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Identification_Information:
        Citation:
                Citation_Information:
                        Originator: Darren Townsend(ed.)
                        Publication_Date: 20050518
                        Publication_Time: Unknown
                        Title: S.F.W.M.D. Well  HE-884
                        Publication_Information:
                                Publication_Place: 20060130
                                Publisher: None
                        Online_Linkage: darrent@cooner.com
        Description:
                Abstract:
                        South Florida Water Management District
                        HE-884
                Purpose:
                        To establish NAVD 88 and NGVD 29 elevations on the
                        well from nearby, existing benchmarks.  Also, to
                        establish an on-site benchmark.
                Supplemental_Information:
                        ACCOMPANYING DIGITAL FILES
                        HE-884.GEN , CORPSMET95 FIL_
                        HE-884.MET, CORPSMET95 FILE
                        HE-884-2005.DOC , BENCHMARK RECOVERY FORM
                        HE-884.PDF , SCANNED COPIES OF
                        FIELD NOTES,
                        VERTCON CALCULATONS (IF APPLICABLE)
                        HE-884.PPT , POWER POINT FILES OF WELL SITE
                        PICTURES
                        HE884.LST, LEAST SQUARES ADJUSTMENT
        Time_Period_of_Content:
                Time_Period_Information:
                        Range_of_Dates/Times:
                                Beginning_Date: 20050722
                                Ending_Date: 20051204
                Currentness_Reference: Publication Date
        Status:
                Progress: Complete
                Maintenance_and_Update_Frequency: Unknown
        Spatial_Domain:
                Bounding_Coordinates:
                        West_Bounding_Coordinate: -081°04'24.19"
                        East_Bounding_Coordinate: -081°04'24.12"
                        North_Bounding_Coordinate: +26°18'03.28"
                        South_Bounding_Coordinate: +26°18'03.27"
        Keywords:
                Theme:
                        Theme_Keyword_Thesaurus: None
                        Theme_Keyword: Record Survey
                        Theme_Keyword: Well Site
                Place:
                        Place_Keyword_Thesaurus: None
                        Place_Keyword: SFWMD WELL HE-884
                        Place_Keyword: SEC.18, TWP 48 S, RGE 33 E
                        Place_Keyword: HENDRY COUNTY FLORIDA
        Access_Constraints: Well site is located in Big Cypress Seminole
Reservation.
        Use_Constraints: None
        Point_of_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Elvie Ebanks
                                Contact_Organization: South Florida Water Management
```

Darren Townsend
Cooner & Associates

Purpose

Deliverable

Survey Date

District
Contact_Position: Professional Surveyor & Mapper
Contact_Address:
Address_Type: mailing and physical address
Address: 3301 Gun Club Road
City: West Palm Beach
State_or_Province: Florida
Postal_Code: 33406
Country: USA
Contact_Voice_Telephone: (561) 753-2400, Ext. 4717
Contact_Electronic_Mail_Address: eebanks@sfwmd.gov
Hours_of_Service: 8:00 am to 5:00 pm EST
Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report:

Horizontal

The horizontal location of the wells and benchmark was performed using differentially corrected TRIMBLE GPS PATHFINDER PRO XR reciever. The vertical data was collected using a TOPCON DL-101C electronic digital level. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/99.
Elevations are based on NAVD 88.
Logical_Consistency_Report:
Horizontal data was established using differentially corrected GPS signals from U.S. Coast Guard Beacon at Eggmont Key. Vertical data was established using existing NGS benchmarks X535 and W535.
Completeness_Report:

Project Results

WELL SITE
Horizontal location taken at center of pipe for well.
Lat. +26°18'03.28"
Long. -081°04'24.12"
N 715067.88 feet
E 632130.67 feet
Elevation taken on top of PVC pipe for well (cap taken off) at black mark.
20.66 feet (NAVD 88)
22.07 feet (NGVD 29) calculated using 1.41 feet offset value based on NGS NGVD 29 adjustment of CERP vertical network for control point X535.
22.08 feet (NGVD 29) calculated using 1.42 feet offset value based on NGS NGVD 29 adjustment of CERP vertical network for control point W535.
NEW SITE BENCHMARK
HE-884 is a standard SFWMD aluminum disk set in top of a class "C" concrete monument, flush with the ground. A magnet was set on the south side of the monument.
From the intersection of C.R.833 and C.R.835 go south on C.R.833 for 6.0 miles to the Big Cypress Seminole Reservation and Josie Billy Highway. Continue south on Josie Billy Highway for 1.3 miles to the intersection of Josie Billy Highway and W. Boundary Rd. turn west on W. Boundary Highway for 5.3 miles to the mark on the left. The mark is 114 feet southwest bridge abutment and 56.7 feet southeast from centerline W. Boundary
Rd.
Lat. +26°18'03.27"
Long. -081°04'24.19"
N 715066.20 feet
E 632124.42 feet
18.30 feet (NAVD 88)

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                19.71 feet (NGVD 29) calculated using 1.41 feet offset
                value based on NGS NGVD 29 adjustment of CERP
                vertical network for control point X535.
                19.72 feet (NGVD 29) calculated using 1.42 feet offset
                value based on NGS NGVD 29 adjustment of CERP
                vertical network for control point W535.
        Positional_Accuracy:
                Horizontal_Positional_Accuracy:
                        Horizontal_Positional_Accuracy_Report:
                                The horizontal positions of the well and set
benchmark
                                were established with differentially corrected GPS
signals
                                from U.S. Coast Guard Beacon at Eggmont Key.
                        Quantitative_Horizontal_Positional_Accuracy_Assessment:
                                Horizontal_Positional_Accuracy_Value: sub meter
                                Horizontal_Positional_Accuracy_Explanation: The
intended  positional accuracy for this survey is sub meter.
                Vertical_Positional_Accuracy:
Level Line                      Vertical_Positional_Accuracy_Report:
                                A level line was run originating on NGS benchmark
X535
                                with an NAVD 88 elevation running through new site
                                benchmark HE-884 and terminating on NGS benchmark
                                W535 in accordance with Florida Minimum
                                Technical
                                Standards (Chapter 61G17-6).  The pipe for the well
site
                                was then elevated by a level line
                                originating on new site benchmark HE-884 with an
newly
                                established NAVD 88 elevation running through the
top of
                                pipe and terminating on new site
                                benchmark HE-884 in accordance with Florida Minimum
                                Technical Standards (Chapter 61G17-6).
                        Quantitative_Vertical_Positional_Accuracy_Assessment:
                                Vertical_Positional_Accuracy_Value: 0.060 ft
                                Vertical_Positional_Accuracy_Explanation: NAVD 88
level run to set BM, 0.060 ft closure in 76918.6 ft, max. allowed 0.1145 ft (MTS)
                        Quantitative_Vertical_Positional_Accuracy_Assessment:
                                Vertical_Positional_Accuracy_Value: 0.001 ft
                                Vertical_Positional_Accuracy_Explanation: NAVD 88
level run from set BM to well
        Lineage:
                Process_Step:
                        Process_Description:
                                The horizontal work was performed using a Trimble
GPS
                                Pathfinder Pro XR reciever using U.S. Coast Guard
                                beacon at Eggmont Key. The level line was performed
                                using a Topcon DL-101C electronic digital level.
                        Process_Date: 20060130
Metadata_Reference_Information:
        Metadata_Date: 20060130
        Metadata_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Darren Townsend
                                Contact_Organization: Cooner & Associates, Inc.
                        Contact_Position: Project Surveyor
                        Contact_Address:
                                Address_Type: mailing and physical address
```

Address: 5670 Zip Drive
City: Fort Myers
State_or_Province: Florida
Postal_Code: 33905
Country: USA
Contact_Voice_Telephone: (239) 277-0722
Contact_Facsimile_Telephone: (239) 277-7179
Contact_Electronic_Mail_Address: darrent@cooner.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: 19980601

HE -884

- COONER & ASSOCIATES, INC.
- Date of photo: September 1, 2005
- View: Looking North at BM

HE -884

- COONER & ASSOCIATES, INC.
- Date of photo: September 1, 2005
- View: Looking at Elevation mark on well

HE -884

- COONER & ASSOCIATES, INC.
- Date of photo: September 21, 2005
- View: Looking at top view of BM 884

HE -884

- COONER & ASSOCIATES, INC.
- Date of photo: September 1, 2005
- View: Looking North at well

1-13-05

HE 884

TOPCON DL-101C

HE 55
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC:
3.275	235.66	22.915			19.64' NAVD88	FND CON MON W/ USACOE BRASS DISK STAMPED "X535 2001"
6.159	224.18	23.288	5.786	204.42	17.129	TP1 (SET NAIL)
5.401	217.30	22.977	5.712	207.28	17.576	TP2 (SET NAIL)
6.122	217.72	23.256	5.843	211.40	17.134	TP3 (SET NAIL)
5.347	213.80	22.630	5.973	207.30	17.283	TP4 (SET NAIL)
6.189	239.82	22.759	6.06	210.40	16.570	TP5 (SET NAIL)

7-13-05 HE 884

HE. 56
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
5.363	228.94	22.590	5.532	205.98	17.227	TP 6 (SET NAIL)
6.021	228.72	23.642	4.969	216.64	17.621	TP 7 (SET NAIL)
5.143	233.88	23.514	5.271	222.94	18.371	TP 8 (SET NAIL)
5.503	222.02	22.964	6.053	220.08	17.461	TP 9 (SET NAIL)
6.048	220.98	23.646	5.366	213.90	17.598	TP 10 (SET NAIL)
5.220	237.20	22.935	5.931	224.62	17.715	TP 11 (SET NAIL)

9-13-05 HE-884

HE 57
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
6.116	236.64	23.073	5.978	223.12	16.957	TP 12 (SET NAIL)
5.970	241.10	23.469	5.574	222.42	17.499	TP 13 (SET NAIL)
5.521	243.18	23.105	5.885	219.40	17.584	TP 14 (SET NAIL)
5.955	213.22	24.176	4.884	242.40	18.221	TP 15 (SET NAIL)
4.724	229.62	23.373	5.527	218.56	18.649	TP 16 HE-884-1 (SET IR)
					18.65'	Adjusted
6.353	214.26	23.663	6.063	214.38	17.310	TP 17 (SET NAIL)

9-13-05 HE 884

BS	DIST	HI	FS	DIST	EL	DESC.
5.997	191.94	23.753	5.907	233.40	17.756	TP18 (SET NAIL)
5.673	225.78	23.182	6.244	221.10	17.509	TP 19 (SET NAIL)
6.065	262.96	23.206	6.041	211.24	17.141	TP 20 (SET NAIL)
5.496	221.46	22.972	5.730	221.30	17.476	TP21 (SET NAIL)
5.311	231.94	22.749	5.534	215.36	17.438	TP22 (SET NAIL)
5.286	253.50	22.895	5.140	232.20	17.609	TP23 (SET NAIL)

HE 58
D. LOOKABILL
M. LOOKABILL

9-13-05

HE-884

HE 59
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
5.570	234.76	22.862	5.603	239.54	17.292	TP 24 (SET NAIL)
5.621	229.20	22.900	5.583	233.14	17.279	~~TP23~~ TP25 HE-884-2 (SET IR)
					17.29'	Adjusted
5.690	235.22	22.828	5.762	231.42	17.138	TP 26 (SET NAIL)
5.944	219.20	23.834	4.938	236.90	17.890	TP 27 (SET NAIL)
6.071	274.94	24.244	5.661	214.02	18.173	TP 28 (SET NAIL)
5.221	230.20	24.457	5.008	228.54	19.236	~~TP 29~~ (SET NAIL)

9-13-05 HE-884

HE 60
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
5.449	211.42	24.651	5.255	217.70	19.202	TP 30 (SET NAIL)
5.491	183.68	25.146	4.996	228.80	19.655	TP 31 (SET NAIL)
5.107	219.02	24.940	5.313	205.84	19.833	TP 32 (SET NAIL)
5.223	235.60	24.648	5.515	226.12	19.425	TP 33 (SET NAIL)
5.130	200.96	24.117	5.661	209.90	18.987	TP 34 (SET NAIL)
5.907	257.16	25.062	4.962	213.66	19.155	TP 35 (SET NAIL)

9-13-05

HE-884

HE 61
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
6.077	204.72	25.754	5.385	232.12	19.677	TP 36 (SET NAIL)
5.449	228.52	25.199	6.004	218.76	19.750	TP 37 HE-884-3 (SET IR)
					19.76' Adjusted	
6.039	228.96	25.404	5.834	227.90	19.365	TP 38 (SET NAIL)
5.541	234.60	24.854	6.091	228.16	19.313	TP 39 (SET NAIL)
5.998	217.16	25.201	5.651	224.44	19.203	TP 40 (SET NAIL)
6.214	264.66	24.756	6.659	225.58	18.542	TP 41 (SET NAIL)

9-13-05 HE-884

HE-62
D.LOOKABILL
M.LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC
5.589	212.44	24.736	5.609	226.54	19.147	TP 42 (SET NAIL)
5.907	198.70	24.972	5.671	223.50	19.065	TP 43 (SET IR)
5.230	150.14	25.318	4.884	214.06	20.088	TP 44 (SET NAIL)
5.294	181.36	24.497	6.115	212.90	19.203	TP 45 (SET NAIL)
5.226	166.28	24.629	5.094	220.78	19.403	TP 46 (SET NAIL)
5.718	200.82	24.448	5.899	220.38	18.730	TP 47 (SET NAIL)

9-14-05

HE-884

HE 63
D.LOOKABILL
M.LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC
5.170	207.12	24.592	5.026	223.60	19.422	TP 48 (SET NAIL)
4.866	212.14	24.201	5.257	229.88	19.335	TP 49 (SET NAIL)
5.750	235.04	24.561	5.390	233.54	18.811 18.83' Adjusted	TP 50 HE-884-4 (SET IR)
5.546	213.96	24.340	5.767	233.60	18.794	TP 51 (SET NAIL)
5.271	195.18	24.613	4.998	235.16	19.342	TP 52 (SET NAIL)
5.177	231.12	24.350	5.440	231.68	19.173	TP 53 (SET NAIL)

9-14-05 HE-884

HE-64
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC
4.891	229.16	24.675	4.566	233.26	19.784	TP 54 (SET NAIL)
5.325	223.88	24.451	5.549	233.24	19.126	TP 55 (SET NAIL)
6.518	250.48	25.098	5.871	236.66	18.580	TP 56 (SET NAIL)
6.438	249.34	25.028	6.508	226.38	18.590	TP 57 (SET NAIL)
5.726	242.54	25.136	5.618	236.32	19.410	TP 58 (SET NAIL)
5.375	241.68	24.387	6.124	225.68	19.012	TP 59 (SET NAIL)

9-14-05 HE-884

HE65
D.LOOKABILL
M.LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC
5.777	248.18	24.939	5.225	223.40	19.162	TP 60 (SET NAIL)
5.102	278.80	24.533	5.508	233.08	19.431	HE-884-5 (SET IR)
5.529	244.88	24.561	5.501	230.68	19.032	TP 62 (SET NAIL)
5.858	228.16	24.659	5.760	232.78	18.801	TP 63 (SET NAIL)
5.481	272.22	24.697	5.443	227.82	19.216	TP 64 (SET NAIL)
6.090	226.32	25.309	5.478	233.86	19.219	TP 65 (SET NAIL)

9-14-05 HE-884

HE 66
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
5.312	249.32	24.939	5.682	229.72	19.627	TP 66 (SET NAIL)
4.879	258.26	24.807	5.011	231.96	19.928	TP 67 HE-884.6 (SET IR)
					19.95' Adjusted	
6.192	177.74	25.973	5.026	232.06	19.781	TP 68 (SET NAIL)
5.753	223.96	26.512	5.214	239.26	20.759	TP 69 (SET NAIL)
5.244	230.78	26.088	5.668	232.34	20.844	TP 70 (SET NAIL)
5.411	225.60	25.472	6.027	228.62	20.061	TP 71 (SET NAIL)

TITUS HE-884

HE 67
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
5.365	248.78	25.672	5.165	231.58	20.307	TP 72 (SET NAIL)
4.946	210.92	24.688	5.930	248.10	19.742	TP 73 (SET NAIL)
5.354	208.24	24.319	5.723	246.38	18.965	TP 74 (SET NAIL)
5.920	199.96	25.182	5.057	241.16	19.262	TP 75 (SET NAIL)
5.687	201.54	25.674	5.195	224.88	19.987	TP 76 (SET NAIL)
5.468	199.70	25.314	5.828	230.92	19.846	TP 77 (SET NAIL)

7-14-05 HE-884

HE 68
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
6.070	210.66	25.149	6.235	223.26	19.079	TP 78 (SET NAIL)
						TP-79
5.568	222.46	24.770	5.947	231.20	19.202	HE-884-7 (SET IR)
					19.23'	Adjusted
6.166	202.20	25.233	5.703	213.88	19.067	TP 80 (SET NAIL)
5.617	232.14	25.252	5.598	229.14	19.635	TP 81 (SET NAIL)
5.645	233.12	25.387	5.510	227.44	19.742	TP 82 (SET NAIL)
4.962	187.32	24.964	5.385	226.70	20.002	TP 83 (SET NAIL)

7-14-05 HE-884

HE 69
D.LOOKABILL
M.LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
5.766	192.60	24.850	5.880	230.00	19.084	TP 84 (SET NAIL)
5.842	241.94	25.255	5.437	225.08	19.413	TP 85 (SET NAIL)
5.707	203.78	25.843	5.119	221.52	20.136	TP 86 (SET NAIL)
5.567	187.48	25.784	5.626	221.88	20.217	TP 87 (SET NAIL)
4.686	208.68	24.699	5.771	226.10	20.013	TP 88 (SET NAIL)
5.941	200.00	25.110	5.530	224.20	19.169	TP 89 (SET NAIL)

7-14-05 HE-884

HE 70
D. LOOKABILL
M. LOOKABILL

BS	DIST	HI	FS	DIST	EL	DESC.
5.349	198.84	24.910	5.549	214.24	19.561	TP 90 (SET NAIL)
5.805	140.96	24.512	6.203	318.44	18.707	TP 91 (SET NAIL)
6.318	125.18	24.583	6.247	118.78	18.265	FND CON MON W/ SFWM DISK STAMPED "HE ~~884~~ 2005" TP 92

18.30' Adjusted

5.367	~~244.44~~	24.076	5.874	133.70	18.709	TP 93 (AKA TP 91)
5.319	203.76	23.808	5.587	225.98	18.489	TP 94 (SET NAIL)
5.618	214.00	23.770	5.656	231.26	18.152	TP 95 (SET NAIL)

VOID SEE RETURN

RUN CONTINUES IN FILE HE-884C. ○ BS ON 92 "HE 884"

RUN HE 2 PG 8

HE 894C RETURN RUN

LEVEL RUN HE 884 TO V 535

BS	DIST	HT	FS	DIST	EL
5.638	86.88	23.903			18.30 Adjusted ~~18.265~~
5.098	244.20	23.789	5.212	165.20	18.691
4.729	28.20	24.275	4.243	273.24	19.546
4.866	199.7	24.029	5.112	132.	19.163
4.354	194.8	24.952	3.431	215.9	20.598
5.91	175	25.02	5.843	203	19.109
6.234	160	24.94	6.315	232	18.706
5.405	112	24.33	6.011	106	18.929
4.672	203	24.07	4.938	189	19.396
4.980	144	24.033	5.015	214	19.053
4.679	218	24.639	4.073	273	19.96
4.602	214	24.304	4.937	242	19.702
4.705	170	24.303	4.706	246	19.598
4.81	174	23.829	5.285	261	19.018
			4.683	261	19.145

19.18' Adjusted

B LINDSAY
M LOOKABILL

SUNNY 80°

HE 2/8

LEVEL = TOPCON DL-101C DIGITAL

DESC

TP 92
CONC MON W/SFWMD DISK STAMPED "HE 884 200
REF EL FROM BOOK "HE" PG 70
TP #101 FND NAIL (25 HE 70 TP 91)

TP #102 FND NAIL

TP #103 FND NAIL

TP #104 SET NAIL ON BERM OFFSET TP 83

TP #105 SET NAIL ON BERM OFFSET TP 87

TP #106 "

TP #107 "

TP #108 FND NAIL TP 85 HE/69

TP #109 FND NAIL TP 85 HE/69

TP #110 FND NAIL

TP #111 FND NAIL

TP #112 FND NAIL

#113 FND NAIL

#114 END IR

HE 894-7 HE/68

11/30/05

BS	DIST	HI	FS	DIS	EL
5.011	235	24.156			19.145
5.268	233	24.292	5.132	205.8	19.024
5.001	227.9	24.788	4.505	190.2	19.787
4.435	237.4	24.371	4.852	204.4	19.936
4.572	215.1	23.785	5.158	187.6	19.213
5.105	253.4	24.008	4.882	234.6	18.903
5.096	230.76	24.775	4.329	204.06	19.679
4.102	280.3	24.339	4.538	266.6	20.237
4.910	200.46	24.915	4.334	177.3	20.005
4.878	203.1	25.654	4.139	259.1	20.776
4.549	230.4	25.239	4.964	253.3	20.690
4.437	225.24	24.147	5.529	187.5	19.710
4.403	203.7	24.263	4.287	267	19.860
					19.90' Adjusted
4.699	268	24.246	4.717	277	19.546
			5.099	188	19.146

B. LINDSAY / M. LOCKABILL HE2/9

TP 14	114	FND IR			
TP 15	115	FND NAIL			
TP 16	116	FND NAIL			
TP 17	117	FND NAIL			
TP 18	118	FND NAIL			
TP 19	119	FND NAIL			
TP 20	120	FND NAIL			
TP 21	121	FND NAIL			
TP 22	122	FND NAIL			
TP 23	123	FND NAIL			
TP 24	124	FND NAIL			
TP 25	125	FND NAIL			
TP 26	126	FND IR	TP67	HE 8.84-6	HE 6.6
TP 27	127	FND NAIL			6.6
TP 28	128	FND NAIL			6.5

11/30/05

BS	DIST	HI	FS	DIS	EL
4.594	204.7	23.74			19.146
4.729	291	23.874	4.595	301	19.145
5.218	201	23.954	5.138	164	18.736
4.999	273	23.978	4.975	270	18.979
4.717	244.1	24.106	4.589	236	19.389
					19.43' Adjusted
4.638	162.7	23.758	4.986	236	19.120
5.350	266	24.307	4.803	303	18.955
5.217	199	24.588	4.963	202	19.371
5.271	261	23.821	6.038	286	18.550
5.014	208	23.561	5.274	216	18.547
4.895	232	23.983	4.473	252	19.088
3.212	245	22.959	4.236	230	19.747
4.578	252	23.717	3.820	219	19.139
3.382	194	22.692	4.407	174	19.310

B LINDSAY
M LOOKABILL

AG 2/10

IP 28	128	END NAIL
IP 29	129	END NAIL
IP 30	130	END NAIL
IP 31	131	END NAIL
IP 32	132	END IP
IP 33	133	
IP 34	134	
IP 35	135	
IP 36	136	
IP 37	137	
IP 38	138	
IP 39	139	
IP 40	140	
IP 41	141	

64 63 62 61 60 59 58 57 56 55 54 53 52 51

11/30/05

BS	DIST	HI	FS	DIS	
4.379	206	23.130	3.941	252	18.751
4.063	270	22.830	4.363	262	~~18.767~~ 18.81' Adjusted
3.932	228	23.234	3.528	175	19.302
3.576	234	22.967	3.843	208	19.391
4.318	192	23.022	4.263	188	18.704
4.025	168	23.400	3.647	194	19.375
4.775	245	23.92	4.253	234	19.197
5.117	212	23.405	5.634	197	18.288
4.583	212	23.622	4.366	117	19.039
4.308	198	23.430	4.500	224	19.122 19.09' Adjusted
5.192	209	23.704	4.918	293	18.512
4.359	218	23.537	4.524	233	19.178
4.680	268	23.962	4.255	241	19.282
4.469	212	23.812	4.619	188	19.343

B LINDSAY
M LOOKABILL

H62/11

TP 42 142 END NAIL

TP 43 143 END IR HE 384-4 HE/63

TP 44 144 END NAIL

TP 45 145 END NAIL

TP 46 146 END NAIL

TP 47 147 END NAIL

TP 48 148 END NAIL

TP 49 149 (SET NEW NAIL

TP 50 150 END IR

TP 51 151 END NAIL

TP 52 152 END NAIL

TP 53 153 END NAIL

TP 54 154 END NAIL

TP 55 155 END NAIL

11/30/05

BS	DIST	HI	FS	DIST	
4.532	197	24.25	4.091	24466	19.724
					19.77' Adj.
4.688	140	24.333	4.608	226	19.645
4.333	200	23.435	5.231	350	19.102
5.035	179	23.971	4.499	214	18.936
4.522	192	23.891	4.602	266	19.369
4.603	230	24.370	4.122	252	19.769
4377	158	23.97	4778	157	19.594
4.521	171	23.641	4.851	282	19.120
4.157	227	23.309	4.489	276	19.152
4.929	317	23.018	5.220	277	18.089
4.184	165	21.942	5.260	196	17.758
4.971	203	22.025	4.888	226	17.054
4.856	207	22.044	4.837	258	17.188
					17.25' Adj
4.940	231	22.139	4.845	260	17.199

B LINDSAY
M LOOKABILL

1162/12

TP 56 156 END IR

TP 57 157 END NAIL

TP 58 158 END NAIL

TP 59 159 END NAIL

TP 60 160 END NAIL

TP 61 161

TP 62 162

TP 63 163

TP 64 164

TP 65 165

TP 66 166 SET

TP 67 167

TP 68 168 END IR

TP 69 169

12/4/05

B. LINDSAY
J. LINDSAY

BS	DIST	HI	FS	DS	EC
4.208	229	21.722	4.625	262.44	17.514
4.494	198	21.838	4.378	234	17.344
5.226	174	22.430	4.634	266	17.204
5.180	249	22.224	5.386	281	17.044
5.467	187	22.894	4.797	188	17.427
4.505	207	22.251	5.148	150	17.746
4.837	188	22.560	4.528	194	17.723
4.466	277	23.225	3.801	236	18.759
4.903	250	22.614	5.514	276	17.711
4.880	290	22.459	5035	179	17.579
4.342	131	21.936	4.865	310	17.594
			5.629	104	16.307

16.37 Adj.

TOTAL DIST = 76918.6'
= 14.568'

DES

TP 170 FND NAIL

TP 171 FND NAIL

TP 172 FND NAIL

TP 173 FND NAIL

TP 174 SET NAIL

TP 175 SET NAIL

TP 176 SET

TP 177 SET

TP 178 SET

TP 179 SET ACROSS CANAL

TP 180 SET NAIL

W535 FND CM W/DISK CERP 2001 W535
16.37' POSTED NAVD 88

ERROR = −0.06 = Misclosure

0.03 √ 14.5 Mi = 0.1145'

020801.06 HENDRY CO. WELLS

C. COLLINS
E. SORENSEN

FB 99 PG 10

7-22-05

HE884 WELL ELEVATION

PT	BS	HI	FS	EL	DESC
	5.060'			~~400~~ 18.30'	12" CON MON HE 884 2005
		23,360' ~~405.060~~		20.665'	
1	2.447'	23.112' ~~404.812~~	2.695'	~~402.365~~	HE-884 WL
				18.299'	
2			4.813'	~~399.947~~	12" CON MON "HE-884 2005"

MISCLOSURE = 0.001'
NO ADJUSTMENT MADE

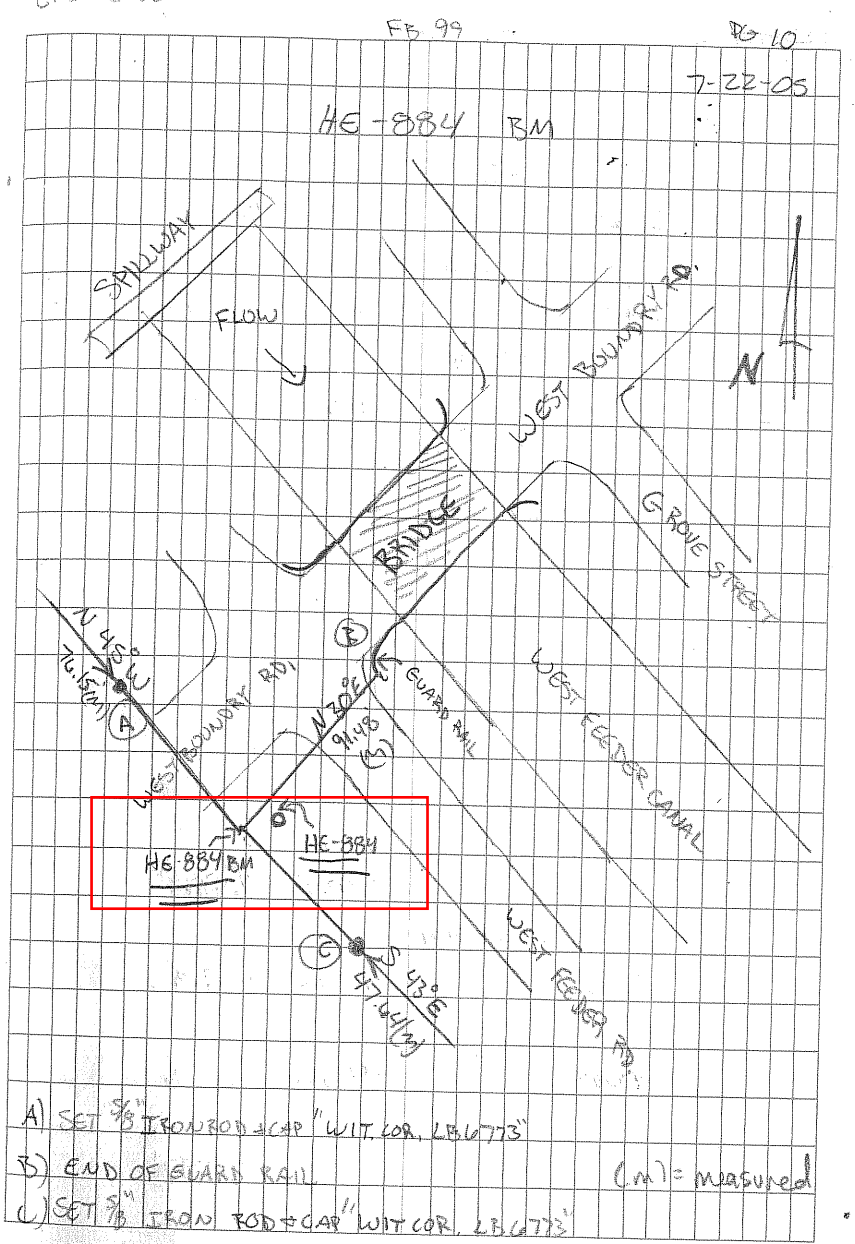
FILE: HENDRY CO. 7-22-05

MAPPING GRADE GPS COORDINATES

3 POINT GENERIC HE-884 BM N - 715066.20'
E - 632174.42'

4 POINT GENERIC HE-884 WELL
N - 715067.88'
E - 632180.67'

(U.S. STATE PLANE, FL EAST ZONE)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY HENDRY	**PROJECT** HENDRY WELLS	**DESIGNATION** HE-884
SECTION 18	**TOWNSHIP 48 S**	**RANGE 33 E**

GEOGRAPHIC INDEX OF QUAD SW

Established by X **Recovered by** Cooner & Associates, Inc.	**NAME OF QUADRANGLE** COW BONE ISLAND
SURVEYOR CGC **DATE** 7 / 18 / 2005	**FIELD BOOK** 99/ HE/ HE 2 **PAGE** 10/ 55-70/ 8-13

HORIZONTAL DATUM: **1927** **(1983)** **Other**_____ (circle one) **ZONE** **(E)** or **W**

VERTICAL DATUM: MSL 1929 **(1988)** **Other** _____ (circle one)

CONTROL ACCURACY: HORIZONTAL **1 2 3** Sub-meter (circle one) VERTICAL **1 (2) 3**

STATE PLANE COORDINATES	**X** 715066.20'	**Y** 632124.42'	**EL.** 18.30'

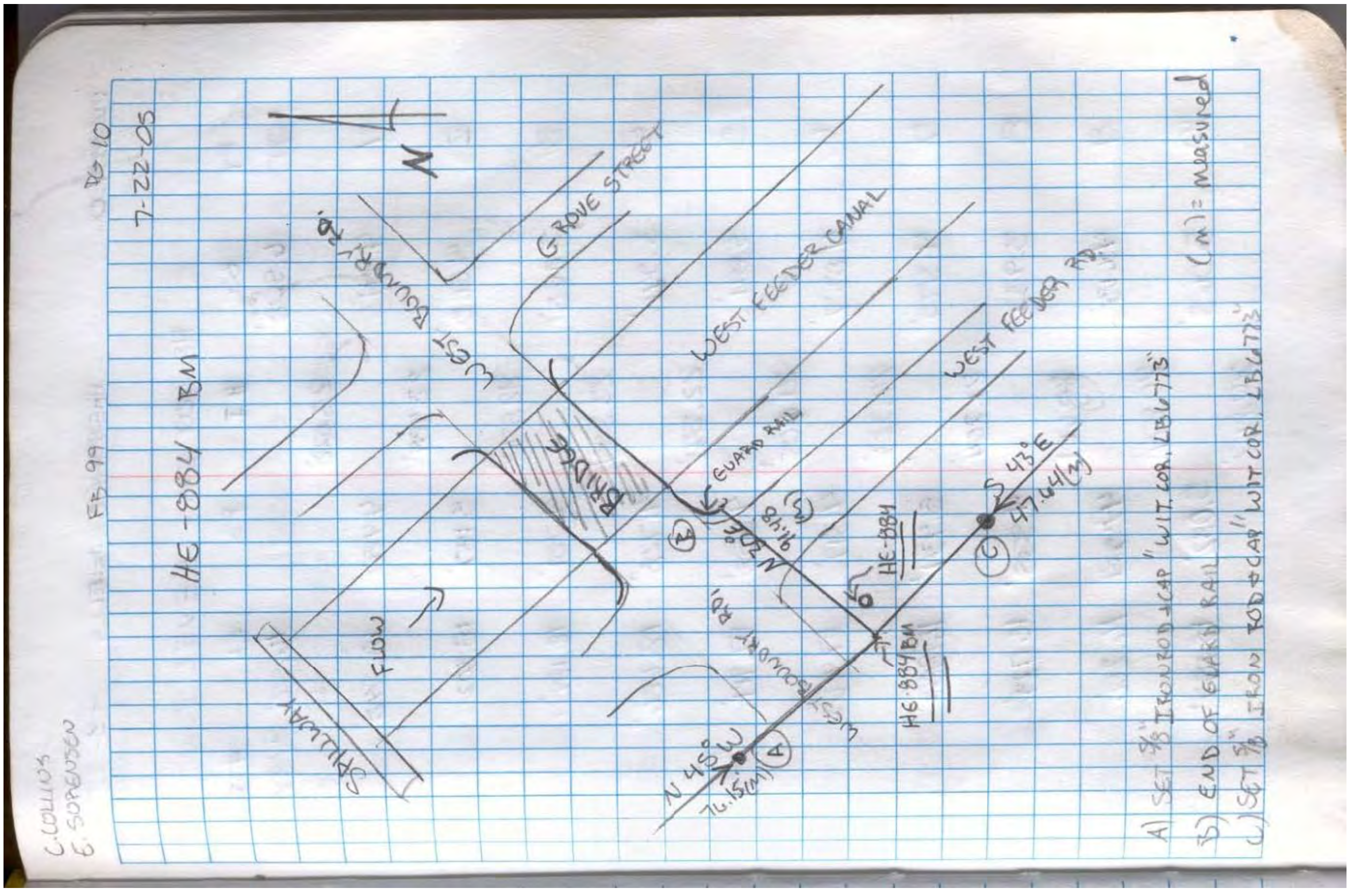
LATITUDE 26° 18' 03.27" N LONGITUDE 081° 04' 24.19" W

DESCRIPTION Poured concrete monument with aluminum SFWND disk stamped "HE-884 2005

To Reach: From the intersection of C.R.833 and C.R.835 go south on C.R.833 for 6.0 miles to the Big Cypress Seminole Reservation and Josie Billy Highway. Continue south on Josie Billy Highway for 1.3 miles to the intersection of Josie Billy Highway and W. Boundary Rd. turn west on W. Boundary Highway for 5.3 miles to the mark on the left. The mark is 114' southwest bridge abutment and 56.7' southeast from centerline W. Boundary Rd.

Notable Land marks:

SKETCH


HE-884 BM
FB 99
PG 10
7-22-05
N
GROVE STREET
WEST BOUNDARY RD.
WEST FEEDER CANAL
WEST FEEDER RD
BRIDGE
GUARD RAIL
FLOW
SPILLWAY
HE-884
HE 884 BM
N 45° W
76.15(M)
S 43° E
47.64(M)
(M) = Measured
A) SET 5/8" IRON ROD + CAP "WIT. COR. LB6773"
B) END OF GUARD RAIL
C) SET 5/8" IRON ROD + CAP "WIT COR. LB6773"
C. COLLINS
E. SORENSEN

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.
Line/Part: L26224 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
1438	2013	AJ6789	W 535	5.3132	5.4216	
1439	2014	AJ6790	X 535	6.2894	6.4178	

The NGS Data Sheet

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

```
DATABASE =  ,PROGRAM = datasheet, VERSION = 7.58
1        National Geodetic Survey,   Retrieval Date = MARCH  8, 2008
 AJ6789 ***********************************************************************
 AJ6789  DESIGNATION -  W 535
 AJ6789  PID         -  AJ6789
 AJ6789  STATE/COUNTY-  FL/HENDRY
 AJ6789  USGS QUAD   -  GODDENS STRAND (1974)
 AJ6789
 AJ6789                         *CURRENT SURVEY CONTROL
 AJ6789  ______________________________________________________________________
 AJ6789* NAD 83(2007)-  26 17 39.21846(N)    080 58 13.97186(W)     ADJUSTED
 AJ6789* NAVD 88     -         4.990  (meters)      16.37   (feet)  ADJUSTED
 AJ6789  ______________________________________________________________________
 AJ6789  EPOCH DATE  -        2002.00
 AJ6789  X           -     898,013.552 (meters)                     COMP
 AJ6789  Y           -  -5,651,032.304 (meters)                     COMP
 AJ6789  Z           -   2,808,314.798 (meters)                     COMP
 AJ6789  LAPLACE CORR-           0.00  (seconds)                    DEFLEC99
 AJ6789  ELLIP HEIGHT-         -19.837 (meters)          (02/10/07) ADJUSTED
 AJ6789  GEOID HEIGHT-         -24.82  (meters)                     GEOID03
 AJ6789  DYNAMIC HT  -           4.982 (meters)      16.35  (feet)  COMP
 AJ6789
 AJ6789  ------- Accuracy Estimates (at 95% Confidence Level in cm) --------
 AJ6789  Type    PID    Designation                       North   East  Ellip
 AJ6789  ----------------------------------------------------------------------
 AJ6789  NETWORK AJ6789 W 535                              1.51   1.47   2.76
 AJ6789  ----------------------------------------------------------------------
 AJ6789  MODELED GRAV-     979,039.9   (mgal)                     NAVD 88
 AJ6789
 AJ6789  VERT ORDER  -  FIRST     CLASS II
 AJ6789
 AJ6789.The horizontal coordinates were established by GPS observations
 AJ6789.and adjusted by the National Geodetic Survey in February 2007.
 AJ6789
 AJ6789.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
 AJ6789.See National Readjustment for more information.
 AJ6789.The horizontal coordinates are valid at the epoch date displayed above.
 AJ6789.The epoch date for horizontal control is a decimal equivalence
 AJ6789.of Year/Month/Day.
 AJ6789
 AJ6789.The orthometric height was determined by differential leveling
 AJ6789.and adjusted in January 2002.
 AJ6789
 AJ6789.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ6789
 AJ6789.The Laplace correction was computed from DEFLEC99 derived deflections.
 AJ6789
 AJ6789.The ellipsoidal height was determined by GPS observations
 AJ6789.and is referenced to NAD 83.
 AJ6789
 AJ6789.The geoid height was determined by GEOID03.
 AJ6789
 AJ6789.The dynamic height is computed by dividing the NAVD 88
 AJ6789.geopotential number by the normal gravity value computed on the
 AJ6789.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AJ6789.degrees latitude (g = 980.6199 gals.).
 AJ6789
 AJ6789.The modeled gravity was interpolated from observed gravity values.
 AJ6789
 AJ6789;                    North         East     Units Scale Factor Converg.
 AJ6789;SPC FL E     -    217,210.787   202,941.136   MT  0.99994128   +0 00 47.0
 AJ6789;SPC FL E     -    712,632.39    665,816.04    sFT  0.99994128   +0 00 47.0
 AJ6789;UTM  17      - 2,908,268.657   502,940.132   MT  0.99960011   +0 00 47.0
 AJ6789
 AJ6789!             -  Elev Factor  x  Scale Factor =   Combined Factor
 AJ6789!SPC FL E     -   1.00000312  x   0.99994128  =   0.99994440
 AJ6789!UTM  17      -   1.00000312  x   0.99960011  =   0.99960323
 AJ6789
 AJ6789                          SUPERSEDED SURVEY CONTROL
```

```
AJ6789
AJ6789  NAD 83(1999)-  26 17 39.21871(N)    080 58 13.97208(W) AD(       ) 1
AJ6789  ELLIP H (12/12/02)  -19.843  (m)                        GP(       ) 2 2
AJ6789  NAVD 88 (12/12/02)    4.99   (m)           16.4    (f) LEVELING    3
AJ6789
AJ6789.Superseded values are not recommended for survey control.
AJ6789.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ6789.See file dsdata.txt to determine how the superseded data were derived.
AJ6789
AJ6789_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK0294008269(NAD 83)
AJ6789_MARKER: DD = SURVEY DISK
AJ6789_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ6789_STAMPING: W 535 2001 CERP
AJ6789_MARK LOGO: USE
AJ6789_PROJECTION: FLUSH
AJ6789_MAGNETIC: O = OTHER; SEE DESCRIPTION
AJ6789_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ6789+STABILITY: SURFACE MOTION
AJ6789_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ6789+SATELLITE: SATELLITE OBSERVATIONS - 2002
AJ6789
AJ6789  HISTORY     - Date     Condition        Report By
AJ6789  HISTORY     - 20010725 MONUMENTED       MOREKL
AJ6789  HISTORY     - 2002     GOOD             MAPTEC
AJ6789  HISTORY     - 20051204 GOOD             INDIV
AJ6789
AJ6789                          STATION DESCRIPTION
AJ6789
AJ6789'DESCRIBED BY MORGAN AND EKLUND INC 2001 (PDW)
AJ6789'THE STATION IS LOCATED ABOUT 55.2 KM (34.3 MILES) WEST NORTHWEST OF
AJ6789'ANDYTOWN, ABOUT 40.5
AJ6789'KM (25.1 MILES) EAST NORTHEAST OF MILES CITY, ABOUT 51.3 KM (31.9
AJ6789'MILES) SOUTH OF CLEWISTON,
AJ6789'IN SECTION 19, TOWNSHIP 48 SOUTH, RANGE 34 EAST.
AJ6789'
AJ6789'OWNERSHIP   SOUTH FLORIDA WATER MANAGEMENT DISTRICT (CANAL RIGHT OF
AJ6789'WAY)
AJ6789'
AJ6789'TO REACH THE STATION FROM THE JUNCTION OF SNAKE ROAD AND INTERSTATE 75
AJ6789'(EXIT 14), GO
AJ6789'WEST ON INTERSTATE 75 FOR 3.7 KM (2.3 MILES) TO THE EAST END OF BRIDGE
AJ6789'NO. 030283, TURN
AJ6789'RIGHT ON ACCESS ROAD (UNIMPROVED DIRT ROAD) JUST BEFORE THE CREST OF
AJ6789'THE BRIDGE, GO
AJ6789'0.08 KM (0.05 MILES) CURVING TO THE LEFT, TO THE JUNCTION WITH L-28
AJ6789'LEVEE ROAD (EAST OF
AJ6789'INTERCEPTOR CANAL), PROCEED NORTH ALONG L-28 LEVEE ROAD FOR 16.0 KM
AJ6789'(10.0 MILES) AND THE
AJ6789'MARK ON THE RIGHT.
AJ6789'
AJ6789'THE MARK IS ON THE EAST SIDE OF INTERCEPTOR CANAL, 78.5 METERS (257.7
AJ6789'FEET) SOUTHWEST OF A
AJ6789'WOOD UTILITY POLE (WITH GUY WIRE TO NORTHWEST), 45.5 METERS (149.4
AJ6789'FEET) SOUTHWEST OF
AJ6789'UNITED TELEPHONE SERVICE UNDERGROUND CABLE MARKER, 14.4 METERS (47.4
AJ6789'FEET) EAST OF THE
AJ6789'EAST TOP OF BANK OF INTERCEPTOR CANAL, 10.1 METERS (33.2 FEET) EAST OF
AJ6789'THE APPROXIMATE
AJ6789'CENTERLINE OF L-28 LEVEE ROAD (MARL ROAD) AND 1.4 METERS (4.7 FEET)
AJ6789'WEST OF A CARSONITE
AJ6789'WITNESS POST AND TOE OF SPOIL PILE.
AJ6789'
AJ6789'NOTE   A MAGNET WAS PLACED 0.18 METERS (0.6 FEET) SOUTH OF AND 0.1
AJ6789'METERS (0.3 FEET) BELOW
AJ6789'             THE MARK.
AJ6789'
AJ6789
AJ6789                          STATION RECOVERY (2002)
AJ6789
AJ6789'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AJ6789'THE STATION IS LOCATED ABOUT 55.2 KM (34.3 MILES) WEST NORTHWEST OF
AJ6789'ANDYTOWN, ABOUT 40.5
AJ6789'KM (25.1 MILES) EAST NORTHEAST OF MILES CITY, ABOUT 51.3 KM (31.9
AJ6789'MILES) SOUTH OF CLEWISTON,
AJ6789'IN SECTION 19, TOWNSHIP 48 SOUTH, RANGE 34 EAST.
AJ6789'
AJ6789'OWNERSHIP   SOUTH FLORIDA WATER MANAGEMENT DISTRICT (CANAL RIGHT OF
AJ6789'WAY)
AJ6789'
AJ6789'TO REACH THE STATION FROM THE JUNCTION OF SNAKE ROAD AND INTERSTATE 75
AJ6789'(EXIT 14), GO
```

AJ6789'WEST ON INTERSTATE 75 FOR 3.7 KM (2.3 MILES) TO THE EAST END OF BRIDGE
AJ6789'NO. 030283, TURN
AJ6789'RIGHT ON ACCESS ROAD (UNIMPROVED DIRT ROAD) JUST BEFORE THE CREST OF
AJ6789'THE BRIDGE, GO
AJ6789'0.08 KM (0.05 MILES) CURVING TO THE LEFT, TO THE JUNCTION WITH L-28
AJ6789'LEVEE ROAD (EAST OF
AJ6789'INTERCEPTOR CANAL), PROCEED NORTH ALONG L-28 LEVEE ROAD FOR 16.0 KM
AJ6789'(10.0 MILES) AND THE
AJ6789'MARK ON THE RIGHT.
AJ6789'
AJ6789'THE MARK IS ON THE EAST SIDE OF INTERCEPTOR CANAL, 78.5 METERS (257.7
AJ6789'FEET) SOUTHWEST OF A
AJ6789'WOOD UTILITY POLE (WITH GUY WIRE TO NORTHWEST), 45.5 METERS (149.4
AJ6789'FEET) SOUTHWEST OF
AJ6789'UNITED TELEPHONE SERVICE UNDERGROUND CABLE MARKER, 14.4 METERS (47.4
AJ6789'FEET) EAST OF THE
AJ6789'EAST TOP OF BANK OF INTERCEPTOR CANAL, 10.1 METERS (33.2 FEET) EAST OF
AJ6789'THE APPROXIMATE
AJ6789'CENTERLINE OF L-28 LEVEE ROAD (MARL ROAD) AND 1.4 METERS (4.7 FEET)
AJ6789'WEST OF A CARSONITE
AJ6789'WITNESS POST AND TOE OF SPOIL PILE.
AJ6789'
AJ6789'NOTE   A MAGNET WAS PLACED 0.18 METERS (0.6 FEET) SOUTH OF AND 0.1
AJ6789'METERS (0.3 FEET) BELOW
AJ6789'   THE MARK.
AJ6789'
AJ6789'STATION RECOVERY (2002)
AJ6789'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP)
AJ6789'RECOVERED AS DESCRIBED.
AJ6789'
AJ6789'
AJ6789
AJ6789   STATION RECOVERY (2005)
AJ6789
AJ6789'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (BL)
AJ6789'RECOVERED AS DESCRIBED

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

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.
Line/Part: L26224 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
1438	2013	AJ6789	W 535	5.3132	5.4216	
1439	2014	AJ6790	X 535	6.2894	6.4178	

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.7
1         National Geodetic Survey,   Retrieval Date = JULY  7, 2015
 AJ6790 ***********************************************************************
 AJ6790  DESIGNATION -  X 535
 AJ6790  PID         -  AJ6790
 AJ6790  STATE/COUNTY-  FL/HENDRY
 AJ6790  COUNTRY     -  US
 AJ6790  USGS QUAD   -  GODDENS STRAND (1974)
 AJ6790
 AJ6790                        *CURRENT SURVEY CONTROL
 AJ6790  ______________________________________________________________________
 AJ6790* NAD 83(2011) POSITION- 26 18 27.71639(N) 080 58 33.60089(W)   ADJUSTED
 AJ6790* NAD 83(2011) ELLIP HT-   -18.857 (meters)         (06/27/12)   ADJUSTED
 AJ6790* NAD 83(2011) EPOCH    -  2010.00
 AJ6790* NAVD 88 ORTHO HEIGHT -     5.987 (meters)       19.64   (feet) ADJUSTED
 AJ6790  ______________________________________________________________________
 AJ6790  NAD 83(2011) X  -    897,372.181 (meters)                     COMP
 AJ6790  NAD 83(2011) Y  - -5,650,465.460 (meters)                     COMP
 AJ6790  NAD 83(2011) Z  -  2,809,653.276 (meters)                     COMP
 AJ6790  LAPLACE CORR    -          0.06  (seconds)                    DEFLEC12B
 AJ6790  GEOID HEIGHT    -        -24.84  (meters)                     GEOID12B
 AJ6790  DYNAMIC HEIGHT  -          5.977 (meters)       19.61   (feet) COMP
 AJ6790  MODELED GRAVITY -    979,041.2   (mgal)                       NAVD 88
 AJ6790
 AJ6790  VERT ORDER      -  FIRST     CLASS II
 AJ6790
 AJ6790  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 AJ6790  Standards:
 AJ6790         FGDC (95% conf, cm)     Standard deviation (cm)      CorrNE
 AJ6790            Horiz  Ellip          SD_N   SD_E   SD_h       (unitless)
 AJ6790  ------------------------------------------------------------------
 AJ6790  NETWORK    2.04   2.88          0.86   0.80   1.47     -0.16691537
 AJ6790  ------------------------------------------------------------------
 AJ6790  Click here for local accuracies and other accuracy information.
 AJ6790
 AJ6790
 AJ6790.The horizontal coordinates were established by GPS observations
 AJ6790.and adjusted by the National Geodetic Survey in June 2012.
 AJ6790
 AJ6790.NAD 83(2011) refers to NAD 83 coordinates where the reference
 AJ6790.frame has been affixed to the stable North American tectonic plate. See
 AJ6790.NA2011 for more information.
 AJ6790
 AJ6790.The horizontal coordinates are valid at the epoch date displayed above
 AJ6790.which is a decimal equivalence of Year/Month/Day.
 AJ6790
 AJ6790.The orthometric height was determined by differential leveling and
 AJ6790.adjusted by the NATIONAL GEODETIC SURVEY
 AJ6790.in January 2002.
 AJ6790
 AJ6790.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ6790
 AJ6790.The Laplace correction was computed from DEFLEC12B derived deflections.
 AJ6790
 AJ6790.The ellipsoidal height was determined by GPS observations
```

```
AJ6790.and is referenced to NAD 83.
AJ6790
AJ6790.The dynamic height is computed by dividing the NAVD 88
AJ6790.geopotential number by the normal gravity value computed on the
AJ6790.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ6790.degrees latitude (g = 980.6199 gals.).
AJ6790
AJ6790.The modeled gravity was interpolated from observed gravity values.
AJ6790
AJ6790. The following values were computed from the NAD 83(2011) position.
AJ6790
AJ6790;                     North         East     Units Scale Factor Converg.
AJ6790;SPC FL E     -   218,703.146   202,396.365   MT  0.99994125   +0 00 38.3
AJ6790;SPC FL E     -   717,528.57    664,028.74   sFT  0.99994125   +0 00 38.3
AJ6790;UTM  17      - 2,909,760.507   502,395.548   MT  0.99960007   +0 00 38.3
AJ6790
AJ6790!             -  Elev Factor  x  Scale Factor =   Combined Factor
AJ6790!SPC FL E     -   1.00000296  x   0.99994125  =   0.99994421
AJ6790!UTM  17      -   1.00000296  x   0.99960007  =   0.99960303
AJ6790
AJ6790                          SUPERSEDED SURVEY CONTROL
AJ6790
AJ6790  NAD 83(2007)-  26 18 27.71649(N)    080 58 33.60149(W) AD(2002.00) 0
AJ6790  ELLIP H (02/10/07)  -18.839  (m)                       GP(2002.00)
AJ6790  NAD 83(1999)-  26 18 27.71674(N)    080 58 33.60170(W) AD(       ) 1
AJ6790  ELLIP H (12/12/02)  -18.845  (m)                       GP(       ) 2 2
AJ6790  NAVD 88 (12/12/02)    5.99   (m)           19.7    (f) LEVELING    3
AJ6790
AJ6790.Superseded values are not recommended for survey control.
AJ6790
AJ6790.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ6790.See file dsdata.txt to determine how the superseded data were derived.
AJ6790
AJ6790_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK0239509760(NAD 83)
AJ6790
AJ6790_MARKER: DD = SURVEY DISK
AJ6790_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ6790_STAMPING: X 535 2001 CERP
AJ6790_MARK LOGO: USE
AJ6790_PROJECTION: RECESSED 15 CENTIMETERS
AJ6790_MAGNETIC: O = OTHER; SEE DESCRIPTION
AJ6790_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ6790+STABILITY: SURFACE MOTION
AJ6790_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ6790+SATELLITE: SATELLITE OBSERVATIONS - January 14, 2011
AJ6790
AJ6790  HISTORY     - Date     Condition        Report By
AJ6790  HISTORY     - 20010725 MONUMENTED       MOREKL
AJ6790  HISTORY     - 2002     GOOD             MAPTEC
AJ6790  HISTORY     - 20050913 GOOD             INDIV
AJ6790  HISTORY     - 20110114 GOOD             INDIV
AJ6790
AJ6790                          STATION DESCRIPTION
AJ6790
AJ6790'DESCRIBED BY MORGAN AND EKLUND INC 2001 (PDW)
AJ6790'THE STATION IS LOCATED ABOUT 56.2 KM (34.9 MILES) WEST NORTHWEST OF
AJ6790'ANDYTOWN, ABOUT 40.6
AJ6790'KM (25.2 MILES) EAST NORTHEAST OF MILES CITY, ABOUT 49.8 KM (31.0
AJ6790'MILES) SOUTH OF CLEWISTON,
AJ6790'IN SECTION 18, TOWNSHIP 48 SOUTH, RANGE 34 EAST.
AJ6790'
AJ6790'OWNERSHIP   SOUTH FLORIDA WATER MANAGEMENT DISTRICT (CANAL RIGHT OF
AJ6790'WAY)
AJ6790'
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AJ6790'TO REACH THE STATION FROM THE JUNCTION OF SNAKE ROAD AND INTERSTATE 75
AJ6790'(EXIT 14), GO
AJ6790'WEST ON INTERSTATE 75 FOR 3.7 KM (2.3 MILES) TO THE EAST END OF BRIDGE
AJ6790'NO. 030283, TURN
AJ6790'RIGHT ON ACCESS ROAD (UNIMPROVED DIRT ROAD) JUST BEFORE THE CREST OF
AJ6790'THE BRIDGE, GO
AJ6790'0.08 KM (0.05 MILES) CURVING TO THE LEFT, TO THE JUNCTION WITH L-28
AJ6790'LEVEE ROAD (EAST OF
AJ6790'INTERCEPTOR CANAL), PROCEED NORTH ALONG L-28 LEVEE ROAD (MARL ROAD)
AJ6790'FOR 17.7 KM (11.0
AJ6790'MILES) AND THE MARK ON THE RIGHT.
AJ6790'
AJ6790'THE MARK IS ON THE EAST SIDE OF INTERCEPTOR CANAL, ON TOP OF A SPOIL
AJ6790'BANK AND THE
AJ6790'APPROXIMATE CENTERLINE OF A DIM TRACK ROAD, 32.8 KM (107.6 FEET) WEST
AJ6790'OF A WOOD UTILITY
AJ6790'POLE, 33.2 KM (108.8 FEET) SOUTHWEST OF A SPRINT CABLE RISER BOX, 20.6
AJ6790'METERS (67.5 FEET) EAST
AJ6790'OF THE EAST TOP OF BANK OF INTERCEPTOR CANAL, 5.1 METERS (16.7 FEET)
AJ6790'EAST OF A CARSONITE
AJ6790'WITNESS POST AND WEST TOE OF SPOIL BANK.
AJ6790'
AJ6790'NOTE A MAGNET WAS PLACED 0.18 METERS (0.6 FEET) SOUTH OF AND 0.1
AJ6790'METERS (0.3 FEET) BELOW
AJ6790'   THE MARK.
AJ6790'
AJ6790'
AJ6790'
AJ6790
AJ6790   STATION RECOVERY (2002)
AJ6790
AJ6790'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AJ6790'THE STATION IS LOCATED ABOUT 56.2 KM (34.9 MILES) WEST NORTHWEST OF
AJ6790'ANDYTOWN, ABOUT 40.6
AJ6790'KM (25.2 MILES) EAST NORTHEAST OF MILES CITY, ABOUT 49.8 KM (31.0
AJ6790'MILES) SOUTH OF CLEWISTON,
AJ6790'IN SECTION 18, TOWNSHIP 48 SOUTH, RANGE 34 EAST.
AJ6790'
AJ6790'OWNERSHIP SOUTH FLORIDA WATER MANAGEMENT DISTRICT (CANAL RIGHT OF
AJ6790'WAY)
AJ6790'
AJ6790'TO REACH THE STATION FROM THE JUNCTION OF SNAKE ROAD AND INTERSTATE 75
AJ6790'(EXIT 14), GO
AJ6790'WEST ON INTERSTATE 75 FOR 3.7 KM (2.3 MILES) TO THE EAST END OF BRIDGE
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AJ6790'0.08 KM (0.05 MILES) CURVING TO THE LEFT, TO THE JUNCTION WITH L-28
AJ6790'LEVEE ROAD (EAST OF
AJ6790'INTERCEPTOR CANAL), PROCEED NORTH ALONG L-28 LEVEE ROAD (MARL ROAD)
AJ6790'FOR 17.7 KM (11.0
AJ6790'MILES) AND THE MARK ON THE RIGHT.
AJ6790'
AJ6790'THE MARK IS ON THE EAST SIDE OF INTERCEPTOR CANAL, ON TOP OF A SPOIL
AJ6790'BANK AND THE
AJ6790'APPROXIMATE CENTERLINE OF A DIM TRACK ROAD, 32.8 KM (107.6 FEET) WEST
AJ6790'OF A WOOD UTILITY
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AJ6790'OF THE EAST TOP OF BANK OF INTERCEPTOR CANAL, 5.1 METERS (16.7 FEET)
AJ6790'EAST OF A CARSONITE
AJ6790'WITNESS POST AND WEST TOE OF SPOIL BANK.
AJ6790'
AJ6790'NOTE A MAGNET WAS PLACED 0.18 METERS (0.6 FEET) SOUTH OF AND 0.1

```
AJ6790'METERS (0.3 FEET) BELOW
AJ6790'             THE MARK.
AJ6790'
AJ6790'STATION RECOVERY (2002)
AJ6790'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP)
AJ6790'RECOVERED AS DESCRIBED.
AJ6790'
AJ6790'
AJ6790'
AJ6790
AJ6790                          STATION RECOVERY (2005)
AJ6790
AJ6790'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (DL)
AJ6790'RECOVERED AS DESCRIBED
AJ6790
AJ6790                          STATION RECOVERY (2011)
AJ6790
AJ6790'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2011 (DVH)
AJ6790'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04
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STAR*NET-LEV Version 6.0.25

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Run Date: Tue Dec 20 2005 15:28:05

Summary of Files Used and Option Settings

Project Folder and Data Files

Project Name	HE884
Project Folder	J:\2002\A020801.06\STARNET
Data File List	he884.dat

Project Option Settings

STAR*NET Run Mode	: Adjust with Error Propagation
Type of Adjustment	: Lev
Project Units	: FeetUS
Input/Output Coordinate Order	: North-East
Create Coordinate File	: Yes

Instrument Standard Error Settings

Project Default Instrument		
Differential Levels	:	0.010000 FeetUS / Mile

Listing of Input Data

[File: J:\2002\A020801.06\STARNET\HE884.DAT]
.Units FeetUS
.Sep   -
.3D

NAVD88 BM ELEVATIONS
E   X535   19.64000   !
E   W535   16.37000   !

ELEVATION DIFFERENCE RECORDS

# STATION		DIFF	DIST	DESCRIPTOR
L	X535-1	-2.51100	440.08000	
L	1-2	0.44700	431.46000	
L	2-3	-0.44200	428.70000	
L	3-4	0.14900	425.02000	
L	4-5	-0.71300	424.20000	
L	5-6	0.65700	445.80000	
L	6-7	0.39400	445.58000	
L	7-8	0.75000	451.66000	
L	8-9	-0.91000	453.96000	
L	9-10	0.13700	435.92000	
L	10-11	0.11700	445.60000	
L	11-12	-0.75800	460.32000	
L	12-13	0.54200	459.06000	
L	13-14	0.08500	460.50000	
L	14-15	0.63700	485.58000	
L	15-16	0.42800	431.78000	
L	16-17	-1.33900	444.00000	
L	17-18	0.44600	447.66000	
L	18-19	-0.24700	413.04000	
L	19-20	-0.36800	437.02000	
L	20-21	0.33500	484.26000	
L	21-22	-0.03800	436.82000	
L	22-23	0.17100	464.14000	
L	23-24	-0.31700	493.04000	
L	24-25	-0.01300	467.90000	
L	25-26	-0.14100	460.62000	
L	26-27	0.75200	472.12000	
L	27-28	0.28300	433.22000	
L	28-29	1.06300	503.48000	
L	29-30	-0.03400	447.90000	
L	30-31	0.45300	440.22000	
L	31-32	0.17800	389.52000	
L	32-33	-0.40800	445.14000	
L	33-34	-0.43800	445.50000	
L	34-35	0.16800	414.62000	
L	35-36	0.52200	489.28000	
L	36-37	0.07300	423.48000	
L	37-38	-0.38500	456.42000	
L	38-39	-0.05200	457.12000	
L	39-40	-0.11000	459.04000	

L	40-41	-0.66100	442.74000
L	41-42	0.60500	491.20000
L	42-43	-0.08200	435.94000
L	43-44	1.02300	412.76000
L	44-45	-0.88500	363.04000
L	45-46	0.20000	402.14000
L	46-47	-0.67300	386.66000
L	47-48	0.69200	424.42000
L	48-49	-0.08700	437.00000
L	49-50	-0.52400	445.68000
L	50-51	-0.01700	468.64000
L	51-52	0.54800	449.12000
L	52-53	-0.16900	426.86000
L	53-54	0.61100	464.38000
L	54-55	-0.65800	462.40000
L	55-56	-0.54600	460.54000
L	56-57	0.01000	476.86000
L	57-58	0.82000	485.66000
L	58-59	-0.39800	468.22000
L	59-60	0.15000	465.08000
L	60-61	0.26900	481.26000
L	61-62	-0.39900	509.48000
L	62-63	-0.23100	477.66000
L	63-64	0.41500	455.98000
L	64-65	0.00300	506.08000
L	65-66	0.40800	456.04000
L	66-67	0.30100	481.28000
L	67-68	-0.14700	490.32000
L	68-69	0.97800	417.00000
L	69-70	0.08500	456.30000
L	70-71	-0.78300	459.40000
L	71-72	0.24600	457.18000
L	72-73	-0.56500	496.80000
L	73-74	-0.77700	457.30000
L	74-75	0.29700	449.40000
L	75-76	0.72500	424.84000
L	76-77	-0.14100	432.46000
L	77-78	-0.76700	422.96000
L	78-79	0.12300	441.86000
L	79-80	-0.13500	436.34000
L	80-81	0.56800	431.34000
L	81-82	0.10700	459.58000
L	82-83	0.26000	459.82000
L	83-84	-0.91800	417.32000
L	84-85	0.32900	417.68000
L	85-86	0.72300	463.46000
L	86-87	0.08100	425.66000
L	87-88	-0.20400	413.58000
L	88-89	-0.84400	432.88000
L	89-90	0.39200	414.24000
L	90-91	-0.85400	517.28000
L	91-92	-0.44200	259.74000
L	92-101	0.42600	252.08000
L	101-102	0.85500	517.44000

L	102-103	-0.38300	414.84000
L	103-104	1.43500	415.66000
L	104-105	-1.48900	398.26000
L	105-106	-0.40300	407.58000
L	106-107	0.22300	267.00000
L	107-108	0.46700	301.34000
L	108-109	-0.34300	417.74000
L	109-110	0.90700	417.62000
L	110-111	-0.25800	460.40000
L	111-112	-0.10400	461.00000
L	112-113	-0.58000	431.58000
L	113-114	0.12700	436.72000
L	114-115	-0.12100	441.86000
L	115-116	0.76300	423.24000
L	116-117	0.14900	432.38000
L	117-118	-0.72300	425.00000
L	118-119	-0.31000	449.74000
L	119-120	0.77600	457.46000
L	120-121	0.55800	497.34000
L	121-122	-0.23200	457.64000
L	122-123	0.77100	459.60000
L	123-124	-0.08600	456.40000
L	124-125	-0.98000	417.96000
L	125-126	0.15000	492.32000
L	126-127	-0.31400	481.68000
L	127-128	-0.40000	456.48000
L	128-129	-0.00100	506.70000
L	129-130	-0.40900	455.92000
L	130-131	0.24300	478.36000
L	131-132	0.41000	509.84000
L	132-133	-0.26900	481.14000
L	133-134	-0.16500	465.86000
L	134-135	0.41600	469.04000
L	135-136	-0.82100	485.76000
L	136-137	-0.00300	478.08000
L	137-138	0.54100	461.08000
L	138-139	0.65900	462.84000
L	139-140	-0.60800	464.80000
L	140-141	0.17100	427.46000
L	141-142	-0.55900	449.86000
L	142-143	0.01600	468.92000
L	143-144	0.53500	446.20000
L	144-145	0.08900	437.26000
L	145-146	-0.68700	424.88000
L	146-147	0.67100	386.76000
L	147-148	-0.22800	402.52000
L	148-149	-0.85900	443.86000
L	149-150	0.75100	329.96000
L	150-151	0.08300	436.72000
L	151-152	-0.61000	491.66000
L	152-153	0.66600	443.30000
L	153-154	0.10400	459.50000
L	154-155	0.06100	457.50000
L	155-156	0.37800	456.94000

L	156-157	-0.07600	423.90000
L	157-158	-0.54300	490.60000
L	158-159	-0.16600	415.36000
L	159-160	0.43300	446.12000
L	160-161	0.40000	444.58000
L	161-162	-0.17500	388.08000
L	162-163	-0.47400	441.42000
L	163-164	0.03200	448.58000
L	164-165	-1.06300	504.36000
L	165-166	-0.33100	514.44000
L	166-167	-0.70400	392.94000
L	167-168	0.13400	461.50000
L	168-169	0.01100	468.56000
L	169-170	0.31500	493.80000
L	170-171	-0.17000	463.82000
L	171-172	-0.14000	465.08000
L	172-173	-0.16000	456.94000
L	173-174	0.38300	437.80000
L	174-175	0.31900	338.28000
L	175-176	-0.02300	401.68000
L	176-177	1.03600	425.00000
L	177-178	-1.04800	554.20000
L	178-179	-0.13200	430.04000
L	179-180	0.01500	601.18000
L	180-W535	-1.28700	236.62000

Summary of Unadjusted Input Observations

Number of Entered Stations (FeetUS) = 2

Fixed Stations	Elev	Description
X535	19.6400	
W535	16.3700	

Number of Differential Level Observations (FeetUS) = 173

From	To	Elev Diff	StdErr	Length
X535	1	-2.5110	0.0029	440
1	2	0.4470	0.0029	431
2	3	-0.4420	0.0028	429
3	4	0.1490	0.0028	425
4	5	-0.7130	0.0028	424
5	6	0.6570	0.0029	446
6	7	0.3940	0.0029	446
7	8	0.7500	0.0029	452
8	9	-0.9100	0.0029	454
9	10	0.1370	0.0029	436
10	11	0.1170	0.0029	446
11	12	-0.7580	0.0030	460
12	13	0.5420	0.0029	459
13	14	0.0850	0.0030	461
14	15	0.6370	0.0030	486
15	16	0.4280	0.0029	432
16	17	-1.3390	0.0029	444
17	18	0.4460	0.0029	448
18	19	-0.2470	0.0028	413
19	20	-0.3680	0.0029	437
20	21	0.3350	0.0030	484
21	22	-0.0380	0.0029	437
22	23	0.1710	0.0030	464
23	24	-0.3170	0.0031	493
24	25	-0.0130	0.0030	468
25	26	-0.1410	0.0030	461
26	27	0.7520	0.0030	472
27	28	0.2830	0.0029	433
28	29	1.0630	0.0031	503
29	30	-0.0340	0.0029	448
30	31	0.4530	0.0029	440
31	32	0.1780	0.0027	390
32	33	-0.4080	0.0029	445
33	34	-0.4380	0.0029	446
34	35	0.1680	0.0028	415
35	36	0.5220	0.0030	489
36	37	0.0730	0.0028	423
37	38	-0.3850	0.0029	456
38	39	-0.0520	0.0029	457
39	40	-0.1100	0.0029	459
40	41	-0.6610	0.0029	443
41	42	0.6050	0.0031	491

42	43	-0.0820	0.0029	436
43	44	1.0230	0.0028	413
44	45	-0.8850	0.0026	363
45	46	0.2000	0.0028	402
46	47	-0.6730	0.0027	387
47	48	0.6920	0.0028	424
48	49	-0.0870	0.0029	437
49	50	-0.5240	0.0029	446
50	51	-0.0170	0.0030	469
51	52	0.5480	0.0029	449
52	53	-0.1690	0.0028	427
53	54	0.6110	0.0030	464
54	55	-0.6580	0.0030	462
55	56	-0.5460	0.0030	461
56	57	0.0100	0.0030	477
57	58	0.8200	0.0030	486
58	59	-0.3980	0.0030	468
59	60	0.1500	0.0030	465
60	61	0.2690	0.0030	481
61	62	-0.3990	0.0031	509
62	63	-0.2310	0.0030	478
63	64	0.4150	0.0029	456
64	65	0.0030	0.0031	506
65	66	0.4080	0.0029	456
66	67	0.3010	0.0030	481
67	68	-0.1470	0.0030	490
68	69	0.9780	0.0028	417
69	70	0.0850	0.0029	456
70	71	-0.7830	0.0029	459
71	72	0.2460	0.0029	457
72	73	-0.5650	0.0031	497
73	74	-0.7770	0.0029	457
74	75	0.2970	0.0029	449
75	76	0.7250	0.0028	425
76	77	-0.1410	0.0029	432
77	78	-0.7670	0.0028	423
78	79	0.1230	0.0029	442
79	80	-0.1350	0.0029	436
80	81	0.5680	0.0029	431
81	82	0.1070	0.0030	460
82	83	0.2600	0.0030	460
83	84	-0.9180	0.0028	417
84	85	0.3290	0.0028	418
85	86	0.7230	0.0030	463
86	87	0.0810	0.0028	426
87	88	-0.2040	0.0028	414
88	89	-0.8440	0.0029	433
89	90	0.3920	0.0028	414
90	91	-0.8540	0.0031	517
91	92	-0.4420	0.0022	260
92	101	0.4260	0.0022	252
101	102	0.8550	0.0031	517
102	103	-0.3830	0.0028	415
103	104	1.4350	0.0028	416

104	105	-1.4890	0.0027	398
105	106	-0.4030	0.0028	408
106	107	0.2230	0.0022	267
107	108	0.4670	0.0024	301
108	109	-0.3430	0.0028	418
109	110	0.9070	0.0028	418
110	111	-0.2580	0.0030	460
111	112	-0.1040	0.0030	461
112	113	-0.5800	0.0029	432
113	114	0.1270	0.0029	437
114	115	-0.1210	0.0029	442
115	116	0.7630	0.0028	423
116	117	0.1490	0.0029	432
117	118	-0.7230	0.0028	425
118	119	-0.3100	0.0029	450
119	120	0.7760	0.0029	457
120	121	0.5580	0.0031	497
121	122	-0.2320	0.0029	458
122	123	0.7710	0.0030	460
123	124	-0.0860	0.0029	456
124	125	-0.9800	0.0028	418
125	126	0.1500	0.0031	492
126	127	-0.3140	0.0030	482
127	128	-0.4000	0.0029	456
128	129	-0.0010	0.0031	507
129	130	-0.4090	0.0029	456
130	131	0.2430	0.0030	478
131	132	0.4100	0.0031	510
132	133	-0.2690	0.0030	481
133	134	-0.1650	0.0030	466
134	135	0.4160	0.0030	469
135	136	-0.8210	0.0030	486
136	137	-0.0030	0.0030	478
137	138	0.5410	0.0030	461
138	139	0.6590	0.0030	463
139	140	-0.6080	0.0030	465
140	141	0.1710	0.0028	427
141	142	-0.5590	0.0029	450
142	143	0.0160	0.0030	469
143	144	0.5350	0.0029	446
144	145	0.0890	0.0029	437
145	146	-0.6870	0.0028	425
146	147	0.6710	0.0027	387
147	148	-0.2280	0.0028	403
148	149	-0.8590	0.0029	444
149	150	0.7510	0.0025	330
150	151	0.0830	0.0029	437
151	152	-0.6100	0.0031	492
152	153	0.6660	0.0029	443
153	154	0.1040	0.0030	460
154	155	0.0610	0.0029	458
155	156	0.3780	0.0029	457
156	157	-0.0760	0.0028	424
157	158	-0.5430	0.0030	491

158	159	-0.1660	0.0028	415
159	160	0.4330	0.0029	446
160	161	0.4000	0.0029	445
161	162	-0.1750	0.0027	388
162	163	-0.4740	0.0029	441
163	164	0.0320	0.0029	449
164	165	-1.0630	0.0031	504
165	166	-0.3310	0.0031	514
166	167	-0.7040	0.0027	393
167	168	0.1340	0.0030	462
168	169	0.0110	0.0030	469
169	170	0.3150	0.0031	494
170	171	-0.1700	0.0030	464
171	172	-0.1400	0.0030	465
172	173	-0.1600	0.0029	457
173	174	0.3830	0.0029	438
174	175	0.3190	0.0025	338
175	176	-0.0230	0.0028	402
176	177	1.0360	0.0028	425
177	178	-1.0480	0.0032	554
178	179	-0.1320	0.0029	430
179	180	0.0150	0.0034	601
180	W535	-1.2870	0.0021	237

Adjustment Statistical Summary

Number of Stations = 174

Number of Observations = 173
Number of Unknowns = 172
Number of Redundant Obs = 1

Observation	Count	Sum Squares of StdRes	Error Factor
Level Data	173	2.724	1.651
Total	173	2.724	1.651

The Chi-Square Test at 5.00% Level Passed
Lower/Upper Bounds (0.031/2.241)

Adjusted Elevations and Error Propagation (FeetUS)

Station	Elev	StdDev	95%	Description
X535	19.6400	0.000000	0.000000	
W535	16.3700	0.000000	0.000000	
1	17.1294	0.002879	0.005642	
2	17.5767	0.004040	0.007918	
3	17.1351	0.004920	0.009644	
4	17.2844	0.005652	0.011077	
5	16.5718	0.006291	0.012329	
6	17.2291	0.006892	0.013507	
7	17.6235	0.007437	0.014577	
8	18.3739	0.007946	0.015574	
9	17.4642	0.008421	0.016504	
10	17.6016	0.008847	0.017340	
11	17.7190	0.009257	0.018144	
12	16.9613	0.009658	0.018929	
13	17.5037	0.010036	0.019670	
14	17.5891	0.010396	0.020377	
15	18.2265	0.010758	0.021086	
16	18.6548	0.011066	0.021688	
17	17.3162	0.011369	0.022282	
18	17.7626	0.011662	0.022858	
19	17.5159	0.011923	0.023369	
20	17.1483	0.012189	0.023890	
21	17.4837	0.012473	0.024447	
22	17.4460	0.012720	0.024930	
23	17.6174	0.012973	0.025426	
24	17.3008	0.013232	0.025934	
25	17.2882	0.013469	0.026399	
26	17.1476	0.013694	0.026841	
27	17.8999	0.013918	0.027279	
28	18.1833	0.014117	0.027668	
29	19.2467	0.014340	0.028106	
30	19.2131	0.014532	0.028482	
31	19.6664	0.014715	0.028841	
32	19.8448	0.014873	0.029150	
33	19.4371	0.015048	0.029493	
34	18.9995	0.015217	0.029826	
35	19.1678	0.015371	0.030127	
36	19.6902	0.015547	0.030471	
37	19.7636	0.015694	0.030760	
38	19.3790	0.015849	0.031063	
39	19.3273	0.015998	0.031356	
40	19.2177	0.016144	0.031642	
41	18.5571	0.016281	0.031909	
42	19.1625	0.016427	0.032197	
43	19.0808	0.016553	0.032444	
44	20.1042	0.016669	0.032671	
45	19.2195	0.016768	0.032865	
46	19.4198	0.016875	0.033075	
47	18.7471	0.016975	0.033270	
48	19.4395	0.017082	0.033479	

49	19.3528	0.017188	0.033688
50	18.8292	0.017293	0.033893
51	18.8126	0.017400	0.034102
52	19.3609	0.017498	0.034296
53	19.1923	0.017589	0.034474
54	19.8037	0.017684	0.034660
55	19.1460	0.017775	0.034839
56	18.6004	0.017863	0.035011
57	18.6108	0.017950	0.035182
58	19.4312	0.018035	0.035349
59	19.0336	0.018114	0.035503
60	19.1840	0.018189	0.035650
61	19.4534	0.018263	0.035795
62	19.0548	0.018338	0.035942
63	18.8242	0.018405	0.036072
64	19.2395	0.018465	0.036191
65	19.2430	0.018529	0.036316
66	19.6513	0.018583	0.036422
67	19.9527	0.018637	0.036529
68	19.8061	0.018689	0.036630
69	20.7845	0.018731	0.036712
70	20.8698	0.018774	0.036796
71	20.0872	0.018814	0.036874
72	20.3336	0.018851	0.036947
73	19.7690	0.018888	0.037020
74	18.9924	0.018920	0.037082
75	19.2897	0.018948	0.037137
76	20.0151	0.018972	0.037184
77	19.8744	0.018994	0.037228
78	19.1078	0.019013	0.037265
79	19.2312	0.019031	0.037300
80	19.0965	0.019046	0.037329
81	19.6649	0.019058	0.037353
82	19.7722	0.019069	0.037374
83	20.0326	0.019076	0.037389
84	19.1150	0.019081	0.037398
85	19.4443	0.019084	0.037403
86	20.1677	0.019084	0.037403
87	20.2490	0.019081	0.037399
88	20.0454	0.019077	0.037390
89	19.2017	0.019070	0.037376
90	19.5941	0.019061	0.037358
91	18.7405	0.019046	0.037330
92	18.2987	0.019037	0.037313
101	18.7249	0.019028	0.037295
102	19.5803	0.019007	0.037253
103	19.1977	0.018987	0.037214
104	20.6330	0.018965	0.037171
105	19.1443	0.018942	0.037126
106	18.7417	0.018916	0.037075
107	18.9649	0.018898	0.037039
108	19.4321	0.018876	0.036997
109	19.0895	0.018844	0.036934
110	19.9968	0.018810	0.036867

111	19.7392	0.018769	0.036788
112	19.6356	0.018726	0.036702
113	19.0559	0.018683	0.036617
114	19.1833	0.018636	0.036526
115	19.0626	0.018586	0.036429
116	19.8260	0.018536	0.036330
117	19.9753	0.018482	0.036225
118	19.2527	0.018427	0.036116
119	18.9431	0.018365	0.035995
120	19.7194	0.018300	0.035867
121	20.2778	0.018225	0.035720
122	20.0462	0.018153	0.035579
123	20.8176	0.018077	0.035431
124	20.7320	0.017999	0.035277
125	19.7523	0.017924	0.035131
126	19.9027	0.017833	0.034953
127	19.5891	0.017740	0.034771
128	19.1895	0.017649	0.034591
129	19.1889	0.017543	0.034384
130	18.7803	0.017445	0.034191
131	19.0237	0.017338	0.033981
132	19.4341	0.017219	0.033748
133	19.1655	0.017103	0.033521
134	19.0009	0.016986	0.033293
135	19.4172	0.016865	0.033055
136	18.5966	0.016735	0.032801
137	18.5940	0.016603	0.032541
138	19.1354	0.016471	0.032283
139	19.7948	0.016335	0.032016
140	19.1872	0.016193	0.031738
141	19.3585	0.016059	0.031475
142	18.7999	0.015913	0.031190
143	18.8163	0.015757	0.030883
144	19.3516	0.015603	0.030582
145	19.4410	0.015448	0.030278
146	18.7543	0.015293	0.029974
147	19.4257	0.015148	0.029690
148	19.1980	0.014993	0.029385
149	18.3394	0.014817	0.029040
150	19.0906	0.014682	0.028777
151	19.1740	0.014500	0.028419
152	18.5644	0.014287	0.028002
153	19.2307	0.014089	0.027615
154	19.3351	0.013878	0.027200
155	19.3965	0.013660	0.026773
156	19.7749	0.013435	0.026332
157	19.6992	0.013219	0.025909
158	19.1566	0.012961	0.025403
159	18.9910	0.012735	0.024959
160	19.4243	0.012483	0.024467
161	19.8247	0.012223	0.023957
162	19.6500	0.011989	0.023497
163	19.1764	0.011712	0.022956
164	19.2087	0.011420	0.022383

165	18.1462	0.011077	0.021711
166	17.8156	0.010710	0.020991
167	17.1119	0.010417	0.020416
168	17.2463	0.010056	0.019710
169	17.2577	0.009671	0.018955
170	17.5731	0.009242	0.018114
171	17.4034	0.008813	0.017274
172	17.2638	0.008355	0.016376
173	17.1042	0.007872	0.015430
174	17.4876	0.007374	0.014453
175	17.8068	0.006960	0.013641
176	17.7842	0.006428	0.012598
177	18.8205	0.005804	0.011376
178	17.7730	0.004860	0.009525
179	17.6413	0.003962	0.007765
180	17.6568	0.002114	0.004143

Adjusted Observations and Residuals

Adjusted Differential Level Observations (FeetUS)

From	To	Elev Diff	Residual	StdErr	StdRes
X535	1	-2.5106	0.0004	0.0029	0.1
1	2	0.4474	0.0004	0.0029	0.1
2	3	-0.4416	0.0004	0.0028	0.1
3	4	0.1493	0.0003	0.0028	0.1
4	5	-0.7127	0.0003	0.0028	0.1
5	6	0.6574	0.0004	0.0029	0.1
6	7	0.3944	0.0004	0.0029	0.1
7	8	0.7504	0.0004	0.0029	0.1
8	9	-0.9096	0.0004	0.0029	0.1
9	10	0.1374	0.0004	0.0029	0.1
10	11	0.1174	0.0004	0.0029	0.1
11	12	-0.7576	0.0004	0.0030	0.1
12	13	0.5424	0.0004	0.0029	0.1
13	14	0.0854	0.0004	0.0030	0.1
14	15	0.6374	0.0004	0.0030	0.1
15	16	0.4284	0.0004	0.0029	0.1
16	17	-1.3386	0.0004	0.0029	0.1
17	18	0.4464	0.0004	0.0029	0.1
18	19	-0.2467	0.0003	0.0028	0.1
19	20	-0.3676	0.0004	0.0029	0.1
20	21	0.3354	0.0004	0.0030	0.1
21	22	-0.0376	0.0004	0.0029	0.1
22	23	0.1714	0.0004	0.0030	0.1

23	24	-0.3166	0.0004	0.0031
0.1				
24	25	-0.0126	0.0004	0.0030
0.1				
25	26	-0.1406	0.0004	0.0030
0.1				
26	27	0.7524	0.0004	0.0030
0.1				
27	28	0.2834	0.0004	0.0029
0.1				
28	29	1.0634	0.0004	0.0031
0.1				
29	30	-0.0336	0.0004	0.0029
0.1				
30	31	0.4534	0.0004	0.0029
0.1				
31	32	0.1783	0.0003	0.0027
0.1				
32	33	-0.4076	0.0004	0.0029
0.1				
33	34	-0.4376	0.0004	0.0029
0.1				
34	35	0.1683	0.0003	0.0028
0.1				
35	36	0.5224	0.0004	0.0030
0.1				
36	37	0.0733	0.0003	0.0028
0.1				
37	38	-0.3846	0.0004	0.0029
0.1				
38	39	-0.0516	0.0004	0.0029
0.1				
39	40	-0.1096	0.0004	0.0029
0.1				
40	41	-0.6606	0.0004	0.0029
0.1				
41	42	0.6054	0.0004	0.0031
0.1				
42	43	-0.0816	0.0004	0.0029
0.1				
43	44	1.0233	0.0003	0.0028
0.1				
44	45	-0.8847	0.0003	0.0026
0.1				
45	46	0.2003	0.0003	0.0028
0.1				
46	47	-0.6727	0.0003	0.0027
0.1				
47	48	0.6923	0.0003	0.0028
0.1				
48	49	-0.0866	0.0004	0.0029
0.1				
49	50	-0.5236	0.0004	0.0029
0.1				

50	51	-0.0166	0.0004	0.0030
0.1				
51	52	0.5484	0.0004	0.0029
0.1				
52	53	-0.1687	0.0003	0.0028
0.1				
53	54	0.6114	0.0004	0.0030
0.1				
54	55	-0.6576	0.0004	0.0030
0.1				
55	56	-0.5456	0.0004	0.0030
0.1				
56	57	0.0104	0.0004	0.0030
0.1				
57	58	0.8204	0.0004	0.0030
0.1				
58	59	-0.3976	0.0004	0.0030
0.1				
59	60	0.1504	0.0004	0.0030
0.1				
60	61	0.2694	0.0004	0.0030
0.1				
61	62	-0.3986	0.0004	0.0031
0.1				
62	63	-0.2306	0.0004	0.0030
0.1				
63	64	0.4154	0.0004	0.0029
0.1				
64	65	0.0034	0.0004	0.0031
0.1				
65	66	0.4084	0.0004	0.0029
0.1				
66	67	0.3014	0.0004	0.0030
0.1				
67	68	-0.1466	0.0004	0.0030
0.1				
68	69	0.9783	0.0003	0.0028
0.1				
69	70	0.0854	0.0004	0.0029
0.1				
70	71	-0.7826	0.0004	0.0029
0.1				
71	72	0.2464	0.0004	0.0029
0.1				
72	73	-0.5646	0.0004	0.0031
0.1				
73	74	-0.7766	0.0004	0.0029
0.1				
74	75	0.2974	0.0004	0.0029
0.1				
75	76	0.7253	0.0003	0.0028
0.1				
76	77	-0.1406	0.0004	0.0029
0.1				

77	78	-0.7667	0.0003	0.0028
0.1				
78	79	0.1234	0.0004	0.0029
0.1				
79	80	-0.1346	0.0004	0.0029
0.1				
80	81	0.5684	0.0004	0.0029
0.1				
81	82	0.1074	0.0004	0.0030
0.1				
82	83	0.2604	0.0004	0.0030
0.1				
83	84	-0.9177	0.0003	0.0028
0.1				
84	85	0.3293	0.0003	0.0028
0.1				
85	86	0.7234	0.0004	0.0030
0.1				
86	87	0.0813	0.0003	0.0028
0.1				
87	88	-0.2037	0.0003	0.0028
0.1				
88	89	-0.8436	0.0004	0.0029
0.1				
89	90	0.3923	0.0003	0.0028
0.1				
90	91	-0.8536	0.0004	0.0031
0.1				
91	92	-0.4418	0.0002	0.0022
0.1				
92	101	0.4262	0.0002	0.0022
0.1				
101	102	0.8554	0.0004	0.0031
0.1				
102	103	-0.3827	0.0003	0.0028
0.1				
103	104	1.4353	0.0003	0.0028
0.1				
104	105	-1.4887	0.0003	0.0027
0.1				
105	106	-0.4027	0.0003	0.0028
0.1				
106	107	0.2232	0.0002	0.0022
0.1				
107	108	0.4672	0.0002	0.0024
0.1				
108	109	-0.3427	0.0003	0.0028
0.1				
109	110	0.9073	0.0003	0.0028
0.1				
110	111	-0.2576	0.0004	0.0030
0.1				
111	112	-0.1036	0.0004	0.0030
0.1				

112	113	-0.5796	0.0004	0.0029
0.1				
113	114	0.1274	0.0004	0.0029
0.1				
114	115	-0.1206	0.0004	0.0029
0.1				
115	116	0.7633	0.0003	0.0028
0.1				
116	117	0.1494	0.0004	0.0029
0.1				
117	118	-0.7227	0.0003	0.0028
0.1				
118	119	-0.3096	0.0004	0.0029
0.1				
119	120	0.7764	0.0004	0.0029
0.1				
120	121	0.5584	0.0004	0.0031
0.1				
121	122	-0.2316	0.0004	0.0029
0.1				
122	123	0.7714	0.0004	0.0030
0.1				
123	124	-0.0856	0.0004	0.0029
0.1				
124	125	-0.9797	0.0003	0.0028
0.1				
125	126	0.1504	0.0004	0.0031
0.1				
126	127	-0.3136	0.0004	0.0030
0.1				
127	128	-0.3996	0.0004	0.0029
0.1				
128	129	-0.0006	0.0004	0.0031
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129	130	-0.4086	0.0004	0.0029
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130	131	0.2434	0.0004	0.0030
0.1				
131	132	0.4104	0.0004	0.0031
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132	133	-0.2686	0.0004	0.0030
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133	134	-0.1646	0.0004	0.0030
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134	135	0.4164	0.0004	0.0030
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135	136	-0.8206	0.0004	0.0030
0.1				
136	137	-0.0026	0.0004	0.0030
0.1				
137	138	0.5414	0.0004	0.0030
0.1				
138	139	0.6594	0.0004	0.0030
0.1				

139	140	-0.6076	0.0004	0.0030
0.1				
140	141	0.1714	0.0004	0.0028
0.1				
141	142	-0.5586	0.0004	0.0029
0.1				
142	143	0.0164	0.0004	0.0030
0.1				
143	144	0.5354	0.0004	0.0029
0.1				
144	145	0.0894	0.0004	0.0029
0.1				
145	146	-0.6867	0.0003	0.0028
0.1				
146	147	0.6713	0.0003	0.0027
0.1				
147	148	-0.2277	0.0003	0.0028
0.1				
148	149	-0.8586	0.0004	0.0029
0.1				
149	150	0.7513	0.0003	0.0025
0.1				
150	151	0.0834	0.0004	0.0029
0.1				
151	152	-0.6096	0.0004	0.0031
0.1				
152	153	0.6664	0.0004	0.0029
0.1				
153	154	0.1044	0.0004	0.0030
0.1				
154	155	0.0614	0.0004	0.0029
0.1				
155	156	0.3784	0.0004	0.0029
0.1				
156	157	-0.0757	0.0003	0.0028
0.1				
157	158	-0.5426	0.0004	0.0030
0.1				
158	159	-0.1657	0.0003	0.0028
0.1				
159	160	0.4334	0.0004	0.0029
0.1				
160	161	0.4004	0.0004	0.0029
0.1				
161	162	-0.1747	0.0003	0.0027
0.1				
162	163	-0.4736	0.0004	0.0029
0.1				
163	164	0.0324	0.0004	0.0029
0.1				
164	165	-1.0626	0.0004	0.0031
0.1				
165	166	-0.3306	0.0004	0.0031
0.1				

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166             167                    -0.7037        0.0003   0.0027
0.1
167             168                     0.1344        0.0004   0.0030
0.1
168             169                     0.0114        0.0004   0.0030
0.1
169             170                     0.3154        0.0004   0.0031
0.1
170             171                    -0.1696        0.0004   0.0030
0.1
171             172                    -0.1396        0.0004   0.0030
0.1
172             173                    -0.1596        0.0004   0.0029
0.1
173             174                     0.3834        0.0004   0.0029
0.1
174             175                     0.3193        0.0003   0.0025
0.1
175             176                    -0.0227        0.0003   0.0028
0.1
176             177                     1.0363        0.0003   0.0028
0.1
177             178                    -1.0475        0.0005   0.0032
0.1
178             179                    -0.1316        0.0004   0.0029
0.1
179             180                     0.0155        0.0005   0.0034
0.1
180             W535                   -1.2868        0.0002   0.0021
0.1


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41
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01 00000006 Summary of Files Used and Option Settings
02 00000009 Project Folder and Data Files
02 00000015 Project Option Settings
02 00000023 Instrument Standard Error Settings
03 00000025 Project Default Instrument
01 00000028 Listing of Input Data
01 00000217 Summary of Unadjusted Input Observations
02 00000220 Entered Stations
03 00000222 Fixed Elevations
02 00000226 Differential Level Observations
01 00000403 Adjustment Statistical Summary
01 00000421 Adjusted Elevations and Error Propagation
01 00000600 Adjusted Observations and Residuals
02 00000603 Adjusted Differential Level Observations
01 00000779 End of File
0000B71B
STARPLUS
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