Specific Purpose Survey of the Stilling Wells
Site OK 100
Okeechobee, Florida

South Florida Water Management Districts
Purchase Order number PC P602223

Keith and Schnars project number 16434.00, Task 22158

Report Date: August 3, 2006

Submittal: Second

Revised: October 2, 2006 to add date (2006) stamping on Benchmark "OK 100 2006"

Prepared for:

South Florida Water Management District

Prepared by:



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SURVEYORS REPORT

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PURPOSE

To establish vertical data (NAVD 1988 and NGVD 1929)) on the Site Wells and set a benchmark at site OK 100.

LOCATION OF PROJECT

The project is located in Okeechobee, 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. Surveyors Report.
- 6. South Florida Water Management District Benchmark Data Sheet.

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 29 elevations were derived using data provided by the South Florida Water Management District in a file named NGVD29.txt" when applicable, otherwise NGS superseded values were used.

LEVELING METHODS

The elevations were established using a Leica NA2 conventional level with three-wire observation method. NGS benchmarks E-523 and F-523 were used to establish elevations on the site benchmark (OK 100). A level loop was run from benchmark F-523, through benchmark E-523, through site benchmark OK 100 2006 and back to benchmark E-523. The level run exceeds the closure accuracy of 0.03' times the square root in mileage of the level run.

VERTICAL CONTROL

BM F-523		Elevation:	NAVD 198	38.48	NGVD 1929	39.770
PID AJ 6169	Lat	itude	27°0854 (Scaled			
State/County FL/Okeechobee	Lor	ngitude	-80°5214 (Scaled			
USGS QUAD Okeechobee (1972)						
Vert Order First						



The station is located approximately 7.4 kilometers (4.6 miles) southwest of Okeechobee, Florida on the northeast corner of a bridge on State Road 78 over the Kissimmee River. Located on the Okeechobee quad Township 38 South, Range 35 East. The mark is on the highway right of way. To reach the station from the intersection of U.S. Highway 441 and State Road 78 in Okeechobee, Florida go southwest 7.42 kilometers (4.6 miles) on State Road 78 to the mark on right, on the northeast corner of bridge over Kissimmee River. The station is 4.6 meters (15.1 feet) northwest of the center of State Road 78 (two lane road), 2.6 meters (8.5 feet) southwest of the north end of the concrete guard rail and approximately 0.25 meters (0.8 feet) above the roadway of State Road 78.

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VERTICAL CONTROL (CONT.)

BM E-523		Elevation:	NAVD 198	30.55	NGVD 1929	31.831'
PID AJ 6168	Lati	tude	27°09'10.1	3822"		
State/County FL/Okeechobee	Lon	gitude	80°51'59.60	0647"		
USGS QUAD Okeechobee (1972)						
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To reach the station from the intersection of U.S. Highway 441 and State Road 78 in Okeechobee, Florida go west on State Road 78 for 0.08 kilometers (0.05 miles) to a road leading south to Jaycee

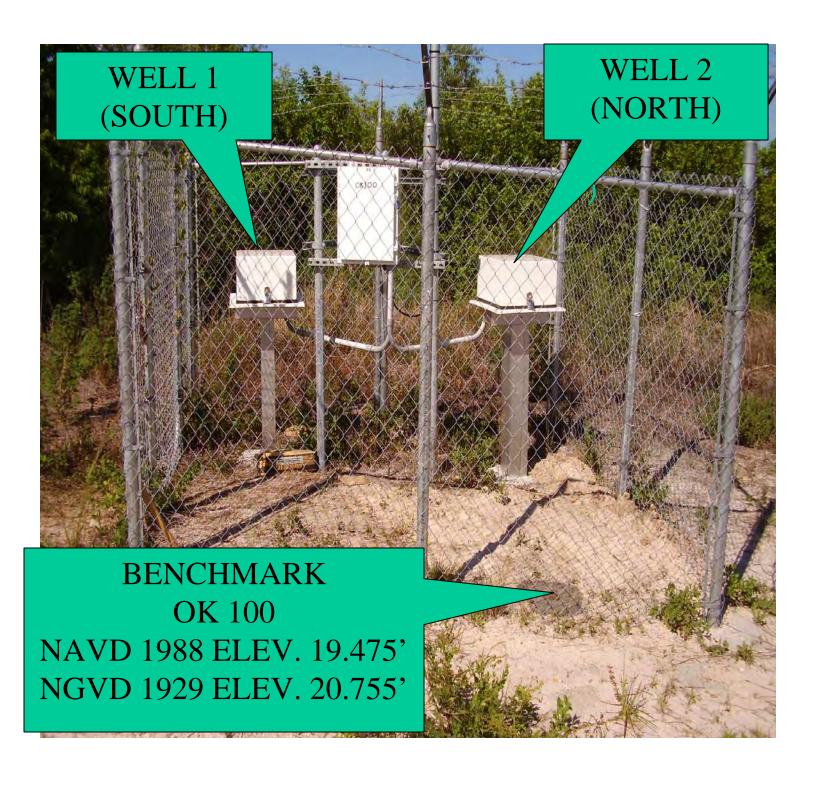
Park, thence south 0.16 kilometers (0.1 miles) to the top of Herbert Hoover Levee and a gate on right, thence southwest 5.80 kilometers (3.6 miles) to a gate on the levee, thence continue southwest on levee to the mark on left. Also to reach the mark from the intersection U.S. Highway 441 and State Road 78 go southwest on State Road 78, 6.77 kilometers (4.2 miles) to the top of the levee crossing State Road 78, thence on levee 0.08 kilometers (0.05 miles) to the mark on right on top of levee. The station is 78.1 meters (256.3 feet) east of the intersection of

the center of State Road 78 and the center of the levee, 35.9 meters (117.8 feet) north of the west gate post in a board fence, 5.2 meters (17.0 feet) northeast of the southeast corner post of a wood pavilion, 0.7 meters (2.3 feet) northwest of carsonite witness post and 0.25 meters (0.8 feet) south of a magnet buried 0.1 meters (0.3 feet).

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PROJECT RESULTS

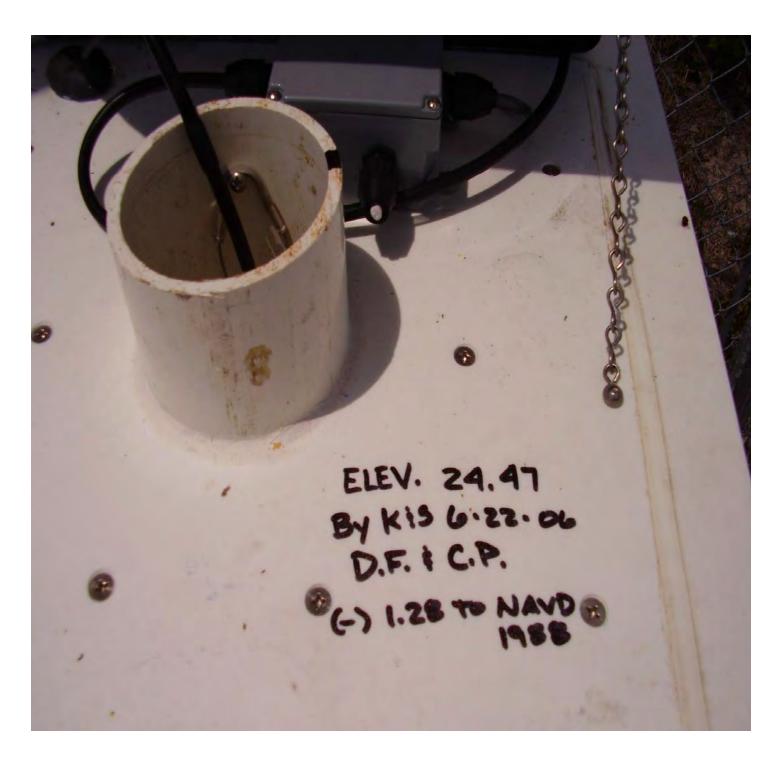
Well 1 (Southerly)	Well 2 (Northerly)
Stilling Well: Reference mark: Set Mark on PVC pipe	Stilling Well: Reference mark: Set Mark on PVC pipe
New Reference Mark El. <u>24.37'</u> (NGVD 29) (<u>Wrote -1.28 NAVD to 1988</u>). Initials:	New Reference Mark El. 24.47' (NGVD 29) (Wrote -1.28 NAVD to 1988). Initials:
K&S D.F., C.P.	<u>K&S</u> <u>D.F., C.P.</u>
Date: <u>06/22/06</u> written at the mark:	Date: 06/22/06 written at the mark:
None Reference Mark location: None	None Reference Mark location: None



06/22/06 Keith and Schnars, P.A. Stilling WellS



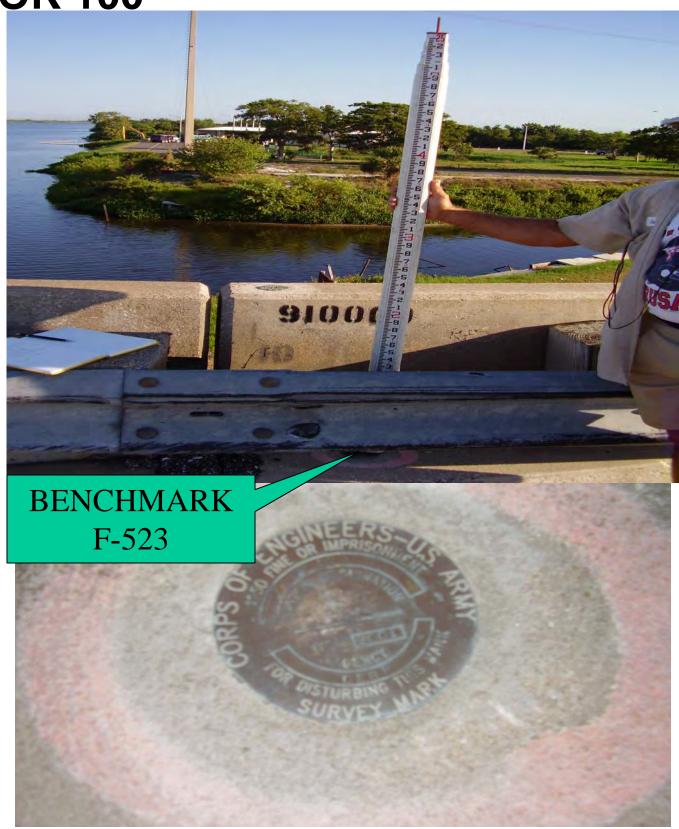
06/22/06 Keith and Schnars, P.A. Benchmark OK 100



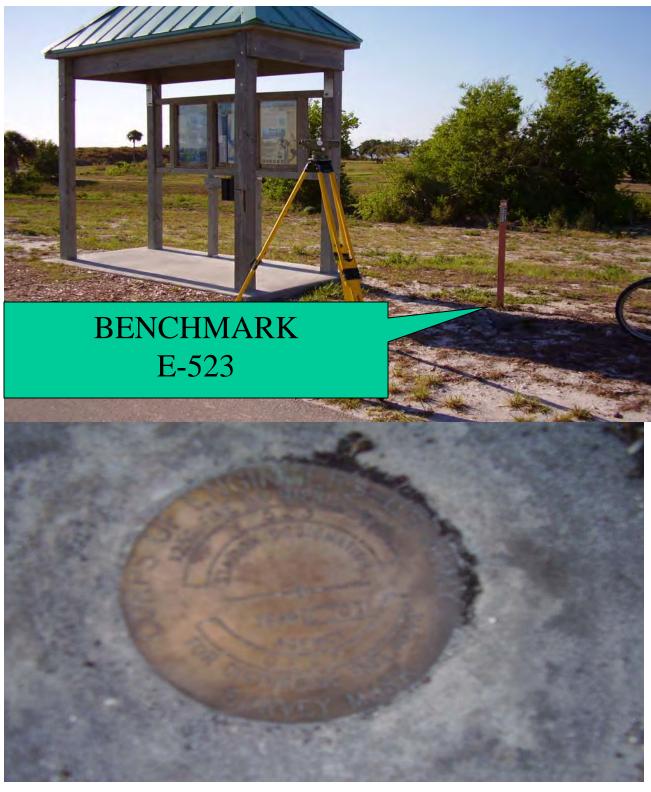
06/22/06
Keith and Schnars, P.A.
North Well (#2) Elevation Information



06/22/06
Keith and Schnars, P.A.
South Stilling (#1) Well Information



06/22/06 Keith and Schnars, P.A. NGS Benchmark F-523



06/22/06 Keith and Schnars, P.A. NGS Benchmark E-523

Comments:

Party Chief: D. Ferels Field Book: 1216 Pages 24-29

Bench Mark: "OK 100" El. 19.475, Vertical Datum: NAVD1988

El. 20.755 ,Vertical Datum: NGVD1929

Offset: 1.28 SFWMD VALUE (subtract this value to convert to NAVD 1988)
Offset: 1.28 NGS VALUE (subtract this value to convert to NAVD 1988)

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

SURVEYORS 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 July 22, 2006

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

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			4.407	20,700		Not Matthewark kentin kenting tid di kepan kenagkan garangganggan paggang			-
			and the second s	Balance Commence of the commen					+!
			emonotimo etentrologico (energia y energia de la constanta de electro		and a confinence of the confinence of the first of the confinence	at 100 to 100 to 100 to contribute and consequence and page 100 to 100 t			
					PPP-000 ACT STORE A SERVICE STORE ST		Service in the service of the servic		1.
				MET finis es a de la completament per proprieta (s.) probleta com advances	PPP Child (Child Child and a child in a child and a ch				4
			and the second s	in the state of the contract of the state of					+-
				PART Section Control of the Control					
							ranco, e su resense una consecución de la consecución de la consecución de la consecución de la consecución de		-
	Property and the second							╀╂╃╃╃╃╃╃╃╃╃╃╃╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	+
of the section is a section for the communication of the parameter of the section						-			

```
OK 100 Well.gen
Identification_Information:
         Ci tati on:
                   Ci tati on_Informati on:
                             Originator: Michael M. Mossey, P.S.M. (ed.)
Publication_Date: 20060804
Publication_Time: Unknown
Title: S.F.W.M.D. WELL OK 100
                             Edition: 1
                             Seri es_I nformati on:
                             Publication_Information:
                                       Publication_Place: Not Published
                                       Publisher: None
                             Online_Linkage: mmossey@keithandschnars.com
Larger_Work_Citation:
                                       Citation_Information:
                                                Series_Information:
                                                Publication_Information:
         Description:
                   Abstract:
                             South Florida Water Management District
                             Well site OK 100.
                   Purpose:
                             To establish reference elevations in NAVD 1988 and
                             NGVD 1929 datum on Wells. Set a site benchmark.
         Time_Period_of_Content:
                   Time_Peri od_Information:
                             Si ngl e_Date/Ti me:
                                       Calendar_Date: 20060722
                             Range_of_Dates/Times:
                             Mul ti pl e_Dates/Ti mes:
                   Currentness_Reference: Publication Date
         Status:
                   Progress: Complete
                   Maintenance_and_Update_Frequency: Unknown
         Spati al _Domai n:
                   Boundi ng_Coordi nates:
                             West_Bounding_Coordinate: 80°52'28"
East_Bounding_Coordinate: 80°52'28"
                             North_Boundi ng_Coordi nate: 27°09' 19"
South_Boundi ng_Coordi nate: 27°09' 19"
         Keywords:
                   Theme:
                             Theme_Keyword_Thesaurus: Specific Purpose Survey
                             Theme_Keyword: Wells
                   PI ace:
                             Place_Keyword_Thesaurus: Okeechobee, Florida
                             Place_Keyword: Well site OK 100
Place_Keyword: Township 38S - Range 38E
                   Stratum:
                   Temporal:
         Access_Constraints: Key needed to gain access to wells.
         Use_Constraints: Call South Florida Water Management District for key.
         Point_of_Contact:
                   Contact_Information:
                             Contact_Person_Pri mary:
                                       Contact_Person: Howard J. Ehmke
                                       Contact_Organization: South Florida Water Management
```

District

Contact_Organization_Primary: Contact_Position: P. S. M.

Contact_Address:

Address_Type: mailing and physical address

Address:

Page 1

```
OK 100 Well.gen
                                                           Accel er 8
                                                           Suite 150
                                                           2301 Centerpark West Drive
                                               City: West Palm Beach
                                               State_or_Province: Florida
                                               Postal_Code: 33409
                                               Country: USA
                                   Contact_Voice_Telephone: (561) 242-5520 ext 4064
                                   Contact_Electronic_Mail_Address: hehmke@sfwmd.gov
                                   Hours_of_Service: 8:00 am to 5:00 pm EST
            Securi ty_Information:
            Cross_Reference:
                       Ci tati on_Informati on:
                                   Seri es_I nformati on:
                                   Publication_Information:
Data_Quality_Information:
            Attri bute_Accuracy:
                       Attri bute_Accuracy_Report:
                                   The horizontal location of the benchmark was taken from the data sheet. The vertical data
                                   was collected using a Leica NA2 Level.
Coordinates are based on the Florida State Plane
Coordinate System, East Zone, NAD 1983. Elevations
are based on NGVD 1929 with an offset supplied to
                                   convert to NAVD 1988.
            Logi cal _Consi stency_Report:
                       Vertical data on the wells was established using site
                       Benchmark OK 100.
            Completeness_Report:
                       24.37' (NGVD 1929) Well 1 (Southerly).
24.47' (NGVD1929) Well 2 (Northerly).
Offset written at wells (-) 1.28' to NAVD 1988.
OK 100 was the site benchmark used for this
                       NAVD 1988 elevation 19.475'
                       NGVD 1929 elevation 20.755'
            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:
                                               Horizontal_Positional_Accuracy_Value: Lat. 27°09'19"
Lona. -80°52'28"
                                               Horizontal _Positional _Accuracy_Expl anation: Value
derived by hand-held GPS
                       Verti cal _Posi ti onal _Accuracy:
                                   Vertical_Positional_Accuracy_Report:
The onsite benchmark was used to establish the
                                   elevations on the stilling wells in this report. Quantitative_Vertical_Positional_Accuracy_Assessment:
                                               Vertical_Positional_Accuracy_Value: 0.008ft. NAVD88
Vertical_Positional_Accuracy_Explanation: Better
than 0.03ft. x sq. root of miles of the level loop.
                                   Quanti tati ve_Verti cal _Posi ti onal _Accuracy_Assessment:
Vertical_Positional_Accuracy_Value: 0.008ft. NGVD 29

Vertical_Positional_Accuracy_Explanation: Better
than 0.03ft. x the sq. root of miles of the level loop.
            Li neage:
                       Source_Information:
                                   Source_Ci tati on:
                                               Ci tati on_Informati on:
                                                           Seri es_I nformati on:
                                                         Page 2
```

```
Publication_Information:
                                            Larger_Work_Ci tati on:
                                                     Citation_Information:
                                                              Seri es_I nformati on:
                                                              Publication_Information:
                          Source_Ti me_Peri od_of_Content:
                                   Time_Period_Information:
                                            Si ngl e_Date/Ti me:
                                            Range_of_Dates/Times:
                                            Mul tiple_Dates/Times:
                 Process_Step:
                          Process_Description:
                                   Differential leveling was performed using a Leica
NA<sub>2</sub>
                                   conventional level. A poured concrete monument with
а
                                   brass SFWMD disk (BM Ok 100) was set inside a 6-foot
                                   chain link fence near the wells and elevated. A
Level Loop
                                   was run from NGS benchmark F-523, through NGS
                                   benchmark E-523, through site benchmark, OK 100, and
                                   back to E-523. The elevations were written on the
well
                                   housings in NGVD 1929 with an offset provided to
convert
                                   the elevations to NAVD 1988.
                          Process_Date: 20060722
                          Process_Contact:
                                   Contact Information:
                                            Contact_Person_Pri mary:
Contact_Organi zati on_Pri mary:
                                            Contact_Address:
Spati al _Data_Organi zati on_I nformati on:
         Spatial_Reference_Information:
                 Hori zontal _Coordi nate_System_Defi ni ti on:
                          Geographi c:
                                   Latitude_Resolution: 25°22'02"
                                   Longi tude_Resolution: 80°22'35"
                                   Geographic_Coordinate_Units: Degrees, minutes, and
decimal seconds
                          Geodetic_Model:
                 Vertical_Coordinate_System_Definition:
                          Altitude_System_Definition:
                          Depth_System_Definition:
Entity_and_Attribute_Information:
         Detailed_Description:
                  Enti ty_Type:
                 Attri bute:
                          Attribute_Domain_Values:
                          Attribute_Value_Accuracy_Information:
        Overview_Description:
Di stri buti on_I nformati on:
         Di stri butor:
                 Contact_Information:
                          Contact_Person_Primary:
                          Contact_Organi zati on_Pri mary:
                                   Contact_Organization: Keith and Schnars
Contact_Person: Michael Mossey
                          Contact_Position: Project Surveyor
                          Contact_Address:
                                   Address_Type: mailing and physical address
                                   Address: 6500 North Andrews Avenue
City: Ft. Lauderdale
                                           Page 3
```

OK 100 Well.gen

```
OK 100 Well.gen
                                            State_or_Province: Florida
                                            Postal_Code: 33309-2132
                                Country: Broward
Contact_Voi ce_Tel ephone: 954 776-1616
Contact_Facsi mile_Tel ephone: 954 351-7643
Contact_El ectronic_Mail_Address: mmossey@kei thandschnars.com
                                 Hours_of_Service: 8:00-\overline{5}:00 est.
           Distribution_Liability: None
           Standard_Order_Process:
                     Digital_Form:
                                 Digital_Transfer_Information:
                                 Di gi tal _Transfer_Opti on:
                                            Online_Option:
                                                       Computer_Contact_Information:
Network_Address:
                                                                  Di al up_l nstructi ons:
                                            OffLi ne_Opti on:
                                                       Recording_Capacity:
           Available_Time_Period:
                      Time_Period_Information:
                                 Si ngl e_Date/Ti me:
                                Range_of_Dates/Times:
Multiple_Dates/Times:
Metadata_Reference_Information:
           Metadata_Date: 20060804
           Metadata_Review_Date: 20050721
           Metadata_Contact:
                      Contact_Information:
                                 Contact_Person_Pri mary:
                                            Contact_Person: Michael M. Mossey, P. S. M. Contact_Organization: Keith and Schnars
                                 Contact_Organi zati on_Pri mary:
                                 Contact_Pošition: Project Surveyor
                                 Contact_Address:
                                           Address_Type: mailing and physical address
Address: 6500 North Andrews Ave
City: Ft. Lauderdale
                                            State_or_Province: FL
                                            Postal _Code: 33309-2132
                                Country: USA
Contact_Voi ce_Tel ephone: (954)776-1616
Contact_Facsi mi I e_Tel ephone: (954)351-7643
                                 Contact_Electronic_Mail_Address: mmossey@keithandschnars.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
           Metadata_Security_Information:
```



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY	PROJECT		DESIGNATION						
Okeechobee	STRIVE			OK 100					
SECTION	TOWNSHIP 38	SOUTH	ł	RANGE	<u>35</u> EAST				
GEOGRAPHIC INDEX OF QUAD									
Established by Recov	ered by	NAME OF QUADRANGLE							
Set SFWMD brass disk in concrete	OK 100.	Okeechobee (1972)							
SURVEYOR D. Ferels (Keith and S DATE 06/22/2006	chnars)	FIELD	D BOOK, 1216	, pgs. 24-	28				
HORIZONTAL DATUM: 1983, Z	ONE East								
VERTICAL DATUM: NGVD 1929	and NAVD 1	1988							
CONTROL ACCURACY: HORIZO	NTAL HAND-HEL	D GPS	5, 3 rd Order V	ERTICAL					
STATE PLANE COORDINATES	X = 696949		Y = 1025637		EL. (NGVD 1929)				
					20.755'				
					EL. (NAVD 1988)				
					19.475'				
LATITUDE <u>27° 09'17"</u>			LON	GITUDE -	· <u>80º 52'30"</u>				
	DESC	RIPTIC	ON						
South Florida Water Management Dis	strict brass disk se	t in con	crete stamped	"OK 100 2	2006".				
The benchmark is located inside a 6-f and 1' West of the East side of the ch		e. 6' E	ast of the North	Well, 9'	N.E. of the South Well				
From the intersection of U.S. Highway		oad 78	in Okeechobee	head So	uthwest on State Road				
78 for 4.2 miles to River Road turn rig	ht on River Road	and go	0.5 miles to the	e site on th	ne left.				
	R MG/ DESIGN O								
Notable Land marks:				(P) 00	NOT DISTURBLE				
SKETCH				1/2	MAS				

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

Line/Part: L26217/1 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

Mark ID SSN PID Designation Geopotential Elevation Codes

1181 0010 AJ6168 E 523 9.5081 9.7021

1182 0011 AJ6169 F 523 11.8796 12.1220

The NGS Data Sheet

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

```
AJ6169 DESIGNATION - F 523
AJ6169 PID - AJ616
         PID - AJ6169
STATE/COUNTY- FL/OKEECHOBEE
 AJ6169
 AJ6169
         USGS QUAD - OKEECHOBEE (1972)
 AJ6169
 AJ6169
 AJ6169
                                      *CURRENT SURVEY CONTROL
 AJ6169
 AJ6169* NAD 83(1986) - 27 08 54.
                                                     080 52 14.
                                             (N)
                                                                        (W)
                                                                                 SCALED
AJ6169* NAVD 88
AJ6169
                                    11.730
                                                              38.48
                                             (meters)
                                                                        (feet)
                                                                                 ADJUSTED
          GEOID HEIGHT-
 AJ6169
                                     -26.38
                                             (meters)
                                                                                 GEOID03
 AJ6169
          DYNAMIC HT -
                                      11.712 (meters)
                                                               38.43
                                                                       (feet)
                                                                                COMP
          MODELED GRAV-
                                979,084.1
                                                                                 NAVD 88
 AJ6169
                                              (mgal)
 AJ6169
 AJT6169
          VERT ORDER - FIRST
                                      CLASS II
 AJ6169
 AJ6169. The horizontal coordinates were scaled from a topographic map and have
 AJ6169.an estimated accuracy of +/- 6 seconds.
 AJ6169. The orthometric height was determined by differential leveling
 AJ6169.and adjusted by the National Geodetic Survey in January 2002..
 AJ6169
 AJ6169. The geoid height was determined by GEOID03.
 AJ6169
AJ6169. The dynamic height is computed by dividing the NAVD 88 AJ6169. geopotential number by the normal gravity value computed on the AJ6169. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AJ6169.degrees latitude (g = 980.6199 \text{ gals.}).
 AJ6169
 AJ6169. The modeled gravity was interpolated from observed gravity values.
 AJ6169
                                                           Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AJT6169;
                                                  East
                                 North
 AJ6169; SPC FL E
                             311,850.
                                              212,830.
 AJ6169
 AJ6169
                                       SUPERSEDED SURVEY CONTROL
 AJ6169
 AJ6169 No superseded survey control is available for this station.
 AJ6169
 AJ6169_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL128028(NAD 83) AJ6169_MARKER: DD = SURVEY DISK
 AJ6169 SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
 AJ6169_SP_SET: BRIDGE ABUTMENT
AJ6169_STAMPING: F 523 2001 CERP
 AJ6169 MARK LOGO: USE
 AJ6169_MAGNETIC: N = NO MAGNETIC MATERIAL
 AJ6169_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL AJ6169_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AJ6169+SATELLITE: SATELLITE OBSERVATIONS - May 13, 2001
 AJ6169
 AJ6169
          HISTORY
                        - Date
                                      Condition
                                                          Report By
                        - 20010513 MONUMENTED
 AJ6169 HISTORY
                                                          EMCINC
 AJ6169
 AJ6169
                                       STATION DESCRIPTION
 AJT6169
 AJ6169'DESCRIBED BY EMC INCORPORATED 2001 (CHP)
AJ6169'THE STATION IS LOCATED APPROXIMATELY 7.4 KILOMETERS (4.6 MILES) AJ6169'SOUTHWEST OF OKEECHOBEE, FLORIDA ON THE NORTHEAST CORNER OF A AJ6169'BRIDGE ON STATE ROAD 78 OVER THE KISSIMMEE RIVER.
 AJ6169'LOCATED ON THE OKEECHOBEE QUAD TOWNSHIP 38 SOUTH, RANGE 35 EAST.
 AJ6169'
 AJ6169'OWNERSHIP
                       THE MARK IS ON THE HIGHWAY RIGHT OF WAY.
 AJ6169'
 AJ6169'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 441
 AJ6169'AND STATE ROAD 78 IN OKEECHOBEE, FLORIDA GO SOUTHWEST 7.42
 AJ6169'KILOMETERS (4.6 MILES) ON STATE ROAD 78 TO THE MARK ON RIGHT, ON
 AJ6169'THE NORTHEAST CORNER OF BRIDGE OVER KISSIMMEE RIVER.
```

```
AJ6169'
AJ6169'THE STATION IS 4.6 METERS (15.1 FEET) NORTHWEST OF THE CENTER OF
AJ6169'STATE ROAD 78 (TWO LANE ROAD), 2.6 METERS (8.5 FEET) SOUTHWEST OF
AJ6169'THE NORTH END OF THE CONCRETE GUARD RAIL AND APPROXIMATELY 0.25
AJ6169'METERS (0.8 FEET) ABOVE THE ROADWAY OF STATE ROAD 78.
AJ6169'
AJ6169'
AJ6169'
*** retrieval complete.
Elapsed Time = 00:00:01
```

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

Line/Part: L26217/1 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

Mark ID SSN PID Designation Geopotential Elevation Codes

1181 0010 AJ6168 E 523 9.5081 9.7021

1182 0011 AJ6169 F 523 11.8796 12.1220

The NGS Data Sheet

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

```
AJ6168
 AJ6168 DESIGNATION - E 523
 AJ6168
         PID
                          AJ6168
         STATE/COUNTY- FL/OKEECHOBEE
 AJ6168
 AJ6168
         USGS QUAD
                     - OKEECHOBEE (1972)
 AJ6168
 AJ6168
                                   *CURRENT SURVEY CONTROL
 AJ6168
                          27 09 10.13822(N)
 AJ6168* NAD 83(1999)-
                                                 080 51 59.60647(W)
                                                                          ADJUSTED
 AJ6168* NAVD 88
                                                         30.55
                                  9.311
                                         (meters)
                                                                  (feet)
                                                                          ADJUSTED
 AJT6168
                             901,478.515 (meters)
 AJ6168
         Χ
                      _
                                                                          COMP
 AJ6168
         Y
                          -5,607,159.404 (meters)
                                                                          COMP
                           2,893,284.702 (meters)
                                                                          COMP
 AJ6168
                                                                          DEFLEC99
 AJ6168
         LAPLACE CORR-
                                   -2.47
                                           (seconds)
         ELLIP HEIGHT-
                                  -17.09
                                                              (12/12/02) GPS OBS
 AJ6168
                                           (meters)
         GEOID HEIGHT-
 AJ6168
                                  -26.40
                                           (meters)
                                                                           GEOID03
         DYNAMIC HT -
 AJ6168
                                   9.296 (meters)
                                                          30.50 (feet)
                                                                          COMP
         MODELED GRAV-
                             979,084.3
 AJ6168
                                          (mgal)
                                                                          NAVD 88
 AJ6168
 AJ6168
         HORZ ORDER
                         FIRST
                      _
 AJ6168
         VERT ORDER
                          FIRST
                                     CLASS II
 AJ6168
         ELLP ORDER
                         FOURTH
                                     CLASS I
 AJ6168
 AJ6168. The horizontal coordinates were established by GPS observations
 AJ6168.and adjusted by the National Geodetic Survey in December 2002..
 AJ6168. The orthometric height was determined by differential leveling
 AJ6168.and adjusted by the National Geodetic Survey in January 2002..
 AJ6168
 AJ6168. The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ6168
 AJ6168. The Laplace correction was computed from DEFLEC99 derived deflections.
 AJ6168
 AJ6168. The ellipsoidal height was determined by GPS observations
 AJ6168.and is referenced to NAD 83.
 AJ6168
 AJ6168. The geoid height was determined by GEOID03.
 AJ6168
AJ6168. The dynamic height is computed by dividing the NAVD 88 AJ6168. geopotential number by the normal gravity value computed on the AJ6168. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AJ6168.degrees latitude (g = 980.6199 \text{ gals.}).
 AJ6168
 AJ6168. The modeled gravity was interpolated from observed gravity values.
 AJ6168
 AJ6168;
                              North
                                              East
                                                        Units Scale Factor Converg.
                                                        MT 0.99994334
 AJ6168; SPC FL E
                                          213,226.114
                           312,342.838
                                                                           +0 03 39.2
 AJ6168; SPC FL E
                       - 1,024,744.79
                                          699,559.34
                                                         sFT
                                                              0.99994334
                                                                             +0 03 39.2
                                          513,221.601
 AJ6168;UTM 17
                       - 3,003,368.250
                                                             0.99960216
                                                                            +0 03 39.2
                                                         МТ
 AJ6168
 AJ6168!
                         Elev Factor x Scale Factor =
                                                              Combined Factor
                           1.00000268
                                             0.99994334
 AJ6168!SPC FL E
                                        х
                                                         =
                                                              0.99994602
 AJ6168!UTM 17
                           1.00000268
                                             0.99960216
                                                              0.99960484
                                        х
 AJT6168
 AJ6168
                                    SUPERSEDED SURVEY CONTROL
 AJ6168
         NAVD 88 (12/12/02)
                                                                  (f) LEVELING
 AJ6168
                                 9.31
                                          (m)
                                                         30.5
 AJ6168
\overline{\text{AJ}}6168.Superseded values are not recommended for survey control. \overline{\text{AJ}}6168.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AJ6168. See file dsdata.txt to determine how the superseded data were derived.
 AJ6168
 AJ6168_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL1322203368(NAD 83)
 AJ6168_MARKER: DD = SURVEY DISK
 AJ6168_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 AJ6168 STAMPING: E 523 2001 CERP
```

```
AJ6168 MARK LOGO: USE
AJ6168 PROJECTION: RECESSED 10 CENTIMETERS
AJ6168_MAGNETIC: O = OTHER; SEE DESCRIPTION
AJ6168_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AJ6168+STABILITY: SURFACE MOTION
AJ6168 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ6168+SATELLITE: SATELLITE OBSERVATIONS - October 03, 2002
AJ6168
        HISTORY
AJT6168
                      - Date
                                   Condition
                                                      Report By
                      - 20010509 MONUMENTED
AJ6168 HISTORY
                                                      EMCINC
                      - 20021003 GOOD
AJ6168
        HISTORY
                                                      MAPTEC
       HISTORY
                      - 20050718 GOOD
                                                      MACTEC
AJ6168
AJ6168
                                    STATION DESCRIPTION
AJT6168
AJ6168
AJ6168'DESCRIBED BY EMC INCORPORATED 2001 (MKC)
AJ6168'THE STATION IS LOCATED APPROXIMATELY 6.4 KILOMETERS (4.0 MILES)
AJ6168'SOUTHWEST OF OKEECHOBEE, FLORIDA ON THE HERBERT HOOVER LEVEE AJ6168'APPROXIMATELY 4.5 MILES (14.8 FEET) SOUTH OF THE CENTER OF THE
AJ6168'LEVEE. LOCATED ON THE OKEECHOBEE QUAD TOWNSHIP 38 SOUTH, RANGE 35
AJ6168'EAST.
AJ6168'
AJ6168'OWNERSHIP
                     SOUTH FLORIDA WATER MANAGEMENT DISTRICT
AJ6168
AJ6168'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 441
AJ6168'AND STATE ROAD 78 IN OKEECHOBEE, FLORIDA GO WEST ON STATE ROAD
AJ6168'78 FOR 0.08 KILOMETERS (0.05 MILES) TO A ROAD LEADING SOUTH TO JAYCEE
AJ6168'PARK, THENCE SOUTH 0.16 KILOMETERS (0.1 MILES) TO THE TOP OF
AJ6168 HERBERT HOOVER LEVEE AND A GATE ON RIGHT, THENCE SOUTHWEST 5.80
AJ6168'KILOMETERS (3.6 MILES) TO A GATE ON THE LEVEE, THENCE CONTINUE
AJ6168'SOUTHWEST ON LEVEE TO THE MARK ON LEFT. ALSO TO REACH THE MARK AJ6168'FROM THE INTERSECTION U.S. HIGHWAY 441 AND STATE ROAD 78 GO
AJ6168'SOUTHWEST ON STATE ROAD 78, 6.77 KILOMETERS (4.2 MILES) TO THE TOP
AJ6168'OF THE LEVEE CROSSING STATE ROAD 78, THENCE ON LEVEE 0.08 AJ6168'KILOMETERS (0.05 MILES) TO THE MARK ON RIGHT ON TOP OF LEVEE.
AJT6168 '
AJ6168'THE STATION IS 78.1 METERS (256.3 FEET) EAST OF THE INTERSECTION OF
AJ6168 THE CENTER OF STATE ROAD 78 AND THE CENTER OF THE LEVEE, 35.9
AJ6168'METERS (117.8 FEET) NORTH OF THE WEST GATE POST IN A BOARD FENCE
AJ6168'5.2 METERS (17.0 FEET) NORTHEAST OF THE SOUTHEAST CORNER POST OF A
AJ6168'WOOD PAVILION, 0.7 METERS (2.3 FEET) NORTHWEST OF CARSONITE
AJ6168'WITNESS POST AND 0.25 METERS (0.8 FEET) SOUTH OF A MAGNET BURIED 0.1
AJ6168'METERS (0.3 FEET).
AJ6168'
AJ6168'
AJ6168'
AJ6168
AJT6168
                                    STATION RECOVERY (2002)
AJ6168
AJ6168'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (MKC)
AJ6168'THE STATION IS LOCATED APPROXIMATELY 6.4 KILOMETERS (4.0 MILES)
AJ6168'SOUTHWEST OF OKEECHOBEE, FLORIDA ON THE HERBERT HOOVER LEVEE AJ6168'APPROXIMATELY 4.5 MILES (14.8 FEET) SOUTH OF THE CENTER OF THE
AJ6168'LEVEE. LOCATED ON THE OKEECHOBEE QUAD TOWNSHIP 38 SOUTH, RANGE 35
AJ6168'EAST.
AJ6168'
AJ6168'OWNERSHIP
                     SOUTH FLORIDA WATER MANAGEMENT DISTRICT
AJT6168
AJ6168'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 441
AJ6168'AND STATE ROAD 78 IN OKEECHOBEE, FLORIDA GO WEST ON STATE ROAD
AJ6168'78 FOR 0.08 KILOMETERS (0.05 MILES) TO A ROAD LEADING SOUTH TO JAYCEE
AJ6168'PARK, THENCE SOUTH 0.16 KILOMETERS (0.1 MILES) TO THE TOP OF
AJ6168'HERBERT HOOVER LEVEE AND A GATE ON RIGHT, THENCE SOUTHWEST 5.80
AJ6168'KILOMETERS (3.6 MILES) TO A GATE ON THE LEVEE, THENCE CONTINUE
AJ6168'SOUTHWEST ON LEVEE TO THE MARK ON LEFT. ALSO TO REACH THE MARK AJ6168'FROM THE INTERSECTION U.S. HIGHWAY 441 AND STATE ROAD 78 GO
AJ6168'SOUTHWEST ON STATE ROAD 78, 6.77 KILOMETERS (4.2 MILES) TO THE TOP
AJ6168'OF THE LEVEE CROSSING STATE ROAD 78, THENCE ON LEVEE 0.08
AJ6168'KILOMETERS (0.05 MILES) TO THE MARK ON RIGHT ON TOP OF LEVEE.
AJ6168'
AJ6168'THE STATION IS 78.1 METERS (256.3 FEET) EAST OF THE INTERSECTION OF
AJ6168'THE CENTER OF STATE ROAD 78 AND THE CENTER OF THE LEVEE, 35.9
AJ6168 METERS (117.8 FEET) NORTH OF THE WEST GATE POST IN A BOARD FENCE,
AJ6168'5.2 METERS (17.0 FEET) NORTHEAST OF THE SOUTHEAST CORNER POST OF A
AJ6168'WOOD PAVILION, 0.7 METERS (2.3 FEET) NORTHWEST OF CARSONITE
AJ6168'WITNESS POST AND 0.25 METERS (0.8 FEET) SOUTH OF A MAGNET BURIED 0.1
AJ6168'METERS (0.3 FEET).
AJ6168'
AJ6168'
AJT6168 '
AJ6168
```

AJ6168 STATION RECOVERY (2005)
AJ6168
AJ6168'RECOVERY NOTE BY MACTEC ENGINEERING AND CONSULTING 2005 (CBG)
AJ6168'RECOVERED AS DESCRIBED

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

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22	, 2006		Datum:	NAVD88	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
		` '											
	3.490												
ВМ	2.760	2.760	41.240			38.480	38.480						NGS BM F-523
	2.030												
STADIA		146.000											
STADIA		146.000											
	1.580			9.780									
TP1	0.940	0.937	33.107		9.070	32.170		288.00	0.000290065	0.000290065	32.170	9.805	
	0.290			8.360				4.00					
	2.810			27.210				4.00					
STADIA		129.000			142.000								
	4.040			0.075									
TP2	4.210 2.985	2.985	27.842	8.875	8.250	24.857		054.00	0.000255821	0.000545887	24.856	7.576	
IPZ	1.760	2.985	27.842	8.250 7.625	8.250	24.857		254.00 4.00	0.000255821	0.000545887	24.836	7.576	
	8.955			24.750				8.00					
STADIA	0.300	245.000		24.700	125.000			0.00					
	7.590			6.340									
TP3	6.380	6.380	29.122	5.100	5.100	22.742		493.00	0.000496535	0.001042422	22.741	6.931	
	5.170			3.860				-3.00					
074514	19.140			15.300	0.40.000			5.00					
STADIA		242.000			248.000								
	9.510			2.850									
TP4	8.250	8.253	35.745	1.630	1.630	27.492		486.00	0.000489485	0.001531907	27.490	8.379	
	7.000	0.000		0.410				-2.00					
	24.760			4.890				3.00					
STADIA		251.000			244.000								
	5.550	5.455	05.455	6.740	5.400	00.005		500.05	0.00050005	0.000005::		0.004	
TP5	5.155	5.155	35.420		5.480	30.265		503.00	0.000506607	0.002038514	30.263	9.224	
	4.760 15.465			4.220 16.440				-1.00 2.00					
STADIA	15.465	79.000		10.440	252.000			∠.00					
CIADIA		70.000			202.000								
L	1		I				l			1		1	<u> </u>

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22	, 2006		Datum:	NAVD88	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	6.460			5.240	Ì								
TP6	5.210	5.213	35.763	4.870	4.870	30.550		153.00	0.000154097	0.002192611	30.548	9.311	BM CHECK NGS BM E-523
	3.970			4.500				5.00					NGS DATA SHEET ELEV. 30.55
	15.640			14.610				7.00					
STADIA		249.000			74.000								
	4.630			8.230									
TP7	3.380	3.380	32.143	7.000	7.000	28.763		495.00	0.000498550	0.002691161	28.761	8.766	
	2.130			5.770				3.00			•		
	10.140			21.000				10.00					
STADIA		250.000			246.000								
	6.350			7.070									
TP8	5.090	5.090	31.413	5.820	5.820	26.323		500.00	0.000503586	0.003194747	26.320	8.022	
	3.830			4.570				0.00					
	15.270			17.460				10.00					
STADIA		252.000			250.000								
	3.730			8.720									
TP9	2.480	2.480	26.430	7.460	7.463	23.950		503.00	0.000506607	0.003701354	23.946	7.299	
	1.230			6.210				1.00					
	7.440			22.390				11.00					
STADIA		250.000			251.000								
	6.190			8.960									
TP10	4.950	4.950	23.668	7.715	7.712	18.718		500.00	0.000503586	0.004204939	18.714	5.704	
	3.710			6.460				0.00					
	14.850			23.135				11.00					
STADIA		248.000			250.000					1			
										1			
	8.240			6.020									
TP11	6.980	6.980	25.868	4.780	4.780	18.888		496.00	0.000499557	0.004704496	18.884	5.756	
	5.720			3.540				0.00					
	20.940			14.340				11.00		1			
STADIA		252.000			248.000								

4,380 6.410 TP12 4,240 4,240 24,940 5,165 5,168 20,700 500,00 0,000503586 0,005208082 20,695 6,308 4,100 3,930 4,00 </th <th></th>	
TP12 4.240 4.240 24.940 5.165 5.168 20.700 500.00 0.00503586 0.005208082 20.695 6.308 4.100 3.330 4.00 15.505 15.00	CRIPTION
12.720	
12.720	
STADIA 28.000 248.000 248.000 5.680 5.600 5.600 5.600 19.480 56.00 0.000056402 0.005264483 19.475 5.936 SET SFWMD B 5.360 5.360 5.320 0.00 0.00 0.005264483 19.475 5.936 SET SFWMD B 6.715 16.520 16.380 15.00 0.00 0.005264483 19.475 5.936 SET SFWMD B 7P14 5.460 5.462 26.158 4.290 20.697 57.00 0.00057409 0.005321892 20.691 6.307 4.210 4.150 1.00 16	
TP13	
TP13	
TP13 5.510 5.507 24.987 5.460 5.460 19.480 56.00 0.000056402 0.005264483 19.475 5.936 SET SFWMD B 5.360 16.520 16.380 15.0	
16.520	
16.520	ASS DISK STAMPED
STADIA 29.000 28.000 28.000 6.715 4.430 5.460 5.460 5.462 26.158 4.290 4.290 20.697 57.00 0.000057409 0.005321892 20.691 6.307 4.210 4.150 1.00 16.00	
Color	
TP14 5.460 5.462 26.158 4.290 4.290 20.697 57.00 0.000057409 0.005321892 20.691 6.307 4.210 4.150 1.00	
TP14 5.460 5.462 26.158 4.290 4.290 20.697 57.00 0.000057409 0.005321892 20.691 6.307 4.210 4.150 1.00	
4.210	
16.385	
STADIA 250.500 28.000 0.000504089 0.005825981 18.873 5.752 TP15 4.730 4.727 23.605 7.280 18.878 500.50 0.000504089 0.005825981 18.873 5.752 3.480 6.030 0.50 0.50 0.50 0.000504089 0.005825981 18.873 5.752 STADIA 249.000 250.000 16.50 0.000500504 0.000500504 0.000500504 0.000500504 0.006326545 18.709 5.702 0.000500504 0.000500504 0.000500564 0.006326545 18.709 5.702 0.000500504 0.000500564 0.000500564 0.006326545 18.709 5.702 0.000500564	
5.970 8.530 0.0050504089 0.005825981 18.873 5.752 1715 4.730 4.727 23.605 7.280 7.280 18.878 500.50 0.000504089 0.005825981 18.873 5.752 3.480 6.030 0.50	
TP15 4.730 4.727 23.605 7.280 7.280 18.878 500.50 0.000504089 0.005825981 18.873 5.752 3.480 6.030 0.50	
TP15 4.730 4.727 23.605 7.280 7.280 18.878 500.50 0.000504089 0.005825981 18.873 5.752 3.480 6.030 0.50	
3.480	
14.180 21.840 16.50 16.50	
STADIA 249.000 250.000 497.00 6.130 TP16 7.710 7.710 26.425 4.890 4.890 18.715 497.00 0.000500564 0.006326545 18.709 5.702 6.450 3.650 1.00 1.00 1.00 1.00 1.00	
8.970 6.130	
TP16 7.710 7.710 26.425 4.890 4.890 18.715 497.00 0.000500564 0.006326545 18.709 5.702 6.450 3.650 1.00 0.000500564 0.006326545 18.709 5.702	
TP16 7.710 7.710 26.425 4.890 4.890 18.715 497.00 0.000500564 0.006326545 18.709 5.702 6.450 3.650 1.00 0.000500564 0.006326545 18.709 5.702	
6.450 3.650 1.00	
23 130 14 670 17 50	
STADIA 252.000 248.000	
8.800 3.720	
TP17 7.600 7.600 31.545 2.480 2.480 23.945 500.00 0.000503586 0.006830131 23.938 7.296	
6.400 1.240 4.00	
22.800 7.440 21.50	
STADIA 240.000 248.000	

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22	, 2006		Datum:	NAVD88	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	7.250			6.530									
TP18	5.990	5.993	32.318	5.220	5.220	26.325		502.00	0.000505600	0.007335730	26.318	8.022	
	4.740			3.910				-22.00					
	17.980			15.660				-0.50					
STADIA		251.000			262.000								

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OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22	, 2006		Datum:	NAVD88	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	8.550			4.800									
TP19	7.325	7.323	36.088	3.550	3.553	28.765		249.00	0.000250786	0.007839316	28.757	8.765	
	6.095			2.310				-249.00					
	21.970			10.660				1.50					
STADIA		245.500			249.000								
				6.755									
BM				5.530	5.530	30.558	30.550	490.50	0.000494017	0.008333333	30.550	9.312	BM CHECK @ E-523
				4.305				0.50					
				16.590				2.00					
					245.000								

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OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22	, 2006		Datum:	NAVD88	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
							LOR=	8274.00	CHECK VALUES T	O VERIFY SAME			
									OR TO SEE THEY	ARE WITHIN			
	TOTAL + =	4138.000		TOTAL -=	4136.000			8274.00	THIRD ORDER SP	ECS(MAX DIFF.	33 FT.)		
					2.00								
					RAW CL	OSURE=	0.008						
					ERROR PEI	R FOOT=	0.000						
		MTS A	LLOWABLE	E ERROR FOR THIRD ORDER=			0.038						
					ACTUAL	ERROR=	0.008	RED IF	BADGREEN IF	GOOD			

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22,	2006		Datum:	NGVD29	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	3.490												
ВМ	2.760	2.760	42.530			39.770	39.770						NGS BM F-523
	2.030												
STADIA		146.000											
	1.580			9.780									
TP1	0.940	0.937	34.397	9.070	9.070	33.460		288.00	0.000696089	0.000696089	33.459	10.198	
	0.290			8.360				4.00					
	2.810			27.210				4.00					
STADIA		129.000			142.000								
	4.040			0.075									
TDO	4.210	0.005	00.400	8.875	0.050	00.447		054.00	0.000040040	0.004040004	00.445	7.000	
TP2	2.985	2.985	29.132		8.250	26.147		254.00	0.000613912	0.001310001	26.145	7.969	
	1.760			7.625				4.00					
CTADIA	8.955	245.000		24.750	105.000			8.00					
STADIA		245.000			125.000								
	7.590			6.340									
TP3	6.380	6.380	30.412		5.100	24.032		493.00	0.001191570	0.002501571	24.029	7.324	
11-3	5.170	0.360	30.412	3.860	3.100	24.032		-3.00	0.001191370	0.002301371	24.029	7.324	
	19.140			15.300				5.00					
STADIA	19.140	242.000		13.300	248.000			3.00					
OTADIA		242.000			240.000								
	9.510			2.850									
TP4	8.250	8.253	37.035		1.630	28.782		486.00	0.001174651	0.003676222	28.778	8.772	
	7.000	0.200	0000	0.410				-2.00	2,00	2.0000.0222		<u> </u>	
	24.760			4.890				3.00					
STADIA	= 131 00	251.000			244.000								
	5.550			6.740									
TP5	5.155	5.155	36.710	5.480	5.480	31.555		503.00	0.001215739	0.004891961	31.550	9.616	
	4.760			4.220				-1.00					
	15.465			16.440				2.00					
STADIA		79.000			252.000								

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22,	, 2006		Datum:	NGVD29	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	6.460	,		5.240	,								
TP6	5.210	5.213	37.053	4.870	4.870	31.840		153.00	0.000369797	0.005261759	31.835	9.703	BM CHECK NGS BM E-523
	3.970			4.500				5.00					DATA SHEET ELEV. 31.831 (NGVD
	15.640			14.610				7.00					1929 TXT FILE)
STADIA		249.000			74.000								
	4.630			8.230									
TP7	3.380	3.380	33.433		7.000	30.053		495.00	0.001196404	0.006458162	30.047	9.158	
	2.130			5.770				3.00					
	10.140			21.000				10.00					
STADIA		250.000			246.000								
	0.070												
	6.350		00 =00	7.070		07.010		- 00.00	0.004000400			0.111	
TP8	5.090	5.090	32.703	5.820	5.820	27.613		500.00	0.001208488	0.007666651	27.606	8.414	
	3.830			4.570				0.00					
OTABLA	15.270	050 000		17.460	050.000			10.00					
STADIA		252.000			250.000								
	0.700			0.700									
TDO	3.730	0.400	07 700	8.720	7.400	05.040		500.00	0.004045700	0.000000000	05 004	7.000	
TP9	2.480	2.480	27.720		7.463	25.240		503.00	0.001215739	0.008882390	25.231	7.690	
	1.230			6.210				1.00					
STADIA	7.440	250.000		22.390	251.000			11.00					
STADIA		250.000			251.000								
	6.190			8.960									
TP10	4.950	4.950	24.958		7.712	20.008		500.00	0.001208488	0.010090878	19.998	6.095	
11 10	3.710	7.550	27.000	6.460	1.112	20.000		0.00	0.001200400	0.010030070	13.330	0.000	
	14.850			23.135				11.00					
STADIA	14.000	248.000		20.100	250.000			11.00					+
317(217)		2 10.000			200.000								
	8.240			6.020									
TP11	6.980	6.980	27.158		4.780	20.178		496.00	0.001198821	0.011289699	20.167	6.147	
	5.720	2.200	0	3.540	••			0.00		2121120000		=:	
	20.940			14.340				11.00					
STADIA	25.0 10	252.000			248.000								
	_ L												

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22,	2006		Datum:	NGVD29	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	НІ	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	4.388	Ì		6.410	Ì								
TP12	4.240	4.243	26.233	5.165	5.168	21.990		500.00	0.001208488	0.012498187	21.978	6.699	
	4.100			3.930				4.00					
	12.728			15.505				15.00					
STADIA		28.800			248.000								
	5.650			5.600									
TP13	5.510	5.507	26.279	5.460	5.460	20.773		56.80	0.000137284	0.012635472	20.760	6.328	SET SFWMD BRASS DISK STAMPED
	5.360			5.320				0.80					OK 100 2006
	16.520			16.380				15.80					
STADIA		29.000			28.000								
	6.715			4.430									
TP14	5.460	5.462	27.451	4.290	4.290	21.989		57.00	0.000137768	0.012773239	21.977	6.698	
	4.210			4.150				1.00					
	16.385			12.870				16.80					
STADIA		250.500			28.000								
	5.970			8.530									
TP15	4.730	4.727	24.898	7.280	7.280	20.171		500.50	0.001209697	0.013982936	20.157	6.144	
	3.480			6.030				0.50					
	14.180			21.840				17.30					
STADIA		249.000			250.000								
	8.970			6.130									
TP16	7.710	7.710	27.718	4.890	4.890	20.008		497.00	0.001201237	0.015184174	19.992	6.094	
	6.450			3.650				1.00					
	23.130			14.670				18.30					
STADIA		252.000			248.000								
	8.800			3.720									
TP17	7.600	7.600	32.838	2.480	2.480	25.238		500.00	0.001208488	0.016392662	25.221	7.687	
	6.400			1.240				4.00					
	22.800			7.440				22.30					
STADIA		240.000			248.000								
-	_												•

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22	, 2006		Datum:	NGVD29	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	НІ	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	7.250			6.530									
TP18	5.990	5.993	33.611	5.220	5.220	27.618		502.00	0.001213322	0.017605984	27.600	8.413	
	4.740			3.910				-22.00					
	17.980			15.660				0.30					
STADIA		251.000			262.000								

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22	, 2006		Datum:	NGVD29	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	8.550			4.800									
TP19	7.325	7.323	37.381	3.550	3.553	30.058		249.00	0.000601827	0.018814473	30.039	9.156	
	6.095			2.310				-249.00					
	21.970			10.660				2.30					
STADIA		245.500			249.000								
				6.755									
ВМ				5.530	5.530	31.851	31.831	490.50	0.001185527	0.020000000	31.831	9.702	BM CHECK @ E-523
				4.305				0.50					
				16.590				2.80					
					245.000								

OK 100	16434.00	PARTY CHIEF	D. FERELS	DATE:	June 22	, 2006		Datum:	NGVD29	FIELD BOOK 1216	PAGES	24-28	
STATION	3 WIRE	AVG.(ENG)	НІ	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
							LOD	0074.00	CHECK MALLIES:	TO VEDIEV CAME			
							LOR=	8274.80	CHECK VALUES	TO VERIFY SAME			
									OR TO SEE THEY	ARE WITHIN			
	TOTAL + =	4138.800		TOTAL -=	4136.000			8274.80	THIRD ORDER SP	PECS(MAX DIFF.	33 FT.)		
					2.80								
					RAW CL	OSURE=	0.020						
					ERROR PEI	R FOOT=	0.000						
		MTS A	LLOWABLE	ERROR	FOR THIRD	ORDER=	0.038						
					ACTUAL	0.020	RED IF	BADGREEN II	GOOD				

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