```
Identification_Information:
        Citation:
                Citation_Information:
                        Originator: Robert J. Bills(comp.)
                        Originator: U.S. Army Engineer District, Jacksonville (ed.)
                        Publication_Date: Unpublished material
                        Publication_Time: Unknown
                        Title: S.F.W.M.D. Well HF-7
                        Edition: 1
                        Series_Information:
                        Publication_Information:
                                Publication_Place: Not published
                                Publisher: None
                        Online_Linkage: bbills@cte.cc
                        Larger_Work_Citation:
                                Citation_Information:
                                        Series_Information:
                                        Publication_Information:
        Description:
                Abstract:
                        South Florida Water Management District
                        Well HF-7
                Purpose:
                        To establish NAVD 88 and NGVD 29 elevations on the
                        well platform at the reference mark. Also establish a
                        nearby site benchmark.
                Supplemental_Information:
                        Gates may be locked.
                        Bob Roth
                        Barron Collier Company
                        (239) 657-2337
                        (239) 658-6060
                        There is a lock on the well.
                        See point of contact for key.
        Time_Period_of_Content:
                Time_Period_Information:
                        Single_Date/Time:
                                Calendar_Date: 20030311
                                Time_of_Day: 17000000
                        Range_of_Dates/Times:
                        Multiple_Dates/Times:
                Currentness_Reference: Date and time of field work
        Status:
                Progress: Complete
                Maintenance_and_Update_Frequency: Unknown
        Spatial_Domain:
                Bounding_Coordinates:
                        West_Bounding_Coordinate: -081°31'36.01"
                        East_Bounding_Coordinate: -081°31'36.01"
                        North_Bounding_Coordinate: +26°23'51.13"
                        South_Bounding_Coordinate: +26°23'51.13"
        Keywords:
                Theme:
                        Theme_Keyword_Thesaurus: None
                        Theme_Keyword: Record Survey
                        Theme_Keyword: Well Site
                Place:
                        Place_Keyword_Thesaurus: None
                        Place_Keyword: S.F.W.M.D. Well HF-7
                        Place_Keyword: Sec. 09, Twp. 47 S., Rge 28 E.
                        Place_Keyword: Collier County, Florida
                        Place_Keyword_Thesaurus: Geographic Names Information System
                        Place_Keyword: Florida
                        Place_Keyword: Collier County
                Stratum:
                Temporal:
        Access_Constraints: None
        Use_Constraints: None
        Point_of_Contact:
                Contact_Information:
```

Consul-Tech Surveying and Mapping

Purpose

Survey Date

Tim Howard

Contact_Person_Primary:
Contact_Person: Tim Howard
Contact_Organization: South Florida Water Management District, Big Cypress Basin
Contact_Organization_Primary:
Contact_Address:
Address_Type: mailing and physical address
Address: 6167 Janes Lane
City: Naples
State_or_Province: Florida
Postal_Code: 34109
Country: USA
Contact_Voice_Telephone: (239) 597 1505
Hours_of_Service: 8:00 am to 5:00 pm EST
Security_Information:
Cross_Reference:
Citation_Information:
Series_Information:
Publication_Information:
Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report:

Equipment Used

This survey was prepared using GPS and Leveling instruments. The horizontal locations of the well and benchmark was performed using GPS.
The vertical data was collected using a Wild NA2 Level.
Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD 88 and NGVD 29.
Logical_Consistency_Report:
Horizontal data was established using sub-meter GPS equipment. Vertical data was established using NGS control points Y 534 and X 534.
Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD 88 and NGVD 29.
Completeness_Report:

Project Results

Horizontal location taken at approximate center of well.
Lat. +26°23'51.13"
Long. -081°31'36.01"
N 750534'
E 483767'
MP -- No mark on platform.
RP -- Top of 2" PVC marked 24.64
23.57' (NAVD 88)
24.88' (NGVD 29) Based on NGS NGVD 29 adjustment of CERP vertical network.
No staff gage
Site Benchmark.
"COLL-45" is a standard U.S. Army Corps of Engineers brass disc, bearing COLL-45 2003 JAX DIST SFWMD, set in a 10" round concrete monument (poured in place, with a magnet placed nearby).
From the intersection of SR 29 and CR 846 (Immokalee road); Go south along CR-846 8.0 miles to the intersection with Oil Well grade. Go north along Oil Well grade 0.8 mile to an east-west dirt road. Go east 0.5 miles to a 90 degree bend to the north. Go north 1.1 miles to an equipment barn. Go west along a dirt road 0.6 mile to a Jeep Trail running north. Go north along Jeep trail 430 feet to a small clearing; Follow clearing southwest 100 feet, to COLL-45.
United States Department of the Interior Geologic Survey Quadrangle map -- CORKSCREW
horizontal location.
Lat. +26°23'49.69"
Long. -081°31'34.85"
N 750388'
E 483871'
elevations.

```
                20.49' (NAVD 88)
                21.80' (NGVD 29) Based on NGS NGVD 29 adjustment of
                CERP vertical network.
        Positional_Accuracy:
                Horizontal_Positional_Accuracy:
Horizontal              Horizontal_Positional_Accuracy_Report:
                                The horizontal position of the well HF-7 and benchmark
                                COLL-45, was established using a differential, submeter,
                                wide area augmentation system, GPS, using Coast Guard
                                and FAA beacons for corrected positioning (Trimble
                                Geoexplorer CE with Beacon on a Belt) in accordance with
                                the Florida Minimum Technical Standards (Chapter
                                61G17-6).
                        Quantitative_Horizontal_Positional_Accuracy_Assessment:
                                Horizontal_Positional_Accuracy_Value: 1 meter
                                Horizontal_Positional_Accuracy_Explanation: The intended
positional accuracy for this survey is 1 meter.
                Vertical_Positional_Accuracy:
Level Line              Vertical_Positional_Accuracy_Report:
                                A level line was run originating on BM Y 534 with an
                                NAVD 88 elevation, running through COLL-49, COLL-46,
                                COLL-45 and terminating on BM X 534 in accordance with
                                Florida Minimum Technical Standards (Chapter 61G17-6).
                                The level line was also readjusted using the values from
                                the NGS NGVD 29 adjustment of the CERP vertical
                                network.
                        Quantitative_Vertical_Positional_Accuracy_Assessment:
                                Vertical_Positional_Accuracy_Value: 0.020 m
                                Vertical_Positional_Accuracy_Explanation: NAVD 88 level
run, 0.020 m closure in 13,976 m, max. allowed 0.045 m (MTS)
                        Quantitative_Vertical_Positional_Accuracy_Assessment:
                                Vertical_Positional_Accuracy_Value: 0.021 m
                                Vertical_Positional_Accuracy_Explanation: NGVD 29 level
run, 0.021 m closure in 13,976 m, max. allowed 0.045 m (MTS)
        Lineage:
                Source_Information:
                        Source_Citation:
                                Citation_Information:
                                        Series_Information:
                                        Publication_Information:
                                        Larger_Work_Citation:
                                                Citation_Information:
                                                        Series_Information:
                                                        Publication_Information:
                        Source_Time_Period_of_Content:
                                Time_Period_Information:
                                        Single_Date/Time:
                                        Range_of_Dates/Times:
                                        Multiple_Dates/Times:
                Process_Step:
                        Process_Description:
                                The horizontal work was performed using Trimble
                                Geoexplorer CE with Beacon on a Belt GPS.
                                The level line was performed using a Wild NA2 level.
                                Three wire methodogy was used.
                        Process_Date: 20030311
                        Process_Time: 17000000
                        Process_Contact:
                                Contact_Information:
                                        Contact_Person_Primary:
                                        Contact_Organization_Primary:
                                        Contact_Address:
Spatial_Data_Organization_Information:
        Spatial_Reference_Information:
                Horizontal_Coordinate_System_Definition:
                        Geographic:
                        Planar:
                                Map_Projection:
                                        Albers_Conical_Equal_Area:
                                        Azimuthal_Equidistant:
```

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                                        Equidistant_Conic:
                                        Equirectangular:
                                        General_Vertical_Near-sided_Perspective:
                                        Gnomonic:
                                        Lambert_Azimuthal_Equal_Area:
                                        Lambert_Conformal_Conic:
                                        Mercator:
                                        Modified_Stereographic_for_Alaska:
                                        Miller_Cylindrical:
                                        Oblique_Mercator:
                                                Oblique_Line_Point:
                                        Orthographic:
                                        Polar_Stereographic:
                                        Polyconic:
                                        Robinson:
                                        Sinusoidal:
                                        van_der_Grinten:
                                        Space_Oblique_Mercator_(Landsat):
                                        Stereographic:
                                        Transverse_Mercator:
                                        van_der_Grinten:
                                Grid_Coordinate_System:
                                        Universal_Transverse_Mercator:
                                                Transverse_Mercator:
                                        Universal_Polar_Stereographic:
                                                Polar_Stereographic:
                                        State_Plane_Coordinate_System:
                                                Lambert_Conformal_Conic:
                                                Transverse_Mercator:
                                                Oblique_Mercator:
                                                        Oblique_Line_Point:
                                                Polyconic:
                                        ARC_Coordinate_System:
                                                Equirectangular:
                                                Azimuthal_Equidistant:
                                Local_Planar:
                                Planar_Coordinate_Information:
                                        Coordinate_Representation:
                                        Distance_and_Bearing_Representation:
                        Local:
                        Geodetic_Model:
                Vertical_Coordinate_System_Definition:
                        Altitude_System_Definition:
                        Depth_System_Definition:
Entity_and_Attribute_Information:
        Detailed_Description:
                Entity_Type:
                Attribute:
                        Attribute_Domain_Values:
                        Attribute_Value_Accuracy_Information:
        Overview_Description:
Distribution_Information:
        Distributor:
                Contact_Information:
                        Contact_Person_Primary:
                        Contact_Organization_Primary:
                        Contact_Address:
        Standard_Order_Process:
                Digital_Form:
                        Digital_Transfer_Information:
                        Digital_Transfer_Option:
                                Online_Option:
                                        Computer_Contact_Information:
                                                Network_Address:
                                                Dialup_Instructions:
                                OffLine_Option:
                                        Recording_Capacity:
        Available_Time_Period:
                Time_Period_Information:
                        Single_Date/Time:
```

```
                        Range_of_Dates/Times:
                        Multiple_Dates/Times:
Metadata_Reference_Information:
        Metadata_Date: 20030325
        Metadata_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Joseph S. Boggs
                                Contact_Organization: Consul-Tech Surveying & Mapping
                        Contact_Organization_Primary:
                        Contact_Position: Project Surveyor
                        Contact_Address:
                                Address_Type: mailing and physical address
                                Address: 24831 Old 41 Road
                                City: Bonita Springs
                                State_or_Province: Florida
                                Postal_Code: 34135
                                Country: USA
                        Contact_Voice_Telephone: (239) 947-0266
                        Contact_Facsimile_Telephone: (239) 947-1323
                        Contact_Electronic_Mail_Address: jboggs@cte.cc
                        Hours_of_Service: 8:00 am to 5:00 pm EST
        Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
        Metadata_Standard_Version: FGDC-STD-001-1998
        Metadata_Time_Convention: Local time
        Metadata_Security_Information:
```

S.F.W.M.D. Well – HF-7

Consul-Tech Surveying & Mapping, Inc.

Date of Survey: March 10, 2003

Looking: Westerly

S.F.W.M.D. Well – HF-7

Consul-Tech Surveying & Mapping, Inc.

Date of Survey: March 10, 2003

Looking: Southerly

S.F.W.M.D. Well – HF-7

Consul-Tech Surveying & Mapping, Inc.

Date of Survey: March 10, 2003

Looking: Southerly

S.F.W.M.D. Well – HF-7

Consul-Tech Surveying & Mapping, Inc.

Date of Survey: March 10, 2003

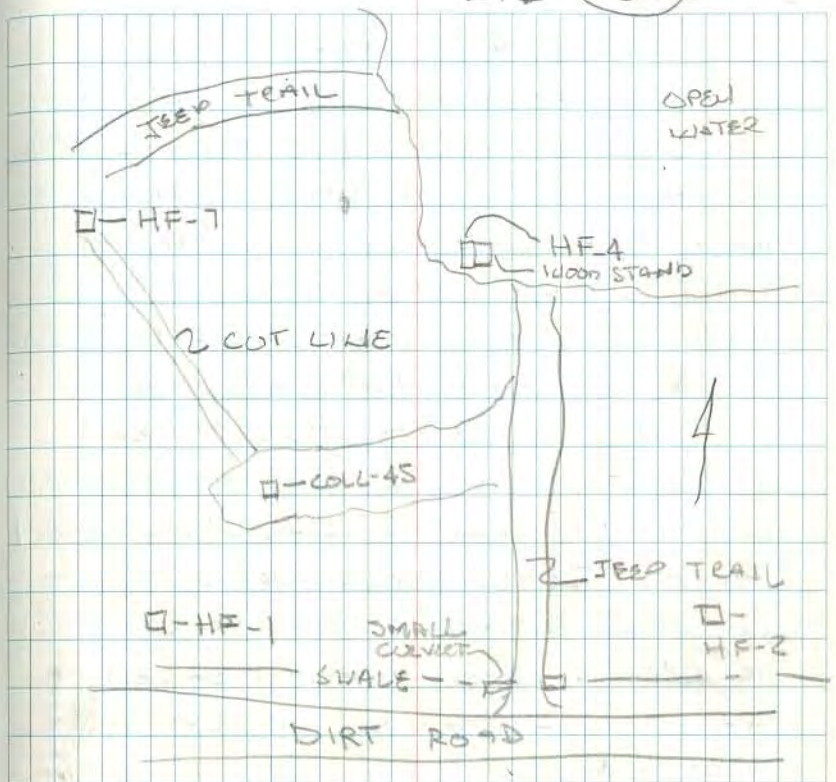
C. Rose | R. Bills 2/27/03

COLL-45 / HF4 + HF7

LOCATION: FROM THE INTX SR-29 AND CR-846 (IMMOKALEE RD) GO SOUTH ALONG CR-846 8.0 MI +/- TO OIL WELL GRADE AND GO NORTH ALONG OILWELL GRADE 0.8 MI TO AN EAST WEST DIRT ROAD. GO EAST 0.5 MI +/- AND TURN NORTH AND GO 1.1 MI +/- TO AN EQUIPTMENT BARN GO WEST 0.6 MI +/- TO A JEEP TRAIL GOING NORTH. GO NORTH APPROX 500 FEET TO HF4 AT THE SOUTH EDGE OF A CLEARING. COLL-45 IS A STANDARD US ARMY CORP OF ENGINEER BRASS DISC, FROM HF4 GO SOUTH ALONG SAID JEEP TRAIL 70 FEET +/- TO A SMALL CLEARING GOING SOUTH-WEST, FOLLOW CLEARING APPROX. 100' TO MON COLL-45 APPROX 0.5' ABOVE GROUND. FROM COLL-45 GO NORTH-NORTH WEST 160' +/- TO HF-7.

SPCS ARE NAD83 / FLA EAST / FEET

OBTAINED USING TRIMBLE GEO EXPLORER CE S/N# 42445 14618 WITH A BEACON ON A BELT



HF-4 N 750504.9 (F)
E 483961.8 (F)
HF-7 N 750533.9 (F)
E 483766.8 (F)
COLL-45 N 750387.9 (F)
E 483871.4 (F)

MAGNET PLACED 6" EAST OF COLL-45

COMPLETED @ 12:00 PM

SOUTH FLORIDA WATER MANAGEMENT DISTRICT Rev. 4/01

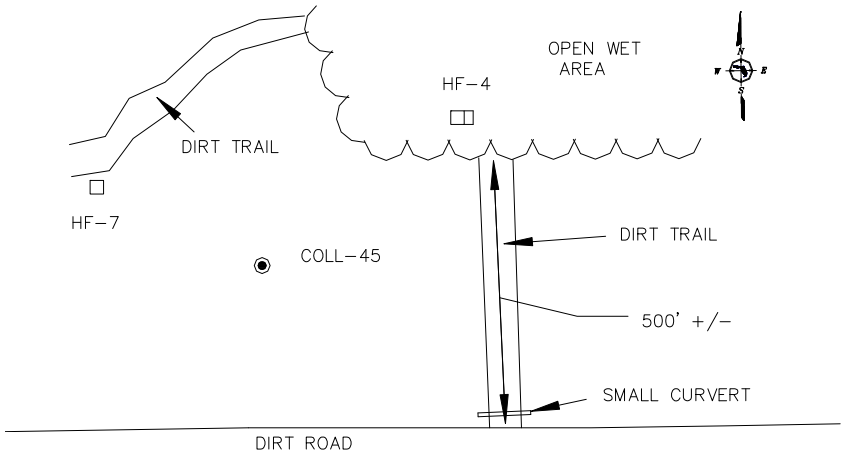
COUNTY COLLIER	**PROJECT WELL SITES**	**DESIGNATION COLL-45**
SECTION 09	**TOWNSHIP 47 SOUTH**	**RANGE 28 EAST**
GEOGRAPHIC INDEX OF QUAD Florida		
Established by Consul-Tech Surveying and Mapping, inc.	**NAME OF QUADRANGLE CORKSCREW**	
SURVEYOR Joseph S. Boggs **DATE** 3 / 10 / 2003	**FIELD BOOK** 516-5 **PAGE** ~~24~~ **20**	
HORIZONTAL DATUM: **83/90** ZONE **EAST**		
VERTICAL DATUM: NAVD 88 & NGVD 29 (Based on NGS adjustment of CERP vertical network)		
CONTROL ACCURACY: HORIZONTAL SUB-METER **VERTICAL 3rd Order** **20.492**		
STATE PLANE COORDINATES Feet	**X=483871**	**Y=750388**	**EL.=~~20.49~~' (NAVD 88)** **EL.=~~21.80~~' (NGVD 29)**
LATITUDE 26°23'49.69" N	LONGITUDE 081°31'34.85" W **21.804**		

DESCRIPTION

To Reach: From the intersection of SR-29 and CR-846: Go south along CR-846 8.0 miles to the intersection with Oil Well grade. Go north along Oil Well grade 0.8 mile to an east-west dirt road. Go east 0.5 miles to a 90 degree bend to the north. Go north 1.1 miles to an equipment barn. Go west along a dirt road 0.6 mile to a Jeep Trail running north. Go north along Jeep trail 430 feet to a small clearing; Follow clearing southwest 100 feet, to COLL-45.

COLL-45 is a 10" round concrete monument (formed in place with a magnet placed nearby) with a standard Army Corps of Engineers brass disk, bearing "COLL-45 2003 JAX. DIST. SFWMD"

SKETCH




CORPS OF ENGINEERS-U.S. ARMY
$250 FINE OR IMPRISONMENT
STATION DESIGNATION
YEAR 2003
AGENCY
FOR DISTURBING THIS MARK
SURVEY

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1        National Geodetic Survey,   Retrieval Date = DECEMBER 14, 2015
 AJ7589 ***********************************************************************
 AJ7589  DESIGNATION -  Y 534
 AJ7589  PID         -  AJ7589
 AJ7589  STATE/COUNTY-  FL/COLLIER
 AJ7589  COUNTRY     -  US
 AJ7589  USGS QUAD   -  CORKSCREW SE (1973)
 AJ7589
 AJ7589                       *CURRENT SURVEY CONTROL
 AJ7589  ______________________________________________________________________
 AJ7589* NAD 83(2011) POSITION- 26 21 59.59180(N) 081 30 19.73540(W)   ADJUSTED
 AJ7589* NAD 83(2011) ELLIP HT-   -17.666 (meters)        (06/27/12)   ADJUSTED
 AJ7589* NAD 83(2011) EPOCH    -  2010.00
 AJ7589* NAVD 88 ORTHO HEIGHT -     6.608 (meters)       21.68  (feet) ADJUSTED
 AJ7589  ______________________________________________________________________
 AJ7589  NAD 83(2011) X  -    844,690.355 (meters)                    COMP
 AJ7589  NAD 83(2011) Y  - -5,655,656.764 (meters)                    COMP
 AJ7589  NAD 83(2011) Z  -  2,815,497.591 (meters)                    COMP
 AJ7589  LAPLACE CORR    -         -0.92  (seconds)                   DEFLEC12B
 AJ7589  GEOID HEIGHT    -        -24.269 (meters)                    GEOID12B
 AJ7589  DYNAMIC HEIGHT  -          6.597 (meters)       21.64  (feet) COMP
 AJ7589  MODELED GRAVITY -    979,050.6   (mgal)                      NAVD 88
 AJ7589
 AJ7589  VERT ORDER      -  FIRST     CLASS II
 AJ7589
 AJ7589  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 AJ7589  Standards:
 AJ7589         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 AJ7589            Horiz  Ellip          SD_N   SD_E   SD_h      (unitless)
 AJ7589  ------------------------------------------------------------------
 AJ7589  NETWORK    2.53   3.49          1.00   1.05   1.78     -0.23416737
 AJ7589  ------------------------------------------------------------------
 AJ7589  Click here for local accuracies and other accuracy information.
 AJ7589
 AJ7589
 AJ7589.The horizontal coordinates were established by GPS observations
 AJ7589.and adjusted by the National Geodetic Survey in June 2012.
 AJ7589
 AJ7589.NAD 83(2011) refers to NAD 83 coordinates where the reference
 AJ7589.frame has been affixed to the stable North American tectonic plate. See
 AJ7589.NA2011 for more information.
 AJ7589
 AJ7589.The horizontal coordinates are valid at the epoch date displayed above
 AJ7589.which is a decimal equivalence of Year/Month/Day.
 AJ7589
 AJ7589.The orthometric height was determined by differential leveling and
 AJ7589.adjusted by the NATIONAL GEODETIC SURVEY
 AJ7589.in February 2002.
 AJ7589
 AJ7589.Significant digits in the geoid height do not necessarily reflect accuracy.
 AJ7589.GEOID12B height accuracy estimate available here.
 AJ7589
 AJ7589.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ7589
 AJ7589.The Laplace correction was computed from DEFLEC12B derived deflections.
 AJ7589
```

```
AJ7589.The ellipsoidal height was determined by GPS observations
AJ7589.and is referenced to NAD 83.
AJ7589
AJ7589.The dynamic height is computed by dividing the NAVD 88
AJ7589.geopotential number by the normal gravity value computed on the
AJ7589.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ7589.degrees latitude (g = 980.6199 gals.).
AJ7589
AJ7589.The modeled gravity was interpolated from observed gravity values.
AJ7589
AJ7589. The following values were computed from the NAD 83(2011) position.
AJ7589
AJ7589;                    North         East     Units Scale Factor Converg.
AJ7589;SPC FL E     -   225,322.023   149,552.949   MT  0.99997259   -0 13 28.2
AJ7589;SPC FL E     -   739,244.00    490,658.30   sFT  0.99997259   -0 13 28.2
AJ7589;UTM  17      - 2,916,377.125   449,570.162   MT  0.99963140   -0 13 28.2
AJ7589
AJ7589!             -  Elev Factor  x  Scale Factor =   Combined Factor
AJ7589!SPC FL E     -   1.00000278  x   0.99997259  =   0.99997537
AJ7589!UTM  17      -   1.00000278  x   0.99963140  =   0.99963417
AJ7589
AJ7589                          SUPERSEDED SURVEY CONTROL
AJ7589
AJ7589  NAD 83(2007)-  26 21 59.59194(N)    081 30 19.73611(W) AD(2002.00) 0
AJ7589  ELLIP H (02/10/07)  -17.644  (m)                       GP(2002.00)
AJ7589  NAD 83(1999)-  26 21 59.59204(N)    081 30 19.73618(W) AD(       ) 1
AJ7589  ELLIP H (12/12/02)  -17.652  (m)                       GP(       ) 4 2
AJ7589  NAVD 88 (12/12/02)    6.61   (m)           21.7    (f) LEVELING    3
AJ7589
AJ7589.Superseded values are not recommended for survey control.
AJ7589
AJ7589.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ7589.See file dsdata.txt to determine how the superseded data were derived.
AJ7589
AJ7589_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK4957016377(NAD 83)
AJ7589
AJ7589_MARKER: F = FLANGE-ENCASED ROD
AJ7589_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AJ7589_STAMPING: Y 534 2001 CERP
AJ7589_MARK LOGO: NONE
AJ7589_PROJECTION: RECESSED 14 CENTIMETERS
AJ7589_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AJ7589_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ7589_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ7589+SATELLITE: SATELLITE OBSERVATIONS - December 11, 2013
AJ7589_ROD/PIPE-DEPTH: 5.20 meters
AJ7589_SLEEVE-DEPTH  : 0.46 meters
AJ7589
AJ7589  HISTORY     - Date     Condition        Report By
AJ7589  HISTORY     - 20010825 MONUMENTED       LDBLS
AJ7589  HISTORY     - 20020311 GOOD             MAPTEC
AJ7589  HISTORY     - 20060325 GOOD             SUTESO
AJ7589  HISTORY     - 20131211 GOOD             FL-021
AJ7589
AJ7589                          STATION DESCRIPTION
AJ7589
AJ7589'DESCRIBED BY LD BRADLEY LAND SURVEYORS 2001 (JCH)
AJ7589'THE MARK IS ABOUT 50.6 KM (31.42 MI) NORTHEAST OF NAPLES, ABOUT 14.2
AJ7589'KM (8.81
AJ7589'MI) SOUTHWEST OF IMMOKALEE, LOCATED IN SECTION 22, TOWNSHIP 47 SOUTH,
AJ7589'RANGE 28
AJ7589'EAST, COLLIER COUNTY, FLORIDA. OWNERSHIP - COLLIER COUNTY
AJ7589'
AJ7589'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 29 AND COUNTY
AJ7589'ROAD 846
AJ7589'IN IMMOKALEE , GO SOUTHWEST ALONG COUNTY ROAD 846 14.2 KM (8.81 MI) TO
```

AJ7589'THE
AJ7589'MARK ON THE LEFT.
AJ7589'
AJ7589'THE MARK IS A STAINLESS STEEL ROD 32.00 M (105.0 FT) EAST OF A 36-INCH
AJ7589'REINFORCED CONCRETE PIPE, 7.80 M (25.6 FT) SOUTH OF THE CENTERLINE OF
AJ7589'COUNTY
AJ7589'ROAD 846, 7.56 M (24.8 FT) NORTHWEST OF A WOOD POWER POLE AND 0.91 M
AJ7589'(3.0 FT)
AJ7589'NORTH OF A CARSONITE WITNESS POST. THE DATUM POINT IS SET 14 CM (0.47
AJ7589'FT)
AJ7589'BELOW THE LEVEL OF THE GROUND, ABOUT 0.46 M (1.5 FT) BELOW THE LEVEL
AJ7589'OF THE
AJ7589'HIGHWAY, BEING THE TOP OF A STAINLESS STEEL ROD DRIVEN 5.20 M (17.06
AJ7589'FT) TO
AJ7589'REFUSAL AND ENCASED IN A 5-INCH PVC PIPE WITH AN ACCESS COVER.
AJ7589'
AJ7589'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE ACCESS COVER.
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589'
AJ7589

AJ7589 STATION RECOVERY (2002)

AJ7589
AJ7589'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AJ7589'THE MARK IS ABOUT 50.6 KM (31.42 MI) NORTHEAST OF NAPLES, ABOUT 14.2
AJ7589'KM (8.81
AJ7589'MI) SOUTHWEST OF IMMOKALEE, LOCATED IN SECTION 22, TOWNSHIP 47 SOUTH,
AJ7589'RANGE 28
AJ7589'EAST, COLLIER COUNTY, FLORIDA. OWNERSHIP - COLLIER COUNTY
AJ7589'
AJ7589'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 29 AND COUNTY
AJ7589'ROAD 846
AJ7589'IN IMMOKALEE , GO SOUTHWEST ALONG COUNTY ROAD 846 14.2 KM (8.81 MI) TO
AJ7589'THE
AJ7589'MARK ON THE LEFT.
AJ7589'
AJ7589'THE MARK IS A STAINLESS STEEL ROD 32.00 M (105.0 FT) EAST OF A 36-INCH
AJ7589'REINFORCED CONCRETE PIPE, 7.80 M (25.6 FT) SOUTH OF THE CENTERLINE OF
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AJ7589'ROAD 846, 7.56 M (24.8 FT) NORTHWEST OF A WOOD POWER POLE AND 0.91 M
AJ7589'(3.0 FT)
AJ7589'NORTH OF A CARSONITE WITNESS POST. THE DATUM POINT IS SET 14 CM (0.47
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AJ7589'OF THE
AJ7589'HIGHWAY, BEING THE TOP OF A STAINLESS STEEL ROD DRIVEN 5.20 M (17.06
AJ7589'FT) TO
AJ7589'REFUSAL AND ENCASED IN A 5-INCH PVC PIPE WITH AN ACCESS COVER.
AJ7589'
AJ7589'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE ACCESS COVER.
AJ7589'
AJ7589'RECOVERED AS DESCRIBED 2002 MAPTECH INC (CP)
AJ7589'
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AJ7589                          STATION RECOVERY (2006)
AJ7589
AJ7589'RECOVERY NOTE BY SURVTECH SOLUTIONS 2006 (BS)
AJ7589'RECOVERED AS DESCRIBED
AJ7589
AJ7589                          STATION RECOVERY (2013)
AJ7589
AJ7589'RECOVERY NOTE BY COLLIER COUNTY FLORIDA 2013 (MLB)
AJ7589'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02
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The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1        National Geodetic Survey,   Retrieval Date = DECEMBER 14, 2015
 AJ7583 ***********************************************************************
 AJ7583  DESIGNATION -  X 534
 AJ7583  PID         -  AJ7583
 AJ7583  STATE/COUNTY-  FL/COLLIER
 AJ7583  COUNTRY     -  US
 AJ7583  USGS QUAD   -  CORKSCREW SE (1973)
 AJ7583
 AJ7583                        *CURRENT SURVEY CONTROL
 AJ7583  ______________________________________________________________________
 AJ7583* NAD 83(2011) POSITION- 26 22 00.02529(N) 081 31 18.68454(W)   ADJUSTED
 AJ7583* NAD 83(2011) ELLIP HT-   -16.974 (meters)        (06/27/12)   ADJUSTED
 AJ7583* NAD 83(2011) EPOCH    -  2010.00
 AJ7583* NAVD 88 ORTHO HEIGHT -     7.282 (meters)       23.89  (feet) ADJUSTED
 AJ7583  ______________________________________________________________________
 AJ7583  NAD 83(2011) X  -    843,073.189 (meters)                    COMP
 AJ7583  NAD 83(2011) Y  - -5,655,892.694 (meters)                    COMP
 AJ7583  NAD 83(2011) Z  -  2,815,509.852 (meters)                    COMP
 AJ7583  LAPLACE CORR    -         -0.91  (seconds)                   DEFLEC12B
 AJ7583  GEOID HEIGHT    -        -24.255 (meters)                    GEOID12B
 AJ7583  DYNAMIC HEIGHT  -          7.270 (meters)       23.85  (feet) COMP
 AJ7583  MODELED GRAVITY -    979,050.3   (mgal)                      NAVD 88
 AJ7583
 AJ7583  VERT ORDER      -  FIRST     CLASS II
 AJ7583
 AJ7583  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 AJ7583  Standards:
 AJ7583         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 AJ7583            Horiz  Ellip          SD_N   SD_E   SD_h      (unitless)
 AJ7583  ------------------------------------------------------------------
 AJ7583  NETWORK    2.43   3.39          0.97   1.01   1.73     -0.14661406
 AJ7583  ------------------------------------------------------------------
 AJ7583  Click here for local accuracies and other accuracy information.
 AJ7583
 AJ7583
 AJ7583.The horizontal coordinates were established by GPS observations
 AJ7583.and adjusted by the National Geodetic Survey in June 2012.
 AJ7583
 AJ7583.NAD 83(2011) refers to NAD 83 coordinates where the reference
 AJ7583.frame has been affixed to the stable North American tectonic plate. See
 AJ7583.NA2011 for more information.
 AJ7583
 AJ7583.The horizontal coordinates are valid at the epoch date displayed above
 AJ7583.which is a decimal equivalence of Year/Month/Day.
 AJ7583
 AJ7583.The orthometric height was determined by differential leveling and
 AJ7583.adjusted by the NATIONAL GEODETIC SURVEY
 AJ7583.in February 2002.
 AJ7583
 AJ7583.Significant digits in the geoid height do not necessarily reflect accuracy.
 AJ7583.GEOID12B height accuracy estimate available here.
 AJ7583
 AJ7583.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AJ7583
 AJ7583.The Laplace correction was computed from DEFLEC12B derived deflections.
 AJ7583
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AJ7583.The ellipsoidal height was determined by GPS observations
AJ7583.and is referenced to NAD 83.
AJ7583
AJ7583.The dynamic height is computed by dividing the NAVD 88
AJ7583.geopotential number by the normal gravity value computed on the
AJ7583.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ7583.degrees latitude (g = 980.6199 gals.).
AJ7583
AJ7583.The modeled gravity was interpolated from observed gravity values.
AJ7583
AJ7583. The following values were computed from the NAD 83(2011) position.
AJ7583
AJ7583;                    North         East     Units Scale Factor Converg.
AJ7583;SPC FL E     -   225,341.870   147,918.777   MT  0.99997465   -0 13 54.4
AJ7583;SPC FL E     -   739,309.12    485,296.85   sFT  0.99997465   -0 13 54.4
AJ7583;UTM  17      - 2,916,396.966   447,936.547   MT  0.99963347   -0 13 54.4
AJ7583
AJ7583!             -  Elev Factor  x  Scale Factor =   Combined Factor
AJ7583!SPC FL E     -   1.00000267  x   0.99997465  =   0.99997732
AJ7583!UTM  17      -   1.00000267  x   0.99963347  =   0.99963614
AJ7583
AJ7583                          SUPERSEDED SURVEY CONTROL
AJ7583
AJ7583  NAD 83(2007)-  26 22 00.02544(N)    081 31 18.68525(W) AD(2002.00) 0
AJ7583  ELLIP H (02/10/07)  -16.952  (m)                       GP(2002.00)
AJ7583  NAD 83(1999)-  26 22 00.02550(N)    081 31 18.68537(W) AD(       ) 1
AJ7583  ELLIP H (12/12/02)  -16.965  (m)                       GP(       ) 4 2
AJ7583  NAVD 88 (12/12/02)    7.28   (m)           23.9    (f) LEVELING    3
AJ7583
AJ7583.Superseded values are not recommended for survey control.
AJ7583
AJ7583.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ7583.See file dsdata.txt to determine how the superseded data were derived.
AJ7583
AJ7583_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK4793616396(NAD 83)
AJ7583
AJ7583_MARKER: F = FLANGE-ENCASED ROD
AJ7583_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AJ7583_STAMPING: X 534 2001 CERP
AJ7583_MARK LOGO: NONE
AJ7583_PROJECTION: RECESSED 15 CENTIMETERS
AJ7583_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AJ7583_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ7583_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ7583+SATELLITE: SATELLITE OBSERVATIONS - December 11, 2013
AJ7583_ROD/PIPE-DEPTH: 9.72 meters
AJ7583_SLEEVE-DEPTH  : 0.46 meters
AJ7583
AJ7583  HISTORY     - Date     Condition        Report By
AJ7583  HISTORY     - 20010825 MONUMENTED       LDBLS
AJ7583  HISTORY     - 20020311 GOOD             MAPTEC
AJ7583  HISTORY     - 20060325 GOOD             SUTESO
AJ7583  HISTORY     - 20110507 GOOD             INDIV
AJ7583  HISTORY     - 20131211 GOOD             FL-021
AJ7583
AJ7583                          STATION DESCRIPTION
AJ7583
AJ7583'DESCRIBED BY LD BRADLEY LAND SURVEYORS 2001 (JCH)
AJ7583'THE MARK IS ABOUT 48.9 KM (30.40 MI) NORTHEAST OF NAPLES, ABOUT 15.8
AJ7583'KM (9.83
AJ7583'MI) SOUTHWEST OF IMMOKALEE, IN SECTION 21, TOWNSHIP 47 SOUTH, RANGE 28
AJ7583'EAST,
AJ7583'COLLIER COUNTY, FLORIDA. OWNERSHIP - COLLIER COUNTY
AJ7583'
AJ7583'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 29 AND COUNTY
AJ7583'ROAD 846
```

AJ7583'IN IMMOKALEE, GO SOUTHWEST ALONG COUNTY ROAD 846 15.8 KM (9.83 MI) TO
AJ7583'THE
AJ7583'INTERSECTION WITH OIL WELL GRADE ROAD AND THE MARK ON THE RIGHT.
AJ7583'
AJ7583'THE MARK IS A STAINLESS STEEL ROD IN THE NORTHWEST QUADRANT OF THE
AJ7583'INTERSECTION, 8.26 M (27.1 FT) NORTH OF THE CENTERLINE OF COUNTY ROAD
AJ7583'846,
AJ7583'3.87 M (12.7 FT) SOUTH OF THE SOUTHEAST CORNER A CONCRETE ENDWALL,
AJ7583'3.51 M
AJ7583'(11.5 FT) SOUTH OF A CARSONITE WITNESS POST AND 0.91 M (3.0 FT) EAST
AJ7583'OF 48-
AJ7583'INCH REINFORCED CONCRETE PIPE CULVERT. THE DATUM POINT IS SET 15 CM
AJ7583'(0.50 FT)
AJ7583'BELOW THE LEVEL OF THE GROUND, ABOUT 0.46 M (1.5 FT) BELOW THE LEVEL
AJ7583'OF THE
AJ7583'HIGHWAY, BEING THE TOP OF A STAINLESS STEEL ROD DRIVEN 9.72 M (31.88
AJ7583'FT) TO
AJ7583'REFUSAL AND ENCASED IN A 5-INCH PVC PIPE WITH AN ACCESS COVER.
AJ7583'
AJ7583'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE ACCESS COVER.
AJ7583'
AJ7583'
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AJ7583'
AJ7583'
AJ7583
AJ7583 STATION RECOVERY (2002)
AJ7583
AJ7583'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AJ7583'THE MARK IS ABOUT 48.9 KM (30.40 MI) NORTHEAST OF NAPLES, ABOUT 15.8
AJ7583'KM (9.83
AJ7583'MI) SOUTHWEST OF IMMOKALEE, IN SECTION 21, TOWNSHIP 47 SOUTH, RANGE 28
AJ7583'EAST,
AJ7583'COLLIER COUNTY, FLORIDA. OWNERSHIP - COLLIER COUNTY
AJ7583'
AJ7583'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 29 AND COUNTY
AJ7583'ROAD 846
AJ7583'IN IMMOKALEE, GO SOUTHWEST ALONG COUNTY ROAD 846 15.8 KM (9.83 MI) TO
AJ7583'THE
AJ7583'INTERSECTION WITH OIL WELL GRADE ROAD AND THE MARK ON THE RIGHT.
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AJ7583'
AJ7583'NOTE - A MAGNET WAS PLACED INSIDE THE SLEEVE, BELOW THE ACCESS COVER.

AJ7583'
AJ7583'RECOVERED AS DESCRIBED 2002 MAPTECH INC (CP)
AJ7583'
AJ7583'
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AJ7583'
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AJ7583
AJ7583 STATION RECOVERY (2006)
AJ7583
AJ7583'RECOVERY NOTE BY SURVTECH SOLUTIONS 2006 (BS)
AJ7583'RECOVERED AS DESCRIBED
AJ7583
AJ7583 STATION RECOVERY (2011)
AJ7583
AJ7583'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2011
AJ7583'RECOVERED IN GOOD CONDITION.
AJ7583
AJ7583 STATION RECOVERY (2013)
AJ7583
AJ7583'RECOVERY NOTE BY COLLIER COUNTY FLORIDA 2013 (MLB)
AJ7583'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02

Level Adjustment: 03-13-2003 10:37:11
From file: 30201-10-88.LIN
Project: Project: SFWMD LEE-COLLIER WELLS
Entered by: M. HOLT 03-12-2003 11:28:02

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)	ADJ EL(M)
Y 534	0.000	21.680		21.680	6.608
TP 1	441.000	22.983	0.001	22.984	7.005
TP 2	862.000	23.536	0.001	23.537	7.174
TP 3	1306.000	23.366	0.002	23.368	7.123
TP 4	1745.000	24.233	0.003	24.236	7.387
TP 5	2188.000	24.310	0.003	24.313	7.411
TP 6	2619.000	24.707	0.004	24.711	7.532
TP 7	3035.000	24.457	0.004	24.461	7.456
TP 8	3471.000	24.757	0.005	24.762	7.547
TP 9	3908.000	24.930	0.006	24.936	7.600
TP 10	4343.000	24.913	0.006	24.919	7.595
TP 11	4775.000	24.803	0.007	24.810	7.562
TP 12	5176.000	23.520	0.007	23.527	7.171
TP 13	5539.000	22.987	0.008	22.995	7.009

TP 14	5968.000	23.064	0.009	23.073
7.033				
.	6398.000	22.964	0.009	22.973
7.002				
TP 16	6839.000	23.127	0.010	23.137
7.052				
TP 17	7271.000	23.497	0.010	23.507
7.165				
TP 18	7710.000	23.274	0.011	23.285
7.097				
TP 19	8144.000	22.074	0.012	22.086
6.732				
TP 20	8574.000	22.004	0.012	22.016
6.711				
TP 21	9016.000	22.130	0.013	22.143
6.749				
TP 22	9430.000	22.846	0.014	22.860
6.968				
TP 23	9847.000	22.599	0.014	22.613
6.893				
TP 24	10263.000	22.849	0.015	22.864
6.969				
TP 25	10697.000	22.269	0.015	22.284
6.792				
TP 26	10999.000	22.149	0.016	22.165
6.756				
TP 27	11433.000	22.133	0.016	22.149
6.751				
TP 28	11870.000	22.310	0.017	22.327
6.805				
TP 29	12309.000	22.163	0.018	22.181
6.761				
TP 30	12745.000	22.363	0.018	22.381
6.822				
TP 31	12879.000	23.603	0.019	23.622
7.200				

COLL-49	13077.000	21.173	0.019	21.192
6.459				
TP 32	13476.000	22.466	0.019	22.485
6.854				
TP 33	13921.000	22.223	0.020	22.243
6.780				
TP 34	14365.000	21.863	0.021	21.884
6.670				
TP 35	14795.000	22.179	0.021	22.200
6.767				
TP 36	15240.000	22.492	0.022	22.514
6.862				
TP 37	15686.000	21.832	0.023	21.855
6.661				
TP 38	16136.000	21.742	0.023	21.765
6.634				
TP 39	16568.000	21.642	0.024	21.666
6.604				
TP 40	17007.000	21.659	0.024	21.683
6.609				
TP 41	17446.000	21.392	0.025	21.417
6.528				
TP 42	17876.000	21.352	0.026	21.378
6.516				
TP 43	17978.000	22.322	0.026	22.348
6.812				
TP 44	18406.000	21.622	0.026	21.648
6.598				
TP 45	18835.000	21.769	0.027	21.796
6.643				
TP 46	19273.000	21.789	0.028	21.817
6.650				
TP 47	19699.000	22.019	0.028	22.047
6.720				
TP 48	20143.000	21.699	0.029	21.728
6.623				

TP 49	20568.000	21.462	0.030	21.492
6.551				
TP 50	20988.000	21.962	0.030	21.992
6.703				
TP 51	21429.000	22.139	0.031	22.170
6.757				
TP 52	21857.000	22.219	0.031	22.250
6.782				
TP 53	22283.000	22.319	0.032	22.351
6.813				
TP 54	22722.000	21.926	0.033	21.959
6.693				
TP 55	23149.000	21.499	0.033	21.532
6.563				
GPS A060	23425.000	20.749	0.034	20.783
6.335				
TP 56	23811.000	21.709	0.034	21.743
6.627				
TP 57	24230.000	22.076	0.035	22.111
6.739				
TP 58	24653.000	21.583	0.035	21.618
6.589				
TP 59	25090.000	21.530	0.036	21.566
6.573				
TP 60	25541.000	21.633	0.037	21.670
6.605				
TP 61	25956.000	22.160	0.037	22.197
6.766				
TP 62	26409.000	20.923	0.038	20.961
6.389				
TP 63	26852.000	21.380	0.039	21.419
6.528				
CC-8	27179.000	20.943	0.039	20.982
6.395				
COLL-46	27338.000	20.760	0.039	20.799
6.340				

TP 64	27784.000	20.140	0.040	20.180
6.151				
COLL-45	27869.000	20.453	0.040	20.493
6.246				
TP 65	28039.000	20.183	0.040	20.223
6.164				
TP 66	28401.000	20.763	0.041	20.804
6.341				
TP 67	28831.000	21.643	0.041	21.684
6.609				
TP 68	29290.000	21.376	0.042	21.418
6.528				
TP 69	29741.000	22.263	0.043	22.306
6.799				
TP 70	30183.000	21.573	0.043	21.616
6.589				
TP 71	30633.000	21.503	0.044	21.547
6.568				
TP 72	31079.000	21.687	0.045	21.732
6.624				
TP 73	31525.000	22.033	0.045	22.078
6.730				
TP 74	31977.000	21.883	0.046	21.929
6.684				
TP 75	32419.000	22.463	0.047	22.510
6.861				
TP 76	32860.000	21.770	0.047	21.817
6.650				
TP 77	33294.000	22.270	0.048	22.318
6.803				
TP 78	33732.000	22.266	0.049	22.315
6.801				
TP 79	34195.000	22.153	0.049	22.202
6.767				
TP 80	34648.000	21.960	0.050	22.010
6.709				

TP 81	35093.000	21.657	0.051	21.708
6.616				
TP 82	35541.000	21.811	0.051	21.862
6.664				
TP 83	36004.000	21.928	0.052	21.980
6.699				
TP 84	36445.000	21.821	0.052	21.873
6.667				
CC-6	36539.000	20.941	0.053	20.994
6.399				
TP 85	36979.000	21.871	0.053	21.924
6.683				
TP 86	37430.000	22.038	0.054	22.092
6.734				
TP 87	37670.000	22.298	0.054	22.352
6.813				
TP 88	38097.000	21.381	0.055	21.436
6.534				
TP 89	38539.000	21.167	0.055	21.222
6.469				
TP 90	38967.000	21.497	0.056	21.553
6.569				
TP 91	39416.000	21.840	0.057	21.897
6.674				
TP 92	39880.000	22.070	0.057	22.127
6.744				
TP 93	40333.000	23.163	0.058	23.221
7.078				
TP 94	40788.000	22.296	0.059	22.355
6.814				
TP 95	41246.000	22.406	0.059	22.465
6.847				
TP 96	41708.000	22.066	0.060	22.126
6.744				
TP 97	42160.000	21.896	0.061	21.957
6.692				

TP 98	42642.000	22.120	0.061	22.181
6.761				
TP 99	43082.000	22.190	0.062	22.252
6.782				
TP 100	43524.000	23.540	0.063	23.603
7.194				
TP 101	43943.000	23.307	0.063	23.370
7.123				
TP 102	44408.000	23.460	0.064	23.524
7.170				
TP 103	44857.000	23.267	0.065	23.332
7.111				
TP 104	45292.000	23.290	0.065	23.355
7.119				
TP 105	45743.000	23.217	0.066	23.283
7.097				
X 534	45858.000	23.824	0.066	23.890
7.282				

Closure : 0.066
Max Allowed: 0.147 (MTS)
Max Allowed: 0.074 (Second Order, Class II)

Distance : 45858
Turns : 112
Error per Turn : 0.00059

Project:
Entered by: 03-13-2003 10:10:03

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)	ADJ EL(M)
TP 31	0.000	23.622		23.622	7.200
HF 5	421.000	24.805	0.001	24.806	7.561
TP	819.000	21.975	0.002	21.977	6.699
HF 3	1003.000	26.475	0.002	26.477	8.070

HF 3G	1189.000	24.185	0.002	24.187
7.372				
COLL-49	1439.000	21.189	0.003	21.192
6.459				

Closure : 0.003
Max Allowed: 0.026 (MTS)
Max Allowed: 0.013 (Second Order, Class II)

Distance : 1439
Turns : 5
Error per Turn : 0.00060

NAVD88 Adjustment

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)	ADJ EL(M)
COLL-46	0.000	20.799		20.799	6.340
HF 6G	176.000	22.979	-0.000	22.979	7.004
HF 1G	255.000	20.842	-0.001	20.841	6.352
HF 1	332.000	23.905	-0.001	23.904	7.286
TP 1	545.000	21.028	-0.001	21.027	6.409
TP 2	654.000	21.241	-0.002	21.239	6.474
HF 2G	758.000	22.771	-0.002	22.769	6.940
HF 2	864.000	25.431	-0.002	25.429	7.751
TP 3	970.000	21.161	-0.002	21.159	6.449
TP 4	1150.000	20.321	-0.003	20.318	6.193
HF 4G	1406.000	22.351	-0.003	22.348	6.812
HF 4	1655.000	24.938	-0.004	24.934	7.600

HF 7	1966.000	23.575	-0.005	23.570
7.184				
COLL-45	2147.000	20.498	-0.005	20.493
6.246				

Closure : -0.005
Max Allowed: 0.032 (MTS)
Max Allowed: 0.016 (Second Order, Class II)

Distance : 2147
Turns : 13
Error per Turn : -0.00038

Level Adjustment: 03-19-2003 10:12:36
From file: 30201-~2.LIN
Project: Project: SFWMD LEE-COLLIER WELLS
Entered by: M. HOLT 03-12-2003 11:28:02

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)	ADJ EL(M)
Y 534	0.000	22.989		22.989	7.007
TP 1	441.000	24.292	0.001	24.293	7.404
TP 2	862.000	24.845	0.001	24.846	7.573
TP 3	1306.000	24.675	0.002	24.677	7.522
TP 4	1745.000	25.542	0.003	25.545	7.786
TP 5	2188.000	25.619	0.003	25.622	7.810
TP 6	2619.000	26.016	0.004	26.020	7.931
TP 7	3035.000	25.766	0.005	25.771	7.855
TP 8	3471.000	26.066	0.005	26.071	7.947
TP 9	3908.000	26.239	0.006	26.245	7.999
TP 10	4343.000	26.222	0.006	26.228	7.994
TP 11	4775.000	26.112	0.007	26.119	7.961
TP 12	5176.000	24.829	0.008	24.837	7.570
TP 13	5539.000	24.296	0.008	24.304	7.408

TP 14	5968.000	24.373	0.009	24.382
7.432				
.	6398.000	24.273	0.009	24.282
7.401				
TP 16	6839.000	24.436	0.010	24.446
7.451				
TP 17	7271.000	24.806	0.011	24.817
7.564				
TP 18	7710.000	24.583	0.011	24.594
7.496				
TP 19	8144.000	23.383	0.012	23.395
7.131				
TP 20	8574.000	23.313	0.013	23.326
7.110				
TP 21	9016.000	23.439	0.013	23.452
7.148				
TP 22	9430.000	24.155	0.014	24.169
7.367				
TP 23	9847.000	23.908	0.015	23.923
7.292				
TP 24	10263.000	24.158	0.015	24.173
7.368				
TP 25	10697.000	23.578	0.016	23.594
7.191				
TP 26	10999.000	23.458	0.016	23.474
7.155				
TP 27	11433.000	23.442	0.017	23.459
7.150				
TP 28	11870.000	23.619	0.018	23.637
7.204				
TP 29	12309.000	23.472	0.018	23.490
7.160				
TP 30	12745.000	23.672	0.019	23.691
7.221				
TP 31	12879.000	24.912	0.019	24.931
7.599				

COLL-49 6.858	13077.000	22.482	0.019	22.501
TP 32 7.253	13476.000	23.775	0.020	23.795
TP 33 7.179	13921.000	23.532	0.021	23.553
TP 34 7.069	14365.000	23.172	0.021	23.193
TP 35 7.166	14795.000	23.488	0.022	23.510
TP 36 7.261	15240.000	23.801	0.023	23.824
TP 37 7.060	15686.000	23.141	0.023	23.164
TP 38 7.033	16136.000	23.051	0.024	23.075
TP 39 7.003	16568.000	22.951	0.025	22.976
TP 40 7.008	17007.000	22.968	0.025	22.993
TP 41 6.927	17446.000	22.701	0.026	22.727
TP 42 6.915	17876.000	22.661	0.027	22.688
TP 43 7.211	17978.000	23.631	0.027	23.658
TP 44 6.998	18406.000	22.931	0.027	22.958
TP 45 7.043	18835.000	23.078	0.028	23.106
TP 46 7.049	19273.000	23.098	0.029	23.127
TP 47 7.119	19699.000	23.328	0.029	23.357
TP 48 7.022	20143.000	23.008	0.030	23.038

TP 49	20568.000	22.771	0.030	22.801
6.950				
TP 50	20988.000	23.271	0.031	23.302
7.103				
TP 51	21429.000	23.448	0.032	23.480
7.157				
TP 52	21857.000	23.528	0.032	23.560
7.181				
TP 53	22283.000	23.628	0.033	23.661
7.212				
TP 54	22722.000	23.235	0.034	23.269
7.092				
TP 55	23149.000	22.808	0.034	22.842
6.962				
GPS A060	23425.000	22.058	0.035	22.093
6.734				
TP 56	23811.000	23.018	0.035	23.053
7.027				
TP 57	24230.000	23.385	0.036	23.421
7.139				
TP 58	24653.000	22.892	0.037	22.929
6.989				
TP 59	25090.000	22.839	0.037	22.876
6.973				
TP 60	25541.000	22.942	0.038	22.980
7.004				
TP 61	25956.000	23.469	0.038	23.507
7.165				
TP 62	26409.000	22.232	0.039	22.271
6.788				
TP 63	26852.000	22.689	0.040	22.729
6.928				
CC-8	27179.000	22.252	0.040	22.292
6.795				
COLL-46	27338.000	22.069	0.041	22.110
6.739				

TP 64	27784.000	21.449	0.041	21.490
6.550				
COLL-45	27869.000	21.762	0.041	21.803
6.646				
TP 65	28039.000	21.492	0.042	21.534
6.563				
TP 66	28401.000	22.072	0.042	22.114
6.740				
TP 67	28831.000	22.952	0.043	22.995
7.009				
TP 68	29290.000	22.685	0.043	22.728
6.928				
TP 69	29741.000	23.572	0.044	23.616
7.198				
TP 70	30183.000	22.882	0.045	22.927
6.988				
TP 71	30633.000	22.812	0.045	22.857
6.967				
TP 72	31079.000	22.996	0.046	23.042
7.023				
TP 73	31525.000	23.342	0.047	23.389
7.129				
TP 74	31977.000	23.192	0.047	23.239
7.083				
TP 75	32419.000	23.772	0.048	23.820
7.260				
TP 76	32860.000	23.079	0.049	23.128
7.049				
TP 77	33294.000	23.579	0.049	23.628
7.202				
TP 78	33732.000	23.575	0.050	23.625
7.201				
TP 79	34195.000	23.462	0.051	23.513
7.167				
TP 80	34648.000	23.269	0.051	23.320
7.108				

TP 81	35093.000	22.966	0.052	23.018
7.016				
TP 82	35541.000	23.120	0.053	23.173
7.063				
TP 83	36004.000	23.237	0.053	23.290
7.099				
TP 84	36445.000	23.130	0.054	23.184
7.067				
CC-6	36539.000	22.250	0.054	22.304
6.798				
TP 85	36979.000	23.180	0.055	23.235
7.082				
TP 86	37430.000	23.347	0.056	23.403
7.133				
TP 87	37670.000	23.607	0.056	23.663
7.212				
TP 88	38097.000	22.690	0.056	22.746
6.933				
TP 89	38539.000	22.476	0.057	22.533
6.868				
TP 90	38967.000	22.806	0.058	22.864
6.969				
TP 91	39416.000	23.149	0.058	23.207
7.074				
TP 92	39880.000	23.379	0.059	23.438
7.144				
TP 93	40333.000	24.472	0.060	24.532
7.477				
TP 94	40788.000	23.605	0.060	23.665
7.213				
TP 95	41246.000	23.715	0.061	23.776
7.247				
TP 96	41708.000	23.375	0.062	23.437
7.144				
TP 97	42160.000	23.205	0.063	23.268
7.092				

TP 98	42642.000	23.429	0.063	23.492
7.160				
TP 99	43082.000	23.499	0.064	23.563
7.182				
TP 100	43524.000	24.849	0.065	24.914
7.594				
TP 101	43943.000	24.616	0.065	24.681
7.523				
TP 102	44408.000	24.769	0.066	24.835
7.570				
TP 103	44857.000	24.576	0.067	24.643
7.511				
TP 104	45292.000	24.599	0.067	24.666
7.518				
TP 105	45743.000	24.526	0.068	24.594
7.496				
X 534	45858.000	25.133	0.068	25.201
7.681				

Closure : 0.068
Max Allowed: 0.147 (MTS)
Max Allowed: 0.074 (Second Order, Class II)

Distance : 45858
Turns : 112
Error per Turn : 0.00061

Project:
Entered by: 03-13-2003 10:10:03

BM ADJ EL(M)	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)
TP 31	0.000	24.931		24.931
7.599				
HF 5	421.000	26.114	0.001	26.115
7.960				
TP	819.000	23.284	0.002	23.286
7.098				
HF 3	1003.000	27.784	0.002	27.786
8.469				

HF 3G	1189.000	25.494	0.002	25.496
7.771				
COLL-49	1439.000	22.498	0.003	22.501
6.858				

Closure : 0.003
Max Allowed: 0.026 (MTS)
Max Allowed: 0.013 (Second Order, Class II)

Distance : 1439
Turns : 5
Error per Turn : 0.00060

NGVD29 Adjusted

BM	SUM DIST	UNADJ ELEV	CORRECTION	ADJ EL(FT)	ADJ EL(M)
COLL-46	0.000	22.110		22.110	6.739
HF 6G	176.000	24.290	-0.000	24.290	7.403
HF 1G	255.000	22.153	-0.001	22.152	6.752
HF 1	332.000	25.216	-0.001	25.215	7.686
TP 1	545.000	22.339	-0.002	22.337	6.808
TP 2	654.000	22.552	-0.002	22.550	6.873
HF 2G	758.000	24.082	-0.002	24.080	7.340
HF 2	864.000	26.742	-0.002	26.740	8.150
TP 3	970.000	22.472	-0.003	22.469	6.849
TP 4	1150.000	21.632	-0.003	21.629	6.592
HF 4G	1406.000	23.662	-0.004	23.658	7.211
HF 4	1655.000	26.249	-0.005	26.244	7.999

HF 7	1966.000	24.886	-0.005	24.881
7.584				
COLL-45	2147.000	21.809	-0.006	21.803
6.646				

Closure : -0.006
Max Allowed: 0.032 (MTS)
Max Allowed: 0.016 (Second Order, Class II)

Distance : 2147
Turns : 13
Error per Turn : -0.00046