.000000000	10.991	3.350	
	5.320	0.000		4.550	0.000			-113.00					
	16.680			15.345				-76.40					
STADIA		48.000			113.000								
				3.675									
BM				3.495	3.495	13.056	13.053	84.00	0.000000000	0.000000000	13.056	3.979	BM CHECK ON PK NAIL AS DESCRIBED ABOVE
				3.315	0.000			12.00					
				10.485				-64.40					
					36.000								
							LOR=	1234.20	CHECK VALUES T	O VERIFY SAME			
									OR TO SEE THEY	ARE WITHIN			
	TOTAL + =	584.900		TOTAL - =	649.300			1234.20	THIRD ORDER SPI	ECS(MAX DIFF. 3	33 FT.)		
					-64.40								
					RAW CLOSURE=		0.003						
					ERROR PER FOOT=								
		MTS A	LLOWABLE	ERROR	FOR THIRD ORDER=		0.015						
					ACTUAL ERROR=		0.003	RED I	F BADGREEN IF	GOOD			

5/9/2016

copy and insert to expand worksheet