Specific Purpose Survey of the Monitoring Wells
OSF-66

Osceola County, Florida

South Florida Water Management District's Purchase Order number PC P602214

Keith and Schnars project number 16434.07, Task 22003

> Report Date: August 15, 2006 Submittal: First

> > Prepared for:

South Florida Water Management District

Prepared by:



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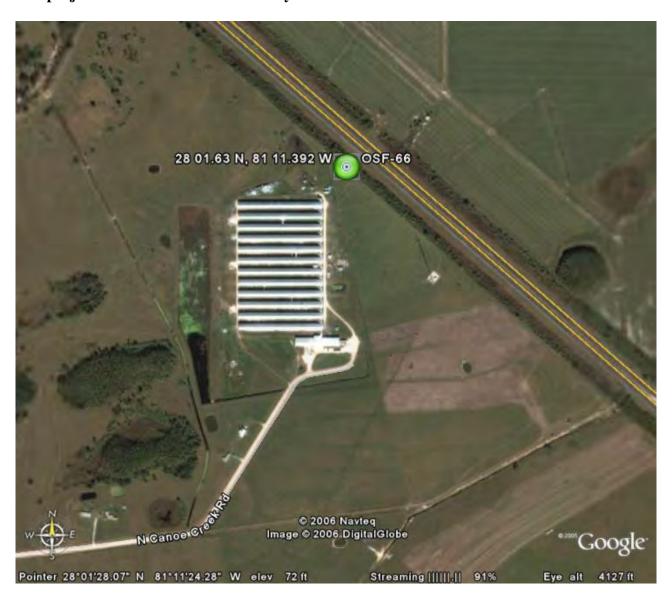
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PURPOSE

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

LOCATION OF PROJECT

The project is located in Osceola County.



ITEMS DELIVERED TO THE DISTRICT

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

DATUM FOR THE PROJECT

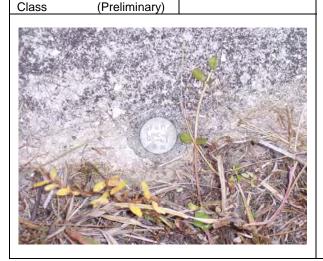
The vertical datum for the project is North American Datum of 1988 (NAVD '88). National Geodetic Survey vertical control monuments with published NAVD '88 elevations were used as the basis for this survey. The National Geodetic Vertical Datum of 1929 (NGVD '29) shown were computed using CORPSCON version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

LEVELING METHODS

Benchmark OSF-66 was constructed at the site. The elevations were established from Benchmark OS 61 SFLWMD using a Wild NA-2 conventional level and three-wire observation method.

VERTICAL CONTROL

BM OS 61 SFLWMD	BM OS 61 SFLWMD		NAVD 1988	74.51'	NGVD 1929	75.72'
Found in National Geodetic Survey Database	Lat	itude	27°59'06" (Scaled)			
State/County FL/Osceola	Lor	ngitude	81°10'04" (Scaled)			
USGS QUAD LAKE MARIAN NW (1972)						
Horiz. Order (Preliminary)						



DESCRIBED BY FL DEPT OF NAT RES 1983
14.0 MI WNW FROM KENANSVILLE. BEGIN AT THE
INTERSECTION OF U.S. HIGHWAY 441 AND STATE ROAD
523 (CANOE CREEK ROAD) IN KENANSVILLE, GO 14.0
MILES NORTH AND WEST ALONG STATE ROAD 523 TO
THE MARK. THE MARK IS SET FLUSH IN A CONCRETE
CULVERT. THE MARK BEARS 20.4 FEET NORTHEAST OF
THE CENTERLINE OF STATE ROAD 523, 8.2 FEET
NORTHWEST OF THE SOUTHWEST END OF THE CULVERT,
AND 7.8 FEET SOUTHWEST OF THE NORTHWEST END OF
THE CULVERT. THE SURVEY DISK IS 1.25 INCHES IN
DIAMETER.

STATION RECOVERY (2005)

RECOVERY NOTE BY GEOCACHING 2005 (MAG) RECOVERED IN GOOD CONDITION.

PROJECT RESULTS

Monitoring Well (GW-1)	Monitoring Well (GW-2)
Monitoring Well OSF-66: Reference mark: Set mark on N. side PVC pipe With initials K&S.	Monitoring Well OSF-66: Reference mark: Set mark on N. side PVC pipe With initials K&S.
New Reference Mark El. 80.781' (NGVD '29) (Wrote -1.21' to NAVD 1988).	New Reference Mark El. 81.054' (NGVD '29) (Wrote -1.21' to NAVD 1988).
Initials:	Initials:
<u>K&S</u> <u>B.M., R.F.</u>	<u>K&S</u> <u>B.M., R.F.</u>
Date: 7/26/06	Date: 7/26/06
written at the mark:	written at the mark:
El. 80.71' Date: None By: None	El. 81.01' Date: None By: None
Reference Mark location: <u>Top of PVC Pipe</u>	Reference Mark location: <u>Top of PVC Pipe</u>

PROJECT RESULTS

Monitoring Well (GW-3)

Monitoring Well OSF-66:

Reference mark:

Set mark on S. side PVC pipe

With initials K&S.

New Reference

Mark El. **79.261**'

(NGVD '29)

(Wrote -1.21' to NAVD 1988).

Initials:

K&S

B.M., R.F.

Date:

7/26/06

written at the mark:

El. **79.20**°

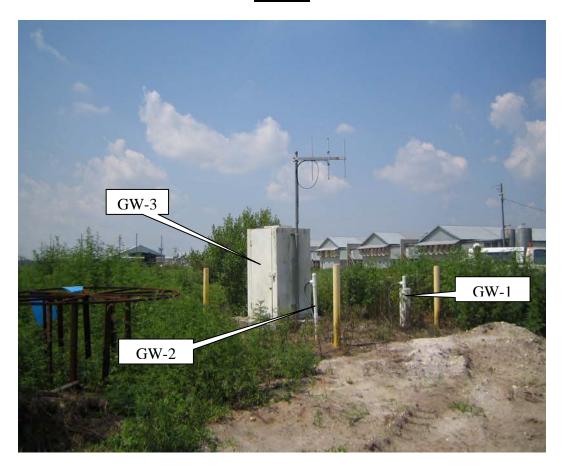
Date: None

By: None

Reference Mark location:

Top of PVC Pipe

PROJECT PHOTO



PROJECT PHOTO

MONITORING WELL (GW-1)



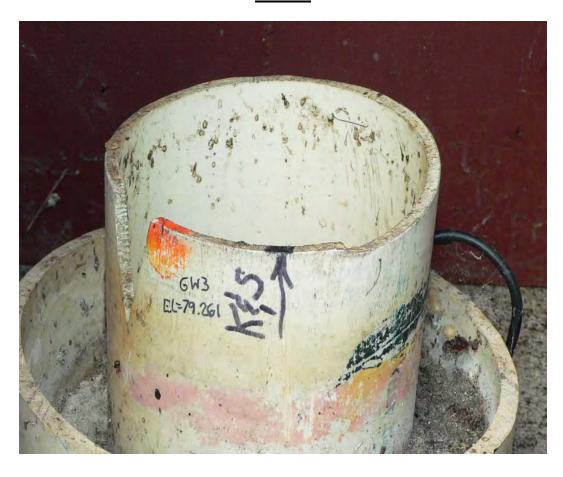
PROJECT PHOTO

MONITORING WELL (GW-2)

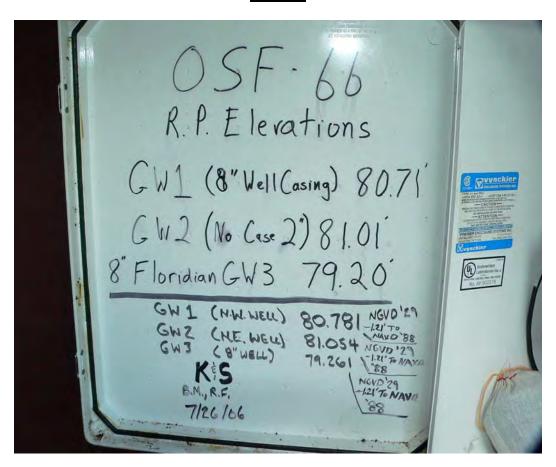


PROJECT PHOTO

MONITORING WELL (GW-3)



PROJECT PHOTO



SURVEYOR'S REPORT PROJECT PHOTO





Comments:

Party Chief: D. SULLIVAN Field Book: 1156 Page 65-72, Field Book: 1163 Page 60-67

Bench Mark: "OS 61 SFLWMD" El. 74.51', Vertical Datum: NAVD1988 Offset: 1.210' SFWMD VALUE (add this value to convert to NGVD 1929) Offset: 1.210' NGS VALUE (add this value to convert to NGVD 1929)

NAVD 88 - North American Vertical Datum of 1988 NGVD29 -National Geodetic Vertical Datum of 1929 NAD 83-99 (Horizontal Datum) North American Datum

NGS- National Geodetic Survey SFWMD- South Florida Water Management District

PVC-Polyvinyl Chloride

SURVEYOR'S CERTIFICATION

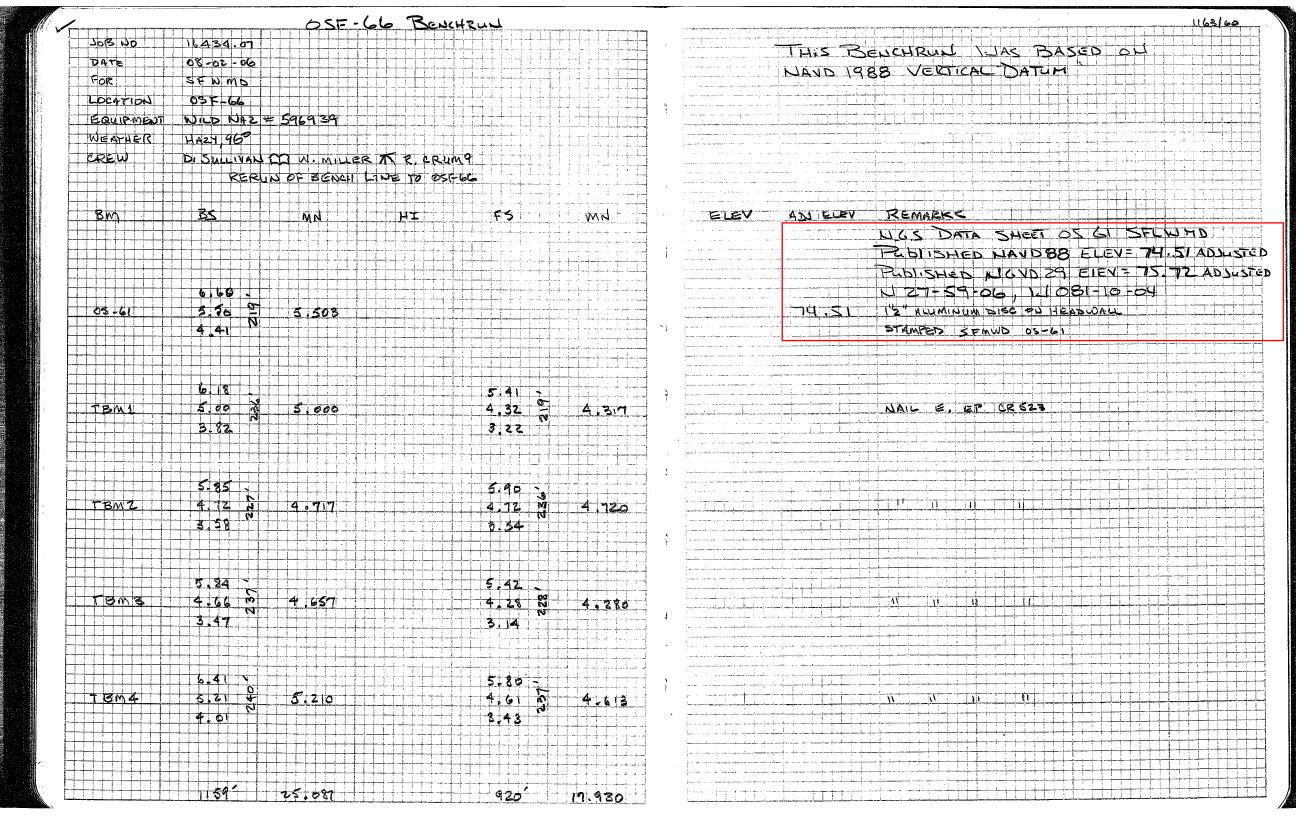
I hereby certify that this Specific Purpose Survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61-G17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida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

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

By:

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

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I denti fi cati on_I nformati on:
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                    Citation_Information:
                              Originator: Kenneth T. Glass, P.S.M. (ed.)
                             Publication_Date: 20060726
Publication_Time: Unknown
Title: S.F.W.M.D. Monitoring Well
Edition: OSF-66
 Kenneth T. Glass
 Keith & Schnars P.A.
                              Series_Information:
                              Publication_Information:
                                        Publication_Place: Not Published
                                        Publisher: None
                              Online_Linkage: kglass@keithandschnars.com
                              Larger_Work_Či tati on:
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                                                  Publication_Information:
         Description:
                    Abstract:
                              South Florida Water Management District
                              Structure OSF-66
 Purpose
                    Purpose:
                              To establish reference elevations in NAVD 1988 and
                              NGVD 1929 datum at the Monitoring Well(s).
         Time_Period_of_Content:
                    Time_Peri od_Information:
                              Si ngl e_Date/Ti me:
 Survey Date
                                        Cal endar_Date: 20060726
                              Range_of_Dates/Times:
                              Mul tiple_Dates/Times:
                    Currentness_Reference: Publication Date
         Status:
                    Progress: Complete
                    Maintenance_and_Update_Frequency: Unknown
         Spati al _Domai n:
                    Boundi ng_Coordi nates:
                              West_Boundi ng_Coordi nate: 81°11' 23. 5"
                              East_Boundi ng_Coordi nate: 81°11' 23.5"
                              North_Boundi ng_Coordi nate: 28°01'37.8"
South_Boundi ng_Coordi nate: 28°01'37.8"
         Keywords:
                    Theme:
                              Theme_Keyword_Thesaurus: Specific Purpose Survey
                              Theme_Keyword: Monitoring Well(s)
                    PI ace:
                             Place_Keyword_Thesaurus: Osceola County
Place_Keyword: S.F.W.M.D. Monitoring Well OSF-66
Place_Keyword: SEC. 23 - T28S - R31E
                    Stratum:
                    Temporal:
         Access_Constraints: Key needed to gain access to Monitoring Wells. Use_Constraints: Call South Florida Water Management District for key.
         Point_of_Contact:
Howard Ehmke Contact_Information:
                              Contact_Person_Pri mary:
                                        Contact_Person: Howard J. Ehmke
SFWMD
                                        Contact_Organization: South Florida Water Management
District
                             Contact_Organization_Primary:
Contact_Position: P.S.M.
Contact_Address:
                                        Address_Type: mailing and physical address
                                        Address:
                                                  Acceler 8
```

Suite 150 2301 Centerpark West Drive City: West Palm Beach

State_or_Province: Florida Postal_Code: 33409

Country: USA

Page 1

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0SF 66. gen
                                     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
            Security_Information:
            Cross_Reference:
                         Ci tati on_Informati on:
                                     Series_Information:
                                     Publication_Information:
Data_Quality_Information:
            Attribute_Accuracy:
                         Attribute Accuracy Report:
                                     The horizontal location of the benchmark was taken from a hand held G.P.S. unit. The vertical data was collected
                                     using a Wild NA-2 Level. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD 1988 with an offset supplied to convert to NGVD 1929.
            Logi cal _Consi stency_Report:
                         Vertical data on the monitoring well was established
                         using the site bench mark.
```

Completeness_Report: Results 80.781' (NGV **Project Results**

80.781' (NGVD 1929) OSF-66 Well (GW-1).
Offset written at wells (-) 1.21' to NAVD 1988.
81.054' (NGVD 1929) OSF-66 Well (GW-2).
Offset written at wells (-) 1.21' to NAVD 1988.
79.261' (NGVD 1929) OSF-66 Well (GW-3).
Offset written at wells (-) 1.21' to NAVD 1988. OSF-64 2006 was the site benchmark used for this survey. NAVD 1988 elevation 75.111'

Horizontal

Equipment Used

Quanti tati ve_Hori zontal _Posi ti onal _Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: Lat. 28°01'37.8"

Long. 81°11' 23.5"

Horizontal_Positional_Accuracy_Explanation: Value derived

by hand-held GPS unit.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:
The onsite benchmark was used to establish the elevations on the monitoring well(s) in this report.

Quanti tati ve_Verti cal _Posi ti onal _Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.064 ft. NAVD88 Vertical_Positional_Accuracy_Explanation: Better than

0.03ft. x sq. root of miles of the level loop. Li neage:

Source_Information:

Source_Ci tati on:

Ci tati on_Informati on:

Series_Information: Publication_Information: Larger_Work_Ci tati on:

Citation_Information:

Series_Information: Publication_Information:

Source_Ti me_Peri od_of_Content:

Time_Period_Information: Single_Date/Time: Range_of_Dates/Times: Mul tiple_Dates/Times:

Process_Step:

Process Description:

Level Line

Differential leveling was performed using a Wild N-2 level. The onsite bench mark OSF66 2006 was used to determine the monitoring well elevation. Elevations were written at the wells in NGVD 1929 with an offset provided to convert the elevations to NAVD 1988.

Process_Date: 20060726

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0SF 66. gen
                             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:
          Geographi c:
                                       Latitude Resolution: 28°01'37.8"
                                       Longi tude_Resolution: 81°11'23.5"
                                       Geographic_Coordinate_Units: Degrees, minutes, and decimal
seconds
                             Geodetic_Model:
                   Verti cal _Coordi nate_System_Defi ni ti on:
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Entity_and_Attribute_Information:
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                             Attribute_Domain_Values:
                             Attribute_Value_Accuracy_Information:
          Overvi ew_Description:
Di stri buti on_I nformati on:
          Di stri butor:
                    Contact_Information:
                             Contact_Person_Pri mary:
                             Contact_Organi zati on_Pri mary:
                                       Contact_Organization: Keith and Schnars, P.A.
                                       Contact_Person: Kenneth T. Glass, P.S.M.
                             Contact_Position: Director of Surveying and Mapping Lakeland Contact_Address:
                                       Address_Type: mailing and physical address
Address: 2525 Drane Field Rd., Suite 7
                                       City: Lakel and
         rostal_Code: 33811
Country: Polk
Contact_Voice_Telephone: (863)-646-4771
Contact_Facsimile_Telephone: (863)-646-3378
Contact_Electronic_Mail_Address: kglass@keithandschnars.com
Hours_of_Service: 8:00-5:00 est.
Distribution_Liability: None
Standard_Order_Process:
                                       State_or_Province: Florida
                   Digital_Form:
                             Di gi tal _Transfer_I nformati on:
                             Di gi tal _Transfer_Opti on:
                                       Online_Option:
                                                 Computer_Contact_Information:
                                                           Network_Address:
                                                           Di al up_Tnstructi ons:
                                       OffLi ne_Opti on:
                                                 Recording_Capacity:
          Available_Time_Period:
                    Time_Period_Information:
                             Single_Date/Time:
                             Range_of_Dates/Ti mes:
Mul ti pl e_Dates/Ti mes:
Metadata_Reference_Information:
          Metadata_Date: 20060809
          Metadata_Contact:
                    Contact_Information:
                             Contact_Person_Pri mary:
                                       Contact_Person: Kenneth T. Glass, P.S.M.
                                       Contact_Organization: Keith and Schnars, P.A.
                             Contact_Organization_Primary:
Contact_Position: Director of Surveying and Mapping Lakeland
Contact_Address:
                                       Address_Type: mailing and physical address
```

Page 3

OSF 66.gen Address: 2525 Drane Field Rd., Suite 7

Address: 2525 Drane Field Rd., Suite 7
City: Lakeland
State_or_Province: FL
Postal_Code: 33811
Country: USA
Contact_Voice_Telephone: (863) 646-4771
Contact_Facsimile_Telephone: (863) 646-3378
Contact_Electronic_Mail_Address: kglass@keithandschnars.com
Hours_of_Service: 8:00 am to 5:00 pm EST
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Security_Information:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY	PROJECT			DESIGNATION				
OSCEOLA				Structur	e OSF-66			
SECTION 23	TOWNSHIP 28	SOUTH	ł	RANGE 31 EAST				
GEOGRAPHIC INDEX OF QUAD								
Established by KEITH AND SCHNA	ARS	NAME OF QUADRANGLE						
Recovered by		HOLOPAW SW						
SET CLASS "C" MONUNENT WITH BRASS DISK.	SFWMD							
SURVEYOR D. SULLIVAN (Keith a	nd Schnars)	FIELD	BOOK, 1163	, pgs. 60-	67,			
DATE <u>07/07/2006</u>		FIELD	D BOOK, 1156	, pgs. 65-	72			
HORIZONTAL DATUM: 1983 with	1999 correcti	on,	ZONE East					
VERTICAL DATUM: NGVD 1929	9 and NAVD 1	1988						
CONTROL ACCURACY: HORIZO	NTAL HAND-HEL	D GPS	3 rd Order V	ERTICAL				
STATE PLANE COORDINATES	X = 594914		Y = 1342629		EL. (NGVD 1929)			
					73.901' 76.321'			
					EL. (NAVD 1988)			
					75.111'			
LATITUDE <u>28° 01' 37.8"</u>			LC	NGITUDE	81º 11' 23.5"			
	DESC	RIPTIO	ON					
South Florida Water Management Dis	strict brass disk se	t in con	crete monume	nt stampe	d OSF 66 / 2006			
The benchmark is located 16.3 miles								
To reach the mark from the intersection Distance of 29.8 miles to mile marker								
Edge of pavement of the south bound			•					
	,							
			77					
					DA DESIGNATO			
				133	008667670			
				13	750			
					AND ZAOE			
Notable Land marks:		·			ANT BOTH TO SERVICE STATE OF THE SERVICE STATE OF T			

SKETCH

The NGS Data Sheet

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

```
DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.35
1 National Geodetic Survey, Retrieval Date = .
                                          Retrieval Date = APRIL 28, 2006
 AF7104 DESIGNATION - OS 61 SFLWMD
 AF7104
         PID
                            AF7104
 AF7104
          STATE/COUNTY- FL/OSCEOLA
 AF7104
         USGS QUAD
                      - LAKE MARIAN NW (1972)
 AF7104
 AF7104
                                      *CURRENT SURVEY CONTROL
 AF7104
 AF7104* NAD 83(1986)-
                            27 59 06.
                                                     081 10 04.
                                                                       (W)
                                                                                SCALED
                                             (N)
 AF7104* NAVD 88
                                   22.710
                                                             74.51
                                             (meters)
                                                                       (feet)
                                                                                ADJUSTED
 AF7104
          GEOID HEIGHT-
 AF7104
                                    -27.53
                                              (meters)
                                                                                GEOID03
 AF7104
          DYNAMIC HT
                                      22.676
                                             (meters)
                                                              74.40
                                                                       (feet)
                                                                                COMP
 AF7104
          MODELED GRAV-
                               979,146.6
                                                                                NAVD 88
                                              (mgal)
 AF7104
 AF7104
          VERT ORDER - SECOND
                                       CLASS II
 AF7104
 AF7104. The horizontal coordinates were scaled from a topographic map and have
 AF7104.an estimated accuracy of +/- 6 seconds.
 AF7104
 AF7104. The orthometric height was determined by differential leveling
 AF7104.and adjusted by the National Geodetic Survey in June 1991..
 AF7104
 AF7104. The geoid height was determined by GEOID03.
AF7104. The dynamic height is computed by dividing the NAVD 88 AF7104. geopotential number by the normal gravity value computed on the AF7104. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AF7104.degrees latitude (g = 980.6199 \text{ gals.}).
 AF7104
 AF7104. The modeled gravity was interpolated from observed gravity values.
 AF7104
 AF7104;
                                                                  Estimated Accuracy
                                North
                                                 East
                                                           Units
                                                                   (+/- 180 meters Scaled)
 AF7104; SPC FL E
                             404,560.
                                              183,500.
                                                              MT
 AF7104
 AF7104
                                       SUPERSEDED SURVEY CONTROL
 AF7104
 AF7104
         NGVD 29 (09/01/92)
                                   23.078
                                                             75.72
                                                                       (f) ADJUSTED
                                                                                          2 2
                                             (m)
 AF7104
 AF7104.Superseded values are not recommended for survey control. AF7104.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AF7104. See file dsdata.txt to determine how the superseded data were derived.
 AF7104
 AF7104_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML835955(NAD 83)
 AF7104_MARKER: DB = BENCH MARK DISK
 AF7104_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
 AF7104_SP_SET: CONCRETE CULVERT
AF7104_STAMPING: SFWM LINE-9 OS-61 BM
 AF7104_MARK LOGO: SFLWMD
 AF7104_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AF7104+STABILITY: SURFACE MOTION
 AF7104 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AF7104+SATELLITE: SATELLITE OBSERVATIONS - July 16, 2005
 AF7104
 AF7104
          HISTORY
                        - Date
                                                         Report By
                                     Condition
 AF7104
         HISTORY
                        UNK
                                     MONUMENTED
                                                          SFLWMD
                        - 1983
 AF7104
          HISTORY
                                     GOOD
                                                          FLDNR
                        - 20050716 GOOD
 AF7104
          HISTORY
                                                         GEOCAC
 AF7104
 AF7104
                                       STATION DESCRIPTION
 AF7104
 AF7104'DESCRIBED BY FL DEPT OF NAT RES 1983
 AF7104'14.0 MI WNW FROM KENANSVILLE.
 AF7104'BEGIN AT THE INTERSECTION OF U.S. HIGHWAY 441 AND STATE AF7104'ROAD 523 (CANOE CREEK ROAD) IN KENANSVILLE, GO 14.0 MILES
 AF7104'NORTH AND WEST ALONG STATE ROAD 523 TO THE MARK.
 AF7104'THE MARK IS SET FLUSH IN A CONCRETE CULVERT. THE MARK BEARS
```

```
AF7104'20.4 FEET NORTHEAST OF THE CENTERLINE OF STATE ROAD 523,
AF7104'8.2 FEET NORTHWEST OF THE SOUTHWEST END OF THE CULVERT, AND
AF7104'7.8 FEET SOUTHWEST OF THE NORTHWEST END OF THE CULVERT. THE
AF7104'SURVEY DISK IS 1.25 INCHES IN DIAMETER.
AF7104
AF7104
STATION RECOVERY (2005)
AF7104
AF7104'RECOVERY NOTE BY GEOCACHING 2005 (MAG)
AF7104'RECOVERED IN GOOD CONDITION.

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

DESIGNATION: SFWMD LINE 9 D S 61 BM STATE: FL COUNTY: OSCEOLA AREAL ALIASI APPROX LAT: 275915N APPROX LON: 0811015W QUAD: N27081114 SECTION: 1 TOWNSHIP: 29 RANGE: 31 FROM THE CITY OR TOWN OF SAINT CLOUD LUCATED 21.1 MI SE ******************** MONUMENT BY:S FL WATER MGMT DIST CHIEF OF PARTY: PWR YEAR:1983 YEAR: CHIEF OF PARTY: RECOVERY BY: SETTING CLASSIFICATION: CONCRETE HEADWALL STAMPING: SFWMD LINE 9 0 S 61 BM DISK TYPE: SURVEY DISK-NOT LISTED MONUMENTATION: SURVEY DISK DTHER CONTROL: CONDITION OF MARK: * FROM THE INTERSECTION OF U.S. HIGHWAY 192 AND COUNTY HIGHWAY 523 IN * SAINT CLOUD GO SOUTH ALONG COUNTY HIGHWAY 523 (CANDE CREEK ROAD) * 20.6 MILES TO THE STATION LOCATION STATION IS LOCATED ON THE EAST * HEADWALL OF BOX CULVERT NUMBER 0927 8.2 FEET NORTH OF THE SOUTH END OF THE HEADWALL 7.9 FEET SOUTH OF THE NORTH END OF THE HEADWALL 20.5 * FEET EAST OF THE CENTERLINE OF HIGHWAY 523 AND 69.5 FEET SOUTH OF A * FENCE LINE RUNNING EAST * A DISK SET INTO THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND **********

MARK DESCRIPTION

BENCH

mm

The NGS Data Sheet

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

```
DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.35
1 National Geodetic Survey, Retrieval Date = APRIL 28, 2006
        *******
 AF7103 DESIGNATION - OSC 1 FLDNR
 AF7103
         PID
                         AF7103
         STATE/COUNTY- FL/OSCEOLA
AF7103
 AF7103
         USGS QUAD
                     - LAKE MARIAN NW (1972)
 AF7103
 AF7103
                                   *CURRENT SURVEY CONTROL
AF7103
AF7103* NAD 83(1999)-
                          27 59 38.54536(N)
                                                081 10 34.97932(W)
                                                                          ADJUSTED
 AF7103* NAVD 88
                                                         75.41
                                 22.984
                                         (meters)
                                                                 (feet)
                                                                          ADJUSTED
AF7103
AF7103
                                                                          COMP
         Χ
                             864,527.837 (meters)
 AF7103
         Y
                          -5,569,324.859 (meters)
                                                                          COMP
 AF7103
                           2,975,919.976 (meters)
                                                                          COMP
 AF7103
         LAPLACE CORR-
                                  -1.16
                                                                          DEFLEC99
                                          (seconds)
         ELLIP HEIGHT-
 AF7103
                                   -4.58
                                                              (01/28/04) GPS OBS
                                          (meters)
         GEOID HEIGHT-
 AF7103
                                 -27.55
                                           (meters)
                                                                          GEOID03
AF7103
        DYNAMIC HT -
                                   22.950 (meters)
                                                         75.30 (feet)
                                                                          COMP
 AF7103
        MODELED GRAV-
                             979,146.9
                                          (mgal)
                                                                          NAVD 88
 AF7103
AF7103
         HORZ ORDER
                         FIRST
                      _
AF7103
         VERT ORDER
                          SECOND
                                     CLASS II
 AF7103
         ELLP ORDER
                          THIRD
                                     CLASS I
 AF7103
 AF7103. The horizontal coordinates were established by GPS observations
 AF7103.and adjusted by the FL DEPT OF ENV PRO in January 2004..
 AF7103
 AF7103. The orthometric height was determined by differential leveling
 AF7103.and adjusted by the National Geodetic Survey in June 1991..
 AF7103
AF7103.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AF7103
 AF7103. The Laplace correction was computed from DEFLEC99 derived deflections.
 AF7103
 AF7103. The ellipsoidal height was determined by GPS observations
 AF7103.and is referenced to NAD 83.
 AF7103
AF7103. The geoid height was determined by GEOID03.
 AF7103
AF7103. The dynamic height is computed by dividing the NAVD 88 AF7103. geopotential number by the normal gravity value computed on the AF7103. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AF7103.degrees latitude (g = 980.6199 \text{ gals.}).
 AF7103
 AF7103. The modeled gravity was interpolated from observed gravity values.
 AF7103
 AF7103;
                              North
                                              East
                                                       Units Scale Factor Converg.
                                                        MT 0.99994489
 AF7103;SPC FL E
                           405,561.118
                                          182,650.675
                                                                           -0 04 58.0
 AF7103;SPC FL E
                       - 1,330,578.43
                                          599,246.42
                                                        sFT
                                                              0.99994489
                                                                            -0 04 58.0
 AF7103;UTM 17
                       - 3,096,554.723
                                          482,656.595
                                                         MT
                                                             0.99960371
                                                                            -0 04 58.0
 AF7103
 AF7103!
                        Elev Factor x Scale Factor =
                                                              Combined Factor
                           1.00000072
                                            0.99994489
 AF7103!SPC FL E
                                        х
                                                         =
                                                              0.99994561
 AF7103!UTM 17
                           1.0000072
                                            0.99960371
                                                              0.99960443
                                        х
 AF7103
 AF7103
                                    SUPERSEDED SURVEY CONTROL
 AF7103
                                                         75.4
 AF7103
         NAVD 88 (01/28/04)
                                22.98
                                         (m)
                                                                  (f) LEVELING
 AF7103 NGVD 29 (09/01/92)
                                23.353 (m)
                                                         76.62
                                                                 (f) ADJUSTED
 AF7103
 AF7103. Superseded values are not recommended for survey control.
 AF7103.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AF7103. See file dsdata.txt to determine how the superseded data were derived.
 AF7103
 AF7103_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML8265796555(NAD 83)
 AF7103_MARKER: DB = BENCH MARK DISK
 AF7103_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
```

```
AF7103 SP SET: SET IN TOP OF CONCRETE MONUMENT
AF7103 STAMPING: OSC 1 1983 BSM
AF7103_MARK LOGO: FLDNR
AF7103_PROJECTION: FLUSH
AF7103 MAGNETIC: O = OTHER; SEE DESCRIPTION
AF7103 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AF7103+STABILITY: SURFACE MOTION AF7103_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AF7103+SATELLITE: SATELLITE OBSERVATIONS - March 06, 2005
AF7103
AF7103
        HISTORY
                     - Date
                                 Condition
                                                   Report By
AF7103 HISTORY
                    - 1983
                                MONUMENTED
                                                   FLDNR
                    - 20030429 GOOD
AF7103 HISTORY
                                                   FLDEP
AF7103
       HISTORY
                     - 20050306 GOOD
                                                   GEOCAC
AF7103
AF7103
                                  STATION DESCRIPTION
AF7103
AF7103'DESCRIBED BY FL DEPT OF NAT RES 1983
AF7103'14.75 MI WNW FROM KENANSVILLE.
AF7103'BEGIN AT THE INTERSECTION OF U.S. HIGHWAY 441 AND STATE ROAD 523
AF7103'(CANOE CREEK ROAD) IN KENANSVILLE, GO 14.75 MILES NORTH AND WEST
AF7103'ALONG STATE ROAD 523 TO THE
AF7103'INTERSECTION OF JOE OVERSTREET ROAD AND THE MARK.
                                                             THE MARK BEARS
AF7103'26.0 FEET SOUTHEAST OF THE CENTERLINE OF JOE OVERSTREET ROAD, 48.0
AF7103'FEET SOUTHWEST OF THE CENTERLINE OF STATE ROAD 523, 8.1 FEET
AF7103'SOUTHEAST OF A STOP SIGN/STREET SIGN, AND 2.0 FEET EAST OF A CORNER
AF7103'FENCE POST WITH A WITNESS SIGN ATTACHED.
AF7103'THE MARK IS 0.2 FT BELOW GROUND.
AF7103
AF7103
                                  STATION RECOVERY (2003)
AF7103
AF7103'RECOVERY NOTE BY FL DEPT OF ENV PRO 2003 (BPJ)
AF7103'THE MARK IS ABOUT 18.0 MI SOUTH-SOUTHEAST OF ST. CLOUD IN SECTION 1,
AF7103'TOWNSHIP 29 SOUTH,
AF7103'RANGE 31 EAST.
AF7103'
AF7103'TO REACH THE MARK FROM THE INTERSECTION OF THE FLORIDA TURNPIKE (STATE
AF7103'ROAD 91)
AF7103'UNDERPASS AND STATE ROAD 523, ABOUT 11.0 MI SOUTH OF ST. CLOUD, GO
AF7103'SOUTHEAST ON STATE ROAD 523(CANOE CREEK ROAD) FOR 8.0 MI TO THE
AF7103'JUNCTION OF JOE OVERSTREET ROAD ON THE RIGHT AND THE MARK ON THE
AF7103'RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE
AF7103 GROUND AND ABOUT 1.0 FT BELOW THE LEVEL OF JOE OVERSTREET ROAD.
AF7103'
AF7103'LOCATED 47.7 FT WEST-SOUTHWEST OF THE APPROXIMATE CENTERLINE OF STATE
AF7103'ROAD 523, 28.8 FT SOUTHEAST OF THE APPROXIMATE CENTERLINE OF JOE
AF7103'OVERSTREET ROAD, 10.2 FT SOUTH OF A STOP SIGN, 2.5 FT NORTHWEST OF A
AF7103'CARSONITE WITNESS POST, 1.8 FT SOUTH OF A WOODEN FENCE CORNER POST AND AF7103'1.5 FT SOUTH-SOUTHWEST OF A CARSONITE WITNESS POST.
AF7103'
AF7103'NOTE UNKNOWN MAGNETISM.
AF7103'
AF7103'
AF7103
AF7103
                                  STATION RECOVERY (2005)
AF7103
AF7103'RECOVERY NOTE BY GEOCACHING 2005 (MAG)
AF7103'RECOVERED IN GOOD CONDITION.
*** retrieval complete.
Elapsed Time = 00:00:00
```

DESCRIPTION COUNTY : OSCEOLA STATE ! FL DESIGNATION: 0 S C 1 AREA: ALTASI APPROX LON: 0811031W QUAD: N27081114 APPROX LAT: 275938N SECTION: 1 TOWNSHIP: 29 RANGE: 31 FROM THE CITY OR TOWN OF SAINT CLOUD LOCATED 20.4 MI SE CHIEF OF PARTY: YEAR: 1983 MONUMENT BY: FL DNR CHIEF OF PARTY: PWR YEAR: 1983 RECOVERY BY:S FL WATER MGMT DIST SETTING CLASSIFICATION: CONCRETE, POST STAMPING: 0 S C 1 BXM DISK TYPE : BENCH MARK DISK MONUMENTATION: SURVEY DISK OTHER CONTROL: CONDITION OF MARK: FROM THE INTERSECTION OF U.S. HIGHWAY 192 AND COUNTY HIGHWAY 523 IN SAINT CLOUD GO SOUTH ALONG COUNTY HIGHWAY 523 (CANDE CREEK ROAD) 19.9 MILES TO THE STATION LOCATION STATION IS LOCATED 26.0 FEET SOUTHEAST OF THE INTERSECTION OF JOE OVERSTREET ROAD 48.0 FEET * SOUTHWEST OF THE CENTERLINE OF HIGHWAY 523 8.1 FEET SOUTHEAST OF A STOP SIGN/STREET SIGN AND 2.0 FEET EAST OF A CORNER FENCE POST WITH A WITNESS SIGN ATTACHED A DISK SET INTO THE TOP OF A CONCRETE POST RECESSED 3 INCHES 2.00 FEET E FROM A WITNESS POST 1.20 MILES S OF BENCH MARK SFWMD LINE 9 0 S 63 BM

MAN

ADJUSTMENT OF LEVELS #5

PROJECT OSCEOLA CO. WELLS FIELD BOOK OSC. CO. WELLS ORDER ______ ADJ. BY P.L. H

LINE FROM JACKSON TO BM.748-051-01 PARTY CHIEF P. RANKIN COUNTY OSCEOLA DATE 5-3-79

(LINE #9)

		NE TE	SUM ROD	READINGS	1	MEAN		VATIO			REMARKS		
SECTION	DISTANCE	ORB	BACK+	FWD	ELEV.	DIFF.	UNADI.	CORR.	ADV.		K ENIA!		
U.S.C. & G.S. JACKSON									70.065	050,00.0	WELLS #	5 P	5.1
	7920'	T	104.22	99.39	+4.83			1	ľ				
		B	99.22	104.09	-4.87								
OS · 59						+4.85	74.915			11 11	14 17	ť.	4
	6336	F	85.21	84.777	+. 433								
		B	78.64	79.11	470								
05.60						+.451	75.366			1. 14,			10
	5808'	-	70.66	70.38	+.28								
		B	68.38	68.66	28								
05.61						+.28	75.646				ii ii	٠,	16
	4224	F	50.62	48.53	+2.09								
		B	49.65	51.74	- 2.09								
05.61.A					,	+2.09	77.736			14, 144		11	21
	2640	14	33.94	34.384	444								
		B	34.65	34.21	+.440								
05-62						442	77.294			je	to tr	11	22
	3696	F	42.04	47.127	-5.087								
		В	47.17	42.10	+5.07								
05-63						-5.078	72.216			11. 1.	ı, tı	٠,	27
	5392	F	92.97.	86.80	+6.17								
		3	87. []		-6.165	+6.167	78.383						
M 748-051-01										16 16		.,	32

PROJECT UPPE Line St. CLO	UD TO KR-106	8 8	ES (UNE 10)		DATE= 83/11 P. RANKIN	(P.C.)
BENCH Mark	DIST. (METERS)		DIFF. ELEV. (METERS)	MEAN DIFF. ELEV.	UNADJ. ELEV.	ADJ. ELEV. (METERS
ST. CLOUD						22.8609
	1559.80	F	.47937			
Sa. (Sa.	1563.60	В	47860	. 47898	6.00	
DS-82	1.6				23.33988	23.3411
	1036.60	F	60605			
	1034.60	В	.60750	60678		
05-83	2.6				22.73311	22.7352
	1554.00	F	1.40575			
			-1.40280	1.40428		24
75-106	4.1			20000000	24.13738	24.1408
	1564.80	F	74095			
	1550.80		.74090	74093		
75-107	5.7	700	7 11777		23.39646	23.4011
	1838.80	F	.07845			
	1822.20			.07778		
05-108	7.5		10001123	2.50 (1.55	23.47423	23.4804
	1601.60	F	-1.84860			
	1599.60		1.85310	-1.85085		
5-109	9.1		4 14 2 5 5 5	-53 55 55 5	21.62338	21.6309
	1513.80	F	.57665			
A 110	1516.60		57340	.57502		
35-110	10.7			102 (12.2)	22.19841	22.2072
	1963.20	F	33175			
	1565.60	\$20 (School State)	.33305	33240		
S-112	12.2			12,75215	21.86601	21.8760
X	2194.20	F	1.05765			
	2195.60		-1.05095	1.05430		
05-113	14.4		2 2 2 2 1 1 1 1 1	3 43 543 5	22.92031	22.9322
	1859.20	F	-2.09070			
	1859.40		2.09380	-2.09225		
35-114	16.3		4141522	22.22.22.2	20.82806	20.8414
					4.	

MARK 	(METERS)	DIFF. ELEV. (METERS)	DIFF.	UNADJ. ELEV.	ADJ.
OS-115	1636 90 5				(METERS)
10.000	1034.00 F	.88855			
05-116	1634.40 B 17.9	88255	.88555	21.71361	21.72839
05-116	1570.40 F				
	1550.20 B 19.5	.55820	55765	21.15596	21.17203
05-117	1058.00 F 1056.40 B 20.5	.10900 10900	• 10900	21.26496	21.28190
10 0 4 7 1		43925		22020170	
KR-1067	1750.80 B	.44150	44038	20.82458	20.84297
		-1.72495 1.72660	-1.72578		
05-118	24.0	771007	37.37	19.09881	19.11864
243	1192.60 8	.15605 15480	.15543		
05-119	25.2			19.25423	19.27505
KR-1068	1578.60 F 1579.00 B 26.8	.20710 20800	.20755	19.46178	19.48390

PROJECT UPPER Line Pol-16 t	O OS-127	AKES LINE 7)		DATE= 83/11 P. RANKIN	
				P. KANKIN	(P.C.)
BENCH MARK	DIST. (METERS)	ELEV.	MEAN Diff. Elev.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
CL-16					19.64500
43,000				¥	17.64300
	1325.20 (77/05		9
0-129-59	1.3	//606	.77495	20.41995	20 41040
	***			20.41995	20.41868
	1272.60				故
	1272.40	2.37732	-2.37667		4
APZ-PST-D	2.6			18.04328	18.04079
	1346.40	30541			
	1346.20		30791		
C-T29-S4	3.9			17.73537	17.73159
	1398.00	45081			163
	1396.20		45071		
0-128-533	5.3		. 13011	17.28466	17.27954
	309 00 1	10707			
	798.00 F		10744		
0-T28-S32 V	6.1	12/43	.12764	17.41230	17.40642
- 121 - 121			*	17.41230	17.40042
	1207.00 F				
. 1 - 1 - 1 - 1 - 1 - 1	1208.40	.59483	59512		
0-128-529	7.3			16.81717	16.81014
	1715.40	.34495			
	1714-00		.34459		
0-T28-S29A	9.1			17.16176	17.15308
	1715.00	.09347			
***	1708.50	Management of Management	.09428		
C-128-530-	10.8			17.25604	17.24573
	1847 40 5	T. C. C.		200 30000000000000000000000000000000000	
	1867.40 F		.16416		
G-T28-524	12.6	10372	.10410	17.42020	17.40809
	1411.20 6				
	1411.20	.85040	65145		
G-T28-S18	14.1			16.56874	16.55529

AARK	PROJECT UPPER Line Pul-16 T		AK	E S.		DATE= 83/11 P. RANKIN	/04 (P.C.)
1658.60 8 .24780 24853 16.32022 16.30517 1500.60 5 2.61910 1504.60 8 -2.62280 2.62095 18.94117 18.92468 1028.40 5 20900 1063.40 8 .20645 20772 18.73344 18.71996 1314.20 5 1.15610 1.15745 19.89089 19.87215 150.20 5 .38210 813.80 8 38555 .38383 20.27472 20.25519 1636.00 5 .25000 138.60 8 25580 .25290 20.52762 20.50653 1631.90 5 -1.35392 1632.50 8 1.35210 -1.35301 1632.50 8 1.35210 -1.35301 19.17461 19.15195 1632.50 8 1.95926 -1.95896 17.21565 17.19205 1396.90 5 -49713 1396.90 8 .49469 49591 26.071974 16.69480 25 1411.80 5 .35966 .35966 1412.70 8 .35966	BENCH MARK			ELEV.	DIFF.		ELEV.
1658.60 8 .24780 24853 16.32022 16.30517 1500.60 5 2.61910 1504.60 8 -2.62280 2.62095 18.94117 18.92468 1028.40 5 20900 1063.40 8 .20645 20772 18.73344 18.71996 1314.20 5 1.15610 1.15745 19.89089 19.87215 150.20 5 .38210 813.80 8 38555 .38383 20.27472 20.25519 1636.00 5 .25000 1.38360 8 25580 .25290 20.52762 20.50653 1631.90 5 -1.35392 1.35210 -1.35301 19.17461 19.15195 100.728-S14 2.37 2.37 19.9896 19.97215 100.728-S14 2.37 1.95865 1.95926 -1.95896 17.21565 17.19205 128-S14 2.37 1.95865 1.95926 -1.95896 17.21565 17.19205 128-S18 2.60 2.39966 3.39966 1.35966 1							
15.7 15.00.60 F 2.61910 1504.60 B -2.62280 2.62095 17.2 1028.40 F20900 1063.40 B .2064520772 18.73344 18.71996 2G-T28-S4A 1314.20 F 1.15610 1315.60 B -1.15880 1.15745 19.6 10.20 F .38210 813.80 B38555 .38383 20.27472 20.25519 2G-T28-S14 2G-T28-S14 1636.00 F .25000 1038.60 B25580 .25290 20.52762 20.50653 2G-T28-S14 23.7 20-T28-S14 23.7 290.00 B 1.95865 1.95926 -1.95896 22-0 1396.90 F49713						1	
1500.80 F 2.61910 1504.60 B -2.6280 2.62095 18.94117 18.92468 17.2 18.92468 1028.40 F 20900 1063.40 B .20645 20772 18.73344 18.71996 1315.60 B -1.15880 1.15745 19.89089 19.87215 19.6 19.6 19.89089 19.87215 19.6 19.8955 .38383 20.27472 20.25519 20.4 20.4 20.4 20.4 20.4 20.50653 20.4 20.50653 2			8	.24760	24853		A second
15C4.60 8 -2.62280 2.62095 18.94117 18.92468 17.2 1028.40 F -2.0900 1063.40 8 .20645 20772 18.73344 18.71596 1314.20 F 1.15610 1315.60 8 -1.15880 1.15745 19.89089 19.87215 19.6 19.6 19.8595 .38383 20.27472 20.25519 1636.00 F .25000 1038.60 8 -2.5580 .25290 20.52762 20.50653 22.0 22.0 20.52762 20.50653 22.0 22.0 20.52762 20.50653 23.7	U-128-517	15.7				16.32022	16.30517
15G4.60 8 -2.62280 2.62095 18.94117 18.92468 17.2 1028.40 F -2.0900 1063.40 8 .20645 20772 18.73344 18.71596 18.92468 18.3 18.73344 18.71596 18.92468 18.3 18.73344 18.71596 18.92468 19.87215 19.89089 19.87215 19.890		1500.80	F	2.61910			
17.2 18.94117 18.92468 1028.40 F20900 1063.40 B .2064520772 18.73344 18.71596 1314.20 F 1.15610 1315.60 B -1.15880 1.15745 19.6 19.6 19.89089 19.87215 810.20 F .38210 813.80 B38555 .38383 20.27472 20.25519 1636.00 F .25000 1038.60 B25580 .25290 22.0 20.52762 20.50653 1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 23.1 19.17461 19.15195 24.1 23.2 19.60 19.95926 -1.95896 25.1 2396.90 B .4946949591 26.1 28.518 26.0 1411.80 F .35966 25.1 1411.80 F .35966 .35966		1504.60			2.62095		
1063.40 B .20645 20772 18.73344 18.71596 1314.20 F 1.15610 1315.60 B -1.15880 1.15745 19.89089 19.87215 19.6 19.89089 19.87215 19.6 19.8955 .38383 20.27472 20.25519 1636.00 F .25000 1038.60 B 25580 .25290 20.52762 20.50653 1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 19.17461 19.15195 19.256 19	C-T28-S8	17.2			7.17.20.33	18.94117	18.92468
1063.40 B .20645 20772 18.73344 18.71596 1314.20 F 1.15610 1315.60 B -1.15880 1.15745 19.89089 19.87215 19.6 19.89089 19.87215 19.6 19.8955 .38383 20.27472 20.25519 1636.00 F .25000 1038.60 B 25580 .25290 20.52762 20.50653 1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 19.17461 19.15195 19.256 19		1028-40	6	- 20900			
18.71596 1314.20 F 1.15610 1315.60 B -1.15880 1.15745 19.89089 19.87215 810.20 F .38210 813.80 B38555 .38383 20.27472 20.25519 1636.00 F .25000 1638.60 B25580 .25290 22.0 20.52762 20.50653 1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 16-7128-S144 23.3 19.17461 19.15195 19-728-S144 23.3 19.95865 19-728-S145 23.3 19.95865 19-728-S146 23.3 19.95865 19-728-S146 23.3 19.95865 19-728-S147 23.3 19.95865 19-728-S148 23.3 19.95865 19-728-S148 23.3 19.95865 19-728-S13 1396.90 B .49713 1396.90 F49713 1396.90 F49713 1396.90 B .4946949591 16.71974 16.69480 1411.80 F .35966 1412.70 B35966 .35966			4		20772		- A
1314.20 F	G-T28-S4A		•			18.73344	18.71596
1315.60 8 -1.15880 1.15745 19.6 19.6 19.87215 810.20 F .38210 813.80 838555 .38383 20.27472 20.25519 1636.00 F .25000 1638.60 825580 .25290 20.52762 20.50653 1631.90 F -1.35392 1632.50 8 1.35210 -1.35301 23.7 19.17461 19.15195 10-728-S14A 23.7 19.17461 19.15195 290.00 F .49713 1396.90 F .49713 1396.90 B .4946949591 25 1396.90 B .4946949591 26 1411.80 F .35966 1412.70 B .35966 .35966	2. 7.20.00.00					1055	10.115.0
19.6 19.89089 19.87215 810.20 F .38210 813.80 838555 .38383 20.27472 20.25519 1636.00 F .25000 1638.60 825580 .25290 22.0 20.52762 20.50653 1631.90 F -1.35392 1632.50 8 1.35210 -1.35301 23.7 19.17461 19.15195 25 1396.90 F .49713 1396.90 B .4946949591 26 1412.70 B35966 1411.80 F .35966 1412.70 B35966 35966		1314.20	F	1.15610			× 2°
810.20 F .38210 813.80 838555 .38383 20.27472 20.25519 1636.00 F .25000 1638.60 825580 .25290 22.0 20.52762 20.50653 1631.90 F -1.35392 1632.50 8 1.35210 -1.35301 1632.50 8 1.35210 -1.35301 23.7 19.17461 19.15195 990.00 F 1.95865 1.95926 -1.95896 17.21565 17.19205 25 1396.90 8 .4946949591 26 1411.80 F .35966 1411.80 F .35966 1412.70 835966	S		В	-1.15880	1.15745		
813.80 838555 .38383 20.27472 20.25519 1636.00 F .25000 1638.60 825580 .25290 20.52762 20.50653 1631.90 F -1.35392 1632.50 8 1.35210 -1.35301 23.7 19.17461 19.15195 20.728-\$14A 23.7 19.17461 19.15195 20.728-\$13 20.27472 20.25519 20.52762 20.50653 20.52762 20.50653 20.728-\$14A 23.7 20.728-\$14A 23.7 20.728-\$14A 20.72580 20.728-\$14A 20.7280 20.7280 20.7280 20.7280 20.7280 20.7280 20.7280 20.7280 20.7280 20.72800 20.72800 20.72800 20.7	C-128-59 Y	19.6				19.89089	19.87215
813.80 838555 .38383 20.27472 20.25519 1636.00 F .25000 1638.60 825580 .25290 20.52762 20.50653 1631.90 F -1.35392 1632.50 8 1.35210 -1.35301 23.7 19.17461 19.15195 20.728-\$14A 23.7 19.17461 19.15195 20.728-\$13 20.27472 20.25519 20.52762 20.50653 20.52762 20.50653 20.728-\$14A 23.7 20.728-\$14A 23.7 20.728-\$14A 20.72580 20.728-\$14A 20.7280 20.7280 20.7280 20.7280 20.7280 20.7280 20.7280 20.7280 20.7280 20.72800 20.72800 20.72800 20.7		810.20	F	.38210			
20.27472 20.25519 1636.00 F .25000 1638.60 B25580 .25290 20.52762 20.50653 1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 23.7 19.17461 19.15195 20.728-\$14A 23.7 20.728-\$14A 2					-38383		
1638.60 B25580 .25290 20.52762 20.50653 1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 19.17461 19.15195 20.52762 20.50653 10.52762 20.50653	0-T28-S10 Y		7	1123327	17.777	20.27472	20.25519
1638.60 B25580 .25290 20.52762 20.50653 1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 19.17461 19.15195 20.52762 20.50653 10.52762 20.50653		1424 00					
22.0 20.52762 20.50653 1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 23.7 19.17461 19.15195 20.52762 20.50653 19.17461 19.15195 20.52762 20.50653 19.17461 19.15195 20.52762 20.50653 19.17461 19.15195 20.52762 20.50653 19.17461 19.15195 20.52762 20.50653 19.17461 19.15195 20.52762 20.50653 19.17461 19.15195 20.52762 20.50653 19.17461 19.15195 20.52762 20.50653 19.17461 19.15195 17.21565 17.19205 20.52762 20.50653					05000		
1631.90 F -1.35392 1632.50 B 1.35210 -1.35301 23.7 19.17461 19.15195 290.60 B 1.95865 990.60 B 1.95926 -1.95896 17.21565 17.19205 25 1396.90 F49713 1396.90 B .4946949591 26 1411.80 F .35966 1411.80 F .35966 1412.70 B35966	D-T28-514		•	25580	.25290	20 52742	20 50452
1632.50 B 1.35210 -1.35301 19.17461 19.15195 23.7 19.95865 990.60 B 1.95926 -1.95896 17.21565 17.19205 25 1396.90 F49713 1396.90 B .4946949591 26.0 1411.80 F .35966 1412.70 B35966 .35966	. ,	22.0				20.52762	20.50653
23.7 990.00 B 1.95865 990.60 B 1.95926 -1.95896 17.21565 17.19205 1396.90 F49713 1396.90 B .4946949591 26.0 16.71974 16.69480 1411.80 F .35966 1412.70 B35966 .35966		1631.90	F	-1.35392			
990.00 B 1.95865 990.60 B 1.95926 -1.95896 17.21565 17.19205 1396.90 F49713 1396.90 B .4946949591 26.0 16.71974 16.69480 1411.80 F .35966 1412.70 B35966 .35966		1632.50	8	1.35210	-1.35301		
990.60 L 1.95926 -1.95896 24.3 17.21565 17.19205 1396.90 F49713 1396.90 B .4946949591 26.0 16.71974 16.69480 1411.80 F .35966 1412.70 B35966 .35966	C-T28-514A	23.1				19.17461	19.15195
990.60 L 1.95926 -1.95896 24.3 17.21565 17.19205 1396.90 F49713 1396.90 B .4946949591 26.0 16.71974 16.69480 1411.80 F .35966 1412.70 B35966 .35966	*	ODO AM	6	11 05845			
17.21565 17.19205 1396.90 F49713 1396.90 B .4946949591 26-T26-S18 26.0 16.71974 16.69480 1411.80 F .35966 1412.70 B35966 .35966					-1.05804		
1396.90 F49713 1396.90 B .4946949591 26-T26-S18 26.0 16.71974 16.69480 1411.80 F .35966 1412.70 B35966 .35966	C-T28-S13	2.3			2.77074	17-21565	17-19205
1396.90 B .4946949591 26-T26-S18 26.0 16.71974 16.69480 1411.80 F .35966 1412.70 B35966 .35966	No.	- ** The 12		M-L			-, -, -, -, -, -, -, -, -, -, -, -, -, -
1411.80 F .35966 1412.70 B35966 .35966							
1411.80 F .35966 1412.70 B35966 .35966			8	.49469	49591		
25 1412.70 B35966 .35966	×0-T26-S18	26.0				16.71974	16.69480
25 1412.70 B35966 .35966		1411-80	F	.35966			
M-128-S17 27.5	25				. 35066		
	€-128-S17	27.5	-			17.07940	17.05311

PROJECT UPPE LINE POL-16			DATE= 83/11/04 P. RANKIN (P.C.			
BENCH MARK	DIST. (METERS))	Olff. ELEV. (METERS)	DIFF.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
<i>o</i> S	1533.10	F	-1.10185			
PC-128-58	1533.40	8	1.10155	-1.10170	15.97770	15.94994
	692.50	F	.54803			
PU-128-GL-1	691.60	8	54895	.54849	16.52619	16.49777
	12/2/2/2	_	10043		20052027	2011
	1484.70	8	.10942 11278	.11110		67 X.40 8
PO-T27-GL-2	31.2				16.63729	16.6074
			.19477			3
DS-127-S36	1097.30	В	19660	.19569	16.83298	16.8020
77.474.775	17.72.9		4-11-22		2012220	2447727
	1772.40	A	1.07534	1.07626		
DS-T27-S30	34.0		2.0.,2.	1101020	17.90923	17.8766
			-1.35789			
05-127-S30A	1082.00	В	1.35636	-1.35712	16.55211	16.5184
	1, 27, 13,		120			
	1180.20	F	.32583 32827	.32705		
05-127	36.3				16.87916	16.8444

	CHAIN OF O KLS-30W-	44 (JNE 6)		DATE= 83/11/04 P. RANKIN (P.C.)				
BENCH MARK	DIST. (METERS:)	DIFF. ELEV. METERS)	MEAN Diff. Elev.	UNADJ. ELEV.	ADJ. ELEV. (METERS)			
POL-16									
		5			3	19.64500			
	1801.80		.21187		·				
PC-9-SFWMD	1818.20	В	21019	.21103		8			
3	1.0				19.85603	19.85673			
	1972.80	F	32709			327.47.77			
	1968.60		.32709	- 23047		, i			
P0-10-SFWMD	3.8	7	.32,403	32847	10				
					19.52756	19.52901			
	1160.80		.23312						
(LS-29W-13A	1160.80	8	23222	.23267					
(C3-29N-13A	4.9			V/0.8700	19.76023	19.76213			
	1267 20	4	. on 21 or 250 c			17.70233			
	1367.20		78987	4000					
LS-294-138	6.3	0	.79040	79013					
4.5					18.97010	18.97252			
	1332.60	F -	2.13411			1,400,17,03,5			
CALCES - 1000	1330.60		2.13402	-2.13407					
LS-29W-19A	7.6	7		-2.13407	14 62400	44 50066			
					16.83603	16.83897			
	1282.40		47519						
LS-296-20A	1266.20	8	.47644	47582					
LJ ZJN-ZUA	8.9				16.36021	16.36364			
	564.00 F					-0.30304			
	590.20 8		-23784	22233					
LS-29W-20C	· SANTAGE SANTAGE		23890	.23837	Sur Albana				
			4		16.59858	16.60223			
A Pro	102.40		.11267						
			11024	.11145					
LS-294-198	10.6/		W	75	16.71003	14 21114			
					20111003	16.71412			
	491.60 F	NAME OF TAXABLE PARTY.	.74086						
	489.40 B	/ E. I. O.	74037	.74062					
S-294-30A	1 1 1 1				17.45065	17.45492			
S-29H-30A	11.1					#107J776			
LS-29H-30A			14622			11.43492			
	701.40 F		1.16632	1010220		17.43492			
A0E-WPS-2.			1.16632 1.16760	1.16796	18.61861	18.62315			

LINE PUL-16 T	CHAIN OF	-4A	** · ·		DATE= 83/11/04 P. RANKIN (P.C.)		
	4.		PAULTU	(P.C.)			
BENCH. MARK	DIST. (METERS	5)	DIFF. ELEV. (METERS)	MEAN DIFF. ELEV.	UNADJ. ELEV.	ADJ. ELEV. (METERS)	
9	2195.80) F	-2.64297			10000	
14-730-02 50-	2195.80	В	2.64376	-2.64336			
16-728-03 DOT	14.0				15.97524	15.98063	
	1276.60	_	****		7.3.1.5.7	13.46063	
	1272.80		.71141 70858	4.724			
(LS-29W-28A	15.3	10	10038	.71000		7.11.10	
					16.68524	16.69112	
	842.60		06726			100	
LS-29W-33A	839.20	B	.06760	06743		1	
LS 27H-33A	16.1			A	16.61781	16.62401	
•	454.60	-	.56690				
	450.40	В	56803	E		**	
R-KEEN-USE	10.6	300	.50003	•56747	7201122		
					17.18528	17.19166	
	1261.00		15744				
LS-30W-3A	1266.80	8	.15484	15614			
	17.8				17.02914	17.03600	
	1106.80	F	26246		ACLES SERVICES		
	1106.80	8	.26320	26283			
LS-JOW-4A	18.9	_		20203	16.76631		
					10.10031	16.77360	

PROJECT UPPE LINE KR-1068	R CHAIN OF TO P-63 (المرك			DATE = 83/11/07 P. RANKIN (P.C.		
BENCH. MARK	DIST. (METERS	,	DIFF. ELEV. (METERS)	MEAN DIFF. ELEV.	UNADJ. ELEV.	ADJ. ELEV. (METERS)	
KR-1068						10 /000	
	1526.60	-	1011111			19.48390	
	1527.40		-1.15469	2.02515			
05-144	1.5	В	1.15560	-1.15515	College Street		
	/ 555				18.32876	18.32933	
	1539.80		1.44297				
JS-145	1537.40	В	-1.44480	1.44388		2 2	
33-145	3.1				19.77264	10 777	
	1542 00	2			17011204	19.77380	
	1563.80 1561.80	F	•72837			*	
JS-146	4.6	В	72653	.72745		- T	
					20.50009	20.50183	
	1596.60	F	.85693			12 2 2 1 1 1 1	
	1606.80	В	85187	.85440			
15-147	6.2		19334754	.03440	21.35449	1 22 22 22	
		J.			21.35449	21.35684	
	1713.80		53457				
5-148	1713.80	В	.53186	53321			
	7.9				20.82127	20.82427	
	1871.00	F	1.24035			77777	
\$ 75.50	1869.40		-1.24190	1.24112			
S-149	9.8	170		1.24112	22 24 24 2	62.37.57	
	10 22 17 755				22.06240	22.06610	
	773.60	F	05400				
5-63	774.20	В	.05370	05385			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.6				22.00855	22.01254	
160 mg	1875 60		1.32245				
	L875 80		-1.32169	1 2222			
SC-1 (2945)	- agy 12.5 M		1.32,04	1.32207			
100					23.33062	23.33532	
	1233.60	- Same	27385	Chillian	P. V. MARINE		
944 OS61	1226.80	3 millionia	. 27426	27406			
1. 0301	13.7		4 6 7 7 7 7 7	A. 31335	23.05656	23.06173	
	1746.20 F		100				
	1747.20		18730	an Nakata			
943	15.4		.18680	18705	42 12 22		
	a 34.5%				22.86951	22.87534	

PROJECT UPPER LINE KR-1068		KE2		DATE = 83/11 P. RANKIN	/07 (P.C.)
BENCH MARK	DIST. (MEIERS)	DIFF. ELEV. (METERS)	ME AN DIFF. ELEV.	UNADJ. ELEV.	ADJ. ELEV. (METERS
	1939.60 F 1935.00 B	03455	22125		
2942	17.4	.03536	03495	22.83456	22.8411
	7.77			22.03430	22.0411
	1437.20 F				
2941	1434.20 B 18.8	.89921	90015	21 22 3	122 . 300.50
	10.0			21.93441	21.9415
	1146.80 F			4	
	1148.20 B	.59916	59826		
JACKSON (2940)	20.0			21.33615	21.3436
	750.20 F	.36926			4
	749.80 B		.36926		15 590
2939	20.7			21.70541	21.7132
	074 40 5				
	876.60 F 877.80 B		28253		
2938	21.6	.20103	20233	21.42287	21.4310
				220,72201	21.4310
	2059.80 F		Englished		
2937	2056.60 B 23.6	.60014	60140		
- /3/	23.0			20.82147	20.8303
	1228.20 F	-1.99848			
2024	1232.80 B	1.99757	-1.99802		
2936	24.9			18.82345	18.8328
	2105.60 F	26946			
	2106.60 B		26565	1.75.4127.5.4	
2935	27.0		127122	18.55780	18.5679
	1020 40 5				
	1938-40 F	. 31703	.31808		
2933	28.9	31913	•31000	18.87588	18.8867
	and the second			10101300	10.0007
		1.89598			
2930 (OS-27-6)	1300:80 B	1.89460	-1.89529	14 00000	
2,20 (00 2. 0)	30.4			16.98059	16.9920
			ALC: THE TO		
	1. An	COMPUTATION	OF LEVELS		
PROJECT UPPER		KES .		DATE = 83/11	/07
LINE KR-1068		T 10 10 10 10 10 10 10 10 10 10 10 10 10		P. RANKIN	
BENCH	DIST.	DIFF.	MEAN		
200911	01314	DIFF.	MEAN	UNADJ.	ADJ.

TAKK .	(MEIERS)	ELEV. (METERS)	DIFF. ELEV.	ELEV.	ELEV. (METERS)
	1346.00 F	•97496			
A. C.	1347.00 B	97752	.97624		
2952 (OS-27-5)	31.8	de marina.	******	17.95683	17.96880
		1			
	1729.20 F	23876			
2995 (OS-27-4)	1729.60 B 33.5	.23800	23838		25 252 22
(03-27-4)	33.0			17.71845	17.73108
	1887.00 F	90470			
	1887.00 B	.90200	90335		
2996 (OS-27-3)	35.4			16.81510	16.82844
	1657.20 F	.61209			
	1660.40 B		.61509		
2998 (OS-27-2)	37.0		.01337	17.43018	17.44415
	1528.40 F	.01705		8	
	1527.00 B	02048	.01876		
05-27-1 (2997)	38.6	.02046	.01070	17.44895	17.46349
					20.5 (8) (2.5)
	904.20 F		1 11.11		
3042	910.20 B 39.5	-5.02049	5.02122	00 / 7017	
3042	39.3			22.47017	22.48505
	180.60 F	.01011			
	180.00 B	00992	.01002		. 2
3044	39.7	V 4 6 4 5 6 5	70,30,02	22.48018	22.49513
	640.00 F	-4.74011			
	645.60 B	4.74099	-4.74055		
3045	40.3			17.73963	17.75483
	487.20 F	-1.56043			
	490.00 B	1.56179	-1.56111		
F-63 (3046)	40.8	1.0017	1.70111	16.17852	16.19390

ACCEPTED ERROR DE CLOSURE IS 6 X SOR. ROOT (KM) = 38.32018 MM

	01ST. (METERS) 339.60 841.00	F	ELEV.	MEAN DIFF. ELEV.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
KLS-30W-4A	841.00		.05937			
3009	841.00		.05937			16.77360
3009	841.00					
3009		-	06133	.06035		,
				.00033	16.83395	16.83427
	874.40		.07912			
	878.00	8	08092	.08002		
3068	1.7				16.91397	16.91462
	1005.00	-	.11663			
	1005.20	100	11816	11700		
3067	2.7	В	11010	.11739		12 12 22 2
3007	2.1				17.03136	17.03240
	864.00	F	21596			
	844.00	7.1	.21449	21522		
3066	3.6	4	797.71		16.81614	16.81750
			0.00			
	1062.80		.44531			
p 27-10	1025.40	В	44671	.44601		
3005	4.6				17.26215	17.26390
	598.60	F	37716			
	613.60		.37795	37756		
2982	5.2	•		.31130	16.88459	16.88658
					177147477	7707577
		F	.17863			
	755.40	В	17849	.17856		
3064	6.0				17.06315	17.06543
	838.20		.19150			
	840.40			10100		
3063	6.8	В	19229	.19190	17.25505	17.25764
					225505	1, 12, 104
	873.60	F	31242			
	885.40	B	.31395	31319		
3002	7.7		7.7.7.7		16.94186	16.94479
			علقاله الأرثى			
	848.80		.36801	442 024.6		
2.6 4	843.20	В	30634	.36718	12	Land Continue
3601	8.5				17.30904	17.31229

PROJECT CPP LINE KLS-30	ER CHAIN OF I	DATE = 83/11/08 DAR GEODETIC LEVEL (7.6.)				
BENCH MARK	DIST. (METERS		DIFF. ELEV. (METERS)	MEAN DIFF. ELEV.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
			66302			
504 1	648.00	8	.66215	66259	4 5 100 3 0 0	A Commission of
3063	9.2				16.64645	16.64995
	470.00	F	.10029			
			09995	.10012		
3059	9.6			277.100	16.74657	16.75021
	695.80	E	.26772			
	096.00			.26782		
3058	10.3		20172	.20102	17.01439	17.01829
	2015				11.01434	17.01029
3	679.20	F	17911			
	681.40	8	.17929	17920		
3057	10.9				16.83519	16.83935
	1201 00	ė	.27679			
	1210.40		27792	.27736		
3056	12.1		-121172	.21130	17.11255	17.11716
					11.11233	11.11111
	810.00	F	.59413			
	804.00			.59435		
3050	13.0				17.70690	17.71182
	11.77 00	-	-1.32491			
	1184.60		1.32363	-1.32427		
3054	14.1		1.32363	-1.32421	16.38263	16.38800
757					10.30203	10.30000
	858.80	F.	.75494			
	858.20	B	75444	.75469		
3053	15.0		3. Co - 1. Co		17.13732	17.14302
		2	4 32 24 3			
	938.90		62740	40477		
3052	15.9	D	.62613	62677	16.51055	16.51661
7 7 5 7	****				10.51095	16.91001
	906.00	F	15682			
	984.60		.15658	15670		
3001	16.9			100000000000000000000000000000000000000	16.35385	16.36028

PRUJECT UPPER Line KLS-30W-	DATE = 83/11/08 DNR GEODETIC LEVEL(P.C.)				
BENCH MARK	DIST. (METERS)	DIFF. ELEV. (METERS)	MEAN Diff. Elev.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
3 C 5 O	953.40 945.40	7 7 7 7 7 7	.99071	1	V. 20.524a
27.07	17.9 1590.80 (1593.40 (.11956	1734457	17.35136
3048	19.5	38550		17.46413	17.47153
PCL-2 (3047)	1246.60	.38170	38360	17.08053	17.08840



PROJECT ST CLOU Line St Cloud 1	DATE= 84/03/14 P. RANKIN (P.C.)					
BENCH Mark	DIST. (METERS)		DIFF. ELEV. (METERS)	DIFF.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
ST CLUUD 1934						22.86100
	1002.00	F	.33555			
	1002.40		33545	.33550		*
P-59 1971 RESET	1.0	٠	.33545	.33350	23.19650	23.19652
	3243 02	4				
			-4.51395			
20.00	1734.00	8	4.51370	-4.51382	10 TA N 5 T / A	
08-80	2.7			2.52600	18.68267	18.68273
	1762.80	F	1.13465			
	1757.40			1.13553		
US-81	4.5	Ē			19.81820	19.8182
	1770 00	_				
	1770.00		45577 .45927	45750		
CS-150	6.3	0	.43927	45752	19.36068	19.36080
	0.3				17.30000	19.30000
	1778.40	F	7.44930			
	1778.20	B	-7.44612	7.44771		
05-151	8.0				26.80839	26.8085
	1728-40	E	-7.06290			
	1725.20		7.06692	-7.06491		
05-152	9.8		7.00072	-1.00471	19.74348	19.7436
7.347.56.51						2701130
	823.40		60627			
	823.40	В	.60840	60734		
05-153	10.6		*		19.13614	19.1363
	2193.80	F	-1.07490			
			1.07745	-1.07618		
OS-154	12.8	13		2.0.020	18.05997	18.0602
	1202 50	F	13505			
	1292.20		.17585 17525	17666		
OS-155	14.1	0	11525	.17555	18.23552	18.2358
2.4 1 <u>2.5.2</u>						20.2550
	1134.20	1	41528			
EDA 33	1128.60	8	.41430	41479	112 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 3 7 2 3 3 16
					17.82073	17.8210

	CLOUD LEVELS		DATE= 84/03/14		
LINE ST CLO	DD TO KISS.			P. RANKIN	(P.C.)
BENCH	DIST.	DIFF.	MEAN	UNADJ.	ADJ.
MARK	(METERS)	ELEV.	DIFF.	ELEV.	ELEV.
		(METERS)	ELEV.		(METERS)
	578.00 F	3.04322			
191a 131 (V.2)	547.60 B	-3.04270	3.04296		
NGS C-17	15.8			20.86369	20.86400

PROJECT UPPER Line Pol-2 to	DATE = 83/11/10 DNR GEO. LEV. ABS. (P.C.)				
BENCH MARK	DIST. (METERS)		MEAN DIFF. ELEV.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
POL-2 (3047)					17.08840
	1249-60 F	.76776			
	1242.80 B		.76757		*
3084	1.2			17.85597	17.85522
				27636264	711177
		1.91545			
2010	1658.20 B	-1.91675	1.91610	V. 3.4	10000
3085	2.9			19.77207	19.77032
	1403 40 5	12751			
	1405.20 B	.17751 17816	.17783		
3086	4.3	11,010	.17763	19.94990	19.94731
	110			17.74770	19.9473
	817.60 F	.23854			
	816.80 B		.23819		
3087	5.1		177777	20.18809	20.18501
					A SAME SAME
		3.93101			
2.0000	1841.80 B	-3.93337	3.93219		
3088	7.0			24.12028	24.11610
	1762.80 F	2 22125			
	1774.90 B		7.23332		
3089	8.7	-7.23490	1.23332	31.35360	31.34836
				31.33300	31.34030
	1711.00 F	-5.40199			
	1689.60 B		-5.40223		
3090	10.4		0.586.025	25.95138	25.9451
	A	461.004.007.0			
	1802.20 F		A 2 - 5 2 3 C 2 C		
3091	1808.20 B	3.55519	-3.55617		90 00000
2041	12.2			22.39520	22.3878
	1604.00 F	-1.16084			
	1591.20 B		-1.16194		
3092	13.8	2010004		21.23326	21.2249
111.547	22.17				
	1225.80 F	15998			
	1223.80 B	.15772	15885		
3093	15.1			21.07441	

PROJECT UPPER LINE POL-2 TO	CHAIN OF LAN PO-26-2	CES	DATE= 83/11/10 GEO. LEV. ABS.(P.C.		
BENCH MARK	DIST. (METERS)	DIFF. ELEV. (METERS)	MEAN DIFF. ELEV.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
PD-26-2 (2986)	910.20 F 918.40 B 16.0	90161 .90001	90081	20.17360	20.16400

PROJECT UPPER Line PG-26-2 T	GEODETIC LEVEL (P.C.)					
BENCH Mark	DIST. (METERS	,	CIFF. ELÉV. (METERS)	DIFF.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
Pü-26-2 (2986)						20.1640
	173.40	F	. 51646			
	174.00		61670	.81658		0
3094	•2	8	इत्तर प्राव्हें शहर	12/2/22/20	20.98058	20.9804
			7002			
	1418.80		.70366 70272	.70319		
3095	1.0		10212	. 10314	21.68377	21.6828
					21.00311	21.0020
	939.40	F	.65280			
	939.80	В	-65260	.65270		
3096	2.5				22.33647	22.3350
	1059.00	-	-1.91416			
	1065.80		1.91294	-1.91355		
3097	3.6	3			20.42292	20.4208
		r	*****			
	92.40		01075 .01096	01085		
3098	3.7	6	.01040	01085	20.41206	20.4099
	3.5				20.41200	20.4099
	924.20	F	09394			
	918.40	В	.69402	69398		
3099	4.6				15.71808	19.7154
	1715.20	E	.78417			
	1714.40		78284	.78351		
3100	6.3	à	10.00	7,777	20.50159	20.4979
	4.		2000			
	1320.40			6 35767		
3101	7.6		-5.11416	5.11457	25.61616	25.6117
(V) (V)		1.1056			23.01016	23.0117
	1111.00		8.48258			
	1122.40	B .	-8.48087	8.48172		
PGL-14 (2990)	8.7				34.09788	34.0928
	1876.00	F	1.44250			
	1862.40		-1.44613	1.44431		
2991	10.6	1			35.54220	35.5361
						27/27/7

BENCH MARK	DIST. (METERS)		DIFF. ELEV. (METERS)	MEAN Diff. Elev.	UNADJ. ELEV.	ADJ. ELEV. (METERS)
	1162.20		-2.11952			
262	1165.60	В	2.11859	-2.11905		
2992	11.8				33.42314	33.41640
	1381.20	F	.17157			
	1381.20		17254	.17206		
2993	13.2	5	250557	72,200	33.59520	33.58767
	1399.20	F	-2.17022			
		В	2.16796	-2.16909		
2999	14.6	7	2102119	2,20,07	31.42611	31.41777
	1207.80	F	-12.02417			
	1211.80		12.62417	-12.82417		
3107	15.8	71	A-10.00 1 A 1		18.60194	18.59291
	1509.00	F	.28418			
	1511.80		48354	.28386		
3104 POL 15	17.3	7	15000	*20300	18.88580	18.87590
	1856.20	F	.77097			
	1859.80	A	76935	.77016		
PUL-10 (3105)	19.1	<u></u>			19.65596	19.64500